

UMASS/AMHERST



312066 0328 6414 2

LIBRARY  
OF THE



MASSACHUSETTS  
AGRICULTURAL  
COLLEGE

~~\_\_\_\_\_~~

~~\_\_\_\_\_~~

~~\_\_\_\_\_~~

5m-12-'29. No. 741

FLOP

v. 9











# BOUND TO GROW



Under the Most Adverse Circumstances.

- Petunia**, Single Large Flowering, Mixed, \$1.00  
 " Single Large Flowering, Fringed, Mixed, " 1.00  
 " Double Large Flowering, Mixed, " 1.00  
 " Double Large Flowering, Fringed, Mixed, " 1.00  
 Each of above in trade pks., at 50c. and \$1.00, Trade pks. Co.  
**Petunia**, Fine Mixed, etc., \$0.15 \$0.50  
 " Choice Mixed, Striped, and Blotched, " 25 1.00  
 " Dwarf luscitable, Mixed, " 25 1.00  
 " Star Petunias, " 25 2.00  
**Salvia splendens**, select stock, " 1 1.00  
**Verbena**, Elliott's Mammoth, Mixed, 25 1.75  
**Nikoteen**, the coming insecticide, pint bottles, \$1.50  
**Verolizing Pans** for Nikoteen, \$1.10 each; set of three, \$3.00.

**WILLIAM ELLIOTT & SONS, NEW YORK.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## BURPEE'S SEEDS PHILADELPHIA.

Wholesale Prices List for Florists and Market Gardeners.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## DALM

Seed. FRESH ON HAND  
 Per 100 1000 2000

- Cecis Weddelliana..... \$1.25 \$12.50 \$25.00  
 Pandanus hills..... 1.50 15.00 30.00  
 Luffa ovalis..... 1.00 10.00 20.00  
 Moon Fancie..... 1.25 12.50 25.00  
 Asparagus Plumbeus Novebor., etc. 1.50 15.00 30.00

J. L. SCHILLER, Rutherford, N. J.

## Gladiolus Shakespeare

For Forcing. \$5.00 per 100; \$40.00 per 1000.

CHAS. H. ALLEN, Floral Park, N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## SPECIAL LOW PRICES ON ALL... Spring Bulbs... PLANTS

F. W. O. SCHMITZ, ETC., ETC. JERSEY CITY, N. J.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## GET THE BEST ASTER SEED

of the celebrated **Simple Aster**, separate colors, pink, white and lavender, also mixed. Seed well cleaned, plump and good. Crop of 1896. For sale in any desired quantity by

**JAMES SEMPLE, Box 2, BELLEVUE, PA.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## Printing of Any and Every Description.

In short, Job Printing—which term covers every variety and species of printed matter known, from the printer's proverbial "business card to a poster, book or newspaper." Here, again, we are at your service, and we can truthfully say that our facilities for this class of work are unsurpassed. To printers at a distance we would advise an estimate covering not less than \$5.00 to \$10.00 on account of express rates

A. T. DE LA MARE PTG. and PUB. CO. I

P. O. Box 1697, New York.

## THERE IS MONEY IN BULBS AND PLANTS.

AT FOLLOWING PRICES FOR CASH WITH ORDER.

- 1000 EXCELSIOR DWARF PEARL TUBEROSES, 3-4 in. \$4.00  
 1500 " " " " " 3-4 in. 5.00  
 1000 " " " " " 4-6 in. 6.50  
 Also a few SURPLUS BULBS which will come in right for Easter.  
 2000 WHITE ROMAN HYAC., 11-13 Centimeter for \$20 per 1000  
 2500 " " " " " 12-12 " " 20 " 2500  
 1000 Common Paper White Narcissus for..... \$3.75  
 1000 Narcissus von Sion, 2d size for..... 6.00  
 1000 White Italian Hyacinths, 2d size for..... 6.00  
 100 Cyclamen Persicum Giganteum for..... 4.00  
 150 CHINESE NARCISSEUS (SACRED LILY) for..... \$2.00

Only limited quantity of the above to offer.

I offer DORMANT H. P. ROSES, Spring Delivery, in best trade sorts for forcing and potting per 100, \$8. PER CASE OF 1500, \$1 00.

Send for Special List of Spring Flowering Bulbs and Plants.

G. H. JOOSTEN, IMPORTER, 193 GREENWICH ST., New York.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## Gladioli

THE BEST IN AMERICA  
 Geraniums, "Mums, Carnations, etc.  
 Write for prices.

BETSCHER BROS.,  
 Canal Dover, O.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## R. W. GLUCAS,

Purchasing and Selling Agent for the SEED TRADE.  
 Importer and Exporter SEEDS, BULBS, Etc.  
 501 & 503 W. 13th Street, NEW YORK.  
 Telephone Call, 403-18th St.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## Valley Pips

\$9.50...  
 PER 1000

EDWIN A. SEIDWITZ,  
 36 W. Lexington St., BALTIMORE, MD.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## TUBEROUS BEGONIA SEEDS

All Colors. Fringed and Fringed.

## BEGONIA VERNON PLANTS.

6 Varieties. \$4.00 per 100. Now Ready for Shipping.

## BEGONIA ERFORDII.

Ready March 1st, \$6.00 per 100.

## OASIS NURSERY CO.,

WESTBURY STATION, L. I., N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## NEW CROP VERBENA SEED

Very early flowers, handsome, above, eight colors only.  
 Catalogue price, \$1.00; ounce, \$3.00.  
 Fresh Flower Seed for Florists  
 Extra quality, choicest strains. One trial will convince. Catalogue free.

MOORE & SIMON,  
 FLOWER SEED GROWERS,  
 PHILADELPHIA, PA.

## PANSY SEED—GIANT FLOWERING VARIETIES.

We make a specialty of the Pansy Seed, Trade packets for nurserymen and florists at exceeding low rates. Write for our Trade List of Pansy and all other varieties of superior flower seed. Please send card when ordering Trade Lists.

SOUTHERN CALIFORNIA SEED CO.,  
 P. O. Box 68, UNIVERSITY, Cal.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## Single Begonia Bulbs

in separate colors. Per 100, \$2.50; per 1000, \$20.00. The Pearl, Ar. Per 100, \$2.00 per 1000, \$20.00. All other seasonable bulbs on hand. \$1.00 per 100.

HULSEBOSCH BROS., Englewood, N. J.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## VERBENA SEED MAMMOTH FLOWERING.

An exceedingly fine collection of Giant flowering varieties. Heads one inch in diameter, of the most showy colors. My customers write that this is the best strain of Verbenas they can get; requires no better evidence of superiority. Every florist should now of it. Liberal trade price, 25c.; 3 pints, 96 cents. Seeds of tested novelties added to every order.

JOHN F. RUPP, Shiremansdown, Pa.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## TUBEROSES!

Dwarf Double Pearl, 2 to 4 in. \$3.50 per 1000. 4 to 6 in. \$4.00 per 1000. Clark with Order. Sample dozen by mail, 25 cents.

GULF COAST NURSERIES,  
 DICKINSON, TEXAS.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## Clematis

MEXICAN BULBS and others, at low prices. WRITE FOR PRICE LIST.

CACTI PLANTS AND SEED.

WM. TELL, Austin, Texas.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WE ARE HEADQUARTERS ON BULBS FOR FORCING, FLOWER SEEDS FOR FLORISTS, ENGLISH MUSHROOM SPAWN. SPECIAL PRICES ON APPLICATION. JOHN GARDINER & Sons, Seedsmen, Box 1506, Philadelphia, Pa.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE



## QUESTION BOX.

OPEN TO ALL. FREE TO ALL.

Answers Solicited from Those Who Know.

(6) Baltimore Florists' Club—G. A. T., Maryland. This Club meets every second and fourth Monday in the month. Non members pay 50 per cent. of fine for absence on an entrance fee for exhibits shown at the exhibitions. The Club membership fee is \$1.00 per quarter, with \$1.00 initiation for Benefit Fund.—E. S.

(7) Black Flies on Violets.—J. P. G. The specimens are badly infested with fly. All that can be done now is to place to bed the plants, and to give them a good soaking around the plants, also fumigate lightly several evenings in succession. This will probably stop the present crop of bloom, but so will the fly if not checked, so it is better to apply the remedy. It is very probable that the plants are being kept much too warm.

(8) Worms in Violet Beds.—X. Y. Z. Worms are removed more readily by lime water than by dressing with kerosene. The latter, when exposed to the atmosphere, soon becomes clink, and in that stage does not act as an entrance for the worms. Pure lime water generally irritates the worms; soot water, also, has partly the same effect. In the case of violets, there is no secretion or lime; it should be perfectly clear.

(9) Smoking in Daytime.—Is there any foundation for the report that a cigarette smoke put into greenhouses while the sun is shining tends to burn foliage worse than a light smoke at night?

—No experienced grower would ever think of smoking in sunlight or during the day. The reason is, the smoke will almost to a certainty burn foliage and, positively so, if any moisture be on the plants, with the strong light, the effect to a large extent, is nullified. It is, of course, necessary to remember, also, that in the case of smoking, it is the heat, besides, the smoking liquid, that does the damage.

(10) Glass Culture.—M. V. K. Seeds are sown in a flat, under glass, in the Spring. A good time to sow is from the middle to the end of February. Sow in a flat, using nice, light soil, heavily covering the seeds. Shade the flat with brown paper, and place in a warm spot; if no other convenience is at hand place on pipes; but see that the soil does not dry out. As soon as the plants are ready to handle put them up in 3 1/2 inch pots. They grow on quickly and when ready move into pots a size two or larger. The house and temperature given to Spring bedding stock suits similar very well. Take good care of the plants during early Summer and plant into permanent quarters in August. Place green twine in position immediately afterwards. The strings should be ready for cutting in October.

(11) Mildewed Rose Leaves.—A. & F. Apparently the plants are still suffering from a form of mildew, which has been better about the check and the new leaves submitted are fair specimens. Stock must now be in very bad shape, and it is only a question of time and attention to receive stimulants of any or in any form. All that can be done now is to keep up the new growth, and, say not less than 50 degrees at night. Keep the soil at the roots as dry as possible, only applying enough water at the wood ripening up. Much of the foliage may drop off, but with a little water, and a little time, new growth may be benefited by the warmer and brighter atmosphere. The plants are a little when new growths are well developed.

(12) Heating by Coil Boiler.—How large a coil boiler will be required to heat a greenhouse 100 x 200 ft. with an average runs of 2-inch pipe will need to heat about 2000 to 2500 sq. ft. of ground. The boiler is to be made of 1 1/2-inch pipe.

For a greenhouse of the size mentioned the boiler should be of the grate about 18 inches square if hard coal to be used, and it should contain about 75 linear feet of 1 1/2-inch pipe. This could be arranged as a box coil in five ranks of six pipes each, or thirty pipes, each 2 1/2 feet long. Without more definite information regarding the boiler, the only question of value to the house only an approximate estimate can be given, but for 30 degrees eight 2-inch pipes, and for 40 degrees, ten will be required if it is to be heated 30 degrees. —L. R. TART.

### A Correction.

(No. 15) of issue of January 9, I noticed two errors that apply to the question of N. S. Draper (No. 12) that renders it incorrect not misleading. In the third line it says, "made of 1 1/2 and 1 1/4-inch pipe." This should read "made of 1 1/2 inch pipe." The other error is a similar one. It occurs in the fifth line from the bottom of the column where it speaks of "a 2 and 1 1/2-inch pipe." Instead of "a 2 1/2-inch pipe."—L. R. TART.

(13) Disease on Carnations.—I have on my carnations two diseases—one I am and the other stem disease; and as I am a loss what I do to check these, will send you a sample of each, and ask you to kindly let me know what the trouble is, and what I can do to cure them. I am sometimes think it is too much that way. What about the bottom of the stems. One side of these diseases my carnations are doing finely, but an very much alarmed as the trouble is getting worse. —L. H.

—One disease is rust, pure and simple. I would refer M. L. H. to my answer to a similar question on page 115, Vol. VII, No. 50, of the EXCHANGE; also to Mr. Shelton's answer to a similar question on page VIII, No. 51, of the EXCHANGE. I will shortly make this disease the subject of an article in these columns.

The other trouble is stem rot, for which the best remedy is to pot the plants up after a plant has become affected. All plants which are badly affected had best be cut up and the roots carefully showing slight traces of it should be carefully gone over and all affected spots cut away. This disease is usually contracted in the field. Continued wet weather, deep planting and poor drainage are the principal causes for its appearance. Although, the same conditions supplemented with close planting and lack of vent what I can do to cure them. I am sometimes think it is too much that way. What about the bottom of the stems. One side of these diseases my carnations are doing finely, but an very much alarmed as the trouble is getting worse. —L. H.

(14) Dahlias for Easter.—Please give temperature in which plants should be grown to get them in fine shape for Easter. —W. WENZ.

—Our experience has been that it is better to start the plants at a night temperature of 45 degrees, in order to secure a strong, hardy, stocky plant. The temperature may be raised after the plant is well started to 50 degrees. After the buds are formed to 55 degrees, with a corresponding increase of day temperature throughout. This is to secure the best results; but where one temperature is to be given, 50 to 55 degrees at night and a corresponding day temperature will have found to be best. It must be remembered, however, that the dahlias is a very sturdy, and very firm of constitution plant. In life, therefore, a temperature of 75 to 80 degrees will be entirely sufficient. A plenty of fresh air will be necessary, the plants, and tones it up wonderfully. The plants will keep well with liberal feeding it will stand almost any amount of forcing. As a rule, the plants should be started in Ruby Queen in a night temperature of 75 degrees, and day temperature of 90 degrees, but the flowers were smaller and

did not keep so well as those grown in pots with a night temperature of 50 degrees.—LAURENCE K. PEACOCK.

(15) Scientific Analysis of Carnation Soils.—J. K.—The scientific chemical analysis of soils is a very important matter as determined by chemical analyses, and yet carnations will succeed on one and fall on another. It furnishes the basis for a good carnation soil. It is necessary to get the best results, of course the soil must receive fertilizers. My suggestion is regard to preparing carnation soil would be to select a good pasture soil containing anywhere from 12 to 14 per cent. clay, and in the fall of the year turn the ground over with the plow, allowing it to stand in the rough all winter. In the spring the soil may have its effect. In a region where limestone is lacking air-slacked lime should be added at the rate of about 1500 pounds per acre. This might be spread broadcast over the sods after they have been turned by the plow. In the spring, the soil should be worked in Spring it should be harrowed and reharrowed until it is a thoroughly fine work. Winter it should be stacked or put into a heap, mixing with it for every four or five parts soil one part of good cow or horse manure. In the fall, every 50 cubic yards of the mixture add 350 to 400 pounds of fine ground bone and 100 pounds of fish-bone or ground slacked wood ashes. The bone and ashes should be mixed with the soil at the same time the manure is added. The soil in the heap should be allowed to stand a couple of weeks, and then turned at least twice before putting it on the beds.—G. B. T. GALLOWAY.

### Propagating Clematis.

GRAFTING—One of the oldest methods of propagating clematis is by grafting on seedlings of Clematis vitalba, viticella, virginica, etc., on the roots of the stock. These are ready for working upon. Parts of the stock, about two inches long, of C. vitalba, C. virginica, etc., are cut and inserted in the soil. Many varieties are shy growers. These are cultivated quicker, and are the better for it, when root grafting is adopted. This is a very simple operation when done in the right way. Any strong growing kind answers the purpose, but the four mentioned are especially well adapted. A quick method is to cut the stock in two, and insert a good bottom bed, free from the hot pipes. The root stocks can be placed quite close together, and the soil should be inserted the clove of the kind required into the fleshy part, or what should be the base of stem or above ground growth; even smaller parts of healthy roots will do. All that has to be done is to lightly work the soil to two parts together with manure or raffia; no wax or similar material is necessary, unless, by preference, a little manure is used. The plants that when all the roots are so served and placed closely together, they must all be covered with soil, in this location, the place of soil. Keep moderately moist, and give a bottom bed of 65 to 75 degrees. Put up with a good bottom bed to grow. This work can be going on all year.

CUTTINGS—Bring one or two-year old stock plants into a greenhouse in the Fall, and cut them up into cuttings, and set to 55 degrees, in January and February 60 to 65 degrees. The young shoots should be cut off, and give one or two cuttings in the first eight days. Further treatment should be similar to that given rose. In three weeks or less the plants will be ready to be put in the first wood from outside in three to four weeks.

LAYERS—These are treated like layers of wisteria. Every 12 inches make a small cut, and insert a peg, and tie the layers books tighten the layers in the ground. The foot should be made about three to four inches long, and the soil should be in the first wood from outside in three to four weeks. In October cut the layers,

in parts and plant in pots or frames over Winter.

SEEDS—The seed will ripen in Fall, it should be gathered over Winter and mixed with sandy earth, and sown in a shallow frame until life is seen, and then sown. Only persons who have the knowledge and skill to get the seeds to germinate, there now exist over 200 varieties, which can only be distinguished by the microscope. For instance, Kazusa, Sibiridid, and Hooker seedling are one and the same flower. If there were only 20 to 25 varieties on the market, the growers would not be so often disappointed. A large field is open here for the right man. A good yellow and red stock is a very desirable one.

Clematis is now being cultivated in different parts of America, and although the plants are weak, it will do better than the imported stocks and give better results. —ALBERT KNAPP.

### The Solid Bed Method.

Since writing my article advocating solid beds for carnations, I have visited some of the principal florists round London, Pa., and found, with only one exception, that the show bench is in use, and in every place the disease is more or less prevalent. The one exception, where solid beds are used, all the plants are in a most healthy condition, with not a sign of rust or other disease. The varieties grown are Meteor, Scott, Daybreak, Portia, Hlinze's White and McGowan. —H. YOTELL.

### BOOKS RECEIVED.

Turkeys and How to Grow Them.—A Treatise on the Various Breeds and Origin of the Name of Turkey; the Various Breeds, and Best Methods to Inure Stock to the Business of Turkey Growing, with Essays from Practical Turkey Growers in Different Parts of the United States and Canada. Edited by Herbert Myrick. Orange Judd Company, publishers, 33 Lafayette street, New York City. Price, 10 cents.

This book contains the best information of the greatest value to turkey raisers, but is too long on the subject by parties in different countries. The book is difficult and critical work of rearing the turkey chicks is fully described, and shows the experience of the most successful turkey raisers. The chapter on fattening and marketing is equally complete, with directions for turkey broilers for fancy profits, catching, killing, picking, packing and shipping, how and where to sell to the best advantage, marketing feathers, etc., and every possible hint for getting the utmost money out of the industry.

TOBACCO—

Manufacturing Tobacco Extracts made easy and sure by using the TOBACCO EASY PURIFIER—\$3.50 each. MONEY BACK IF NOT SATISFACTORY. Particulars by writing to H. A. STODDARD, by N. Y. C. 313 MADISON AVE., N. Y. C.

When writing mention THE FLORIST'S EXCHANGE.

**TOBACCO EASY PURIFIER** 2000 SQ. FT. OF FINE BLOOMS, PERFECTLY PURE, WHITE IN COLOR. VAPORIZES COMPLETELY, LEAVING NO STICKY, DIRTY MASS TO BURN AND SMOKE. IT IS YOUR MONEY BACK. BOOKLET FREE.

H. A. STODDARD, N. Y. C.







## ROSES.

## Varieties, Etc.

I have often been asked the best varieties of roses to grow. This is rather a hard question; because, as mentioned in my previous articles, some roses will grow in one place and poorly in another. Then, again, varieties differ in popular favor in different localities.

However, I will enumerate the varieties I have grown the past three years and tell you how they are getting on. **American Beauty**—This most beautiful of all roses is a very rank grower, but at the same time it is very susceptible to black spot and red spider. It is the rose for the upper ten, mostly bringing a big price, always in good demand, and very profitable when well done.

**Meteor** is without a doubt the finest dark red we have—very free blooming, easy grower, brings good prices, and sells on sight. To get the best results from this rose it should be a house to itself, on account of the high temperature it needs to get good, bright color into the flowers, in stead of black ones with incurved petals; 65 degrees to 68 degrees nights, 73 degrees full days, and 80 degrees to 85 degrees with sunshine is right. This variety also needs watching closely for cutting the blooms.

**Bridesmaid** is the best pink rose of today, its color being much brighter and clearer than the once most popular **Mermet**; it is also a money-maker.

**Mme. Guste** we use very remunerative variety, bearing good flowers on long stems. When I look at the tally board I find this variety and **Mermet** are certainly no loss for any other kind. It is largely called for when well grown, and is an excellent keeper.

**Papa Gontier** we don't hear much about, but it still sells well with us. I have one bush in the garden, and I think it would not be without it. It needs a little extra care, and in most others, 30 degrees nights being about right, it only requires more liberal watering.

**Princess Irene** is a variety beaten for its fine use, and **Niphetos** for every thing that comes along; it is also a good paying kind.

**Pink and White** is a variety that is the finest rose of recent introduction, putting that good old variety, **Mme. Cusin**, in the shade; its large flowers, its bushy habit of growth, and floriferousness, being of the first order.

**Perle and Sunset** are two good ones in the yellow class, and in my opinion will have to wait a long time to produce their kind.

**Kaiserin** does well and cannot be surpassed for a white Summer rose. It has a little drawback in Winter, however, on account of its flowers coming with a weak net; also being a little shy in opening; its substance and texture are certainly not so good this season.

**Mermet** does not seem to do as well as formerly, and is not called for so much, as we grow less and less of it every year.

**Mermet** is something charming and well formed but being very attractive, but it is not so hardy as the most American ones; also very susceptible to black spot. It will still give it another trial on a small scale.

**Perle and Sunset** are two good ones in the yellow class, and in my opinion will have to wait a long time to produce their kind.

**American Belle** never grew half as strong as **Beauty** with me, and the last named also is a little better.

**Mrs. Whitney** has a delightfully fragrant flower of good form and substance, but is a little too slow a grower to be profitable.

**Sou. de Wootton** is a very easy grower, but a very poor keeper, especially in the south.

**Mme. Caroline Testout** has a most beautiful flower, but the bloom is too tinged and the p and is not productive enough. The color quickly fades after the flowers are cut.

**Sou. de Wootton** is a very easy grower, but a very poor keeper, especially in the south.

where we are now having, greenly is very apt to put in an appearance. It is also about time the tobacco cuttings that were put in the houses in the Fall were replenished. Greenly should never be allowed to get a start in the houses, and as the saying is, remember it is very harmful to fumigate especially when your plants are bearing flowers. It not only injures the plants but the flowers will surely lose their color and the petals come crumpled up. I have seen it turn the centers of the flowers in some varieties, more especially the **Mermet** family, to a decided brown, making the cut for about two weeks unusable.

Ventilation in excessive cold and bright weather should be paid on with great caution. If the plants are vigorous and healthy they will now begin to throw up fine shoots from the bottom, and if a chill strikes them they will surely blight. Don't have the thermometer on the highest bench but on the lowest and completely sheltered from the sun, and you will find the least crack of air in these times will have the effect of sweetening and brightening the atmosphere. The temperature at night should not be kept up to the top notch or both flowers and plants will soon lose their substance. If they stand 35 degrees in the early part of the night and the temperature drop to 32 degrees or 34 degrees by morning, it is all right, with of course, the exception of **Mermet** varieties.

With strong fire heat and the sun gain-



Specimen Hydrangea Otakea in Garden of Hon. J. S. Fay, Wood's Holl, Mass.

ing more power, syringing can now be done with more safety. It is not a good plan to use center tables; it is very convenient to syringe from them, but you and your shirt sleeves get wet, but know and you will find the excellent results will be derived from this direction, once in awhile.

If the day promises to be very bright, don't let the fires go down too early, let them help the plants along this season; it is quite 9 o'clock before the sun begins to warm up the houses.

It is a mistake to point to go round the houses the first thing and examine the soil thoroughly, and when water is needed, it is given before syringing. After that is done, it is next to an impossibility to find out dry spots.

**H. H. Central New York.**

## Hydrangea Otakea.

The handsome specimen of above shown in our illustration was grown in the garden of Hon. Jos. S. Fay, Wood's Holl, Mass., (M. H. Walsh, gardener). The photograph was taken August 29, 1896. Height of the plant is 6 1/2 feet, and the circumference 30 feet. There were 208 blooms on the plant, and the average size of the flowers was 1 1/2 inches in diameter. These plants are easy of cultivation, and should be more extensively grown.

M. H. WALSH.

## American Horticultural Society.

This is the new title which has been proposed upon the recently formed American Gardeners' Society. The Executive Committee of that body recommended the change of name at a meeting of delegates from the outside societies called by the secretary of the National Society, held in the Hotel Monmouth Hall, New York, on Monday last, Jan. 11, the new title was unanimously adopted. President J. M. Hunter occupied the chair as the meeting referred to, and stated its objects. He pointed out the need of such a society in America and the elevating influence it would exert on the cause of horticulture generally; he addressed himself more particularly to the gardeners, who he said, "had made but a sad mark in the world up to date," and urged them to assert their rightful position. The gardener was "the pupil of the horticultural world." He charged the horticultural press with not having rendered that assistance to the endeavor to form a national society to which it was entitled. In his closing remarks he asked those interested to set aside petty jealousy and quarrel against self-aggrandizement in the carrying on of the work of the newly formed society.

The time of the meeting, which lasted over four days, was devoted to discussing the constitution and by-laws, in which dele-

of discussing and creating a greater interest in American horticulture, to which all members and auxiliaries of the society shall be invited.

The life membership fee was fixed at \$50. The present officers are: President, J. M. Hunter; Vice-President, Wallace C. Gomerall; Secretary, James I. Donnell; Treasurer, J. P. Butterback; Executive Committee: Arthur Herrington, Charles Webber, William Flinn, Peter Donnell, J. M. Hunter, J. M. Hunter, James Blair, William Duckham and George Hale.

Minutes were read from the secretaries of various societies, acknowledging the receipt of the call for a meeting, several of them expressing their desire to be in the movement.

After adjournment the delegates attended the "smoker" tendered them by the New York Florists' Club, which was thoroughly enjoyed.

## CORRESPONDENCE.

Insertion will be given in this column full communications free from animus; but notices of persons are not necessarily reflect our own.

## A Yellow Self Carnation.

Editor Florists' Exchange:

I mail you the following carnations: three flowers of **Buttercup**; six **Boston O'Or**; and six blooms of a yellow self, a seedling of mine, cross between **Buttercup** and **Boston O'Or**. It is not as good as too much when I state that it is a deep yellow, clear in color, true self without spots, does not crack, buds and answers very well for what the market has been long looking for. The flowers were cut from the plants, and I will improve by bench culture. The seedling is yet unnamed.

W. H. WEBER, Ford, Pa.

We sent a flower to Mr. Weber for his opinion. He replies as under:

"The bloom arrived in a shriveled up condition. It is evident that the flowers were not under these circumstances, I could scarcely render an opinion as to size, form, etc., as I can see it only in the past year, and even if it should not be at first class, every one would be glad to acquire it, and I would to the extent that it may prove, through further crossing, a stepping stone for what we call a new yellow carnation—i. e., a first-class pure yellow carnation."

W. H. WEBER.

## Woman's Fastidiousness.

The Star reporter happened to be in the florist's shop when the beautiful girl made her appearance. She is obnoxious, and she seems to find an inordinate pride in the deficiency of her sensibilities. She didn't know exactly what she wanted.

"You don't know they are very nice and large to-day," remarked the young man from the plants, "and they are very fresh." "No," she said, "I don't care for chrysanthemums, they are not my kind of flowers. They seem to be flouting their charms in your face so persistently that they bore me." "You are a fastidious woman," he said to me, "one of the sweetest attributes of a woman." "Maybe you'd like some nice fresh orchids?" "Yes," she said, "I like orchids, but I don't like to buy goods so slow and was bent on occupying your store with my own." "I'll show you some." We have some very pretty designs in orchids.

"I don't care for orchids, too many. I never care much for orchids, excepting for a little red one." "But, miss, you are so fastidious, but there is nothing sympathetic about you."

"We have a lovely article in pinks." "Ah, no. The perfume is oppressive. They remind me of their old-fashioned, formed petals, nothing save the vanity of the life, but I would like some roses." We make a specialty of roses, and they're on the highest counter for this week only.

"I don't care for roses, either. While they are nice, they are not my kind of flowers, but there is nothing sympathetic about you."

"We have a lovely article in pinks." "Ah, no. The perfume is oppressive. They remind me of their old-fashioned, formed petals, nothing save the vanity of the life, but I would like some roses." We make a specialty of roses, and they're on the highest counter for this week only.

"I don't care for roses, either. While they are nice, they are not my kind of flowers, but there is nothing sympathetic about you."

"We have a lovely article in pinks." "Ah, no. The perfume is oppressive. They remind me of their old-fashioned, formed petals, nothing save the vanity of the life, but I would like some roses." We make a specialty of roses, and they're on the highest counter for this week only.

New York Florists' Club.

The meeting of the Club on Monday night was certainly a success in point of attendance. It being honored by the presence of some fifty old members of the New York American Horticultural Society, and of the New York Gardeners' Society, who had just fresh from their respective cities for the occasion.

President Allen took the chair for the last time in his executive capacity. Mr. Darlington, of Flushing, N. Y., acted as secretary, and Mr. H. H. Hunter, of John Young, who, as a member of the committee on entertainment, was then busily occupied.

President Allen made a farewell address of a customary trenchant master. He spoke feelingly of the death of Harry L. Sunderbruch, President of the American Horticultural Society, characterizing him as a gentleman well known and esteemed by all in the trade, and moved that the secretary be instructed to express the Club's sympathy and condolence to his bereaved family and the Cincinnati Florists' Society. Mr. Allen then moved that he fail to his lot of announcing more deaths of members of the Club and prominent florists of the country, and that he in trade, that had been the lot of any previous president of the Club. Of the immediate president, Samuel Henshaw, Mr. Allen believed he would make one of the best presiding officers of the Club.

The newly elected president, being introduced to the members, said that he had always experienced a peculiar difficulty in talking. His mother had interested him to be a person, but he thanked goodness he had escaped that fate. He felt highly honored by his election to the position he now occupied, and would use his best efforts to merit the confidence of the Club. In connection with the presence of so many private gardeners, he told the audience that he was a member of the gardeners in the country, and belonged to a race of gardeners; that he was just as enthusiastic an exhibitor of ornamental and horticultural literature, and he trusted he would ever remain so. No man could be so interested in horticulture as he was in this line, and he always bore in mind the advice given by his father who said: "Sam, you can't sit alongside a fellow who says he knows it all, get away from him as quickly as you can." He said he was glad the day of records had passed. We have arrived at more liberal days and the willing and unobtrusive gardeners are willing to give freely of their experience. In closing he welcomed the members of the American Horticultural Society.

Mr. Allen now introduced Mr. Plumb, his newly elected vice-president, remarking that the latter also was a private gardener, and the officers seem to run that way this time. Mr. Plumb briefly returned thanks to the members of the Club for his election. He was always willing to do his share of the work, and he trusted he would ever be found to continue faithful. Treasurer Weathered was next introduced, and he made an oration, which he wished he could find words to express his thanks for the confidence which was placed in him by the members of the Club for the past year, and was now again renewed. He heartily thanked the members for the election of W. J. Stewart, of New York, as president, and Geo. Henshaw, who, probably absent through illness, to his family, and A. L. Don, the third year of his service, as secretary. Mr. Stewart said he was glad to be elected a trustee of the Club, and would fulfil the duties of the office to the best of his ability. He thought it was the first time that a trustee of the New York Florists' Club had come from the interior of the State. He visibly reminded of the influence possessed by the gardeners of America, and proposed to take his lot of flowers to the florists and gardeners so all might work together. It was very easy for every gardener to be a good exhibitor and for every florist to be a good gardener.

President Henshaw formally welcomed the members of the American Horticultural Society, replied, and then announced that the annual club of the New York Florists' Club would take place at the Arena on Monday evening, January 20th, and applications for tickets should be put in immediately in order that the committee may compile a list of names, and be in a position to inform that all who intended to be present should notify the committee not later than Wednesday evening, January 20th.

Adjournment was then taken to the floor

below, in which had been spread a bountiful feast for the delectation of the members.

The smoker was a treat, and the gardeners and florists thoroughly enjoyed it. The artists, under the direction of John M. Turner, did their parts in a most satisfactory manner, Dick Gorman's impersonations being vigorously applauded and enjoyed.

The "old, familiar signs," rendered by Mr. Turner in the banjo, were a source of great delight, and as each familiar national air seceded from the trembling strings, the representatives of the different nations present joined heartily in singing the chorus of each national song. Andy Hunter, as purveyor, in a past master. Pipes of all sorts and sizes, and plenty of good tobacco, furnished smoke enough to kill all the greenery in the United States. Smoke evidently has an irresistible magnetism; faces of members were seen on Monday evening which rarely greet an ordinary meeting.

The assemblage broke up at a late hour.

Cincinnati.

The funeral of the late Harry L. Sunderbruch was held at his late residence, Roosevelt, on Saturday afternoon, 14th. The floral tributes were many and beautiful. The services were in charge of the Masonic Fraternity. The Cincinnati Florists' Society.

The business of the deceased will be conducted as usual, for a time at least. At the annual meeting of our society, held Saturday evening, resolutions of condolence and sympathy with the bereaved family were presented and ordered approved upon the minutes.

Owing to the funeral, and out of respect to the memory of our late brother member, the exhibition at the club rooms Saturday afternoon, but the usual meeting will be held in the evening. A committee was appointed to select a floral design to be used as the "club's emblem" upon funeral occasions. Various committees were appointed to look after the details connected with the coming meeting of the club, and we expect to have a most held meeting ever held by the Society.

The election of directors resulted in the old board being returned, viz., Wm. Murphy, Theo. Beck, Fred. Walz, Ben. George and E. G. Gillett. The directors named made the following elections: E. G. Gillett, president; Fred. S. Walz, vice-president; Wm. Murphy, secretary, and Ben. George, treasurer.

John A. Evans, Richmond, Ind., was a visitor. E. G. Gillett.

A Costly Bloom.

The florist who got no judgment for \$318 against John L. Sullivan recalls the fact that the ex-emption has a single blossom probably cost him \$50,000. It's on John's nose. -Norfolk Virginian.

St. Louis.

Wholesale Notes.

Trade was good last week. There was a large supply of roses, carnations, and violets, but the social affairs of the week and several large funeral orders kept the market clear of accumulation. The supply of real choice roses was light, and those received brought good prices, some very choice Bridemaid bringing 12c. From that price Bridemaid graded down to \$4 per 100. A few extra fancy Meteor sold at 15c., but flowers of that description are so scarce that this price cannot be named as a fair market quotation. Fancy Meteor brought 10c. per selection, 6c. second selection, 3c. There was some call for Breck and Downing, but they moved down to \$3 for seconds. Perle sold well, but took better than 100, and 100, and 100, and 100. Perle was in great abundance, but sold out clean. Testout, Siebacht, Wainey, and Morgan were not in demand, and sold at low figures, some fancy Testout going as low as \$5 per 100.

Carnations were in great supply, but the close of the week found the market clear of stock, and but few were lost. There is no longer the demand for red carnations noted in previous reports, and they are now sharing the same price of other colors. While are most abundant with Scott's

White are most abundant with Scott's

White are most abundant with Scott's

White are most abundant with Scott's

White are most abundant with Scott's

White are most abundant with Scott's

White are most abundant with Scott's

The publication in your last week's issue of the statement that the E. H. Michel Floral Co. had been incorporated, has elicited articles of incorporation, a true, and a legal objection to the name, however, has been made, and the fact that it has not yet been incorporated. It is a little premature, therefore, to publish as you have done, the fact that it has not. This new concern had absorbed the business of E. H. Michel, this statement is true, but the fact that it has not been incorporated by fact. Your correspondent has certainly arrived at this conclusion from hearsay evidence, for no such statement has been made by us. I will ask you to kindly make explanation of it, and oblige, and when a charter has been obtained, I will notify you or your correspondent. Until you have done so, the statement is not addressed to the E. H. Michel Floral Co. when such an organization may never come into existence. E. H. MICHEL.

Baltimore.

Market Notes. How quickly the prices of cut flowers rose previous to, and how quickly they fell after, Christmas. Every other class of business offers bargains at the end of a charter, and has been called "tariff." What is the consequence—trade after the holidays dull.

Flowers are abundant and selling at low figures.

Club Notes.

The Club has decided to hold a show, provided a guarantee fund of \$50 can be secured. Mr. Burger proposed the following committee to solicit subscriptions: Messrs. John Donn, Robert Graham, P. Welsh, Montgomery and H. Fisher.

A motion to make the guarantee fund \$100 was voted down.

Fres. Burger's stand, in refusing to read an anonymous communication before the Club, was a source of bringing out a lot of oralational talent.

Jettings.

Some comment was made by the members on the practice of some cemeteries selling graves by lot, and the graves being plucked from the graves.

BENHISHER & Co., a department house, sold printhees at two for 50c. at the A. S. S.

Washington.

A new wagon, the latest creation of the makers of the world, is the "Gude" which drives it, and the price of Gude Bros., is the handsomest production yet seen; it is also the most useful, being equipped with a hot-water boiler and made air tight. No more fears of frost, remarked WILL Gude, as we had at Christmas when the thermometer showed 24 degrees of frost, and many plants were spoiled in consequence. By the use of the Gude will have been appointed upon the executive committee of the A. S. S. for the next year. It is now to utilize some of the young and useful bloom.

W. M.

Poughkeepsie, N. Y.

The annual meeting of the Dutchess County Horticultural Society was held on January 6. The following officers were elected for the ensuing year: President, Geo. H. Asher; treasurer, James Sloan; secretary, Wallace G. General; assistant secretary, William G. Salford. Sixteen new members were elected, making an addition for the year of forty to the membership. The treasurer's report showed a good balance of \$100.00. A number of valuable floral gavel and marble slab was presented to the society by Mr. John C. Galvin. The floral display was most successful. The chrysanthemum exhibition had been most successful. There were 15 exhibits staged in addition, besides a number of applied displays for exhibition only. It was suggested that more classes should be provided for private exhibitors. A challenge trophy should be offered for competition among regularly constituted societies. The property of the society, which was won in three times in succession; also, that where chrysanthemums were exhibited, the number of plants, and the effect with foliage, was considered the most attractive exhibit in the last exhibition. It was suggested that a class should be made a private gardeners' class as well as an open class.

New Delivery Wagon of Gude Bros., Washington, D. C.

N. S. City attended the funeral in a body. The business of the deceased will be conducted as usual, for a time at least.

White are most abundant with Scott's

White are most abundant with Scott's

White are most abundant with Scott's

White are most abundant with Scott's

White are most abundant with Scott's

White are most abundant with Scott's



### Exclusively a Trade Paper.

PUBLISHED: EVERY SATURDAY AT  
A. T. DE LA MARE, PTC. AND PUB. CO. LTD.,  
RHEINLANDER BUILDING, NEW YORK.  
Cor. Ross and Duane Streets.  
P. O. Box 1097. Telephone, 2164 Cortlandt.

Subscription Price, \$1.00 per year, \$2.00  
to Foreign Countries in Postal Union.  
Payable in advance.

Advertising Rates, \$1.00 per inch each  
insertion with discount on contracts.  
Orders from unknown parties must be accom-  
panied with cash or satisfactory references.

Entered at New York Post Office as Second Class Matter  
General Eastern Agent:  
W. E. WOOD,..... West Newton, Mass.  
General Western Agent:  
EDGAR SANDERS, 1609 Belmont Ave., Chicago.

ADVERTISEMENTS and all other mat-  
ter, unless otherwise indicated for inser-  
tion, will not be guaranteed insertion  
issue not later than **THURSDAY NIGHT,**  
the day preceding the issue.

### Exclusively a Trade Paper.

THE FLORISTS' EXCHANGE is published in  
the interests of those commercially  
identified with the Florist, Seed and  
Nursery business. New subscribers are  
requested to enclose business card or  
other proof of their connection with  
these trades.

### Subscribers

Should give notice to the publishers at the  
end of their time if they do not wish to  
continue the paper, otherwise it is con-  
tinued and payment exacted.

### BACK NUMBERS.

Copies of all issues, excepting some of the  
earliest ones, are obtainable at this office,  
which will be supplied at 5 cents per copy.

### Contents.

BOOKS RECEIVED	48
CARANTONS	57
CATALOGUES RECEIVED	58
CHANGES IN BUSINESS	58
CLEMATIS, PROPAGATING	48
CONFERENCE	52
DELIVERED WAGONS, NEW (Illus.)	52
HORTICULTURAL SOCIETY, A NATIONAL	54
HYDRANGEA OTAKA (Illus.)	52
NEW YORK FLORISTS' CLUB	53
OBITUARY	53
Harry L. Sunderbruch	53
QUESTION BOX	48
RECORDS	48
SEED TRADE REPORT	47
SOLID RED METHOD, THE	47
TRADE NOTES:	
Baltimore, Cincinnati, Poughkeepsie	50
St. Louis, New York, Philadelphia, Pittsburg	53
Boston, Chicago, Cleveland, Louisville	55
Grand Rapids, St. Joseph, Mo.	50

### For the Busy Man.

Scott carnations are a giant in several mar-  
kets.

The street fairs in St. Louis now deliver  
flowers to purchasers.

Several societies are considering the advan-  
tage of holding a Christmas dinner.

The New York Florists' Club dinner will be  
held at the "Arenas," on January 29. Those  
intending to be present should notify the com-  
mittee.

Judging from our reports, business all over  
the country is better. Has this condition  
been brought about by the high Christmas  
prices, or what has caused it?

The new National Society has been established,  
and will consist of all American Horticultur-  
al Societies. Its aim is to affiliate all existing  
clubs and societies under one governing body.

### A National Horticultural Society.

The newly organized body which has  
assumed the title of an association that in  
one time existed in this country, but re-  
garding which no information can now be  
obtained (although inquiries have been  
made), as to whether or not it is defunct—  
The American Horticultural Society—has  
undertaken the task of cementing together  
under one head the many organized clubs,  
etc., devoted to the advancement of hor-  
ticultural interests now existing, a task  
that is herculean in its nature, but one  
which the promoters of the new society  
look upon very optimistically.

The endeavor just mentioned, to a very  
great extent, following any attempt on  
similar lines, which it has been proposed  
should be made by the Society of American  
Florists, with the end in view of making  
that Society the governing body—the  
position which the new American Horti-  
cultural Society now seeks to arrogate to  
itself.

It is plainly evident that both associa-  
tions cannot occupy one and the same  
position; and it is also equally clear that  
an attempt by both to secure one and the  
same, both on the one hand, and in  
tagging matters up and in frustrating  
the union of all the horticultural forces under  
one governing head.

The proceedings of the meeting held last  
Monday in New York City, a report of  
which appears elsewhere in this issue, in-  
dubitably showed the new Society is ex-  
ercising its endeavor to carry out what it  
has undertaken, and that there is a certain  
amount of opposition in the membership.  
This desire to co-operate would seem to  
emanate from organized bodies where gar-  
dening is a hobby, and where membership,  
the replies received from florists'  
clubs—and they were few in number—  
showed some indignation, as portraying  
the feelings of these bodies in the matter.

There is now presented to the S. A. F. a  
problem for solution, as portrayed by  
S. A. F. is sincere in its intention to stand  
at the head of all organized clubs in the  
United States, and the new Society is  
the American Horticultural Society for the  
honor, or what shall it take? That  
question needs to be solved, and it is  
apparent, and with existing conditions,  
it is the only way to be followed.

The program mentioned in the  
constitution of the new American Horti-  
cultural Society, and which is so com-  
mend themselves to those having the  
best interests of horticulture at heart;  
and—this is the building up of a new  
organization by the society; the desire to help  
auxiliary societies in the matter of essay-  
ists and lecturers, and the keeping of a  
Bureau of Registration and Information.

The best made in the business have seen  
the advantage, and urged it, holding an  
exhibition as a creator and maintainer of  
enthusiasm, and those who have had the  
opportunity to see the program, and to  
appreciate any assistance, so far as the  
forthcoming of essayists is concerned. The  
Bureau of Registration and Information  
now in the line of aiding gardeners in  
securing positions, and employers worthy  
the aid, and the program in the interest  
of the promoters in this direction did not  
manifest itself at the meeting referred to,  
but was an expression of same sought.

### New York.

During the past week a depression  
that is appalling has hung over the cut  
flower trade, which by the way is  
(We mention the latter in order to show  
that flowers are not alone in the existing  
depression.) Individually the various com-  
mission houses and distributing centers  
report the supply as being very light, but  
the sources are not seen at this time,  
that, taken as a whole, the aggregate  
makes an enormous quantity of stock,  
with the bulk never seen at this  
time. As a consequence, such a thing as  
a cash market is no longer possible. It is  
very likely, if any dealer is seen, he is  
doing a large trade can absolutely clean  
up at the price, and never at brisk or  
firm figures.

After the stores or best trade have re-  
ceived their goods, which by the way is  
now bought in very small parcels, for they  
refrain from stocking up prospectively,  
and are now contenting themselves with  
lots at the mercy of bargain seekers and  
the Greeks, and the condition of business  
is such generally that the purchasers have

the best of it in the end, and buy at their  
own offers.

The weather has been unfavorable to the  
Greeks getting on the streets, and further-  
more, in some parts of the city the police,  
under the orders of the Bureau of Incen-  
drazing, have been very strict, and have  
even in some cases when privileges had  
been granted by stockeepers on their own  
roofs.

Roses in large bulk, or, as is described,  
straight light, meaning that the purchaser  
takes the stock as it comes, without  
sorting, have sold as low as \$23 per 1000,  
and, generally, \$30 per 1000. In smaller  
lots, the price has been \$25, and \$25 per  
100 was about the average. Extra Bride  
and Meteor, and some of the best of the  
Meteor about the same. A few bringing  
\$10. Beauty varied from \$5 per 100 to 50c  
each.

Carnations in 1000 lots sold as low as \$3  
per 1000, and quite a number went at \$4  
and \$5 per 1000. Stock sold only realized  
75c to \$1.50 per 100, and specials, fancies  
and novelties from \$2 to \$3; when kept  
over a year they showed a rate of lower-  
grades.

Violets have had a hard time of it, and  
for some time. The retail stores have  
more than 40c. per 100 for extra good stock.  
In thousand lots prices ruled at from \$3 to  
\$2 per 100.

Lilacs is very plentiful and sells at from  
75c to \$1.00 per bunch, six heads to a bunch.  
Cypripediums have short supply, and to  
supply; these are quoted at \$8 and \$10 per 100.

Cattleyas have taken a tumble and are  
very plentiful; \$35 to \$50 quoted from one  
source, but others are realizing only \$25  
to \$30 per 100, and buy to sell. They  
can get all they need at those figures.

Liliums, longorum and Parviflorum realized  
only \$4 and \$5 per 100; a few in small lots  
sold at \$6 and \$8; on the other hand, \$3 per  
100 realized for the same.

Valley, Romans and narcissus are selling  
lower than last week; the first named is  
very plentiful.

J. K. ALLEN has been receiving Jacq-  
roses for the past two weeks.

THRENDLY & SCHENCK are receiving  
Saxons daily, and have been since New  
Year's.

### Utting.

PAUL PRISON is confined to his  
bed with a very severe cold.

JULIUS ROEBERS is also confined to the  
bed, suffering from a similar cause.

Charles W. Allen has short notice the en-  
gagement of L. C. BOBBIN, Rutherford, N. J.,  
to Miss GERTRUDE SCHMIDT, sister-in-law  
of the writer.

ALEX WARENDORFF will join the ranks  
of the benedicts February 10.

It is reported that the sheriff, on Thurs-  
day last, took charge of the store of S. C.  
Burnham & Co., at No. 788 Fifth avenue,  
on an execution for \$109, in favor of their  
landlord.

J. AUSTIN SHAW, Brooklyn, has dis-  
posed of his retail business at 926 Fulton  
street, and is now engaged in a wholesale ex-  
clusively to wholesale work in the future.

### Toronto.

#### Market News.

Trade has been fair since New  
Year's, but cut flower stock has been very  
plentiful. Wholesale prices, in many  
cases, have been low for this time of the  
year. Roses are good, and while the best  
of the fair and poor stock is selling at  
15c; No. 1, 12c, and from 10c to 12c; and  
other varieties sell at from 10c. down to 1c.  
Carnations, from 10c. to 3c.; violets from  
75c. to \$1.50 per 100.

Roses are offered at retail at from 50c.  
to \$3 per 1000; carnations from 25c. to various  
club notes.

The January meeting of the Horti-  
cultural society was held on Tuesday,  
the 9th. In the absence of the president,  
Mr. Geo. Vair was elected to the chair.  
The minutes of the last meeting were read,  
"How to Increase our Membership," on  
paper and the subject were discussed by  
several members.

Some matters connected with the tariff  
were also discussed, several of the mem-  
bers being of the opinion that it would be  
better if all duty were taken off all domes-  
tic roots and greenhouse plants; but it  
was decided to refer the matter to the  
next meeting for full discussion.

At a meeting of the executive commit-  
tee, held on Tuesday, the 16th, a resolu-  
tion it was decided to hold the annual  
dinner at Webb's, on February 9.

THOS. MANTON

### Philadelphia.

The meeting of the Horticultural  
Society on Tuesday next, promises to be a  
very interesting one. Professor  
Robbuck will deliver an address en-  
titled, "Fire and Flood, the Scourge of  
Pennsylvania." This lecture is given  
under the auspices of the Pennsylvania  
Forestry Association, which will be asso-  
ciated with the Horticultural Society on  
this occasion. Invitations have been sent  
to members of the Civic Club, the trustees  
of the University of Pennsylvania, and to  
the Drexel Institute.

#### Market Notes.

During the past week business  
was very quiet. The retail stores are not  
doing anything worth mentioning. There  
have been a few wedding orders only.  
Flowers are very plentiful; the wholesale  
houses are filled up, and although fair  
prices have been obtained for good stock,  
most of the flowers have been sold for  
what would be obtained. Prices for good  
stock were: For Beauty, \$3 to 6 per dozen,  
flowers are very plentiful; the wholesale  
houses are filled up, and although fair  
prices have been obtained for good stock,  
most of the flowers have been sold for  
what would be obtained. Prices for good  
stock were: For Beauty, \$3 to 6 per dozen,  
flowers are very plentiful; the wholesale  
houses are filled up, and although fair  
prices have been obtained for good stock,  
most of the flowers have been sold for  
what would be obtained. Prices for good  
stock were: For Beauty, \$3 to 6 per dozen,

flowers are very plentiful; the wholesale  
houses are filled up, and although fair  
prices have been obtained for good stock,  
most of the flowers have been sold for  
what would be obtained. Prices for good  
stock were: For Beauty, \$3 to 6 per dozen,  
flowers are very plentiful; the wholesale  
houses are filled up, and although fair  
prices have been obtained for good stock,  
most of the flowers have been sold for  
what would be obtained. Prices for good  
stock were: For Beauty, \$3 to 6 per dozen,

flowers are very plentiful; the wholesale  
houses are filled up, and although fair  
prices have been obtained for good stock,  
most of the flowers have been sold for  
what would be obtained. Prices for good  
stock were: For Beauty, \$3 to 6 per dozen,  
flowers are very plentiful; the wholesale  
houses are filled up, and although fair  
prices have been obtained for good stock,  
most of the flowers have been sold for  
what would be obtained. Prices for good  
stock were: For Beauty, \$3 to 6 per dozen,

flowers are very plentiful; the wholesale  
houses are filled up, and although fair  
prices have been obtained for good stock,  
most of the flowers have been sold for  
what would be obtained. Prices for good  
stock were: For Beauty, \$3 to 6 per dozen,

flowers are very plentiful; the wholesale  
houses are filled up, and although fair  
prices have been obtained for good stock,  
most of the flowers have been sold for  
what would be obtained. Prices for good  
stock were: For Beauty, \$3 to 6 per dozen,

flowers are very plentiful; the wholesale  
houses are filled up, and although fair  
prices have been obtained for good stock,  
most of the flowers have been sold for  
what would be obtained. Prices for good  
stock were: For Beauty, \$3 to 6 per dozen,

flowers are very plentiful; the wholesale  
houses are filled up, and although fair  
prices have been obtained for good stock,  
most of the flowers have been sold for  
what would be obtained. Prices for good  
stock were: For Beauty, \$3 to 6 per dozen,

flowers are very plentiful; the wholesale  
houses are filled up, and although fair  
prices have been obtained for good stock,  
most of the flowers have been sold for  
what would be obtained. Prices for good  
stock were: For Beauty, \$3 to 6 per dozen,

flowers are very plentiful; the wholesale  
houses are filled up, and although fair  
prices have been obtained for good stock,  
most of the flowers have been sold for  
what would be obtained. Prices for good  
stock were: For Beauty, \$3 to 6 per dozen,

flowers are very plentiful; the wholesale  
houses are filled up, and although fair  
prices have been obtained for good stock,  
most of the flowers have been sold for  
what would be obtained. Prices for good  
stock were: For Beauty, \$3 to 6 per dozen,

flowers are very plentiful; the wholesale  
houses are filled up, and although fair  
prices have been obtained for good stock,  
most of the flowers have been sold for  
what would be obtained. Prices for good  
stock were: For Beauty, \$3 to 6 per dozen,

flowers are very plentiful; the wholesale  
houses are filled up, and although fair  
prices have been obtained for good stock,  
most of the flowers have been sold for  
what would be obtained. Prices for good  
stock were: For Beauty, \$3 to 6 per dozen,

flowers are very plentiful; the wholesale  
houses are filled up, and although fair  
prices have been obtained for good stock,  
most of the flowers have been sold for  
what would be obtained. Prices for good  
stock were: For Beauty, \$3 to 6 per dozen,

flowers are very plentiful; the wholesale  
houses are filled up, and although fair  
prices have been obtained for good stock,  
most of the flowers have been sold for  
what would be obtained. Prices for good  
stock were: For Beauty, \$3 to 6 per dozen,

flowers are very plentiful; the wholesale  
houses are filled up, and although fair  
prices have been obtained for good stock,  
most of the flowers have been sold for  
what would be obtained. Prices for good  
stock were: For Beauty, \$3 to 6 per dozen,

flowers are very plentiful; the wholesale  
houses are filled up, and although fair  
prices have been obtained for good stock,  
most of the flowers have been sold for  
what would be obtained. Prices for good  
stock were: For Beauty, \$3 to 6 per dozen,

flowers are very plentiful; the wholesale  
houses are filled up, and although fair  
prices have been obtained for good stock,  
most of the flowers have been sold for  
what would be obtained. Prices for good  
stock were: For Beauty, \$3 to 6 per dozen,

flowers are very plentiful; the wholesale  
houses are filled up, and although fair  
prices have been obtained for good stock,  
most of the flowers have been sold for  
what would be obtained. Prices for good  
stock were: For Beauty, \$3 to 6 per dozen,

flowers are very plentiful; the wholesale  
houses are filled up, and although fair  
prices have been obtained for good stock,  
most of the flowers have been sold for  
what would be obtained. Prices for good  
stock were: For Beauty, \$3 to 6 per dozen,

flowers are very plentiful; the wholesale  
houses are filled up, and although fair  
prices have been obtained for good stock,  
most of the flowers have been sold for  
what would be obtained. Prices for good  
stock were: For Beauty, \$3 to 6 per dozen,

flowers are very plentiful; the wholesale  
houses are filled up, and although fair  
prices have been obtained for good stock,  
most of the flowers have been sold for  
what would be obtained. Prices for good  
stock were: For Beauty, \$3 to 6 per dozen,



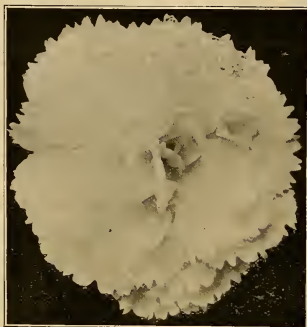
# HARRISON'S WHITE!

## NEW CARNATION Sport from WM. SCOTT •••

Strong, Vigorous Grower...

...Requiring no Support.

COME AND SEE IT!



DESCRIBED AND ILLUSTRATED  
In FLORISTS' EXCHANGE,  
...Nov. 21, 1896, Page 1044...

Read what Prominent Carnationists say about it:

JOHN HARRISON'S PLACE, Bergen Ave., near Bidwell Ave.,  
JERSEY CITY, N. J., January 5, 1897.

We, the undersigned, are satisfied that the carnation John Harrison is now growing under the name of HARRISON'S WHITE is what he claims it to be, namely, a sport of Wm. Scott, and is a really good thing. This conclusion we have arrived at after a careful examination of the stock he has now growing on his place at above address.

(Signed)

JOHN N. MAY, ERNST ASMUS, HENRY DAILLEDOUZE.

QUEENS, N. Y., January 7, 1897.

Editor Florists' Exchange:

Regarding the white sport from Wm. Scott, which is offered by Mr. John Harrison, of Jersey City, and which I recently stated to you that I was of the opinion that the variety was identical with Puritan, I desire to say:

Yesterday, in company with Mr. L. E. Wood, the originator of Puritan, I visited Mr. Harrison's place, taking samples of Puritan and comparing the growths of the two varieties. After careful examina-

tion, Mr. Wood pronounced Mr. Harrison's variety as distinct from Puritan, and I am now convinced that my first impressions were wrong.

There is a certain difference in the growth of Mr. Harrison's sport from the growth of Scott as usually seen, which resembles much the growth of Puritan as I have seen it at times, which difference can be accounted for by their being grown dry (as the plants were too deeply planted), and this resemblance, coupled with the knowledge that I had once mistaken a plant of Puritan, which was growing by accident in a bench of Scott, as a sport from Scott; also the fact that a portion of Mr. Harrison's original stock of Scott was propagated by us from the same bench in which the Puritan plant was growing, caused me to think that Mr. Harrison had fallen into the same error that I had made.

I am very much pleased to find that I have been mistaken, as a clear white sport of Scott, such as Harrison's White is, certainly will prove one of the most valuable commercial carnations that could be originated, and I hope you will allow me to say in this column that if any florist has \$10 to spare, I believe he can do no better with it than to invest in a hundred of Mr. Harrison's White Scott.

C. W. WARD.

PRICES: \$1.50 per doz.; \$10.00 per 100; \$40.00 per 500;  
\$70.00 per 1000. Cash or satisfactory reference required.

**READY MIDDLE OF JANUARY.**

Mention paper.

All orders filled in rotation. Quantities less than one hundred at dozen rates.

**JOHN HARRISON, 739 Bergen Ave. Near Bidwell Avenue, GREENVILLE, JERSEY CITY, N. J.**

Jan. 16, 1897.

**CARNATIONS**

**An Experience with Alaska.**

In my remarks last week I made mention of an experience we are having with Alaska, and which it seems to be in direct opposition to what I then said. I refer to the time of starting the cuttings.

At first, looking below one of the new introductions, we began taking cuttings very early. I think the latter part of the season. The first batch, as was as rooted, was planted on a bench, several feet from the house, and was destroyed by me in a former article; here they remained until April, when they were transferred to a cold frame, and were not started until long this time there had been several crops of cuttings taken from them, and it could hardly be said that they looked very promising when placed beside the younger and thrifter plants, which had been started the latter part of February and throughout the month of March.

They were planted in the field in May, on a rather low piece of ground, which was not very well drained; in fact, to waste the end of summer the soil had become so completely waterlogged that the mossy growth, which is a never-failing sign of moisture and poor drainage. In addition they were completely covered with water several feet deep in the latter part of July. Up until this time the season had been almost constantly wet; after this, the weather was all that could be desired.

The younger plants were planted on a higher and better drained piece of ground, where the soil was the same. They made more growth and altogether looked thrifter than the old ones. Naturally we chose the younger plants when housing time came. Having selected the best of these, and requiring between two and three hundred more to plant a cutting bench, we took enough of the older plants to fill out, selecting the best ones. The younger ones started out without any apparent check, while the older ones which had made a rather slow growth, did not start so well. The difference for some time was in favor of the younger plants, so far as growth was concerned, but gradually a change began to take place, and I could easily see that the old plants were forcing ahead, and at the present writing the difference in their favor is so marked that the most casual observer would notice it at a glance. The younger plants still show some signs of bacteria and some cases of stem rot, while the older ones are free from both.

I was at first puzzled as to how this could be, as it seemed to be directly contrary to all our former experiences, and my conclusion is that the young plants, having a more rapid and succulent growth, took up more water than they could care during the wet part of the season, and thus the older ones, which started slower and consequently took up less moisture, I am convinced of this, not only from the fact that the growth of the younger plants, but also the distinct difference in the color of the foliage that of the young plants being a shade of green, while the older ones showed a bright lively bluish shade. This indicated a rich coating of the natural bloom of the foliage, without which the carnation can be healthy. It is the herald of health, and the plant's best safeguard against disease.

Next to Alaska, Uncle John shows the greatest difference. As with the former, the difference is decidedly in favor of the old plants. The same difference is noticeable in nearly all of the other varieties. I am satisfied, however, that had we had an ordinary season, or one inclined to be rather dry, the young plants would have come out best.

The lesson that I draw from this is that it is not so true, as it is generally supposed, but to plant out some of each, and thus be on the safe side.

From one week to the next, it might be inferred by some that I advised not to pinch back in the field. If what I said conveyed this impression, it was unfortunate, as there are many rapid growing varieties which must be pinched back. I referred particularly to the slow-growing and late blooming sorts, which we rarely pinch back more than once.

**MINNIE COOK!**

Largest stock in the country of the finest of variegated carnations. Strong, healthy, rooted cuttings, ready made in January. Have also other varieties, including Storm King, Della Fox, Bridehead, Scott etc.

W. R. SHELMIER, 415 C. ST. S.

Meadow View Greenhouses, FARMINGTON, N. J.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CARNATIONS**

**Violets and Alyssum.**

Taken from healthy stock; well rooted.

Send for Trade List.

E. J. CLOUD, Lock Box 32, Avondale, Pa.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**The New Scarlet Carnation**

**MORELLO**

will be disseminated March 1, 1897. Get your orders in now. \$1.00 per 12; \$7.00 per 100, \$1.00 per doz.

HOPP & LEMKE, East Grand Rapids, Mich.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CARNATIONS**

**ROOVED CUTTINGS**

of the leading varieties, clean, healthy stock. Positive roots. See our price list.

WM. SWAYNE, Kennett Square, Pa.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**ELDORADO**

The finest Yellow Carnation in cultivation. Rooted cuttings, \$2.00 per 100; \$15.00 per 1000.

LADY CAMPBELL VIOLETS—Rooted runners, 50 cts. per pair; \$5.00 per dozen.

GIANT DOUBLE ALYSSUM—\$1.00 per 100; \$8.00 per 1000.

Send for Circular.

W. R. SHELMIER, Avondale, Pa.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**DORNER'S**

**NEW PINK**

... FOR 1897....

**MRS. CHAS. H. DUHEE** (Seedling)

Lively delicate pink, large flower. Color bright, clear, strong, true. Plant vigorous, erect grower, a very early, free and constant bloomer, much more so than any of our former varieties, rivaling in profusiveness with Scott. This promises to be the best of the light pink commercial varieties. Certified at Indianapolis and Philadelphia. We have grown this variety now for five years, and it is indispensable at our place.

**MRS. GEO. M. BRADT** (Seedling)

Clear white, heavily edged and bright, and bright scarlet, giving it a very striking and cheerful appearance. Flowers large and full, with center petals standing erect, giving the bloom a well rounded form. Color resembling Mme. Albertini. Habit strong and vigorous. This variety is now in its fourth year and has proven the most even and constant bloomer from early to late. We received for these flowers the highest prices paid in the market. Received gold medal at Atlanta, certificate at same place and at Chicago.

**C. A. DANA** Delicate shell pink, vigorous

dane flowers on strong, stiff, wiry stems, color soft and exceptionally pleasing. Flowers of medium size. One of the most attractive colors in pink carnations. Stock limited.

Rooted cuttings ready March 1, 1897, \$10.00 per 100; \$75.00 per 1000.

Plants from soil at same price four weeks later.

**F. DORNER & SONS CO.**

LA FAYETTE, IND.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**GEO. HANCOCK & SON,**

**CARNATIONS.**

GRAND HAVEN, MICHIGAN

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Rooted Cuttings...**

**CARNATIONS...** CLEAN AND HEALTHY.

McGowan, Scott, Puritan, Meteor, Brecken, Daybreak, \$1.00 per 100; \$8.00 per 1000. Jubilee, \$3.00 per 100; \$25.00 per 1000.

PRES. CARROLL ROSE, Good strong grafted plants from soil, \$1.00 per 100.

W. H. COLES Let us know what you want.

Maple Hill Rose Farm, McKEESPORT, IND.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Rooted Cuttings, Carnations,

**Daybreak, Wm. Scott, Lizzie McGowan,**

TIDAL WAVE, PORTIA, ANNA WEBB, STORM KING, METEOR, ELDORADO, MRS. FISHER.

We grow the above named varieties because we think them to be the best commercial varieties yet introduced. Having fine houses devoted to Carnations we can fill any order for cuttings.

WRITE FOR PRICES.

EDW. J. TAYLOR, Southport, Conn.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**SEEDLING CARNATIONS for 1897.**

**CAPT. KING.** Variegated Wisconsin Pick, an early and continuous bloomer, very fragrant and a good shipper, stems extra long and stiff, an exceedingly attractive and profitable variety.

**JOSEPH JEFFERSON.** Deep Pick, very large and showy flowers, on long, stiff stems, color resembling Tine, Carleton, much larger flower.

Send for Wholesale List of New and Standard Carnations. Best Strong and Healthy. **NO MUST.**

**C. J. PENNOCK, The Pines, KENNETT SQUARE, PA.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**New Yellow Carnation**

**MAYOR PINGREE.**

Without doubt the Best Yellow Carnation in commerce to-day. Orders booked and filled in rotation. Delivery March 1st, 1897.

\$1.50 per dozen; \$10.00 per hundred; \$75.00 per thousand.

**STRONG STOCK PLANTS OF IVIOIRE ROSE GRAYSANTHEMUM, \$3.00 PER DOZEN.**

**JOHN BREITMEYER & SONS,** Miami and Gratiot Aves., DETROIT, MICH.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Herr's Carnations**

Guaranteed to reach you safely and be satisfactory. Express paid on all orders for one thousand or more.

Unlimited quantities and reasonable prices.

McGowan, Alaska, Storm King, Daybreak, Scott, Wave, Portia, Dorner, Buttercup, Helen Keller, and Lago.

Triumph, Abundance, Della Fox, Jubilee, Armistead, Ivory, Anse Louside, Crimson Sport, and Eldorado.

Other varieties from other growers; send for prices; some as low as \$7.50 per 1000.

**GERANIUMS**—Up-to-date bedding and pot varieties, strong rooted cuttings, at \$1.50 per 100. \$12.50 per 1000. Scarlets in lots of \$20.00.

**DOUBLE PINK VETERAN**—Dwarf, bushy grower, immense fringed blooms, white, striped rose. Five plants at 50 cts. per doz; \$3.50 per 100.

**COLEUS**—All the latest sorts at 50 cts. per 100; or \$4.00 per 1000.

**Holsteiner Dwarf Ageratum, Gunther Hybrid Tropaeolum** (two colors), Robust Mammoth Verbena, best colors, \$1.00 per 100.

**PANSIES**—Herr's strain, once better, 75 cts. per 100 or \$5.00 per 1000.

**ALBERT M. HERR, L. B. Box 496, Lancaster, Pa.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**NEW PINK**

**CARNATION**

THIS is a sport from Daybreak and has been grown by us for the past three years. In color it is a clear brilliant pink. The color improves under artificial light. It has been thoroughly tested in every respect. It is a strong grower and as free a bloomer as any. Wherever sent the flowers have been pronounced good centers, of beautiful color, with strong stems. There is no better pink Carnation in the market to-day.

Awarded Certificate of Merit by Pennsylvania Horticultural Society.

Rooted Cuttings from soil, \$10.00 per 100; \$80.00 per 1000.

Ready March 15th, 1897, \$10.00 per 100; \$80.00 per 1000.

**HUGH GRAHAM,** 104 S. 13th St., Philadelphia.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CARNATIONS—DELLA FOX AND... ANNIE H. LONSDALE.**

Are being advertised a few miles south of us by parties who never purchased any of the original stock, but would therefore advise all parties to get their stock from reliable parties or from the originator.

**MYERS & SAMTMAN,** WYOMING CHESTNUT HILL, PHIL. A.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## SITUATIONS WANTED.

Rate, 10 cents per line (3 words), each insertion with order. This rate applies only to situation wanted advertisements and when sent by registered mail. Where placed by mail, no care and agents to cover expense of forwarding.

Wanted in rose growing, situation on commercial place of reference, W. B. Rip Van Winkle Ave., Paterson, N. J.

FLOREST, 17 years' experience in retail business as florist and grower, 200 West 12th St., New York. Florist, care of Hoffman, at W. 28th St., New York, thoroughly reliable.

SITUATION wanted as stemographer, by a young woman with a practical knowledge of the florist business and a thorough acquaintance with the stemographer, care Florists' Exchange.

SITUATION wanted as florist or gardener; by a man with an excellent practical knowledge of all college training, best references. Address in care of Florists' Exchange.

SITUATION wanted by experienced greenhouse assistant in Hoos. Carnations, etc. English Ave., care of Florists' Exchange, wags 22 and board, H. C. Carver's Exchange.

FLOREST understanding the commercial business in all its branches wishes situation as foreman on furnish best of references. Please state full particulars and wages. A. A., care of Florists' Exchange.

SITUATION wanted as foreman in large commercial place, by first-class grower of roses, carnations, geraniums and general stock. 22 years' experience; age 32, married, has been foreman in large place for many years. Address Florists' Exchange, 200 Park St., Philadelphia, Pa.

SITUATION wanted as foreman in small commercial place, by Sweden, 25, with 10 years' experience in all lines, propagating and general stock. A. references. Dahlberg, 95 Washington St., New York.

SITUATIONS wanted by intelligent and industrious S. grower of cut roses and plants. Trustworthy and commercial. Good propagator and super-competent boss will find me a good and useful man. 25 references. Dahlberg, 95 W. Madison, N. Y.

GARDENER and florist, 11 years' experience in all lines, best of references, 200 Park St., Philadelphia, and the United States, desires situation in commercial place. United States Nursery, North Ave., N. Y. City, care A. L. Beck.

SITUATION wanted by a single young man, age 25, with 10 years' experience in all lines, as florist, gardener or foreman; first-class references from Europe and America. United States Nursery, North Ave., N. Y. City, care A. L. Beck.

## TRAVELING SALESMAN

Is open for an engagement with first-class house, moderate salary. B. W. B., care Florists' Exchange.

## SITUATION WANTED

As foreman, by first-class grower of cut flowers; thoroughly posted in all branches; Eastern States preferred; life experience, Europe and America; best of references. W. L., care Florists' Exchange.

## SITUATION WANTED.

By an honest, sober, industrious man, long experience, commercial or private place, capable taking full charge, acting as foreman or grower in state or foreign. G. L., care Florists' Exchange.

## STOCK WANTED.

Roses Wanted. G. R. O'SHEA and J. W. HICKS, Wholesale and Retail Florists, 40 Bootham Place, BROOKLYN, N. Y.

## WANTED

1000 Var. VINCA, strong plants, cheap, for sale, at post. Address: J. W. HICKS, care ALEXANDER MEAD, Greenwich, Conn.

## WANTED TO RENT

For two years' greenhouses in some large town where all that is raised is sold at home. Everything in first-class growing condition; would take place about May 1, 1897. As I mean business I would be pleased to receive particulars and prices. Address: GOODMAN, care Florists' Exchange.

## PEA GROWERS!

Will some of our Canadian friends favor us with names and addresses of reliable growers of pea cut flowers in the West? We are on behalf of a foreign firm intending to place their first-class cut flowers in the States.

"Business Manager," Florists' Exchange. WHEN WRITING MENTION THE FLOWERS' EXCHANGE

## Charleston, S. C.

W. MCINTOSH & SON report an increasing business in their truck or vegetable seed department, which is under the charge of Mr. McIntosh, Jr. This is a big item in this section, and was formerly supplied entirely from the North. They have increased their warehouse space and by carrying a glass roof have formed a combination containing greenhouses or roof garden, where a large stock of plants is carried, the demand for which at Charleston is greater than at any other port hitherto. W. M.

## Savannah, Ga.

GEORGE WAGONER graphically describes the storm of September 23, and which was noted in the EXCHANGE soon after the disastrous occurrence. The damage he sustained was considerable, much of the stock being spoiled entirely in addition to broken roofs. As a part compensation business has been very good since that time.

A. C. CHELSEA was more fortunate, still his loss was considerable. He has added a capital propagating house, and intends growing extensively in a variety of stock as he has been doing. La France is one of many roses that do well here, and is always in demand. W. M.

## Belleville, Ill.

Trade for the holidays was about the same as last year, but there was an increase for blooming plants, and a slow sale of bulbs stock.

A. W. FEH is on the sick list. Wm. L. Egan, Sec. of the Floral Co., and E. W. GUY are cutting plenty of carnations; West End Floral Co. will be in with a heavy cut of roses about the last of the month.

Nearly all of the florists here will attend the St. Louis Convention of the Florists' Club on the 14th inst. E. W. G.

## HELP WANTED.

On commercial place in neighborhood of New York, an experienced rose grower. Address, with full particulars, E., care of Florists' Exchange.

## WANTED

A Florist and Gardener, German preferred, who thoroughly understands the growing of general stock, roses, carnations, palms, ferns, and all other plants, and who will be a reference from commercial places as to character and ability need apply; must have experience in making up state vases, etc. single. Wm. A. BOCK, North Cambridge, Mass.

## WANTED

For SALE In immediate neighborhood of New York, 2 greenhouses (10000 sq. ft., 3 smaller), all well stocked; dwelling 7 rooms, stable, all in best repair; grounds over one acre. Price, \$2000, half cash. Inquire G. Riedel, 915 Hanover St., New York.

## FOR SALE.

Country place, about three acres, 5 miles from New York, very desirable for gardener and dower grower, or for a man's residence, on direct line railroad, adjoining station; home large, arranged for two families, water flowing, new greenhouse, shed for violets, carnations or vegetables, with hot water, poultry-house, and range fence; large and productive garden, spring water under pressure; market in neighborhood. Price, \$2500 square feet. Henry S. Conklin, 20 Court St., Brooklyn N. Y.

## FOR SALE.

A new greenhouse property of nearly 6000 feet of glass, built in the center of a beautiful village in the favored Hudson River Valley. It is a fine structure, with a large hot water heating, brick, and a acre of land; two blocks from the Telephone, telegraph, and two express offices. Good shipping point for New York or Boston for all water freight.

JOHN HENDERSON CO., Flushing, N. Y.

## FOR SALE.

A new greenhouse property of nearly 6000 feet of glass, built in the center of a beautiful village in the favored Hudson River Valley. It is a fine structure, with a large hot water heating, brick, and a acre of land; two blocks from the Telephone, telegraph, and two express offices. Good shipping point for New York or Boston for all water freight.

JOHN HENDERSON CO., Flushing, N. Y.

## FLOWERS' FLORAL DESIGNS

VOLUME I.

...Containing Twelve Illustrations...

PRICE, \$1.50.

This is Meeting with Approval Everywhere.

AGENTS WANTED.

For Full Particulars Apply to  
WM. I. BROWER, 955 BROADWAY, NEW YORK.  
WHEN WRITING MENTION THE FLOWERS' EXCHANGE

## Richmond, Ind.

ED. BRISSELL, who for time past has been with E. G. Hill & Co., has resigned his position and accepted a similar one in Nashville, Tenn.

## Pleasant Hill, Mo.

ALFRED BROWMAN, who has been foreman for nearly four years at the Applewood greenhouse here, has resigned his position on account of falling health.

## Elwood, Ind.

G. E. SCHWARTZ, who suffered a loss by fire during December, has his house repaired. The plants and other things injured by smokes are coming up nicely.

## CHANGES IN BUSINESS.

WEST DERRY, N. H.—N. G. Pillsbury has opened a new place.

MERIDEN, CONN.—John Gallivan is to close his greenhouse on Kensington ave., on February 1. He will continue the greenhouse on Union st. and the store on West Main st.

ST. LOUIS, MO.—J. W. Gillett, who has been in charge of the business here, has resigned his position.

HARTFORD, CONN.—J. W. Gillett, who has been in charge of the business here, has resigned his position.

NEW BEDFORD, MASS.—J. W. Gillett, who has been in charge of the business here, has resigned his position.

NEW BEDFORD, MASS.—J. W. Gillett, who has been in charge of the business here, has resigned his position.

NEW BEDFORD, MASS.—J. W. Gillett, who has been in charge of the business here, has resigned his position.

NEW BEDFORD, MASS.—J. W. Gillett, who has been in charge of the business here, has resigned his position.

NEW BEDFORD, MASS.—J. W. Gillett, who has been in charge of the business here, has resigned his position.

NEW BEDFORD, MASS.—J. W. Gillett, who has been in charge of the business here, has resigned his position.

NEW BEDFORD, MASS.—J. W. Gillett, who has been in charge of the business here, has resigned his position.

NEW BEDFORD, MASS.—J. W. Gillett, who has been in charge of the business here, has resigned his position.

NEW BEDFORD, MASS.—J. W. Gillett, who has been in charge of the business here, has resigned his position.

NEW BEDFORD, MASS.—J. W. Gillett, who has been in charge of the business here, has resigned his position.

NEW BEDFORD, MASS.—J. W. Gillett, who has been in charge of the business here, has resigned his position.

NEW BEDFORD, MASS.—J. W. Gillett, who has been in charge of the business here, has resigned his position.

NEW BEDFORD, MASS.—J. W. Gillett, who has been in charge of the business here, has resigned his position.

NEW BEDFORD, MASS.—J. W. Gillett, who has been in charge of the business here, has resigned his position.

NEW BEDFORD, MASS.—J. W. Gillett, who has been in charge of the business here, has resigned his position.

NEW BEDFORD, MASS.—J. W. Gillett, who has been in charge of the business here, has resigned his position.

NEW BEDFORD, MASS.—J. W. Gillett, who has been in charge of the business here, has resigned his position.

NEW BEDFORD, MASS.—J. W. Gillett, who has been in charge of the business here, has resigned his position.

NEW BEDFORD, MASS.—J. W. Gillett, who has been in charge of the business here, has resigned his position.

NEW BEDFORD, MASS.—J. W. Gillett, who has been in charge of the business here, has resigned his position.

NEW BEDFORD, MASS.—J. W. Gillett, who has been in charge of the business here, has resigned his position.

NEW BEDFORD, MASS.—J. W. Gillett, who has been in charge of the business here, has resigned his position.

## PANSIES WORTH RAISING.

Seed, 20c per package and 50c. Extra good seeds, \$4.00 per 100. F. O. B. West. DWARF WHITE STOCKS and CHRYSANTHEMUMS as advertised before.

Cash with Order.  
C. S. SOLTAN & CO.,  
199 Grant Ave., Jersey City, N. J.

## Galax Leaves.

CHAS. H. RICKSECKER, Linville, N. C.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE

## HARDY CUT FERNS

First Quality.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE

WHEN WRITING MENTION THE FLOWERS' EXCHANGE

WHEN WRITING MENTION THE FLOWERS' EXCHANGE

WHEN WRITING MENTION THE FLOWERS' EXCHANGE

WHEN WRITING MENTION THE FLOWERS' EXCHANGE

WHEN WRITING MENTION THE FLOWERS' EXCHANGE

WHEN WRITING MENTION THE FLOWERS' EXCHANGE

WHEN WRITING MENTION THE FLOWERS' EXCHANGE

WHEN WRITING MENTION THE FLOWERS' EXCHANGE

WHEN WRITING MENTION THE FLOWERS' EXCHANGE

WHEN WRITING MENTION THE FLOWERS' EXCHANGE

WHEN WRITING MENTION THE FLOWERS' EXCHANGE

WHEN WRITING MENTION THE FLOWERS' EXCHANGE

WHEN WRITING MENTION THE FLOWERS' EXCHANGE

WHEN WRITING MENTION THE FLOWERS' EXCHANGE

WHEN WRITING MENTION THE FLOWERS' EXCHANGE

WHEN WRITING MENTION THE FLOWERS' EXCHANGE

WHEN WRITING MENTION THE FLOWERS' EXCHANGE

WHEN WRITING MENTION THE FLOWERS' EXCHANGE

WHEN WRITING MENTION THE FLOWERS' EXCHANGE

WHEN WRITING MENTION THE FLOWERS' EXCHANGE

WHEN WRITING MENTION THE FLOWERS' EXCHANGE

WHEN WRITING MENTION THE FLOWERS' EXCHANGE

WHEN WRITING MENTION THE FLOWERS' EXCHANGE

WHEN WRITING MENTION THE FLOWERS' EXCHANGE

WHEN WRITING MENTION THE FLOWERS' EXCHANGE

WHEN WRITING MENTION THE FLOWERS' EXCHANGE



JOHN CONLEY & SON,

MANUFACTURERS OF

TIN FOIL,

2 and 4 Dominick Street, NEW YORK.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

STANDARD • POTS.

We are now ready to supply a superior quality of Pots in unlimited quantities Catalogues and price lists furnished on application.

A. H. HEWES & CO.,

NORTH CAMBRIDGE, - MASS

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Standard Pots

Made by...

Good Rational Facilities KELLER BROS. For Shipping...

Special Attention Given to Mail Orders... Narrisstown, - Pa.

Price Lists Furnished on Application.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

STANDARD PAPERED POTS.

Our Specialty is ready packed crates of Florida Standard Pots... Large sizes of which we keep in hand ready for shipment on day order is received.

10 per cent off for cash with order... 100 per cent off for cash with order...

AUGUST RÖLKER & SONS,

136 & 138 W 24th St., NEW YORK CITY.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Neponset Flower Pots

of Waterproof Paper, are sold as follows: Three-Not each with order. Forwarded shipped by freight, add 50 cents cartage.

Table with 3 columns: Size, Gross Weight, Per 100. Rows include sizes 2 1/2, 3, 3 1/2, 4, 4 1/2, 5, 6, 8, 10.

Less quantities than full crates of 100 rates.

F. W. BIRD & SONS, Manufacturers.

Address orders to our General Agents,

August Rötker & Sons

New York. P. O. Station E.

25 E. 7th Street, New York, N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

TO TAKE PLACE OF WIND MILLS

The DeLamater-Riden and the DeLamater-Ericsson Hot-Air Pumping Engines

Will pump water from any source, and force it to any height and distance. Simple, safe and free from care. The only attention required is to start a fire and keep it burning. Any kind of fuel can be used.

They are supplanting wind mills everywhere, as well as steam and hand pumps, rails and all other means of supplying water. Are favored because possess advantages over all of them.

Send for catalogue to THE DE LAMATER IRON WORKS, 467 West Broadway, New York City.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Grand Rapids, Mich.

The second annual meeting of the Florists' Club was held, January 2, and officers were re-elected with the exception of the treasurer, James Scholz. The officers now are: President, Henry Smith; vice-president, William Cunningham; secretary, N. B. Stover; treasurer, Henry Van Velsa; press reporter, Wences Calkerski. George F. Crab, chairman of the committee, announced that the annual banquet will be held at the Grand Hotel on the evening of January 26, with the Hon. Charles W. Garfield as toastmaster. Short speeches will be expected from each member, and music and recitations will be given by the florists.

With a few important changes, the schedule of the last show was recommended. A few varieties were suggested to bush chrysantheums, and more miscellaneous flowers will be exhibited. The roses will be shown by name rather than by color alone.

The treasurer's report showed \$44 87 collected during the year with \$29 47 remaining in the treasury. Mr. Crab announced that at the next meeting of the Club, January 19, a change will be recommended by the by-laws, suggesting that before the report of the next chrysanthemum show shall be presented, it shall meet the approval of the exhibitors. Mr. Crab brought some fine specimens of seedling carnations, and Mr. Stover a handsome collection of carnations.

St. Joseph, Mo.

The florists all seem to be well pleased with Christmas trade. Prices ranged about the same as last year's, and the supply was about equal to the demand. One or two were short on roses and violets. Romance among hardies was plentiful. Beauty scarce. Sales on Christmas green and trees fell below last year; the town was flooded with the latter, and the trees were unneeded. Holly, as usual, sold well.

Trade during the week kept up very well, but on New Year's the demand was rather light. Plant sales were not so good as last year.

Toledo, O.

E. FIDDER reports that Christmas and New Year's trade was splendid. Ewald Suder has added another greenhouse, 20x100 feet.

STOTT'S FIR TREE OIL SOAP

For killing insects on plants. Has the endorsement of any insecticide. It is not costly, requiring but one ounce to a gallon of water. It can be had of leading seedsmen in New York, Boston, Philadelphia, Chicago, Cleveland, Ohio, and San Francisco, or of the manufacturer.

Newark, New Jersey, J. C. PIerson

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

It costs 4 cents for each 500 feet of floor space.

Does not injure the most sensitive plants. Endorsed

Winkoteen

by prominent florists. Used for fumigation or spraying indoors or out. 500 pounds of tobacco in one pint of Winkoteen. Sold by seedsmen. Circular free. SEABOARD DISP CO., CHICAGO.

Quickly Does It.

STANDARD FLOWER POTS

In any quantity, and of the best quality.

Get my price list before ordering elsewhere.

W. H. ERNEST,

Station M, N. E., WASHINGTON, D. C.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE



EVERY FLORIST OUGHT TO INSURE HIS GLASS AGAINST

THEFT. For particulars address JOHN G. ENLER, Sec'y, Riddle River, N. J.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Butted Glass

This is no longer an experiment, it has come to stay. There are various ways of making Butted Roofs, but the best way is with the

Clipper Bar.

With this bar you can make a roof that is absolutely free from drip, and glass cannot be torn out by the wind. Baked glass makes a tight roof, a warm house and saves fuel. It lasts longer, looks better and costs less than the old-fashioned roof. But do not think that this is the only bar we sell, for it is not; we furnish what people want and there is nothing in greenhouse material that you cannot get from us, and all of special-dried Cypress clear of lumber sap, stained saw, knots and all other defects.

LOCKLAND LUMBER CO. LOCKLAND, O.

Mention paper. Write for Circulars or Estimates.

Satisfied With Results.

We are satisfied with the results of our ad. in your valued paper. The returns in our somewhat peculiar position in endeavoring to introduce a comparatively new article were more than could be expected. A. DIETRICH & CO. Chicago, May 29, '96.

Standard Flower Pots.

Send for New Price List with extra discounts. All our pots, from 7 in. and upwards, have our Patent Elevator Bottom, which is a great advance, as it insures perfect drainage.

THE WHILLDIN POTTERY CO., 713 to 719 WASHINGTON STREET, PHILADELPHIA.

BRANCH HOUSES: Jackson Ave., Jersey City, N. J. Jackson Ave., Newark, N. J. Pearl St., Long Island City, N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

FLOWER POTS

We are manufacturing a Full Line of STANDARD FLOWER POTS and HANGING BASKETS OF THE BEST QUALITY.

Shipping Facilities First-Class, thereby Securing Lowest Freight Rates. Our goods are well packed, and breakage is nominal. Give us a trial. Send for Price List. Address THE SYRACUSE POTTERY CO., 403 N. SALINA ST., SYRACUSE, N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

THE JOHN J. PETERS COMPANY

PULVERIZED COMPRESSED SWEET FERTILIZER (INCORPORATED)

A Quick Germinator and Crop Forcer. Beats Every Chemical Fertilizer on Earth.

Pure Sheep Fertilizer recently improves the soil.

Matures the largest and best crops. Quick and lasting in its action.

NATURAL. ODORLESS. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

THE BOSTON FLORIST LETTER CO

Manufacturer Dimensions of this box: 23 inches long by 12 inches wide and 12 inches high. Two sections.

FLORISTS' LETTERS.

This wooden box nicely stained and varnished, 15x30x12 made in two sections, one for each size letter, given away with first order of 500 letters.

Block Letters, 14 or 2 inch size, per 100, \$1.00. Script Letters, \$4.00. Patent Fastener with each letter or word.

They are sold by the leading florists everywhere, or for sale by all wholesale florists and supply dealers.

N. F. MCCARTHY, Treasurer and Manager, Factory, 13 Green Street, BOSTON, MASS.

Office, 84 Hawley Street

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**LORD & BURNHAM CO.,**  
**HORTICULTURAL ARCHITECTS AND BUILDERS,**  
 STEAM AND HOT WATER HEATING ENGINEERS.  
 Plans and Estimates furnished on application.



Largest Builders of Greenhouse Structures. Six Highest Awards at the World's Fair.  
 Send four cents postage for Illustrated Catalogue.  
**LORD & BURNHAM CO.,**  
 ARCHITECTURAL OFFICE, 160 FIFTH AVE., COR. 21st STREET, NEW YORK.  
 Factory: Irvington-on-Hudson, New York. Mention paper

**GLASS!** For Greenhouses, Conservatories, Graperies, Hotbeds and all other purposes, at Lowest Rates.  
**N. COWEN'S SON 392 & 394 West Broadway, New York.**  
 Formerly 154 and 156 No. Fifth Avenue. Estimates Freely Given.  
 Get our Figures before buying Glass.

**Hung Fire.**  
 Have had very satisfactory results from my advertisement considering hard times. Thought at first I would not get any returns but the advertisement only "hung fire" a while and then went off with a good report, as it seems always sure to do.  
 C. M. GROSSMAN.  
 Wolcottville, Ind., Oct. 3, 1896.

**IF YOU WANT A GOOD SASH LIFT**  
 For a Very Little Money Get



THE "NEW DEPARTURE" VENTILATING APPLIANCE.  
 For Descriptive Catalogue Send to  
**J. D. CARMODY, Evansville, Ind.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**VALVES, FITTINGS AND VENTILATING APPARATUS.**  
**COLDWELL-WILCOX CO.,**  
 Newburgh, N. Y.  
 Mention paper.

**Modern Greenhouse Heating.**

One of our boilers, 10,880 feet of two inch pipe, and sixty tons of coal will heat 23,400 feet of glass (four 20x200 feet double gable houses) to 65 degrees in coldest Winter weather; they have done it, and will do it for you—we guarantee it. Our boilers are not only the best of their kind, but the best made. They have the largest "firebrigt" direct surface, are the easiest cleaned, handled and set up; and from engineering facts, they are the ideal frictionless, economical water heating boilers of our day.

Plenty's Horticultural Works,  
 148-156 Randolph Ave.,  
**Jersey City, N. J.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**MASTICA**

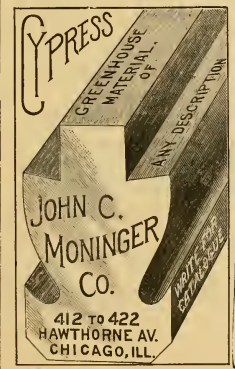
For Glazing Greenhouses. A substitute for putty. Superior in every way. MASTICA and MASTICA GLAZING MACHINES were given Highest Award of S. A. F. at Pittsburg. Address for circular,  
**F. D. PIERGE CO., 170 Fulton St., N. Y.**  
 Sole Manufacturers.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Evans' Improved Challenge.**  
 Roller bearing, self-oiling device, automatic stop, self lock, chain, makes the IMPROVED CHALLENGE the most perfect apparatus in the market.  
 Write for catalogue and prices before placing your orders elsewhere.  
**Quaker City Machine Co.,**  
 RICHMOND, IND.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**SUMMER IN WINTER**

By Using  
**Standard Greenhouse Boilers**  
 One cent gets our Catalogue.  
**GIBLIN & CO., - Utica, N. Y.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE



WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**GREENHOUSE HEATING AND VENTILATING,**  
 Horticultural Architecture and Building.

**Hitchings & Co**  
 ESTABLISHED 1844.  
 233 Mercer Street, NEW YORK  
**FIVE PATTERNS OF BOILERS.**  
 NINETEEN SIZES.  
 Perfect Sash Raising Apparatus.  
 Rosehouses, Greenhouses, Etc., of Iron Frame Construction erected complete or the Structural Iron Work shipped ready for erection.  
 Iron Frame Beches with the "Perfect Drainage Bench Tile" of Slate Tops.  
 Mention paper.  
**SEND 4c. POSTAGE FOR ILLUSTRATED CATALOGUE.**

**JOHN H. JACKSON, Successor to JACKSON BROS.**  
 NEW YORK STATE IRON TILE and PIPE WORKS, 74th Street, 11 THIRD AVE., ALBANY, N. Y.  
 Manufacturer of and Dealer in Agricultural Drain Tile, Salt Glazed Screen Pipe, Hot Pressed Iron, Malleable Cast Iron, Fire Brick, Green Tile, Chimney and Fire Lining, Chimney Tops, Fire Clay, Stone Pipe, Fire Clay, Kowals, Enamelled, Stove Tile, Round and Flat Portland Cement, Lame, Plaster, etc.  
**ROUND TILE**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**GLASS** FOR GREENHOUSES, CONSERVATORIES, GRAPERIES, HOTBEDS AND FLORISTS' USE GENERALLY, AT LOWEST RATES.  
**L. HARRIS & SON,**  
 497 W. BROADWAY, NEW YORK, 89 LIBERTY ST., NEW YORK  
 Gt. Masons and Bleeker Sts. Del. Broadway and Church Sts.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CALIFORNIA RED CEDAR**  
 Never Decays.  
**A. DIETSCH & CO. 619 Sheffield Avenue, CHICAGO.**  
 MANUFACTURERS OF  
 RED CEDAR AND CYPRESS GREENHOUSE MATERIAL.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

SEND FOR OUR NEW CATALOGUE, WHICH SHOWS  
**The New Automatic Glass Ventilator**  
 As it is put up in the house complete. We also give two prices with a guarantee that each machine will outlast your house successfully. Still machines now made to two sizes.  
**A. Q. WOLF & BRO., Dayton, Ohio.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**STANDARD VENTILATING MACHINE.**  
 NONE EQUAL IT IN Strength AND Durability  
 Send for Catalogue.  
 NOTHING Flimsy OR Complicated about it.  
**E. HIPPARD, YOUNGSTOWN, OHIO.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**ATTENTION, FLORISTS!**  
 It will be to your advantage to look into the merits of the Scollay "Invincible" Hot Water Boiler.  
 It is all that its name implies, and don't forget it.  
 Cuts and full information mailed on application.  
**JOHN A. SCOLLAY,**  
 89 & 91 CENTRE ST., NEW YORK,  
 74 & 76 MYRTLE AVE., BROOKLYN, N. Y.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Cut - Flower - Commission - Dealers.

J. K. ALLEN, Wholesale Commission Dealer in CUT FLOWERS, 57 W. 28th St., New York.

FORD BROS. WHOLESALE FLORISTS, 111 West 30th Street, NEW YORK.

WM. H. GUNTHER, Wholesale Florist, VIOLETS and CARNATIONS a SPECIALTY.

MICHAEL A. HART, Wholesale & Commission Florist, 118 W. 80th St., New York.

H. A. HOFFMANN, Wholesale Florist, 54 W. 28th St., NEW YORK.

EDWARD C. HORAN, Wholesale Florist, No. 34 W. 29th St., New York.

JULIUS LANG, Formerly with Theo. Roehr, Wholesale Florist, 53 WEST 30th ST.

FRANK HILLANG, Wholesale Commission Dealer ...in Cut Flowers..., 408 East 34th St., New York City.

THE NEW YORK CUT FLOWER CO. 119-121 West 23d Street, 112-114 West 24th Street, NEW YORK.

W. H. LYNCH, Wholesale Dealer in Cut Flowers. Send us your name for our Semi-Monthly Price List. We are Headquarters for FINEST CARNATIONS and ROSES, VIOLETS, VALLEY, ROMANS, SMILAX, ADIANTUM.

BASSETT & WASHBURN, Growers and Wholesale Dealers in CUT FLOWERS.

We grow the finest of American Beauties and other Roses. Also choice selected Valley all the year round. Carnations, Smilax, Adiantum, etc. fresh cut. Long Distance Telephone, Main 223.



Table with columns: NAMES AND VARIETIES, NEW YORK, BOSTON, PHILADELPHIA, CHICAGO, ST. LOUIS. Lists various flower types and prices.

For Prices of Fancy and Special Stock see our Correspondence Columns. Prices are for quantities of one hundred unless otherwise noted.

REINBERG BROS., Wholesale Growers of Cut Flowers. We can fill all orders on short notice with all leading varieties of ROSES and CARNATIONS. We are headquarters for fine AMERICAN BEAUTIES.

SAMUEL S. PENNOCK, WHOLESALE FLORIST. FINE LONG STEMMED KAISERIN Extra Good Flowers, 50¢ per 100. NIPHETOS \$2.50 per 100, extra fine.

KENNICOTT BROS. COMPANY, Wholesale - Cut - Flowers, 88 Wabash Avenue, CHICAGO, ILL. WIRE WORK A SPECIALTY.

CHARLES W. MCKELLAR, Wholesale Commission Florist, 59 WABASH AVE., CHICAGO. NOW OPEN FOR BUSINESS. CONSIGNMENTS SOLICITED.

Cut - Flower - Commission - Dealers.

PURDY & BLAUVELT, Wholesale and Commission Dealers in CUT FLOWERS. MAINTENANCE FEES FOUND A SPECIALTY.

A. & F. ROLKER, WHOLESALE DEALERS IN CUT FLOWERS, 53 West 28th St., NEW YORK.

W. F. SHERIDAN, Wholesale Commission Dealer in CUT FLOWERS, 39 West 28th St., New York.

FRANK H. TRAESE, CHARLES SCHENCK, TRAENDLY & SCHENCK, Wholesale Florists, 38 W. 28th St. and CUT FLOWER EXCHANGE, NEW YORK.

JOHN YOUNG, Wholesale Florist, 51 WEST 28th ST., NEW YORK.

WM. J. BAKER, Wholesale Florist, 1432 So. Penn Square, Philadelphia, Pa.

EDWARD REID, Wholesale Florist, FINEST Varieties, ROSES, CARNATIONS, VIOLETS and CHRYSANTHEMUMS. No. 40 South Sixteenth Street, Local and Long Distance PHONE. Philadelphia.

DUMONT & CO., WHOLESALE FLORISTS. CARNATIONS A SPECIALTY. No. 1305 Filbert St., Philadelphia.

ROGERS PARK FLORAL CO., Wholesale Growers of Cut Flowers, OFFICE AND SALESROOM, 41 WABASH AVE., CHICAGO. Headquarters for AMERICAN BEAUTIES.

WHOLESALE FLORISTS

N. F. Wharthy, JR.
JOBBER IN FLORISTS' SUPPLIES.
Bridges, Potatoes, Umbrella Carnations, etc.

GEORGE MULLEN, Wholesale and Commission Florist in Cut Flowers

Best stock and lowest prices. Orders by mail, express, telegraph, or by freight promptly attended to.

GEO. A. SUTHERLAND, Successor to Wm. J. Stewart, CUT FLOWERS and FLORISTS' SUPPLIES WHOLESALE.

City Hall Cut Flower Market WELCH BROS., Props.

Regular Commissioners Given Space Free of Charge. Spices let to growers wishing to sell their own goods.

Flowers Shipped to All Ports. SEND FOR PRICE LIST...

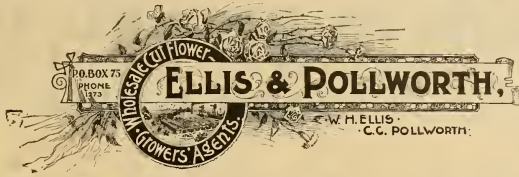
HEADQUARTERS In, Western New York. TRY US ROSES, CARNATIONS, AND VIOLETS. Wm. F. KASTING Wholesale Commission Florist.

W. ELLISON, Wholesale Cut Flowers, Florist Supplies. Wire Designs. 2744 Franklin Ave., ST. LOUIS, MO.

CHAS. G. FLECKENSTEIN, Wholesale Flowers, 1323 Pine Street, ...ST. LOUIS, MO.

C. A. KUEHN, Successor to ELLISON & KUEHN, WHOLESALE FLORIST, 1123 Pine St., St. Louis, Mo.

C. W. WORS, Wholesale Florist, 313 N. LEFFINGWELL AVENUE, ST. LOUIS, MO.



YOUNG ROSE, CHRYSANTHEMUM and CARNATION STOCK NOW READY. SEND FOR COMPLETE LIST...

We are WESTERN AGENTS for the Pres. Carnot Rose. SEND FOR PRICES... SHEEP FERTILIZER. PULVERIZED, \$1.25 Per 100 lbs. NATURAL, \$1.00 Per 100 lbs. WRITE FOR SPECIAL PRICES IN LARGE QUANTITIES...

ELLIS & POLLWORTH, PALMS, FERNS, CUT FLOWERS, WIRE WORK, and all Supplies. Box 75, Milwaukee, Wis.

"The Dahlia." By LAWRENCE R. PEACOCK. A practical Treatise that should be catalogued by every seedman and Florist offering Dahlias for sale.

Carnations = Cut Blooms Of all Leading Varieties, \$1.50 per 100. Short White, \$1.00 per 100. Special prices on large quantities.

E. G. HILL & CO., Wholesale Florists, RICHMOND, INDIANA.

CUT SMILAX 10 cts. per String. THE NATIONAL PLANT CO., DAYTON, O.

M. RICE & CO., Importers and Manufacturers of FLORISTS' SUPPLIES, 25 N. 4th St., Philadelphia, Pa.



WHEN WRITING MENTION THE FLORISTS' EXCHANGE

THE BEST FOR ALL Florists. ROSE LEAF TOBACCO EXTRACT OF TOBACCO IN SECTION.

CHOCOLATE COOLER CO., GRAND RAPIDS, MICH. Manufacturers of FLORIST'S REFRIGERATORS. Send for Circular.

WELCH BROTHERS, DEALERS IN FLORISTS' SUPPLIES, No. 3 Beacon Street, BOSTON.

AN INVESTMENT OF \$1.75 or of \$3.00

AN INVESTMENT OF \$5.00 or of \$7.75

AN INVESTMENT OF \$10.00 or of \$10.50

An Investment of \$14.50 or of \$19.00

Or \$20, or \$26, or \$27.50, or \$41. STOCK SET OF

LONG'S FLORISTS' PHOTOGRAPHS WILL PAY DAN'L B. LONG, Publisher, BUFFALO.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

75 Cts. per 100 lbs. THE BEST AND STURDIEST MUST BE FRESH, NOT OLD DRIED UP STUFF. You can get the best of H. A. BROWN'S, 335 Madison Ave., N. Y.

IF YOU NEED WIRE WORK

It Would Pay You to Get Our BUYERS GUIDE Before Ordering. OUR SPECIALTY IS TO SUPPLY ANYTHING IN THE FLORISTS' LINE.

Have Your Collections Made NATIONAL BOARD OF TRADE.

MEYER GREEN SILKLINE. Good for Stringing SMUT and ANTHRACOSIS.



Will not fade, or rot like other colors. Made also in fancy colors for Dying purposes. Send for samples and prices.

W. C. KRICK'S Immortal Letters, etc. Needs awarded at the World's Fair and other Award wherever exhibited.



per 100. Postage 15c. per 100. For other sizes of Letters, Embosses and designs, send for catalogue.

Perfect Flower Pot Handle and Hanger



W. C. KRICK, 1287 Broadway, Brooklyn, N. Y. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

A Profitable Convenience THE FLORISTS' INTERNATIONAL TELEGRAPH DELIVERY ASSOCIATION. C. B. WHITALL, Box 87, MILWAUKEE, WIS.



# THE FLORISTS' EXCHANGE

We are a straight shoot and aim to grow into a vigorous plant.

A WEEKLY MEDIUM OF INTERCHANGE FOR FLORISTS, NURSERYMEN, SEEDSMEN AND THE TRADE IN GENERAL.

VOL. IX. NO. 4.

NEW YORK, JANUARY 23, 1897.

One Dollar Per Year.

## A BIG DROP IN VALLEY.

Extra Fine Sample Berlin and Hamburg Pips, in cases of 2,500,

UNTIL SOLD, **\$17.50 PER CASE** ORDER QUICKLY.

**TUBEROUS BEGONIAS**, single, separate, \$35.00 per thousand; mixed, \$32.50 per thousand.

**FLORISTS' FLOWER SEEDS** and all **SPRING BULBS** now ready. See our new Wholesale Catalogue. A copy mailed free to all Florists upon request.

### LATANIA BORBONICA.

Of this exceedingly popular Palm we have an exceptionally fine stock in 2 inch pots, which we offer for immediate delivery, at \$25.00 per 1000.

### WHITE ORCHID FLOWERS.

For the next four to six weeks we will have a fine supply of **CEGLOGYNE CRISTATA**, which we offer in sprays containing from 7 to 10 flowers, at 10 cts. per flower.

**PITCHER & MANDA**, Short Hills, N. J.  
JOHN N. MAY, Receiver.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## PRESIDENT CARNOT ROSE

This is having an unprecedented sale. In order to make sure of your supply we advise the early placing of orders. Orders looked now will be shipped as customers may desire—first come, first served. \$15.00 per 100; \$125.00 per 1000.

### TUBEROUS BEGONIAS.

Now Ready. Very finest strains of both. **SINGLE**, \$5.00 per 100; **DOUBLE**, \$8.00 per 100

### GLOXINIAS.

*Crasifolia Erecta Hybrida Grandiflora*. We have just received from one of the best European growers a splendid lot of bulbs, which we are enabled to offer at an unusually low price. Let us have your order before they are gone. The only cheap thing about them is the price. Price, \$4.00 per 100; \$50.00 per 1000.

### LILY OF THE VALLEY.

Finest Selected German Pips, \$3.00 per 1000. Per Case, 3000 Pips, \$25.00  
Special Quality Finest Berlin Pips, \$25.00 per 1000. Per Case, 2500 Pips, \$25.00

## NEW CROP TUBEROSE AND CALADIUM BULBS NOW READY.

**Tuberose Pearl**, extra quality, very fine bulbs, \$1.00 per 100; \$7.50 per 1000.  
**Caladium Esculentum**, 5 to 8 inches in circumference, 2.00 per 100, 8 to 12 " 4.00 per 100.

**JUST RECEIVED A NEW CONSIGNMENT OF SPIRÆA ASTILBOIDES FLORIBUNDA.**  
We offer as long as usual, fine clumps, \$10.00 per 100; per case of 250 clumps, \$30.00.

**F. R. PIERSON CO.**  
TARRYTOWN-ON-HUDSON, NEW YORK.

**PALMS AND OTHER DECORATIVE PLANTS.** SEND FOR OUR SPECIAL LOW OFFER  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## OUR PRICE LIST OF HIGH GRADE SEEDS AND BULBS

Will be found on Pages 27, 28 and 29, of the **FLORISTS' EXCHANGE**, January 9.

**OUR Asters** are grown for us by the leading European Aster seed grower, and the results obtained from our seed will prove true to variety and color.

- Sample's Superb Strain**, Long Stemmed Chrysanthemum Aster, colors white or pink. Price per packet, 25c.; per oz., \$2.00.
- Giant Comet Aster**. Price per packet, 25c.; per oz., \$2.50.
- White Jewel or Ball Aster**. Long sought for color of this popular class. Price per packet, 35c.
- Dwarf Pearl Tuberose Bulbs**, 4 to 6 inches in cir., \$7.50 per 1000.
- Tuberoes Rooted Begonias**, sound stock, 6 colors, separate, \$3.00 per 100.
- Gloxinias**, named varieties, \$5.00 per 100.

In Making Up Your Order Don't Fail to Include Some

### ALLEN'S DEFIANCE MIGNONETTE

**F. E. McALLISTER CO.** Seed and Bulb Merchants, 69 Cortlandt St. N. Y.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## Rose Hill Nurseries.

THE LARGEST AND FINEST STOCK IN AMERICA.

- ARICA LUTESCENS**.—3½ in. pots, bushy, 12-15 in. high, \$3.00 per doz.; \$20.00 per 100. 4 in. pots, bushy, 18-20 in. high, \$4.00 per doz.; \$30 per 100. 5 in. pots, bushy, 20-22 in. high, \$6.00 per doz.; \$50.00 per 100. 8 and 9 in. pots, bushy, 3 to 5 ft. high, \$4.00, \$5.00 and \$6.00 each.
- COCOS WEDDELIANA**.—2½ in. pots, extra fine, 3 and 4 leaves, \$2.00 per doz.; \$15.00 per 100. 3 in. pots, extra fine, strong, \$2.50 per doz.; \$20.00 per 100. 3 in. pots, extra fine, very strong, selected, \$3.50 per doz.; \$25.00 per 100. 3½ in. pots, extra fine, very strong, selected, \$4.00 per doz.
- KENTIA BELMOREANA**.—5 in. pots, extra strong, bushy, 5 and 6 leaves, 18-20 in. high, 75 cts. each; \$5.00 per doz. 8 in. pots, heavy 2 to 2½ ft. high, \$1.50 each; \$18.00 per doz. 7 in. pots, heavy, 2 to 2½ ft. high, \$2.00 each; \$24.00 per doz. 8 in. pots, 30 to 40 in. high, decorative size, \$3.00 to \$4.00 each.
- KENTIA FORSTERIANA**.—3 in. pots, 12 to 15 in. high, \$2.00 per doz.; \$15.00 per 100. 4 in. pots, 15 to 18 in. high, \$4.50 per doz.; \$35.00 per 100. 6 in. pots, 2 to 2½ ft. high, \$1.25 each. 7 in. pots, 5 to 5½ ft. high, \$4.00 to \$2.50 each.
- LATANIA BORBONICA**.—4 in. pots, 10 to 12 in. high, 7 and 8 leaves, \$15.00 per doz. 6 in. pots, perfect specimens, 7 to 9 leaves, \$18.00 per doz. 7 in. pots, perfect specimens, 8 to 9 leaves, \$24.00 per doz.
- LIVISTONA ROTUNDFOLIA**.—4 in. pots, 10 to 12 in. high, \$1.25 each; \$15.00 per doz. 5 in. pots, 12 to 15 in. high, \$1.50 each; \$18.00 per doz.
- FRAXINUS RECLINATA**.—4 in. pots, 10 to 18 in. high, \$1.00 each; \$10.00 per doz.
- DRACENAS**.—(In variety.) Without doubt or exception we have the grandest lot in the country. Open for inspection. 4 in. pots, \$4.00 per doz. 5 in. pots, \$5.00 per doz. (Colored and coloring.)
- FERNS, FERNS, FERNS**.—If you are going to buy, it will pay you to get a sample of our grand stock. 2½ in. pots, in five varieties, \$3.50 per 100; \$30.00 per 1000. Nephrolepis Cordata Compacta.—The largest stock of this grand variety, 3 in. pots, line stock, \$15.00 per 100. 8 in. pots, fine specimens, 15 to 18 in. high, \$4.00 per doz.; \$35.00 per 100. Pteris caudata elegantissima.—4 in. pots, \$35.00 per 100. 5 in. pots, \$50.00 per doz. 6 in. pots, \$65.00 each.
- CECIS ELASTICA**.—4 in. pots, \$50.00 per 100; 7 in. pots, \$75.00 per 100.

\*All measurements taken from top of pots.  
The above is a brief list of our specialties. Our new wholesale list, giving description of all new novelties, will be ready soon. Do not order till you see it.

Write, Telegraph or Telephone us and our Carriage will meet you.

**SIEBRECHT & SON,**  
NEW ROCHELLE, N. Y.  
N. Y. OFFICE: 409 5 Ave.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# BOUND TO GROW

Under the Most Adverse Circumstances.

- Petunia**, Single Large Flowering, Mixed, Single Large Flowering, Fringed, Mixed, Double Large Flowering, Fringed, Mixed.
- Each of above in trade pkts., at 50c. and \$1.00.
- Petunia**, Fine Mixed, Trade pkt. Oz. \$9 15 \$9 50
- Choice Mixed, Striped and Blotched, 25 1 00
- Dwarf Intimable, Mixed, Star Petunia, 25 2 00
- Salvia splendens**, select stock, 25 2 00
- Verbena**, Elliott's Mammoth, Mixed, 25 1 75
- Nikotein**, the coming insecticide, pint bottles, \$1.50.
- Vaporizing Pans** for Nikotein, \$1.00 each; set of three, \$3.00.

**WILLIAM ELLIOTT & SONS, NEW YORK.**

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**ASTER**, Queen of market, mixed, per oz. 7c.; separate colors, white, blue, and pink, per 100, \$1.00; Giant Queen, pure white, per oz. \$2; and all leading kinds at lowest price. Write for SAMPLE. H. BEAULIEU, Woodhaven, L.I.

**Live Sphagnum Moss and Orchid Peat** BEST QUALITY. For Prices, etc. address, **Bernhard Lapp, New Providence, N. J.**

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

# Single Begonia Bulbs

In separate colors. Per 100, \$5.00; per 1000, \$50.00—the Pearl, At. per 100, \$5.00; per 1000, \$7. All other seasonable bulbs on hand. Ask for price list.

**HULSEBOSCH BROS., Englewood, N. J.**

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

# SEED FOR FLORISTS

- Clematis** Fancielata, 500 seeds, 25c
- Amorpha** Yitchihai, pkt. 10c; 25c
- Preminal Phlox**, new vars. mixed; pkt. 10c
- Vines** Albo and Rosae, 500 seeds, 15c
- WATER LILIES**
- Nymphaea** Devoniana (red), 500 seeds, 15c
- Denata** (white), 500 seeds, 15c
- Zantedhaea** (blue), 500 seeds, 15c
- ONE PACKET EACH OF THE ABOVE, \$1.00
- All Kinds of Hardy Aquatic Plants.

Send for List.

**EDW. S. SCHMID, 712 12th St., N. W., WASHINGTON, D. C.**

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

# TUBEROUS BEGONIA SEEDS

All Colors. Fringed and Fragrant.

# BEGONIA VERNON PLANTS.

6 Varieties, \$4.00 per 100. Now Ready for Shipping.

# BEGONIA ERFORDII.

Ready March 1st, \$6.00 per 100.

# OASIS NURSERY CO., WESTBURY STATION, L. I., N. Y.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

# NEW CROP

# VERBENA SEED

Very large flowers, handsome, abovy, bright colors only.

Large trade pkt., \$1.00; ounce, \$5.00.

**Fresh Flower Seed for Florists**

Extra quality, choicest strains. One trial will convince. Catalogue free.

**MOORE & SIMON, FLOWER SEED GROWERS, PHILADELPHIA, PA.**

# RELIABLE HOLLAND CABBAGE

AND OTHER VEGETABLE SEEDS. Grown by VAN NAMEN BROS., HOLLAND. Contracts for future delivery booked. For catalogue address **C. H. JOOSTEN, Sole Agent, 193 Greenwich St., New York.**

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

# VERBENA SEED MAMMOTH FLOWERING.

An exceedingly fine collection of Giant-flowering varieties, flowers one inch in diameter, of the most showy colors. My customers write that this is the best strain of Verbena they can get; requires no better evidence of superiority. Every flowered plant in the above trade pkt., 25c; 3 pkts., 50c; 6 pkts., \$1. Seeds of tested stock added to every order.

**JOHN F. RUPP, Shiremanstown, Pa.**

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

# TOBACCO STEMS

Large Bales, ..... \$1 50 } STRONG AND FRESH  
**Tobacco Dust**, 20c per lb.  
**Chinese Sacred Lilies** per basket 30 bulbs, 75c.  
**Narcissus Paper White**, 60c per 100  
**H. G. FAUST & CO., 64 & 66 N. Front St., N. H. WASHINGTON, Pa., Philadelphia, Pa.**

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

# SEED FOR SALE.

19 ounces Victoria Aster, white; 6 ounces Giant Comet Aster, white; 1 1/2 ounce Giant Aster, pink; 1 ounce Magnolia Aster, stony, with 1 ounce in 10c market variety, 3 separate colors; the seeds in color clear from '95; all together for net \$14.50.

**H. SCHUBERT, Astor Green, LITTLE FERRY, N. J.**

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

# FARQUHAR'S SEEDS

"ONLY THE BEST QUALITY." R. & J. Farquhar & Co., BOSTON 16 & 19 So. Market St. 1897 CATALOGUE READY—WRITE FOR IT.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

# GLUCAS & BODDINGTON CO., Wholesale Seed and Bulb Merchants.

Importers and Exporters of SEEDS, BULBS, Etc. 501 & 503 W. 13th Street, Telephone Call, 403-16th St. NEW YORK. WHEN WRITING MENTION THE FLORIST'S EXCHANGE

# Gladioli . . . THE BEST IN AMERICA.

Geraniums, 'Mums, Carnations, etc. Write for prices. **BETSCHER BROS., Canal Dover, O.**

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

# WE ARE HEADQUARTERS ON BULBS FOR FORCING, FLOWER SEEDS FOR FLORISTS, ENGLISH MUSHROOM SPAWN.

SPECIAL PRICES ON APPLICATION. **JOHN GARDINER & CO., Seedsmen, Box 120, Philadelphia, Pa.**

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

# PALM SEED. FRESH ON HAND

Per 100 1000 5000  
 Coese Weddelliana ..... \$2 50 \$24 00 \$27 50  
 Pandanus siliqua ..... 2 50 24 00 27 50  
 Coffea arabica ..... 1 50 12 00 13 50  
 Musa Cavendish ..... 1 50 12 00 13 50  
 Agavea Filamentos (true), 100 12 50  
**J. L. SCHILLER, Rutherford, N. J.**

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

# SPECIAL LOW PRICES ON ALL... Spring Bulbs...PLANTS

**F. W. O. SCHMITZ, ETC., ETC. JERSEY CITY, N. J.**

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

# Gladiolus Shakespear

For Forcing. \$5.00 per 100; \$40.00 per 1000.

**CHAS. H. ALLEN, Floral Park, N. Y.**

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

# GET THE BEST ASTER SEED

of the celebrated Simple Aster, separate colors, pink and white, also mixed. Seed well cleaned, plump and good. Crop of 1896. For sale in any desired quantity by **JAMES SAMPLE, Box 2, BELLEVUE, PA.**

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

# DRER'S RELIABLE FLOWER SEEDS!

A FEW OF OUR LEADING SPECIALTIES FOR PRESENT SOWING:

- |   |   |   |   |
|---|---|---|---|
| AGERATUM, Cope's Pat. .... Trade pkt. Oz. \$4 15 \$8 00     | ASTER, Queen of the Market, Best early white with long stems, \$0.25 \$1.00 | ASTER, Frimoy Perfecton, finest mix., 50 2 50 | ASTER, Frimoy Perfecton, finest mix., 50 2 50 |
| ALYSUM, Little Gem, ..... 10 30                             | BEGONIA, Frimoy Perfecton, ..... 40 2 00                                    | " Victoria, white, ..... 50 2 25              | " pink, ..... 50 2 25                         |
| BEGONIA, Frimoy Perfecton, ..... 40 2 00                    | " Frimoy Perfecton, ..... 40 2 00   | " scarlet, ..... 50 2 25                      | " indigo, ..... 50 2 25                       |
| CANDYFLY, Empress, ..... 10 30                              | " crimson, ..... 40 2 00  | " purple, ..... 40 2 00                       | " Best mixed, ..... 40 2 00                   |
| CARNATION, Marguerite, mixed, ..... 30 1 25                 | " purple, ..... 40 2 00   | " blue, ..... 40 2 00                         |   |
| CENTAUREA Candelaria, per 100 seeds, 25c, ..... 1 00        |   |   |   |
| CYRANOBERG, 100 seeds, 25c, ..... 20                        |   |   |   |
| CINERARIA Maritima, ..... 10 25                             |   |   |   |
| COBEA Scandens, ..... 15 40                                 |   |   |   |
| ORAZENA Indivisa, ..... 15 40                               |   |   |   |
| GERANIUM, Apple scented, true, per 100 seeds, 25c, ..... 25 |   |   |   |
| VERBENA, Mammoth mixed, ..... 10 50                         |   |   |   |
| LANTANA, mixed, ..... 10 25                                 |   |   |   |
| LOBELIA Speciosa, ..... 30 75                               |   |   |   |
| " Crystal Palace Gem, ..... 20 50                           |   |   |   |
| " true, ..... 50 2 50                                       |   |   |   |
| " purple, ..... 30 1 25                                     |   |   |   |
| " blue, ..... 40 2 00                                       |   |   |   |
| MAURANDIA mixed ..... 20 1 25                               |   |   |   |
| VERBENA, Mammoth mixed, ..... \$0 40 \$1 75                 |   |   |   |
| " Choice mixed, ..... 25 1 00                               |   |   |   |
| VINCA Rosea, ..... 20 1 75                                  |   |   |   |

**HENRY A. DRER, 714 CHESTNUT PHILA., PA. STREET.**

WHEN WRITING MENTION THE FLORIST'S EXCHANGE



Trade pkt. Oz. \$0.25 \$1.00 \$1.25 \$1.75



### The Professional Gardener's Mission in Horticulture.

Paper read by Patrick O'Mara (of Peter Henderson & Co.) before the Lenox (Mass.) Horticultural Society, January.

When your secretary communicated to me your desire that I would come before you and talk to you on some topic pertaining to horticulture, I very naturally commented at the honor you had conferred on me by issuing the invitation. Pleased that you was, you were so graciously for in this community of gardeners, second to none on the continent, he who could do before you as an instructor or on some special fitness for his task, and such a fitness I do not claim. The certainty, however, of meeting men who I respect, I esteem, of mingling with men who occupy an enviable position in horticulture, the knowledge that I would be your guest for a time and partake of your hospitality, that I would have the pleasure, ever new, of looking at your beautiful hills in their winter garb—these were potent allurements, and not to be resisted. The feeling also that in my own mind I was doing something to you which would be the means of urging you to renew efforts in your horticulture, that horticulture would be benefited by my words, and that I probably would have more than I would impart, were good reasons why I should not decline the invitation.

A few years since I was daily engaged in the working department of our business, and, therefore, did not feel justified in choosing to assume any line of active operation. You will be able to see from time to time, I am informed, men who are qualified to speak on these lines, and you will have the opportunity of being in daily contact with men representing the profession, also with the class who more properly are the patrons of horticulture, people who are engaged in employing gardeners; in daily contact, too, with the gardener who cultivates his or her own little garden, and the cultivator of winter gardens, are a small category of gardeners, a closed piazza, or, more frequently, a sunny porch, in which he may be seen. In many phases of the question, that I should sometimes ask myself if the gardener was to be placed in the right position in the environment and technical education, if he was using both to their full advantage for the benefit of all concerned, and it was thus I came to choose as my theme "The Professional Gardener's Mission in Horticulture."

To begin with, what is a gardener? Webster says: "One who makes and tends a garden; a horticulturist." The horticulturist is: "One who practices the art of cultivating gardens." Before proceeding further, it is well to understand that that distinctly calls cultivating gardens an art, and is an authority who is careful in selecting words, and who is not haphazard. In this country the man who grows vegetables for a livelihood is called a gardener, and the horticulturist who grows flowers, a trucker and a truck-farmer. We also have the florist, which embraces the man who grows and keeps flowers, and the grower, those to whom the title properly belongs, viz., the persons who are cultivators of flowers. We have also the owner, who is called separate and distinct from these, and yet the three must be combined in one being; and to make this more definite, or what is generally known as the "private" gardener.

Occasionally the so-called "private" gardener is known as a "manager" or "superintendent," but it may well be questioned if he really honors the title. When he leaves the place where the title was assumed or thrust upon him, it very frequently is left behind, and he is called a manager. It also tends to create an artificial distinction between man who are equal and who are not, and the rate of pay should be discouraged. Gardener who have charge of public parks, cemeteries and hospitals, it may be said, do not assume the name with perfect propriety assume the name of superintendent, but the fact remains, that no man who is called superintendent should be assumed to be known professionally by the "grand old name of gardener."

It was a title good enough for Sir Joseph Paxton, and his claim to it rests largely on his work as the gardener at Chatsworth. It was a title good enough for Peter Henderson, and his claim rests on honor to the last of his days. It was good enough for his son, who, in writing his book on horticulture, entitled it "The Gardener—Author—Merchant," the gardener being the foundation stone. With two such honorific titles, it is not surprising even if there were no others, it may well be said that no man entitled to bear it should have any hesitations in assuming the dignified title of gardener. However, as there may be some danger of a man's true position being misunderstood, it is in that word, I would suggest that the word horticulturist, which is a quality, is in the eyes of some outside the title, it might have weight, and it would certainly be a proper distinction from the amateur gardener, the trucker, the nurseryman and the commercial florist. It would be well also to have all gardeners' societies known as an association of horticulturists, and it might operate to properly classify those who are entitled by education, experience and natural ability to bear the title of horticulturist, who, lacking all these, are yet bold enough to assume it. Horticulturists are candidates for positions which are unable to fill with credit to themselves, with credit to the public, and with credit with a proper regard for the responsibilities they are so willing to assume. That horticulturists are not to be taken advantage of by them, under such circumstances, assume the title of professional horticulturist, and that those who assume it, which would inevitably follow the discovery of their false pretenses would be a salutary thing.

To have a claim upon the title, a man should be able to grow flowers, fruits and vegetables, and to be able to give the care for trees and shrubs, lawns and roads, and to be able to give the order and in short attend to every detail connected with the horticultural business. He should be able to attend to the details of horticulture, and his services should be all the more valuable in the country where the horticulture of a place, where there is no horticulture are done, and we would, if more men were capable of this, be spared the necessity of employing a horticulturist from incompetence or want of co-operation between the gardener and farmer.

It is the horticulturist who may properly claim the title of professional gardener that I address myself; it is to them that we must look for developments of an upward tendency and they will be held responsible for any retrogression in ornamental horticulture, for they are before all others the recognized exponents of the art. It is their mission to improve, and the general public, who are there in room for improvement, more especially in indoor horticulture. The overwhelming tendency during the past few years has been to make the so-called "private place" nothing more nor less than a cut flower establishment and hospital for the decorative plants which are used in the dwelling house and for outside decoration in summer; so that the horticulturist has been reduced to the latter instead of being maintained, as it should be, purely to gratify aesthetic tastes, is devoted to a utilitarian purpose. The product is counted and reckoned at a few more dollars and cents. The horticulturist is called upon to attend to the daily or semi-weekly cut which is sent to the house. This is not as it should be, and the horticulturist is not to be taken advantage of by not being within his power to control, yet by well-timed suggestion and persistence, he should be able to direct, and much-to-be-desired change.

The greenhouse should be a place of recreation for the horticulturist, and he should be induced to visit them daily, to look forward with pleasure to that visit, and the best way to accomplish this is to induce them to get a good collection of plants. A house of roses, carnations, violets or chrysanthemums, is desirable in a winter greenhouse, a collection, too, that embraces in their season gladiolus, tuberous begonias, and geraniums, and also a collection of sparganix, primulas, and other seasonal pot plants, both flowering and ornamental

foliage. The late A. W. Bennett set a brilliant example in this among our latter day gardeners, both at Flatbush and Schenley Park. It is freely admitted that variety is superior to monotony, but it is less so in small than in large places. The individual preferences of the proprietor or horticulturist should be considered, but be rendered subservient to the amount of pleasure which visitors are sure to obtain by the superior ordering of the plants, that in many places the proprietor's residence is of short duration and very often during the summer months, and it is difficult, say, well nigh impossible, for the gardener to influence him in the right direction, and it is not to be expected that in many places the proprietor is to succeed, and the example once set, it will soon become general. It must not be understood that I advocate an entire abandonment of growing cut flowers, far from it; what I urge is a wider scope for the professional indoor horticulture than obtains at present.

I once felt it necessary to call public attention to the monotony of our flower shows of the present time and to suggest some remedies. That monotony still exists, and that it is the cause of the loss of many of them. Horticulturists of the last new departure was taken, somewhat on the lines of the present time, and with flattering results. The suggestion was to have the whole equal to any I ever saw and superior to any I have seen. The horticulturists brought people to the shows, and the monotony would not come. Now, if good collections are made, and the horticulturist is to be away with it, and it behooves the gardener to be able to give the horticulture of horticulture to strive to get there.

This thought suggests another. It was said that "a garden of plants without a man, is like a book without a reader." There is food for thought in this. Horticulturists should be properly intelligently called so that they may employ themselves with them; acquaintance with them will ripen into friendship, and the horticulturist will be able to have a better understanding of the horticulturist. How is it possible for the horticulturist to be able to tell the visitor what a plant is, and to be able to give the horticulturist the case, that when the gardener is called to, he has the name "on the tip of his tongue," and he can give the name.

An annual prize should be offered by every horticultural society for the best labeled collection of plants in the greenhouse and grounds and persisted in until its need should disappear. Not only should the botanical name be given, but the vernacular also, when the subject has one. "What's in a name?" Why even the stars of the horticulturist should know them when we know their names. But to know the names of plants alone should not suffice. The horticulturist should know their history and should know how to tell it when asked. An hour should be set apart for every meeting for the horticulturist should call upon members to tell what they know of plants in their collection, and to give the name of the plant, and etc. It will at all events give him practice in telling what any visitor may ask him, and it will be a most profitable thing in the long run. Let the president be asked questions, too, his position should not exempt him. Try to get the horticulturist to give the most interesting which otherwise would be uneventful.

It is then, then would be steps in the right direction and the gardener should take them.

It is another thing, study the habits of your employers and at the time they may be expected to visit the greenhouses see to it that the best care is given to the plants, or while watering is being done, do not a good time, neither is the odor of the plants. It is not to be expected that ladies, to visit the greenhouses, and it is largely owing to these two causes that they are not to be expected to visit the stable or a malarious swamp. Remember that the love you bear for plants is not to be expected to be communicated to you have it in your power to communicate it, but remember, also, that it cannot ex-

cept in rare cases, be communicated on sight. Be patient, therefore, an enthusiasm is contagious, but a sustained enthusiasm is convincing. London says: "Delicacy and nicety depend principally upon organization and intellectual cultivation; they cannot be communicated by instruction except in a very limited degree, and yet the influence which education may have in giving a bias to taste is so obvious as hardly to require illustration." It is surely the mission of the professional gardener to provide education and so direct a course. He should, to properly fulfill his mission, be so imbued with the lore and love of his art as to be able to say with Horace Smith, Floral apostle: that in every episode of "Wesp Without Words" he should say: "Oh! may I deeply learn and ne'er surrender—  
"Your love divides."

A tendency here of the dominating influence of the commercial cut-flower grower on horticulture at the present time is to measure the beauty of a flower by its size. We may well pause and ask with the lady who, with Arlic wit, inquired: "Do we measure beauty by the square yard?" It seems so. If Burns thought thus, the world would be the poorer by the loss of his exquisite lines. "To the Daisy," "The poet in all climes and all ages has ever been the oracle who proclaims the merit of true beauty, and delicacy rather than exuberance has ever been his theme in flower; even though they lack more color, to preserve varieties having delicacy of color, delicacy of perfume and beauty of contour, even though they lack more color. True beauty is imperishable, the rage of the size is sporadic. The Colossus of Rhodes for a time may have been the admiration of a living reality. The Venus de Milo and De Medici will endure when Memories Liberty and Germany are only memories.

(To be continued.)

### San Francisco.

The following officers have been elected for the coming year: President, Professor E. A. Smith; Secretary, Professor E. A. Hodgkin; Treasurer, John Henderson; Editor, Mrs. J. M. Martin; and Secretary, John Hinkle and Mrs. J. R. Martin. The proposition of the carnival committee to hold the carnival at the Palace Hotel, the week ending April 17th was accepted. Expenses are to be borne by the committee. Rooms and catering must be paid for and awarded instead of premiums, inasmuch as there will be no receipts for admission. The February meeting of the Society will be addressed by Professor Kellogg, entomologist of Stanford University.

TOBAC-OIL

### Vaporizing Tobacco Extracts made

easy and sure by using the TOBAC-OIL VAPORIZER—\$3.50 each. Money back if not satisfactory. Particulars by writing to

H. A. STOOTHOFF, 315 MADISON AVE., N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

OF FLOOR SPACE, EXTERMINATES AT ONE APPLICATION ALL GREEN FLIES, IS NON-INJURIOUS TO MOST DELICATE BLOOMS, PERFECTLY PURE, WHITE IN COLOR, VAPORIZES COMPLETELY, LEAVING NO STICKY, DIRTY MASS TO BURN AND SMOKE, IT'S OIL OF NICOTINE, IF NOT PERFECTLY SATISFACTORY, YOUR MONEY BACK. BOOKLET FREE.

H. A. STOOTHOFF, 315 Madison Ave., N. Y.

GREEN 210 OIL

...NEW ROSE...

## Souv. du President Carnot

ADMIRED BY EVERYBODY. IT GROWS IN FAVOR DAILY.

President Carnot is without doubt a grand acquisition to the list of forcing Roses. It has all the good qualities, being a remarkably strong, quick grower, extremely healthy, and a constant bloomer. It produces long, stiff stems, with handsome foliage; the color is an exquisite sea-shell pink, with the edge of the petals Ivory white. The blooms are larger than either Bride or Kaiserin Augusta Victoria, and of perfect shape; even upon small plants the blooms are large and show the same character as one year old plants.

### EVERY WIDE-AWAKE FLORIST SHOULD PLANT IT.

How many florists have purchased new Roses during the past few years, and after growing them for a year or two have been disappointed and dropped the new Roses as unprofitable?

We recommend with full confidence President Carnot, both for forcing and open air culture. We know it will be both profitable and popular as a cut flower. It has been tested in the West, in Boston, in New York, and Washington, and from all these different localities with their varied soils comes but one report—it is the Rose of the year. It has taken more medals and certificates of merit than any other variety ever introduced in this country. All these reasons, we think, should induce florists to plant it largely this year, as the price is exceptionally low for such a sterling novelty.

### A Perfectly Hardy Garden Rose.

We have tested President Carnot in the open ground and it produces as many flowers as Maman Cochet. At this date it has stood three degrees above zero without protection, and every plant is perfect to the top of the stem. We are convinced that it is perfectly hardy.

#### ALL ORDERS BOOKED FOR MARCH 15th.

STRONG PLANTS, from 2½ inch pots, \$3.00 per doz.; \$15.00 per 100;  
\$125.00 per 1000. 50 sold at 100 rates. 500 at 1000 rates.

ORDERS MAY BE SENT TO

**ROBT. SCOTT & SON, - - Philadelphia.**  
**E. G. HILL & CO., - - - Richmond, Ind.**  
**STRAUSS & CO., - - Washington, D. C.**  
**ERNST ASMUS, - - - West Hoboken, N. J.**  
**ROBT. CRAIG, - - - - Philadelphia.**

50,000 SMILAX by mail, 50c. 1000. 1000. From 2 1/2 in. pots, \$1.50 per 100, \$15.00 per 1000. ... FRED. HOERNER, Cape May City, N. J.

BRIDESMAID has a new and well-reputed. PARENT STOCK still exists in perfect condition at the Sunnywood Greenhouses. ... FRANK L. MOORE, Chatham, New Jersey.

ROOTED CUTTINGS COLEUS, of the best kinds at 6c. per 100. ... C. A. HARRIS & CO., Delanor, N. Y.

20 CHRYSANTHEMUMS VARIETIES For \$1.00, Postage Paid. Mrs. H. Robinson, Philadelphia, Queen E. Dillehouse, Major Bonaffon, and 15 other parties. ... HARVEY B. SNOW, Camden, New York.

THE WONDERFUL NEW ROSE YELLOW RAMBLER (AGLAI) is the hardest Yellow Climbing Rose yet introduced. ... JACKSON & PERKINS CO., Newark, New Jersey.

I am again ready to quote prices and book orders. TRADE MARK

NOVELTIES AND STANDARDS in great variety. Prices lower and stock better than ever. Try my leader—John Eitich, CATALOGUE.

W. W. WILMORE, Box 382, Denver, Colo. WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

ROSES From 2 1/2 in. pots, strong and in excellent shape, \$1.50 per 100, \$15.00 per 1000. ... EMPRESS OF CHINA—The new everblooming hardy pink Climbing Rose, grows as rapidly as a climbing Glory, bound to become popular, \$3.00 per 100, \$25.00 per 1000.

CERANIUMS The very best varieties, strong plants, from 2 1/2 in. pots, ready to ship to in, \$1.25 per 100, \$12.00 per 1000. ... Our New Seedling Geranium, John A. Doyle

DEFENDER, Bright Dark Crimson, reflexed, does not show under side of petals. ... GEO. S. KALB, Early White, Oct. 2d. Slightly reflexed, 3 ft. size, 6 to 7 inches stem, good foliage to the bloom. ... Fisher & Ekas, Toll Gate, Belair Ave., Baltimore, Md.

CHRYSANTHEMUMS. Calvat's "Strong, Healthy Stock Plants. Liberty, Duchess of York, Triomphe de St. Laurent, Lotie Air, Chebogue, Wm. Simpson, ... THEO. F. BECKERT, NEW BRITAIN, PA.

ROSES, Strong plants, 2 1/2 in. pots, \$2.25 per 100; \$20.00 per 1000. ... AGRIPPA, Aphrodite Charles, Ben Mazon, ... MRS. M. MURPHEY, Urbana, Ohio.

WASHAB AVENUE, CHICAGO, ILLS. VIOLETS MY SPECIALTY!

On and after March 1st I will be ready to apply, in any quantity, stock of the following varieties: PRINCESS DE GALLES, The Queen of single plants, ... F. FERD. BOULON, Sea Cliff, L. I., N. Y.

FRINCESS DE GALLES, The Queen of single plants, Per 100 rooted runners, good plants, \$10.00. ... F. FERD. BOULON, Sea Cliff, L. I., N. Y.

FRINCESS DE GALLES, The Queen of single plants, Per 100 rooted runners, good plants, \$10.00. ... F. FERD. BOULON, Sea Cliff, L. I., N. Y.

FRINCESS DE GALLES, The Queen of single plants, Per 100 rooted runners, good plants, \$10.00. ... F. FERD. BOULON, Sea Cliff, L. I., N. Y.

FRINCESS DE GALLES, The Queen of single plants, Per 100 rooted runners, good plants, \$10.00. ... F. FERD. BOULON, Sea Cliff, L. I., N. Y.

FRINCESS DE GALLES, The Queen of single plants, Per 100 rooted runners, good plants, \$10.00. ... F. FERD. BOULON, Sea Cliff, L. I., N. Y.

FRINCESS DE GALLES, The Queen of single plants, Per 100 rooted runners, good plants, \$10.00. ... F. FERD. BOULON, Sea Cliff, L. I., N. Y.

FRINCESS DE GALLES, The Queen of single plants, Per 100 rooted runners, good plants, \$10.00. ... F. FERD. BOULON, Sea Cliff, L. I., N. Y.

FRINCESS DE GALLES, The Queen of single plants, Per 100 rooted runners, good plants, \$10.00. ... F. FERD. BOULON, Sea Cliff, L. I., N. Y.

FRINCESS DE GALLES, The Queen of single plants, Per 100 rooted runners, good plants, \$10.00. ... F. FERD. BOULON, Sea Cliff, L. I., N. Y.

FRINCESS DE GALLES, The Queen of single plants, Per 100 rooted runners, good plants, \$10.00. ... F. FERD. BOULON, Sea Cliff, L. I., N. Y.

FRINCESS DE GALLES, The Queen of single plants, Per 100 rooted runners, good plants, \$10.00. ... F. FERD. BOULON, Sea Cliff, L. I., N. Y.

FRINCESS DE GALLES, The Queen of single plants, Per 100 rooted runners, good plants, \$10.00. ... F. FERD. BOULON, Sea Cliff, L. I., N. Y.

CHRYSANTHEMUMS.

Strong, Healthy Stock Plants. Calvat's "Strong, Healthy Stock Plants. Liberty, Duchess of York, Triomphe de St. Laurent, Lotie Air, Chebogue, Wm. Simpson, ... THEO. F. BECKERT, NEW BRITAIN, PA.

ROSES, Strong plants, 2 1/2 in. pots, \$2.25 per 100; \$20.00 per 1000. ... AGRIPPA, Aphrodite Charles, Ben Mazon, ... MRS. M. MURPHEY, Urbana, Ohio.

WASHAB AVENUE, CHICAGO, ILLS. VIOLETS MY SPECIALTY!

On and after March 1st I will be ready to apply, in any quantity, stock of the following varieties: PRINCESS DE GALLES, The Queen of single plants, ... F. FERD. BOULON, Sea Cliff, L. I., N. Y.

FRINCESS DE GALLES, The Queen of single plants, Per 100 rooted runners, good plants, \$10.00. ... F. FERD. BOULON, Sea Cliff, L. I., N. Y.

FRINCESS DE GALLES, The Queen of single plants, Per 100 rooted runners, good plants, \$10.00. ... F. FERD. BOULON, Sea Cliff, L. I., N. Y.

FRINCESS DE GALLES, The Queen of single plants, Per 100 rooted runners, good plants, \$10.00. ... F. FERD. BOULON, Sea Cliff, L. I., N. Y.

FRINCESS DE GALLES, The Queen of single plants, Per 100 rooted runners, good plants, \$10.00. ... F. FERD. BOULON, Sea Cliff, L. I., N. Y.

FRINCESS DE GALLES, The Queen of single plants, Per 100 rooted runners, good plants, \$10.00. ... F. FERD. BOULON, Sea Cliff, L. I., N. Y.

FRINCESS DE GALLES, The Queen of single plants, Per 100 rooted runners, good plants, \$10.00. ... F. FERD. BOULON, Sea Cliff, L. I., N. Y.

FRINCESS DE GALLES, The Queen of single plants, Per 100 rooted runners, good plants, \$10.00. ... F. FERD. BOULON, Sea Cliff, L. I., N. Y.

FRINCESS DE GALLES, The Queen of single plants, Per 100 rooted runners, good plants, \$10.00. ... F. FERD. BOULON, Sea Cliff, L. I., N. Y.

FRINCESS DE GALLES, The Queen of single plants, Per 100 rooted runners, good plants, \$10.00. ... F. FERD. BOULON, Sea Cliff, L. I., N. Y.

FRINCESS DE GALLES, The Queen of single plants, Per 100 rooted runners, good plants, \$10.00. ... F. FERD. BOULON, Sea Cliff, L. I., N. Y.

FRINCESS DE GALLES, The Queen of single plants, Per 100 rooted runners, good plants, \$10.00. ... F. FERD. BOULON, Sea Cliff, L. I., N. Y.

FRINCESS DE GALLES, The Queen of single plants, Per 100 rooted runners, good plants, \$10.00. ... F. FERD. BOULON, Sea Cliff, L. I., N. Y.

FRINCESS DE GALLES, The Queen of single plants, Per 100 rooted runners, good plants, \$10.00. ... F. FERD. BOULON, Sea Cliff, L. I., N. Y.

FRINCESS DE GALLES, The Queen of single plants, Per 100 rooted runners, good plants, \$10.00. ... F. FERD. BOULON, Sea Cliff, L. I., N. Y.

FRINCESS DE GALLES, The Queen of single plants, Per 100 rooted runners, good plants, \$10.00. ... F. FERD. BOULON, Sea Cliff, L. I., N. Y.

FRINCESS DE GALLES, The Queen of single plants, Per 100 rooted runners, good plants, \$10.00. ... F. FERD. BOULON, Sea Cliff, L. I., N. Y.

FRINCESS DE GALLES, The Queen of single plants, Per 100 rooted runners, good plants, \$10.00. ... F. FERD. BOULON, Sea Cliff, L. I., N. Y.

FRINCESS DE GALLES, The Queen of single plants, Per 100 rooted runners, good plants, \$10.00. ... F. FERD. BOULON, Sea Cliff, L. I., N. Y.

FRINCESS DE GALLES, The Queen of single plants, Per 100 rooted runners, good plants, \$10.00. ... F. FERD. BOULON, Sea Cliff, L. I., N. Y.

FRINCESS DE GALLES, The Queen of single plants, Per 100 rooted runners, good plants, \$10.00. ... F. FERD. BOULON, Sea Cliff, L. I., N. Y.

FRINCESS DE GALLES, The Queen of single plants, Per 100 rooted runners, good plants, \$10.00. ... F. FERD. BOULON, Sea Cliff, L. I., N. Y.

FRINCESS DE GALLES, The Queen of single plants, Per 100 rooted runners, good plants, \$10.00. ... F. FERD. BOULON, Sea Cliff, L. I., N. Y.

FRINCESS DE GALLES, The Queen of single plants, Per 100 rooted runners, good plants, \$10.00. ... F. FERD. BOULON, Sea Cliff, L. I., N. Y.

FRINCESS DE GALLES, The Queen of single plants, Per 100 rooted runners, good plants, \$10.00. ... F. FERD. BOULON, Sea Cliff, L. I., N. Y.

FRINCESS DE GALLES, The Queen of single plants, Per 100 rooted runners, good plants, \$10.00. ... F. FERD. BOULON, Sea Cliff, L. I., N. Y.

FRINCESS DE GALLES, The Queen of single plants, Per 100 rooted runners, good plants, \$10.00. ... F. FERD. BOULON, Sea Cliff, L. I., N. Y.

MRS. TRODOSIA B. SHEPHERD, Hybridizer and grower of Novelties, offers the entire stock of some Grand New Beauties, New Abutilons, and New Dwarf Double Fuchsias. ... WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

PANSIES. THE JENKINS STRAIN OF FINE AMERICAN GROWN PANSIES. Fine plants from old farms, 75 cts. per 100 by mail, \$4.00 per 1000 by express. ... E. B. JENKINS, Look Hill, Southport, Conn.

THE FARQUHAR—QUEEN OF VIOLETS HEADQUARTERS STOCK. TRUE AND PERFECTLY HEALTHY. Earliest, Freest, Darkest and most Double. ... C. E. WELD, VIOLLET SPECIALIST, ROSINDALE, MASS.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

PRIMROSES. Beautiful plants, full of buds and commencing to bloom, \$3. and 4 in. pots, \$5.00 per 100. ... Mrs. M. Cavanaugh, Millers Corner, N. Y.

PANSIES WORTH RAISING. Seed, \$1.00 per package, 3-16 oz. Extra good plants, \$1.00 per 100, \$10.00 per 1000. ... C. SOLTAU & CO., 139 Grant Ave., Jersey City, N. J.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.



WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

GREAT BARGAINS IN ROSES

We're overstocked with Roses, and to make room we will almost give them away. Fine plants, from 2 1/2 in. pots, \$1.00 per 100, \$10.00 per 1000. ... G. YOUNG & SONS CO., 1406 Olive St., ST. LOUIS MO.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE.

DELAWARE COLLEGE AGRICULTURAL EXPERIMENT STATION.

DEPARTMENT OF HORTICULTURE AND BOTANY. G. H. HALL, FELLOW OF THE HORTICULTURAL AND ENTOMOLOGICAL SOCIETY OF AMERICA...

PEACH & PLUM TREES FOR SPRING DELIVERY, 1897.

Reliable and clean stock at low wholesale rates. Send for Nurseries Lists.

ASPARAGUS ROOTS. 2 and 3 Years, strong.

ALEXANDER PULLEN, MILFORD Nurseries, MILFORD, DEL. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

COMMONWEALTH OF PENNSYLVANIA. DEPARTMENT OF AGRICULTURE.

To Whom It May Concern: I have this 17th day of October, 1896, inspected the nursery and grounds of the Delaware College of Agriculture...

50,000 PEACH lowest prices. C. L. LONGDOORF, Floradale, Pa.

Giant and Dwarf Double Alyssum.

Lantana, Dwarf, Yellow Orange.

Dwarf Blue Ageratum.

Cuphea, 2 1/2 in. pots, \$2.00 per 100.

R. VINCENT, Jr., & SON, White Marsh, Md.

ROOTED CUTTINGS

- Celaena, good kinds, 7 to 30 1/2 cents per 100. Alternanthera, yellow and red, 100 per 100.

... CINERARIAS ...

Do you want the best strain on earth? We are the largest growers in the country...

Geraniums - Extra Blue Double

Glorie de France, in separate colors, 100 per 100.

EDWARD LAPPE, - Woodlawn, N. Y. City.

Fellhousen of Schenectady

Has an over-stock of Rooted Cuttings of the following, in the condition, and in shape to raise any or all the trade on or will demand:

- HELIOTROPIS, in variety, 1000 each at once. COLEUS, no end to them, 600 each.

Gaax leaves. CHAS. H. RICKSECKER, Linville, N. C.

ADIANTUM CUNEATUM. STRONG AND BUSHY.

3 in. 60 per 100; 2 1/2 in. 85 per 100; 3 1/2 per 100, Cash with Order.

CHAS. F. BAKER, Utica, N. Y. GERANIUMS, double Grant and others, 50c. Maric Louise Violet Runners, 50c.

FERN and FERN SPORE OF ALL LEADING SORTS.

Ferns, 3/4 in. per pkt.; 1 1/4 per 500. Spores, 2 in., \$1.00 per 100; 3 in., \$1.50 per 100.

EDWARD D. DROWN, Weldon, Pa.

ADIANTUM CUNEATUM. FINE STRONG PLANTS.

Green February, from 3 in. pots, \$5.00 per 100. \$27.50 samples sent by mail on receipt of 100c.

F. L. HART, Bayside, L. I.

FERNS! FERNS!

A fine stock of mixed Ferns, from 2 1/4 in. pots, ready for immediate use.

H. WESTON, Hempstead, N. Y.

Palms & Flowering Plants

Just what YOU WANT! Kaffir, Avocado, Palms, etc.

ANTON SCHULTHEIS, College Point, L. I.

Eucharis Amazonica, a splendid lot for sale at extremely low prices.

ARCIS Lutescens, 4 inch pots, \$25.00 per 100.

AGRESTIS, 5 inch pots, about 12 to 14 inches high, \$12.00 per 100.

JOHN BADER, Allegheny City, Pa.

GALAX and LEOCOTHE

Write the INTRODUCER of these two most beautiful new Decorative Greens for samples and information.

HIGHLANDS NURSERY, Kawana, N. C.

Decorative PLANTS. SPRING DELIVERY

We book orders now; giving extra favorable figures for immediate orders. Cysca Revoluta Stems—Delivery February to May.

Free Tree Stems—Cyrillina and Dicksonias. Have to be ordered in Australia by February latest.

Aspidistra—Green or variegated; leaves cut off. From 5 to 10 young shoots to the clump; to grow on for Summer.

Orchids—From Central America and Mexico. Orders must be in by February 1st. Tree Paeonias—Grand for Easter forcing.

Physalis Franchoetti—Send 25 cts. for picture taken from nature. Price, strong plant, 50 cts. Seed per pkt., 25 cts.

Address all letters to H. H. BERGER & CO., San Francisco, Cal. Established 1878.

Nephrolepis Exaltata Bostoniensis.

In large and small quantities for Spring delivery, from \$40.00 to \$50.00 per 1000.

FRED. C. BECKER, 1730 Cambridge Street, - - - CAMBRIDGE, MASS.

FERNS. Ready to shift from 2 inch pots.

Blechnum occidentale, P. serrulata cristata Desf. P. Albo lineata, P. adiantoides, Adiantum caesatum, P. serrulata, Pteridium aquilinum.

3 1/2 c. FERNS

PTERIS SERRULATA. PTERIS ARGYREA. ADIANTUM PUBESCENS. \$3.50 PER 100. CASH.

ELDMAN A. SEIDENWITZ, 36 W. Lexington St., BALTIMORE, MD.

PALMS! LATANIA BORBONICA.

ELIZABETH THE ELIZABETH NURSERY CO., N. Y. City.

FERNS! FERNS!

Good quality Ferns first quality variety or design, 250 per 100.

A SPECIAL DISCOUNT OF 10 per cent. from last Spring's Wholesale list of Palms, etc., on all cash orders received.

W. J. HENNER, Plattsmouth, Neb.

HARDY CUT FERNS

First Quality. \$1.00 per 1000. Discount on large orders.

L. B. BRAGUE, Hinsdale, Mass.

DEUTZIA GRACILIS.

Extra strong, for Easter forcing, fit for 6 and 7 in. pots, \$12.00 per 100; \$1.50 per doz.

Cyperus Alternifolius Gracilis, from 2 1/2 in. pots, \$3.00 per 100.

Address, JOHN C. EISELE, 20th & Ontario Sts., PHILADELPHIA, PA.

Decorative Plants

ARAUCARIAS PALMS PANDANUS VEGETIUM

All sizes. Write for Prices.

FERNS

JOHN SCOTT, Keap Street Greenhouses, - BROOKLYN, N. Y.

HEADQUARTERS FOR Palms & Decorative Plants

Standard Roses sold out, but another 2000 will arrive February 15. LIST NOW READY.

JULIUS ROEHRNS, Rutherford, N. J.

NEPHROLEPIS EXALTATA BOSTONIENSIS.

THE BOSTON DROOPING FERN.

Plants at \$10, \$15 and \$20 per 100. Potted now will make fine plants for Easter.

\$5 to \$10 per dozen also potted now will make fine decorative plants for Easter.

Orders booked now for June 1st to August delivery, in relation, for from \$50 to \$150 per 100; \$5 to \$15 per 100.

L. H. FOSTER, 48 KING ST., DORCHESTER, MASS.

## QUESTION BOX.

OPEN TO ALL . . . FREE TO ALL

Answers Solicited from Those Who Know.

(26) Green String for Smilax, etc.—In one of your issues was an article about using green string instead of white. I never yet got green string which would not be bleached white at the time of cutting the smilax. Can you recommend a place where I can get string which will not fade?

—We would refer you to John C. Meyer & Co., of 87 Summer st., Boston, Mass., whose ad. of Silkline may be found in this issue. They carry a large stock of this silkline in the different sizes, in green as well as in fancy colors for tying purposes, and are always pleased to furnish samples and prices on application. They claim that silkline will be found superior to any other cord on the market for stringing smilax, asparagus, etc., as well as for general florist work.

(28) Cuttings from Blind vs. Flowering Wood.—A bet B a cutting made from the blind wood equalled that made from flowering wood. What is your decision?—ROSE CUTTING.

—In giving this decision I most decidedly shall give it to A. In my recent notes on propagating I said cuttings from below where a flower had been cut were the ideals, and that good plants also could be got from good blind wood. As a result of an extensive trial I made between these two kinds of wood—flowering versus blind—when the cutting of the flowers commenced, I could not see the least difference in the whole lot; while if the largest and best plant of all was to have been picked out, it would have been in favor of a blind wood cutting. Now I don't want to be misunderstood in this matter, as it may seem curious to some why I should say one week flowering wood cuttings were the ideals, and another that blind wood was equally as good. To this I will say that from the former you are always sure of a good percentage of strong plants, while with the latter, if the utmost care is not

## CORRESPONDENCE.

Insertion will be given in this column to all communications free from animus; but the opinions expressed do not necessarily reflect our own.

## Seedsmen and the Tariff.

Editor Florists' Exchange:

Mr. Allen's letter in last issue reminds me of an anecdote of the late Mr. Henry Ward Beecher. One Friday evening, at the regular prayer meeting, one of the trustees got up and requested the congregation to join with him in thanking, for the wonderful escape he had had. While walking along Nassau street, New York, he said a cask of ice fell from a high building, and struck down a man at his side. Mr. Beecher listened patiently, and then very quietly remarked, "How about the other fellow?" and proceeded to deliver a matchless extemporaneous exhortation saying we were always thinking of the fellow who escapes, rather than the one who is hit.

Mr. Allen is praying for the seed grower, forgetting the other fellow—the farmer. How do you think the farmer. What compensation have they for the

Editor Florists' Exchange:

I would like to say just a word on C. L. Allen's article on "The Tariff." It is very good when you cannot look with one way, but there are always two sides to every question. It is not fair to compete with foreign goods, but he does not say a word against the hordes of cheap help coming over to compete against our laborers. P. S. SPENCER. Conn.

## About Delivery Wagons.

Editor Florists' Exchange:

We were very agreeably surprised to see in last issue of THE EXCHANGE the abstract of one of our latest delivery wagon so nobly executed, accompanied by the explanation, and that it is of some advantage to the craft in general. It costs very little more to have and keep a good tasty tarred for delivery than the common delivery wagons so generally used, and which we consider a detriment to our business, or rather the profession, whereas, a turnout like the one shown in your last issue, not only enables us to deliver flowers and floral designs in better shape, but naturally draws trade and elevates the standing of florists. A. GUDÉ & BAO.

## Freaks of Nature.

Editor Florists' Exchange:

The past year seems to have been prolific in sports in several places in Germany. While roses have appeared on the Mermet Island with the Bride, while in Ireland a yellowish shade appeared. Two shoots of a Marechal Niel rose in Germany produced perfect Gloire de Dijon roses. Now the question is asked: Is the Marechal Niel a sport from Gloire de Dijon, as the origin of this rose was never given. Here, in Baltimore, we have a pure white sport from Maman Coche, and a seedling and cross of Souvenir du President Carnot and Mme. C. Testout has no trace left of any tea blood, but looks like a hybrid perpetual, and has not shown any flowers yet. SENEX.

## American Horticultural Society.

Editor Florists' Exchange.

In your issue of January 16 I note your remarks regarding the newly formed association, the "American Horticultural Society." Having made inquiries regarding the original society here in this name last Spring, I now beg to enclose the reply I then received from its late secretary, Prof. E. A. Popenoe, of Rockwood, Md.

ALEXANDER MACLELLAN, Secy., Newport Harb'r Socy.

Copy of Mr. Popenoe's reply referred to by Mr. Maclellan, is given as under:

MANHATTAN, CAN., April 8, 1896.

DEAR SIR: I think that the horticultural society of which you inquire may be the "American Horticultural Society," which is now so long active, having lacked the funds to continue its publication. Its last meeting was held in Chicago in 1893, and the last publication was of the meeting in California in 1888.

The American Pomological Society, of which Mr. Geo. B. Searl is president, and E. A. Popenoe secretary, is practically the National Horticultural Society, and is properly entitled:

Yours truly,

E. A. POPENOE.

## An Australian Design for the "Fourth."

The accompanying illustration (Fig. 7) shows a design made for the occasion of the celebration of the Fourth of July in the Antipodes, by SEARL & SONS, Florists, of Sydney, New South Wales. It was the subject of several complimentary notices in the horticultural press, and is highly admired by all with a full description of it. "The floral design was of long and festal character, and was composed of the following: 'Tus shield in center of the design was made up of blue and white chrysanthemums, and was encircled with white Marguerites to represent the stars, and the stripes on lower half were made up of blue and white chrysanthemums alternating. The four draped flags were composed of blue cornflowers with white stripes, and were supported underneath the shield is a row of holly berries and white chrysanthemums. The scroll encircles the shield, and is composed of white chrysanthemums, with the words 'E Pluribus Unum,' written in red letters, the whole being a very striking design, that called forth a lot of admiration.'"

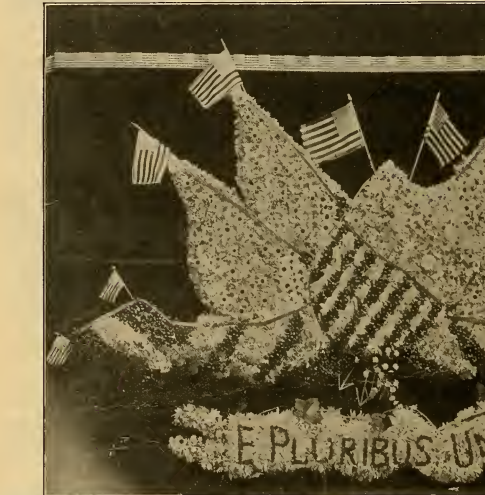


Fig. 7.—Design for "Fourth of July," made by Searl & Sons, Sydney, Australia.

(27) Yellow Queen Chrysanthemum.—Please let me know, through the Question Box, if Yellow Queen chrysanthemum is a sport from White Queen, or if it is a seedling? I have a sport from White Queen, with yellow center, shading to cream at outer edges, and would like to know if that is similar to what is called Yellow Queen.—J. W. A.

Chrysanthemum Yellow Queen is very distinct in foliage and habit, and is undoubtedly a seedling. It was distributed by John N. May, Summit, N. J., Spring of 1893. It certainly is not a sport from The Queen. Mr. May could inform your correspondent, J. W. A., on this point. The only sport from The Queen I know of is Gov. Budd, sent out last season by Donato Bros. It is a light yellow.—ELMER D. SMITH, Secy. Chrysanthemum Society of America.

Yellow Queen chrysanthemum was a seedling of 1891, exhibited in New York at the New York show in 1892, at which show it received a certificate of merit, and was sent out by me in 1894. It is in no way, shape, or form related to The Queen; in fact, the seed from which it was obtained, was sown a year before that which produced The Queen.—JOHN N. MAY.

exercised in selecting the wood, there will be a much larger percentage of weaklings when the time comes to pot them into a 3½-inch pot. It necessarily follows that there will be more anyway. As for the impression some may have, because a cutting is made from blind wood that the plant grown from it will be more liable to grow to blind shoots, is nonsense. I shall try to explain what is the most desirable kind of blind wood to be taken for cuttings. Let us take the Biennial, for instance. When looking over the plants you will find lots of good shoots that have fallen to rest buds, most probably due to the dull weather, and, having ceased growing, are good and solid. This is the right kind, and I am positive is just as good as any. At the bottom of the bushes always will be found wood that was made before they were planted; also was this stuff used was made shortly after. This is the undesirable kind.

Years ago I held the smaller the rose cutting the better, as you did not have so much wood to sustain during rooting time, and I grew good roses then too; but experience has proved that a big one made the largest and strongest plant quicker. It is often necessary to make a blind wood cutting with three eyes, leaving the top leaf and half the second on it. H. H. Central New York.

doubled piece which Mr. Allen says they will pay for their seeds? If you protect the florist from all forms of foreign competition, the gardener from the competition of tropical vegetables and fruits from the West Indies, Bermuda, and Europe, and put a bounty on agricultural products, then I say amend to a prohibitive tariff on seeds; but don't protect the seed grower and let the florist farmer, and gardener to fight his battles alone. If the Government is going into the business of protecting or fostering special industries, like seed growing, let all be treated alike. Shut out tropical Europe, and mix of all kinds, canned goods, flowers, nursery stock, vegetables, English grapes; in fact, everything that is imported, that competes with American growers. Let us all stand on the same level. Don't make fish of one and flesh of the other. Furthermore, if you are going to follow the theory to its logical conclusion, you can stop importing the seed grower in Holland only gets one-half the wages he can get here, he will not be long in finding it out. In short, build a Chinese wall along our coast, and shut up our seaports, then we can advance prices until we are all millionaires, and live on the interest of our investments. Pile on the tariff, but pile it on equitably; let no party man escape. Protect everybody, and make us all rich. EQUITABLE.

## ROSES.

## Fertilizers, Hybrids, Etc.

A good many roses that have been doing their best this season will now begin to need some nourishment, especially those on very shallow benches. The thorough waterings they now get will wash a lot of the nourishment out of the soil, and if the flowers begin to get below the standard it is a slight sign that they need some manure that is, as long as temperature and other details have been carefully attended to.

As it is yet too early to put on a top dressing of manure with prudences, something else must be applied. For years I have made careful experiments with about all the artificial fertilizers and so-called plant foods I know of, and must say they have been anything but satisfactory, some very bad results having occurred from quite a number of them. I can mention a few, using them faithfully according to directions, in some instances I have found even half the quantity advocated to work injury. In most cases a very soft growth, that was washed away by the rain, was the result, and in others they surely killed the young feeding roots, as the plants that I found ceased growing, and lost at least two-thirds of their foliage.

I never got caught and lost a whole bush of roses in quite enough for me to risk. The only exceptions I have found beneficial were nitrate of soda and bone. The last named is an excellent food for the rose, building up a strong and sturdy constitution, while the former acts as a tonic and gives a rich color to the foliage. Some bone is injurious if used too freely—that in which acid has been used is to be avoided, therefore I apply what is called steamed bone. That this process takes some of the virtue out of the bone is, I am convinced, still it makes it safer for use, is much more easily made soluble, and is, therefore, taken up by the plant easier. Bone meal I use in the soil when taken in the house, as it lasts longer than the flour.

The nitrate of soda should not be exposed to the sun for any length of time after it is put on, and should be applied very lightly with fresh loam as soon as possible. There is no doubt in my mind but what nitrate of soda makes a very good food for feeding roses, and that to use in a liquid form at this time of the year is a valuable, alternating with nitrate of soda.

When using such a powerful stimulant as the last named, be careful not to overdo the thing. I use one-half pound to the barrel, and find it quite plenty. In my experience nitrate of soda does not give an animal manure that I have found produces the best results, and how to distribute the manure.

The compost heap is sometimes a source of failure owing to the fact that a quantity of manure, artificial and animal, put into it. In view of the fact that so much has been written about it, I will venture to wonder to me there are still some who do not exercise more common sense than try to grow roses in a compost pile. As it came to my notice a few years ago, where a grower used night soil in the soil, plants that resulted in a total failure. This was probably due to the disinfectants that were in it, as this manure is a good one for the proper use. It is used in quite various health departments it is not allowed to be used in a good many places. For some time past I have used quite a quantity of infectants are used in cattle sheds and care. My advice would be not to procure manure from these sources.

To refer to the compost pile again will not be out of place. My method after placing the manure in the pile, it has been placed about 4 inches deep and stepped it up, a few inches more, and then a second put in the pile from the outside to keep it from sliding. This course I have used for many years, and covered with an open shed is all the better. It will be found very easy to work up in the Spring time, and after the weather has cleared a bottom, and with two handles on each end, this is put about 5 feet from one end of the pile, and a cloth is draped down and broken up it is put into this. When full of it, of course, holds a wagon load. A man at each end lifts up the

frame and puts it to one side for the time being. An 8-inch pot of bone meal is strewn over the top, also a wheelbarrow load of rotted cow manure. The whole is then thrown up together, and is ready for use any time. This may seem extra trouble, but I do not find it so, and furthermore I know exactly what there is in the heap. The carting and taking into the houses mixes it up thoroughly; some soils need more manure than others, and whatever quantity has been found to give the best results, if it is a 5th, 6th, or a wheelbarrow full, it can easily be proportioned to the soil in this way.

By the time you read these notes it will be twelve weeks to Easter. Those who grow hybrids in pots for that trade should now give them their attention, as it generally takes about twelve weeks to get them in nicely. A great deal of the success with these is in proper treatment from the start. They should be put in light boxes and kept cool for about two weeks. A few days over that time, a temperature of 40 degrees nights, 45 to 50 degrees day time being about right. They will soon start to swell their buds, and the temperature should then be raised gradu-

ally and keeping a watchful eye on them generally brings them in all right. Easter Sunday comes late this year, April 18, and at that time of the year it is surprising how quickly the buds open. H. H. Central New York.

## OBITUARY.

William Elliott, seedsman and auctioneer, 54 and 56 Day st., New York City, died at his home, 10 West 71st st., on Saturday morning, January 16, 1897, after a somewhat protracted illness. Dropsy was the immediate cause of death.

The death of Mr. Elliott removes from our midst the last of the old school of seedsman in the East, that linked the past and the present of the industry, men, who by honorable work, indefatigable push, energy and application helped to bring the business to the status it holds to-day; and of the past generation of seedsman we do not believe there was a name more familiarly known, or one that carried with it the reputation of integrity, more than that of William Elliott.

He, at 807 Broadway, where he remained for many years, spent the time in the market garden, and leased a place on Bergen Hill, N. J., but succeeded in losing all the money he had accumulated in attention to farming, and went to Canada for that purpose, but a cursory examination of the advices offered by the late woods proved so unprofitable that he relinquished the idea and returned to New York, and to his first vocation, that of a gardener.

Mr. Elliott had not yet succeeded in finding his professional vocation, when he conceived the idea of becoming a seedsman and, about 1854, bought the establishment of John W. Child, 121 John st. He was then approached by Mr. Isaac H. Young to go into partnership as seedsman with him, who had already the firm name of Young & Elliott, at No. 9 John st.

In 1858 Mr. Elliott added to his seed business that of an auctioneer of plants, which business had previously been carried on by McViney & Young, the former of whom retired when Mr. Elliott started. The first auction sale Mr. Elliott ever held was for Andrew Dryburg, of Philadelphia, Pa. In 1859 Mr. Isaac Young died. The firm left John st. for 12 Cortlandt st., where it was located for 15 years, and finally moving to the present location. After the death of Mr. Young, Mr. Elliott took his two sons, William and Gardner, into partnership with him, and the business has since been conducted under the firm name of Wm. Elliott & Sons.

Mr. Elliott was one of the most popular men in the seed business in New York, and as a plant auctioneer and grower, if we may so call it, he was equally well liked. His manner to those who did not know him seemed at times brusque and exclusive, yet he was really very kind lived. He had the courage of his convictions at all times, and spoke his opinion of business operations without the least fear or favor. He was extremely fond of a joke, and his characteristic Scotch humor was never far from him, and he was never lagging in enlivening the sales and accomplishing the desired object.

Mr. Elliott was a leading member of the old New York Horticultural Society in its prime, a member of the Society of American Florists, and also a member of the Florists' Club. He has left behind him hosts of friends and few, if any, enemies. The funeral took place Monday, January 18, and was largely attended. Many beautiful floral pieces marked the esteem and respect in which he was held by his fellow workers. The interment was in the family plot at Woodlawn Cemetery.

His widow and two daughters were before mentioned.

Albert T. Jackson.

Albert T. Jackson, florist, died at his home at Bowmanville, Chicago, Ill., on Thursday, January 15, 1897. He was born at the Garrison, old Fort Dearborn, Chicago, August 30, 1811, and had been a resident of the city since his birth. He served his country as soldier in the war of the rebellion, and at the close of the war was captured by the rebels in 1862, when he returned to his home in Chicago. He had since been engaged in flower growing, and was well and favorably known by his old residents of Bowmanville. Deceased was a member of Grand Post No. 32, at Chicago, and of the widow and two sons, Harry E. Jackson and Albert T. Jackson, Jr.

## THE LATE WILLIAM ELLIOTT.

ally 3 or 4 degrees a week until the desired temperature is reached, and then to 55 degrees nights, and 62 to 65 degrees full days; 75 degrees with sun-burns. Plenty of syringing is needed to make them break good. When they begin to grow it often happens more buds than are needed break out; the plants should be gone over and the superfluous buds rubbed off, leaving from six to ten on each plant, or whatever number you deem best. When they are growing well and have got into their high temperature, very liberal feedings with manure water will be found beneficial. Keep them free from green fly, red spider, etc. Golg over them once every two weeks, resetting them and turning them around, picking out the smaller ones that will be weakened by some that have grown stronger, setting them together and also allowing them enough room, will bring about the results desired. If they are growing well and the sun fades the color in some varieties, such as Magna Charta, and it pays for the last few days to shade just enough to keep the direct rays off them. They are not very easy plants to bring in just in the nick of time, but by studying the weather

Mr. Elliott came of a race of gardeners, his father, grandfather and great grandfather having been in the business. He was born on October 10, 1829, at the village of Crailing, near Jedburgh, Roxburghshire, Scotland. After having received an elementary school education he was apprenticed at the work of Miato's gunnery, near his home. His apprenticeship over, he went to Wallington, near Newcastle, England, where he was employed as gun-dealer to Sir John Trevelyan, then as foreman for four years at Ripley Castle, Yorkshire, and then as foreman at the factory of Sir Wm. Ingley, leaving which he worked for several years in the north of England, and afterwards with John & C. Lee for two years, at their nursery at Hammersmith, a suburb of London.

He then returned to Scotland, where he engaged in the sale of fruit at wholesale. This venture proving unsatisfactory he returned to his first occupation as gardener, being employed at various places in the neighborhood of Liverpool. In 1851, on the advice of an old friend, he came to the United States. On his arrival he readily secured employment with the late Andrew

## CARNATION MME. ALBERTINI.

Carnation Mme. Albertini.—A great deal has been said in the last few years about large carnations, and we remember reading some years ago a statement made by one of our correspondents, who had carnation the "queen of flowers," and that before many years we would have single buds and 3 inches in diameter. We think the time has come; as may, as far as Mme. Diaz Albertini is concerned, and we well and favorably known by his old residents of Bowmanville. Deceased was a member of Grand Post No. 32, at Chicago, and of the widow and two sons, Harry E. Jackson and Albert T. Jackson, Jr.

(The blooms were very large, somewhat off color, and rather weak in the stem.)  
It was carried out by our correspondent's conception of John Thorne's ideal carnation—was to measure "four" inches in diameter.—Ed.)



Boston.

Market Notes. The flower trade in this city is under an uncertain and far from satisfactory condition...

There has been no change in the prices of carnations and white roses... The condition of trade has not changed during the past week...

Mr. HOLLIS WEBSTER, of Cambridge, delivered a lecture before the Massachusetts Horticultural Society on Saturday...

The annual dinner of the Boston Gardeners and Florists' Club, is announced to occur at the American Hotel...

Philadelphia. The monthly meeting on Tuesday last was a great success...

At the business meeting of the Society, Sidney W. Keith was elected a vice-president...

The condition of trade has not changed during the past week. Flowers have not been so plentiful...

Carnations have not been so plentiful, and the price of fancy flowers is much larger...

from \$1 to \$1.50 per dozen. Bulbous stock of all kinds is in poor demand...

Club. A team of twelve went out to Northampton on Wednesday last to collect specimens with the Penn Club...

Baltimore.

Carnations this year are not the sellers they were last season. Roses are offering their own. Violets are often a dead issue...

PHILIP WELSH has opened a store on Linden avenue. His well-known energy will no doubt insure him a successful success.

Mr. BOAR, of Edwards & Ducker, Philadelphia, was in town...

Buffalo.

The weather in this city has been remarkably pleasant for Winter time...

Trade in general is between moderate or rather slow and normal; occasional carnations being in demand...

Stock continues plentiful all around, carnations being the rather larger supply...

Daniel B. Long visited Uta and Syracuse Mr. and Mrs. J. H. Restock are sojourning in New York City...

Recent visitors were A. L. Vaughan, Chicago; J. Austin Shaw, New York; Charles J. White, New York...

Cincinnati.

During the past week trade has been quiet and prices flat. Bride and Bridegroom are one variety...

Indianapolis.

The Society of Indiana florists held its annual meeting on January 14 last. Treasurer J. T. Huntington reported sufficient funds to meet all obligations...

Officers were elected for the ensuing year as follows: President, J. S. Stewart; Secretary, John Herrick...

Index to Advertisements.

Table listing various florists and their advertisements, including sections for Agapanthus, Amaryllids, Anemones, and various types of flowers.

Large table listing florists and their advertisements, including sections for Carnations, Chrysanthemums, and various types of flowers.

## CARNATIONS.

## American Carnation Society.

The program for the sixth annual meeting of this Society has just been issued. The meeting will be held in the Gibson Hotel, Cincinnati, Ohio, on February 19 and 20, 1907.

An exhibition will be held in College Hall, opposite the place of meeting and access is free of same.

All exhibits should be ready by 10 A. M., Thursday, February 18. Those from distance are to be forwarded (express prepaid) to College Hall, Cincinnati, Ohio, and marked care of Wm. Murphy. Mr. Murphy will have full charge of the exhibition, and intending exhibitors should apply to him at once for space, addressing mail to Station F, Price Hill, Cincinnati, Ohio.

The following rules regarding exhibits will be enforced:

1st. All entries must be forwarded to the secretary, Albert M. Herr, Lancaster, Pa., at least ten days before the meeting.

2d. All entries not tagged by 11 A. M., February 18, will be disqualified.

3d. All those who are not members of the Society must be introduced by one of its members for exhibiting in any of the classes.

4th. All exhibits must have the varieties correctly labeled, and give the name of the grower's or exhibitor's name and address with every exhibit—this card not to be larger than 4x2 inches.

Regulations governing the competition of seedlings for the "Certificate of Merit" will be as follows:

1st. The variety must have been bloomed three years.

2d. Not less than fifty blooms must be shown.

3d. At least one plant must accompany the exhibit; this plant to be taken from the bench or bed in which stock is growing.

4th. All exhibitors entering for this certificate are required to pay an entrance fee of \$5 for each variety so entered. This fee must be made in the case of those that were entered in the two-year class at last exhibition in New York; and \$2.50 for those that were entered in this exhibition, and compete for the Certificate of Merit, upon the payment of \$5 for each variety.

Special attention is called to the following: Two-year old seedlings can be entered for competition for a premium certificate, by exhibiting 25 blooms. Payment of \$5 for each variety so entered will be required. This year's entries and varieties entered to compete for the regular certificate at the next exhibition upon the payment of \$5.

The scale of points will be used as follows:

Color.....	20
Size.....	15
Only.....	15
Substance.....	10
Form.....	10
From.....	10
Plant.....	10

There is but one class for general premiums, and that remains of variety. Section will be the dividing line between light and dark pink; a light pink must be as light as a dark pink, and vice versa. The same is to be darker than Scott's Wonder.

First and third prizes, of the value of \$10, \$5 and \$5, respectively, for the best vase each of 100 blooms white, light pink, dark pink, carnation, crimson, yellow variegated, and white variegated, and premiums of \$5, \$10 and \$5 for best display of 500 blooms, assorted variety and quality to be considered in judging.

In addition to the special premiums enumerated on page 10 of the V. J. H. of the EXCHANGE, the following are offered:

C. Hancock & Son, Grand Haven, Mich., \$5 for the best 100 white on exhibition.

E. Hippard, Youngstown, Ohio, offers one standard ventilator apparatus (value \$25) for the best 100 white on exhibition.

Ed. W. Weimar, Mount Vernon, N. Y., offers \$10 for the best seedling, any color, not yet named, and of any variety, not less than six blooms to be shown.

Mr. W. J. Schumier, of Avondale, Pa., on the carnation, from the taking of the certificate for the best 100 white on exhibition. H. Weber, of Oakland, Mo., will take leave from that point until its usefulness has expired. This will be a most abundant of time for general discussion, and every one should come prepared to ask a question or tell something of their own experience with carnations in general, varieties, diseases, markets, and kindred subjects.

Any suggestions or questions can be sent to the secretary, up to February 13, after

that date they will be too late for the meeting.

The secretary Herr adds: "Our lamented president has done noble work for which this Society and to be making the coming year's meeting a fitting memorial to him in a more befitting manner than by making this the most successful meeting ever held by the Society."

Copies of the program may be obtained from the secretary, Albert M. Herr, Lancaster, Pa.

## Rust and Useless Remedies.

I have on several occasions stated in the EXCHANGE that I would not take the subject of an article in these columns. What I will have to say so far as regards its treatment and cure, is based entirely upon my personal knowledge and experience with this fungus, for the disease evidently belongs to that class.

Its origin is somewhat in doubt. The opinion seems to be general that it is not native to the country, but was imported. Just when, is not known; however, this is of little importance at this time, as it would not materially aid in our efforts to combat the trouble. Several years had elapsed before its evil results began to be felt, and it was not until 1892 that I was unable to check it with the various remedies then used, soon made it a matter of course to make a study of the disease, seeing that all such remedies proved of no avail, and of extermination seemed to be the only course to take.

To this end a compact was formed among the principal growers in the vicinity of New York; this was as near as I can judge, about ten years ago, perhaps a little more or less.

I believe, was to destroy every plant on their premises which showed any trace of rust, and to propagate only such as were free from it.

This effort was published in the trade papers and signed by the several parties concerned. Doubtless many other growers not members of this compact adopted the same tactics, in the hope of freeing their stock from the disease.

It is interesting to note that in the most dreaded of cases the carnation had yet developed. Those having the least knowledge of cure, at the time, were the most successful.

But with all the stringent measures taken to stamp it out, it still held on with a vengeance, and it was not until the same manner, was actual experience in this has proven to us, particularly with varieties of the "Dwarf" group.

This last resort then being of no avail, it was looked upon as a hopeless task to expect through this method the accomplishment of the desired result, and as a matter of course, the agreement entered into by members of the compact, ceased to be binding.

Although we were aware of the futility of the effort made by others to eradicate the evil by this was of extermination, yet I felt that I would give it a trial, and covered rust on our place, we pursued the same tactics as they did in the hope of giving the disease a chance to get the best of it.

It is needless to say, however, that in our endeavors to exterminate rust in this manner we met with the same results as did all others who employed similar methods; and we, and they through successive years, to look upon it as an evil which had to be put down.

Following close upon the failure to eradicate rust in the manner mentioned came the recommendation of various mixtures in liquid form to be used as a wash or spray. Some were claimed to be a positive cure while others, it was stated, would materially check its progress. I consequently reported, also a number of instances where the plants, after the use of the different mixtures produced a decided check to the spread of the disease. I believe that this was the only success in checking its progress were the result, partially, better attention given the plants, and from atmospheric conditions.

The culture to produce continued cures in the above manner, bears me out in the assertion that the disease is not a cure, but a check to its progress were the result, partially, better attention given the plants, and from atmospheric conditions.

It is now more than six years since we discarded spraying as of no practical benefit, if whatever in the cure of this and other diseases to which the carnation is subject.

The general trend of opinion among growers everywhere is the same. Here and there two methods of combating rust, the one by the use of the above long list of failures stands a monument to the ineffectiveness of the same.

The above is history; my object in repeating it here is to bring more forcibly to the reader's mind, the nature of the attempt to cure rust by either method. Next week I will endeavor to explain, to the best of my ability, the nature of the disease and the conditions which are most conducive to its development and spread.

H. WEBER.

and the general trend of opinion among growers everywhere is the same. Here and there two methods of combating rust, the one by the use of the above long list of failures stands a monument to the ineffectiveness of the same.

The above is history; my object in repeating it here is to bring more forcibly to the reader's mind, the nature of the attempt to cure rust by either method. Next week I will endeavor to explain, to the best of my ability, the nature of the disease and the conditions which are most conducive to its development and spread.

H. WEBER.

## CARNATIONS ANNIE FOX AND... MRS. ANNIE H. LONSDALE.

Are being advertised a few miles south of us by parties who never purchased any of the original stock, we would therefore advise all parties to get their stock from reliable parties or from us, the originators.

MYERS & SAMTMAN, WYNDMOOR, CHESTNUT HILL, PHILA. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

## SEEDLING CARNATIONS FOR 1897.

CAPT. KING. Variegated White and Pink, an early and continuous bloomer, very fragrant and a good variety, stems extra long and stiff, an exceedingly attractive and profitable variety.

JOSEPH JEFFERSON. color resembles Top, Cartilage, much larger flower.

Send For Wholesale List of New and Standard Carnations. Best Strong and Healthy. NO RUST.

C. J. PENNOCK, The Pines, KENNETT SQUARE, PA. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

## New Yellow Carnation MAYOR INGREE.

Without doubt the best YELLOW CARNATION in commerce to-day. Order booked and filled in greatest. Delivery March 1st, 1897.

\$1.50 per doz.; \$10.00 per 100; \$75.00 per 1000.

DECEMBER 14, 1893, Certificate at Cincinnati Meeting. Only two varieties. FEBRUARY 13, 1895, Certificate at New York American Carnation Society Meeting. Only two varieties.

CRAIG SILVER CUP, Philadelphia, Pa. COMPLIMENTARY NOTICE, Boston, Mass. HONORABLE MENTION, Louis, Mo. CERTIFICATE, Indianapolis, Ind. CERTIFICATE, Chicago, Ill.

Young plants, KATE WASHBURN and VOIRE ROSE 'MUMS, \$1.00 per dozen; \$6.00 per 100. March Delivery. JOHN BREITMEYER & SONS, MIAMI and GRIFFIN Aves., DETROIT, MICH. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

## Herr's Carnations.

Guaranteed to reach you safely and to satisfactory. Express paid on all orders for one thousand or more.

Unlimited quantities and reasonable prices. McGowan, Alaska, Storking, Jay, Daybreak, Scott, Wave, Fortia, Dorner, Buttercup, Helen Keller, and many others.

Triumph, Abundance, Della Fox, Jubilee, Armistead, Ivory, Annie Lonisdale, Crimson Sport, and Eldorado.

Other varieties from other growers; send for prices; also same as \$5.00 per 100. GERANIUMS—1000-date holders and pot varieties, best lot ready middle of February. Double General Grant, good plants at \$1.00 per 100 for orders of not less than 150. \$5.00 per 1000.

DOUBLE PICTURA, CATERPILLAR, and many others. Double Fringed blooms, white, striped, etc. \$1.00 per 100; \$5.00 per 1000.

ALBERT M. HERR, L. Box 496, Lancaster, Pa. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

## GEO. HANCOCK &amp; SON, CARNATIONS.

GRAND HAVEN, MICHIGAN. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

## CARNATION CUTTINGS.

Strong and well rooted, of the following varieties: Jubilee, Triumph, Armistead, Alaska, Bridemaid, Dean, Hope, Goldfink, Lizzie McGowan, Mrs. Albertini, Motor, Peachbloss, Rose Queen, Silver Spray, Wm. Scott, Uncle John.

PRIMULAS, 2 1/2 inch, \$2.00 per 100.

Send for list and prices on large lots.

Logan Ave. Greenhouses, - Danville, IN. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

Business is Good. Thanks to advertising in the Florists' Exchange. BROOKLYN, N. Y., Sept. 18, 1896. F. ZIEGLER.

ROOTED CUTTINGS from selected flower  
seeds only. Carnations, Scott, McGowan, and best leading varieties  
now ready. Also *Viola Swanley*, Campbell,  
Carr, Peach Blow, etc. plants and runners. Prices cheaply  
given. No Root or other disease.  
ROSEY BROS., Florida, WEST GROVE, FLA.  
WHEN WRITING MENTION THE FLORIST'S EXCHANGE

...2000...  
Healthy, Extra Strong and Well Rooted  
CUTTINGS OF MCGOWAN

At \$5.00 per 1000. For strong plants next Fall  
send rooted cuttings of McGowan are necessary.  
Also strong bulbs of DOUBLE PEARL  
TUBEROSE, No. 4, at \$7.00 per 1000. No. 1, a good  
flowering bulb, at \$1.00 per 1000. Address  
CHAS. BLACK, Hightstown, N. J.  
WHEN WRITING MENTION THE FLORIST'S EXCHANGE

CARNATION AND COLEUS CUTTINGS.

Strong, well-rooted cuttings of the following  
varieties from root. Scott, Fortia and Mc-  
Gowan, \$1.50 per 100. Alaska, Rose Queen, Storm  
King, Peach Blow, Helen Keller, Minnie Cook, Lizzie  
Gilbert and Meteor, \$1.00 per 100. Delta Fox,  
Queen and Queen's Star, \$1.00 per 100.  
Geraniopsis, 5c. 1/2 lb. pot. \$1.00 per 100.  
Orders to order by. Vercellotti and Golden B  
order, \$1.00 per 100. Cash or satisfactory reference.  
GEO. M. EMMANS, Newton, N. J.  
WHEN WRITING MENTION THE FLORIST'S EXCHANGE

MINNIE COOK!

Largest stock in the country of this finest  
of variegated carnations. Strong, healthy,  
rooted cuttings, ready middle of January.  
Have also other varieties, including Storm  
King, Delta Fox, Bridemann, Scott, etc.

WRITE FOR PRICES.  
Meadow View Greenhouses, PARLISBURT, N. J.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

CARNATIONS

*Viola* and *Alyssum*.

Taken from healthy stock; well rooted.

Send for Trade List.

E. J. CLOUD, Lock Box 32, Avondale, Pa.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

The New Scarlet Carnation

will be disseminated March 1, 1897. Get your orders  
in now. \$1.00 per 100, \$10.00 per 1000,  
\$75.00 per 10000.

HOPP & LEMKE, East Grand  
Rapids, Mich.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

CARNATIONS

ROOTED CUTTINGS

of the leading varieties, clean, healthy stock.  
Positively no root. Send for price list.

WM. SWAYNE, Kennett Square, Pa.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

ELDORADO

The finest Yellow Carnation in cultivation.  
Rooted cuttings, \$2.00 per 100; \$15.00 per 1000.

LADY CAMPBELL VIOLETS.—Rooted runners,  
\$5.00 per 100; \$35.00 per 1000.

GIANT DOUBLE ALYSSUM.—\$2.00 per 100; \$8.00  
per 1000.

Write for Circular.

W. R. SHELMIER, Avondale, Pa.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

CARNATIONS Daybreak, Scott, Tidal  
Wave, N. Sparta, Glad  
McGowan, Fortia, \$1.50 per  
100, \$12.50 per 1000.

Thus, Carleider, Robinson, Rose Queen,  
Lizzie Gilbert, \$1.00 per 100; \$10.00 per 1000.

VIOLETS  
Luzanne, \$1.00 per 100; \$10.00 per 1000.  
Admiral, Aveline, \$1.00 per 100.

JOSEPH RERNARD, Unionville, Chester  
Co., Pa.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

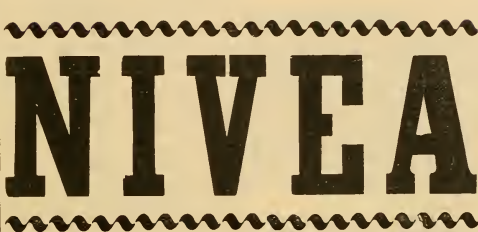
Rooted Cuttings...  
CARNATIONS... CLEAN and HEALTHY

McGowan, Scott, Partian, Meteor, Ereos, Dar-  
brook, \$1.00 per 100; \$8.00 per 1000. Jubilee, \$3.00 per 100,  
Dean Lion, \$1.00 per 100.

PRESEN. CARNATION ROSE. Good strong rooted  
plants from 1 to 1000 ready Feb. 15, \$1.00 per 100.  
W. W. COLES Let me figure on what you need.  
Maple Hill Rose Farm, OKOKO, IND.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

THE BEST COMMERCIAL  
WHITE CARNATION  
ON THE MARKET.



NO RUST. NO BACTERIA.  
CLEAN AND HEALTHY.  
A FREE BLOOMER. A READY SELLER.

Side by side for two seasons and under the same  
treatment Nivea has proved itself more floriferous  
than Scott.

The flower is large, clear white, with extra strong  
calyx, and has a long, stiff, wiry stem.

The plant is of open, erect growth, and when  
planted 9 inches apart each way they receive plenty  
of light and air.

The stock has never been exposed to rust, nor has  
it ever shown any signs of bacteria.

The originator, Mr. H. A. Cook, Shrewsbury,  
Mass., has a large stock of Nivea, and it has never  
been overpropagated.

It has all the necessary qualifications of a stand-  
ard commercial white carnation:

SELLS WELL.  
KEEPS WELL.  
SHIPS WELL.

The undersigned have handled the entire output  
of cut blooms of Nivea, and they have sold readily  
at an advance over other white carnations in the  
Boston market.

ROOTED CUTTINGS  
READY FOR DELIVERY  
MARCH 1st.  
Per 100, \$10  
Per 500, \$35  
Per 1000, \$60

WELCH BROS.

SOLE AGENTS,  
CITY HALL FLOWER MARKET,  
NO. 115 PROVINCE STREET,  
BOSTON, MASS.

DORNER'S  
NEW CORNATIONS  
...FOR 1897...

MRS. CHAS. H. DUHME (Seedling  
1893) Color  
lively delicate pink, large flower, fragrant,  
with good calyx on strong stiff stem. Plant  
vigorous, erect grower, a very early, free  
and constant bloomer. Much more so than  
any of the light pink varieties, rivaling in  
productiveness with Scott. This or comes  
to be the best of the light pink commercial  
varieties. Certified at Indianapolis and  
Philadelphia. We have grown this variety  
now for five years and it is indispensable at  
our place.

MRS. GEO. M. BRADT (Seedling  
1893) Color  
clear white, heavily edged and striped with  
bright scarlet, giving it a very bright and  
cheerful appearance. Flowers large and  
full, with center petals standing erect, giv-  
ing the bloom a well rounded form. Calyx  
resembling Mme. Albertini. Habit strong  
and vigorous. This variety is now in its  
fourth year and has proved the most even  
and constant bloomer from early to late.  
We received for these flowers the highest  
prices paid in the market. Received gold  
medal at Atlanta, certificate at same place  
and at Chicago.

C. A. DANA Delicate shell pink, vigorous  
wiry grower. Medium to  
large flowers on strong, stiff, wiry stems,  
color soft and exceptionally pleasing.  
Flower a splendid keeper. One of the most  
attractive colors in pink carnations. Six 6  
limited.

Rooted cuttings ready March 1, 1897.  
\$10.00 per 100; \$75.00 per 1000.  
Plants from soil at same price four weeks  
later.

F. DORNER & SONS CO.  
LA FAYETTE, IND.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

Carnations, Etc.

All the best Novelties of 1897,  
and the cream of standard  
varieties, in the very best  
condition . . . . .

Look out for our Wholesale  
List, which will appear shortly  
in the Florists' Exchange.

H. WEBER & SONS,  
Box 67, Floral Park OAKLAND, Md.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

NOW READY

50,000 Healthy, Well Rooted  
Carnation Cuttings

Of the Following Varieties:

William Scott, Lizzie McGowan, Tidal  
Wave, Fortia, at \$1.50 per 100, \$10.00 per  
1000.

Daybreak, Anna Webb, J. J. Harrison,  
Bridemann, Dale Albertini, Alaska,  
Lizzie Gilbert, Robinson, and Jarcinetum, at  
\$1.00 per 100, \$15.00 per 1000.

The Rose Queen, at \$1.00 per 100, or  
\$20.00 per 1000.

By mail 10 cents per 10 additional. Cash with  
orders from unknown correspondents.

James Horan & Son, Bridgeport, Conn.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

Carnations.

Healthy, well-rooted cuttings. Buttercup,  
Eldorado, Helen Keller, Scott, McGowan,  
Lola C. Hester, Diana White, Fortia, Car-  
ledge, Anna Webb, Kitty Clover, Hawaii,  
Tidal Wave. Send for prices. No root.

Rooted cuttings. No nearly bugs.  
Coteus. 75 varieties, ready Feb. 1. 70c per  
100, by mail, \$5.00 per 1000, by express.

Strobilanthes Dyerianus.  
Rooted cuttings, \$1.00 per 100, by mail.

Giant Double Alyssum. Rooted cut-  
tings, \$1.00 per 100, by mail; \$5.00 per 1000, by express.

Lady Campbell Violets. Rooted run-  
ners, \$1.00 per 100, by mail; \$4.00 per 1000, by express.

WM. H. SCOTT, Avondale, Chester Co., Pa.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

# Famous Carnation and Dela Fox

## GERANIUMS.

Extra fine double varieties, Grant, S. J. Nat. La Favorite and others at \$2 per pot; \$3 per pot out of 10 in pots.  
 12-Large double varieties, \$3.00 per set.  
 Ivy Geranium, \$2.00 per set.  
 The Favourite violet plants, true and perfectly healthy, in pots, \$3.00 per set; \$2.50 per set.

Geo. H. Benedict, Yorkville, N. Y.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## GERANIUMS!

**ROOTED CUTTINGS.**  
 Brunet, Le Pilote, S. A. Nutt, White Swan. Named, extra fine, \$1.50 per lot; \$15.00 per 100.  
**Pyrethrum.** Little Gem, per 100, \$1.50. Cash with order.

WM. J. CHINICK, Trenton, N. J.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## CELEBS.

Here is your chance! Red Versachell and Golden Healer, the leaders, for \$2.00 per pot, strong, well rooted cuttings. Mixed choice varieties, at \$1.00 per pot. Cash with order, or on call with order balance C.

CHAS. L. MARSHALL, Lowell, Mass.  
 67 MERRIMAC STREET.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## DELA FOX

**25,000 Rooted Cuttings**  
 of choice and new varieties.  
 Plants Now Ready. See for Price List, de Voecht & de Wilde, Wilmington, Del.

## BALTIMORE

A New Pink Carnation. Color of Craig, large, tight, fragrant; stiff stem, good keeper. Ready January 25. Rooted Cuttings, \$1.50 per doz.; \$15.00 per 100.

CONRAD HESS,  
 329 Friendship Ave., BALTIMORE, MD.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## ROOTED CUTTINGS.

### CARNATIONS.

50,000 Scott	1.00 per 100
50,000 McGowan	1.00
50,000 Daybreak	1.25
10,000 Storm King	1.25
10,000 Portland	1.10
10,000 T. Ward	1.10
10,000 Anna Webb	1.10
10,000 Mrs. Fisher	1.10
5,000 Meteor	1.25
5,000 Eldorado	3.00

EDW. J. FAYOUD,  
 Wholesale Carnation Grower,  
 Cash or Reference. BOSTHOTT, CONN.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## Providence.

The Market.  
 During the past week business has shown a slight improvement over that of last week. The weather has been very soft recently, but growers have been being a drop in temperature of 42 degrees in 24 hours. Carnations still hold the market, while being more plentiful than for the fortnight previous. A few Dela Fox are being brought in, but they do not show the perfection that was expected of this variety. Eldorado is thought well of, and what few have come in find ready sale. The demand for violets is not so brisk as it has been, although few are left over. Roses sell well on sight; Bride and Bridesmaid at \$2 per dozen; Erie and Wootton \$1.50; Bon Silens, 75c. to \$1. Yellow tulips and Narcissus appeared the past week and sold well at \$1 per dozen. Jettiss.

A slight blaze Tuesday night occasioned small damage to the greenhouse and contents belonging to CHARLES T. WRIGHT, 307 Washington St.

FRANCIS CASSEY, assistant at the Rhode Island Greenhouse, Pawtucket, has severed his connection therewith.

WILLIAM MAXFIELD has recently put in a sleeve-section report at his greenhouses at Barrington. During a recent cold snap his boilers gave out, and it was only by kindling log fires in between his benches that he succeeded in saving his crop of carnations. He is now bringing in some fine stock.

JOHNSTON BROS. have removed from 214 Union st. to better quarters at 82 Westminister st. They report an increase in business since their removal.

ROBERT HOGG is expected home about the 23rd inst from a three months' trip to England and Scotland.

WILLIAM LEWIS SMITH, a well-known veteran nurseryman, died the 13th inst. at his home in Warwick, R. I., aged 80 years.

W. H. MASON.

**Tobacco-Oil Kills Aphids** IF IT FAILS  
**\$25.00 REWARD**  
 Will be paid to any person securing a good position to a good gardener. (Gentlemen's place.) Address: C. D. G. Co., de Florists' Exchange.

**WANTED.**  
 A first-class orchid grower; must have the best of reference; state wages. Address  
 J. T., care Florists' Exchange.

**WANTED TO RENT**  
 For a term of years; greenhouses in some large town where all that is raised is sold at home. Everything must be in first-class running condition; would take place about May 30, 1900. As I make business of my own, please to receive particulars in full. Address  
 Goodman, care Florists' Exchange.

**Should be grown by everybody.** The past season may have taught all growers that the high-grade Carnations are the only ones that were profitable, and Dela Fox stands above them all for size, color and stems. Rooted cuttings now ready.  
 MYERS & SAMTMAN, Wyandocor, Chestnut Hill, Phila.

## Greenhouses, Stores Etc.

**\$500 CASH**  
 Will buy half interest in good paying florist business established ten years. Experience not necessary. Apply to  
 Mrs. Hulcomb, Florist, Jacksonville, Fla.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**FOR SALE** In immediate neighborhood of New York, a greenhouse, house, etc., a smaller greenhouse, all well stocked; dwelling 7 rooms; stable, all in best repair, grounds over one acre. Price, \$500, half cash, inquire G. Kriebel, 671 Hoover St., New York.

**FOR SALE.**  
 Country place, about three acres, 55 miles from New York, very desirable for gardener and flower grower; substantially renovated; direct line of railroad adjoining station; houses large, arched porch for two families; heated and furnished; 2500 sq. feet of violets, carnations or vegetables, with hot bed for two families; good water supply; also an excellent productive garden, spring water under pressure. For particulars, apply to  
 Henry S. Conkelt, 24 Court St., Brooklyn, N. Y.

**FOR RENT**  
 The greenhouses and ground of the late David Pierce, deceased, at Burlington, N. J., well stocked; plants will be sold at a good figure. A rare opportunity is offered to a good florist to acquire a nice established business. Apply to MARY E. PIERCE and GEORGE A. ALLISON, Executors, Burlington, N. J.

**TO LEASE.**  
 On account of owner going abroad for a number of years the John Henderson Co., proprietors of a residential tract of property at Flushing, L. I., consisting of 62,500 square feet of glass and iron area, find, three dwelling houses, stables, horse, wash, etc., for a term of years. For all particulars apply to  
 JOHN HENDERSON Co., Flushing, N. Y.

**FOR SALE.**  
 Old established Retail Florist Shop with Greenhouse at the rear; located on one of the busiest thoroughfares in Brooklyn. A thriving trade all through the year. Furniture of the best, complete present owner's reason for selling. Apply  
 A. H. LANGHAR, Wholesale Florist, 10 Borona Place, Brooklyn.

**FOR SALE**  
 A long established florist business on Broadway, near 32d Street. Good fixtures, etc. Apply to  
 J. FLEISCHMAN, Cor. Broadway and 25th St., New York.

**RARE CHANCE.**  
**DEATH OF THE CAUSE.** Great success; must be sold at once to close estate of a florist; two very delicate fine strains of the most popular of our three strains; only one block from London; total weight of the lot about 75 lbs. and worth of a crop of 10,000 inhabitants; situated on the Hudson River, within easy reach of New York city; this is an opportunity of a lifetime to engage in business. Easy terms for further particulars. Address, C. O. Florists' Exchange.

**SITUATIONS WANTED.**  
 Rate, 10 cents per line (8 words), each insertion. Will attend to advertisements and will not hold back on advertisements. Will be addressed in our care and 10 cents to cover expense of forwarding.  
**SITUATION WANTED** by good all around Florist, Trustworthy and reliable, single, references. Address Pennsylvania, care of Florists' Exchange.  
**SITUATION WANTED** as stenographer, by a young woman with a practical knowledge of the florist business. References. Address Pennsylvania, care of Florists' Exchange.  
**SITUATION WANTED** by experienced greenhouse assistant in Queens, N. Y., with one year's experience. Thoroughly reliable, wages \$25 and board. Ill. care Florida, care of Florists' Exchange.  
**SITUATION WANTED** by an experienced florist, to single, good references as to ability and character. Address So. care Florida, care of Florists' Exchange.  
**SITUATION WANTED** by young man, age 21, 7 years experience in roses and carnations. Please state wages. For further particulars, care of Florist street, Jersey City, N. J.  
**WANTED** situation as foreman or head gardener, of a greenhouse in Queens, N. Y., with one year's first-class experience. Address Grower, care of Florists' Exchange.  
**17** Young married man, to take charge of private or commercial place; thoroughly experienced. For further particulars, please state address. Gardener, 344, Herald, Harlem Branch, St. Brooklyn, N. Y.  
**SITUATION WANTED** as foreman in small commercial place, by Swedish, 25, with 10 years experience in cut roses, propagating and general stock, A. J. references. Dahlberg, 96 Washington St., Brooklyn, N. Y.  
**SITUATION WANTED** by a young married man as a gardener, in private or commercial place. If reference in cut roses, propagating and general. Please state full particulars and wages. Fred. R. Sumner, N. J.  
**SITUATION WANTED** by first-class grower of roses, carnations, violets, palms, ferns and the general stock of a greenhouse. Six years experience; age 36; married; no family; English. Best of references. For particulars, apply to J. M. J. S. Draker, 789, 9th Ave., N. Y. City, care of Florists' Exchange.  
**GERMAN GARDENER**, single, with 12 years' experience in all kinds of flowers, carnations, etc., to take charge; wages a position. Address Y., Florida, care of Florists' Exchange.  
**SITUATION WANTED** by a first-class, all-around S. man, 22 years' experience in all branches; roses first-class; giving all vegetables grower. Ill. M. J. E. 938 St., New York.  
**YOUNG** Scotchman wishes situation in greenhouse in the greenhouse; 10 years' experience; highly recommended. Please state terms. F. J., 161 East 34th Street, New York.

**ASSISTANT.** Young man seeks situation as assistant on the greenhouse; 10 years' experience; highly recommended. Please state terms. F. J., 161 East 34th Street, New York.

**FOREMAN.**  
 A successful rose grower and general florist wants to make a change from present position as foreman of a greenhouse. Six years' experience; service of an experienced commercial florist; 10 years' experience in cut roses, etc.; offers a permanent position with good pay, will please address, please state terms, to  
 New York, care Florists' Exchange.

**John Harrison's White Sport**  
 from Wm. Scott.  
**Harrison's White.** A snow white sport from Wm. Scott, being a very bright and good variety. Probably the ideal white commercial carnation. Every florist should try it. \$2 per doz.; \$10 per 100; \$70 per 1000.  
**FRED. DORNER'S GEO. M. BRADT.** (Seedling 1893). Color: clear white, heavily edged and striped with light scarlet, being a very bright and good appearance. Flowers large and full, with center petals standing straight giving a very good effect. Cultures resembling Wm. Albertini. Habit strong and vigorous. This variety is now in the hands of the grower, a permanent blooming in the early to late.  
 Received Gold Medal at Atlanta. Certificate at same place and at Chicago. \$2.50 per doz.; \$10 per 100; \$75 per 1000.

Say  
**Master**  
 There's  
 Money  
 in this for  
 you



E. G. HILL'S Flora Hill. Received N. C. S. Certificate January, 1896. Gross moderately heavy. Very fine and healthy in growth, with very few, if any, buds; moderately stiff stem, enormous flower. The largest and the most striking of the most striking of the good flowers throughout the entire season; not subject to rot. \$2.50 per doz.; \$12.00 per 100; \$100 per 1000.

**FRED. DORNER'S C. A. BARK.** Delicate shell pink. A cross of Scott on Uncle John. Vigorous, strong in habit; medium to large in size, on stiff stems; color very soft and exceptionally pleasing; flower a splendid variety, one of the most attractive pink carnations. \$12 per 100.

**FRED. DORNER'S Mrs. CHAS. H. DUBHE.** (Seedling 1895). Moderately heavy, with a strong, fragrant, with good style on stiff stem. Plant vigorous, erect grower, a very early bloomer and constant bloomer, much more so than any of the light pink varieties, rivaling in productivity with Scott. This promises to be the best of the light pink commercial varieties.

Certificate at Indianapolis and Philadelphia. \$2.50 per doz.; \$10 per 100; \$75 per 1000.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**THE COTTAGE GARDENS, Queens, N. Y.**  
 C. W. WARD, Manager.

# FORCE

Per Crown:	Per 100.
Illas, different vars.	\$40 00
Staphylea ciliolata	50 00
Deutzia gracilis	12 00
Snowball, Japanese	35 00
opulus fl. pl.	30 00
Amygdalus	30 00
Weigela, different vars.	35 00
Wistaria	75 00
Roses, H. P. and others.	8 00
in form	30 00
Mountain Laurels	75 00
Clematis in var.	20 00
extra heavy	30 00
English Yews	15 00
Bleeding Hearts	5 00
Tree Peonies	60 00
Harly Azaleas, Rhododendron, Hydrangea paniculata, holly and standard, etc.	

L. C. BOBBINK, Rutherford, N. J.

Branch Horticultural Co., Boskone, Holland.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

400,000 Pansy Plants \$2.00 per 500; \$3.00 per 1000.

100,000 Carnations Rooted Cuttings, no rest, \$1.25 per 100; \$1.00 per 1,000.

WANTED IN EXCHANGE. 100 Cattans, 2 in.; 50 Anzalas, 12 in. heads; 500 Cannas, dry roots, 500 Flowering and Rex Begonias, 2 in.; and 200 Fancy Coleas, 5 in.

Trade List of Novelties... MORRIS FLORAL CO., Morris, Ill.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## 10,000 COLEUS

Rooted cuttings, Vershaefelti Golden Bred and 25 other sorts, 75 cts per 100, by mail; \$5.00 per box of 5000.

4000 HELIOTROPE—Rooted cuttings, 12 best sorts, labeled, \$1.00 per 100, postpaid; \$1.25 per 1000.

20,000 VERBENA CULTIVA—30 improved varieties, no rest or millage, strong, well rooted and thrifty, labeled true, 75 cents per 100, postpaid; \$6.00 per 500, by express.

8000 EMPRESS OF CHINA, well-rooted cuttings—The new everblooming hardy apple blossom pink CLIMBING ROSE, immensely popular rose for the retail trade, \$1.00 per 100, by mail, postpaid; \$17.50 per 1000, by express.

SATISFACTION GUARANTEED.

A. B. DAVIS & SONS (Near Washington, D. C.) PURCELLVILLE, Va.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## DOUBLE PETUNIAS.

The Best on the market. Over 60 named varieties. Last season our orders were in excess of my expectations that I was three or four weeks late in delivering, and to the hurry perhaps some orders were sent out before being properly packed, and I think I have ample stock to fill all orders with strong well rooted plants without delay.

50 varieties including Pink Beauty and Defender, per 100. \$1.25 in new varieties, per 100, \$1.50.

PETUNIA GRANDIFLORA. Raising this plant from seed is unsatisfactory that I now propagate them from cuttings. I have the stock of selected double flowered plants, many showers of color, and some of the best, ready for shipment, separately per 100, \$1.50.

Crossed with 21 choice double and single flowered varieties. \$1.50 per 100.

Abutilons, white, scarlet, yellow, and red, \$1.50 per 100.

Heliotropes, 4 varieties, \$1.50 per 100.

Ageratum, extra strong, \$1.50 per 100.

Leptolaena, \$1.50 per 100.

Begonias in variety, \$1.50 per 100.

Impatiens, \$1.50 per 100.

Cupress, Clear Plant, \$1.50 per 100.

Compositae, cap and anther plants, 3 inch in diam., 2 inch pots, \$1.50 per 100.

With order, please.

GEORGE J. HUGHES, Berlin, N. J.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## SPECIALTIES FOR THE TRADE.

Magnolia Fracata, stocky and well branched,	Inches. 100	\$15-15	\$12 00
Olea Fragrana,	"	12-15	12 00
Oranges and Lemons, best vars.,	"	10-12	25 00
grafted on Trifolium, bushy,	"	15-20	15 00
Oranges, Otahete, bushy,	"	15-20	30 00
"	"	15-20	15 00
Marshall Nil Rose, strong field grown, budded on Magnet, 5-4 feet.,	"	\$125-50	15 00
Marshall Nil Rose, strong field grown, on over roots, 18-24 inches.,	"	\$100-60	100 100
Supperi, Favis and Mignonette Roses, on over roots,	"	7-10	7 00
Ficus Elastic.,	"	10-20	20 00
Blota Acres, Yucca,	"	10-20	12 00
Lantana Herbaceous, 4 pots.,	"	12-15	15 00
2-3 leaves oblong character, 12-14 inch Pandanus Ullia, 4 in. pots.,	"	12	20 00
Phlox Caroliniana, and Reelia nana, 8 in. pots.,	"	12	12 00
Phlox Racine, Louisiana, and Sylvestra, well formed, 4 in. pots, 12-15 inches, very fine, 4 in.,	"	15-20	40 00
Packing at cost. Above rates do not apply to less than 50 of a sort. Send for trade list. Address			

P. J. BERCKMANS, Augusta, Ga.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## GIANTIC ORNAMENTAL DAISY

(Chrysanthemum frutescens giganteum) Individual flowers of this superb variety measure 2 1/2 inches in diameter. Was awarded first-class Certificate by New Jersey Floricultural Society, November, 10th, 1886. Ready for distribution March 1st, 1897. Price in 2 inch pots, \$3. 2 1/2 inch pots, \$4.00.

ARRETT & ROSE, 200 West Side City, Jersey City, N. J.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## P. OUWERKERK, VERBENA KING

1123 Summit Ave., Jersey City, N. J.

Just received from our Holland Nurseries:

- RHODODENDRONS, AZALEAS,
- SPIRÆA JAPONICA, LILIUUM PEUCIPIUM,
- PÆONIES, BLEEDING HEART,
- POT GROW LILACS, HYDRANGEA IN SORTS.
- CLEMATIS and H. P. ROSES, in the best sorts

PRICES MODERATE.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## LITTLE BEAUTY FUCHSIA.

The best seller ever introduced. Has no equal as a money maker; begins to bloom profusely in February. Strong plants from 2 1/2 in. pots, \$5.00 per 100.

GERANIUMS. Silver Cloud, McManis, Happy Thought, 2 1/2 in. pots, \$4.00 per 100. Mrs. Pollock, from 2 1/2 in. pots, \$4.00 per 100. La Favorite, the only good white, 2 1/2 in. pots, \$4.00 per 100.

BEGONIAS. Rex, C. L. Erdody, 2 1/2 in. pots, \$7.00 per 100. In variety, 2 1/2 in. pots, \$5.00 per 100. The goods are all ready to ship into 3 and 4 in. pots. Strictly cash with order.

LINCOLN I. NEFF, FLORIST, 4010 Butler St., PITTSBURG, PA.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

500,000 Rooted Verbena Cuttings, the finest varieties in cultivation, true to name, 60 cts. per 100; \$50 per 1000; \$500 for \$25.00; 10,000 for \$45.00, express prepaid. No Rest or Millage. Satisfaction guaranteed in every way. We are THE LARGEST VERBENA GROWERS IN THE WORLD.

C. HUMFELD, Clay Center, Kansas.

SEND FOR LIST.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## ORDER ROOTED CUTTINGS.

Per 100 Per doz.	\$2.00
REX BEGONIA,	2 00
MRS. POLLOCK GERANIUM,	2 00
GERANIUMS, Double White, Red, Pink, S. A. Nutt.,	\$15 00 per doz.
GERANIUMS, mixed,	15 50 100
VIOLETS	8 00 100
ALPINE ANTHEMIS,	7 50 100
HELIOTROPE,	12 50 100
SWEET ALYSSUM,	1 00
VINCA VAR.,	15 50 100
SALVIA,	10 00 1 25
LEMON VERBENA,	12 50 100
COLEUS,	8 00 100
MILAX, 2 1/2 in. pots, strong,	2 50
REX BEGONIA, 2 1/2 in. pots,	4 00
BEGONIA, LOUIS CLOSSO,	2 50
VINCA VAR.,	\$4.00, \$3.00, \$1.00, \$1.50 per doz.

Write for prices on other Rooted Cuttings.

Terms, Cash or O. O. D.

GREENE & UNDERHILL, Waterford, N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# DREER'S SPECIAL OFFER OF SEASONABLE STOCK

DOUBLE PETUNIAS. Our stock of these is too well known to require special description; it offers good healthy plants from 3-inch pots, \$1.25 per doz.; \$3.00 per 100, or set of 15 varieties for \$1.20.

TUBEROUS ROOTED BEGONIAS. Now is the time to plant for early flowering; the strain is the same as has been sent out by us for several seasons, the best that can be procured. We offer Singles in choicest mixtures, \$2.00 per 100; \$24.00 per 1000. Singles in separate colors as scarlet, crimson, white, yellow, orange and rose, \$3.00 per 100; \$25.00 per 1000. Doubles in choicest mixture, \$3.00 per 100; \$25.00 per 1000. Doubles in separate colors as scarlet, white, rose, yellow, \$3.25 per doz.; \$25.00 per 1000.

GLOXINIAS. A most select strain of the Crasifolia type in the mixture, \$4.00 per 100; \$30.00 per 1000.

SPECIAL VALUE IN YOUNG PALMS. Having an immense stock of young plants of the following sizes we are enabled to supply them at a better value than ever; intending purchasers will not miss it by laying in a supply at once.

KENTIA BELMOREANA. 2 1/2-inch pots, \$2.00 per doz.; \$15.00 per 100; \$140.00 per 1000. 3 " " " 3.00 " 25.00 " 240.00 " 4 " " " 4.00 " 40.00 " 300.00 "

KENTIA FORSTERIANA. 2 1/2-inch pots, \$1.50 per doz.; \$10.00 per 100; \$80.00 per 1000. 3 " " " 2.00 " 15.00 " 120.00 " 4 " " " 2.50 " 20.00 " 160.00 "

LATANIA BORBONICA. 2 1/2-inch pots, \$7.75 per doz.; \$50.00 per 100; \$400.00 per 1000. 3 " " " 1.25 " 10.00 " 80.00 " 4 " " " 2.00 " 25.00 " 200.00 "

We are as usual carrying an immense stock of the usual decorative sizes, a full description of which will be found in our current Trade List.

OR RARE PLANTS. Japanese Iris.—A collection of 21 of the choicest Krumper varieties in cultivation, imported from Japan, \$1.50 per doz.; \$10.00 per 100; set of 24 for \$25.00.

New Sword Fern, Nephrolepis Cordata Compacta.—A new and beautiful fern, one of our best for many years, and the most desirable sword fern in cultivation. 3-inch pots, \$2.00 per doz.; \$15.00 per 100.

New Red Spider Anthony Waterer.—One year old plants, \$1.00 per doz.; \$10.00 per 100.

New Redbeckia Golden Glow.—Good divided crowns, \$1.00 per doz.; \$8.00 per 100.

New Petargonium Dorothy.—A very choice variety, 2 1/2-inch pots, 30 cts. each; \$25.00 per doz.

Fuchsia Triphylla Hybrida.—Entirely distinct, a variety that is sure to please. 20 cts. each; \$2.00 per doz.

New Red Spider Anthony Waterer.—One year old plants, \$1.00 per doz.; \$10.00 per 100.

New Redbeckia Golden Glow.—Good divided crowns, \$1.00 per doz.; \$8.00 per 100.

New Petargonium Dorothy.—A very choice variety, 2 1/2-inch pots, 30 cts. each; \$25.00 per doz.

Fuchsia Triphylla Hybrida.—Entirely distinct, a variety that is sure to please. 20 cts. each; \$2.00 per doz.

New Red Spider Anthony Waterer.—One year old plants, \$1.00 per doz.; \$10.00 per 100.

New Redbeckia Golden Glow.—Good divided crowns, \$1.00 per doz.; \$8.00 per 100.

New Petargonium Dorothy.—A very choice variety, 2 1/2-inch pots, 30 cts. each; \$25.00 per doz.

Fuchsia Triphylla Hybrida.—Entirely distinct, a variety that is sure to please. 20 cts. each; \$2.00 per doz.

HENRY A. DREER, 714 Chestnut Street, PHILADELPHIA, PA.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE



FUCHSIA TRIPHYLLA HYBRIDA.

St. Louis.

Club Notes.

The first regular meeting of the Florists' Club this year was very gratifying, about thirty members being present.

Trade Notes.

Trade was very slow the last week and stock very abundant.

Settings.

ELLIOTT & ULAM had a fine display of orchid blooms in their window last week, which attracted the passer-by.

Toronto.

Trade continues fair with stock still plentiful and prices about the same as last week.

Horticultural Society.

The annual meeting of the Horticultural Society was held in the City Hall, January 13.

Wrought Iron Pipe, Valves, Cocks, Fittings, etc.

WM. H. KAY, 42 Dey St., New York.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

FOR GREENHOUSES, CONSERVATORIES, GRAPERIES, HOTBEDS AND FLOWERS FOR USE GENERALLY, AT LOWEST RATES.

L. HERRIS & SON, 497 W. Broadway, New York, 39 Liberty St., New York, 401 Hudson and Bleeker Sts.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Acknowledged superior to all other materials used for similar purposes.

FOR TYING BUDS AND BRACKETS THOMAS MEEHAN & SONS, Germantown, Pa.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Standard Flower Pots.

Sand for our New Price List with extra discounts. All our Pots, from 7 in. and upwards, have our Patent Elliott Bottom, which is a great advantage, as it insures perfect drainage.

THE WHILLDIN POTTERY CO., 713 to 719 Wharton Street, Philadelphia.

BRANCH HOUSES: 1 Keweenaw and Westside Aves., Jersey City, N. J.; Jackson Ave. and Pearson St., New Ireland City, N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

We are Manufacturing a Full Line of

STANDARD FLOWER POTS AND HANGING BASKETS

OF THE BEST QUALITY.

Shipping Facilities. First-class, Thoroughly Securing Lowest Freight Rates.

Our goods are well packed, and breakage minimal. Give us a trial. Send for Price List.

Address THE SYRACUSE POTTERY CO., 403 N. SALINA ST., SYRACUSE, N. Y.

ton, second vice-president; C. Chambers, secretary-treasurer; directors, J. Chambers, Dr. J. O. Orr, A. H. Ewing, E. Cromisind, Mr. Merrill, W. V. C. Deaves, Dr. McC. Queen and C. McP. Rosa. Dr. Orr and T. Manton were selected as representatives of the Society...

THOS. MANTON.

Washington.

The floral work in the decorations for the Inaugural Ball has been awarded by the executive committee of the inauguration committee to Messrs. J. H. Small & Sons.

A florist here has a nice lot of the Carnot rose and of planting out time will have in the neighborhood of 2000 plants. He came into possession of a plant when it was offered by some northern nurserymen last Spring.

Brooklyn, N. Y.

Trade here has been extremely quiet since the holidays, and although the supply of flowers coming in is not large, there is sufficient for all demands.

G. W. CRAWBUCK has moved into the store formerly run by J. Austin Shaw, at the corner of 17th and 18th streets, New York.

PETER MALLOS, Court st., who has been laid up for a couple of weeks with sore eyes, is now around again.

Club Notes.

The smoker of the St. Louis Florists' Club was "pulled off" in the red room of Mercantile Club last Thursday afternoon, in the presence of all that it was a success.

President Kucz delivered the opening address, and in his ready words delivered address it was. Fleckenstein started the ball rolling with a song, and then followed by an address by Mr. Jordan, who gave the florists some sound advice.

The attendance was large. President Kucz presided, and Mr. Johnson, Tesson, Sanders, and Wm. Young to serve as committees for this year's chrysanthemum show.

Wholesale Market.

There were several large decorations here last week, in which considerable cheap work, but trade generally was very quiet.

Carnations are in over-supply. There was heavy demand for good quality for decoration the latter part of the week, but the supply was so excessive that values declined to 10c per 100.

At a meeting of the Kentucky Society of Florists, held January 5, the following officers were elected for the coming ensuing year: C. H. Kunzmann, president; J. E. Marret, vice-president; Joe Coenen, secretary; John Thompson, recording secretary; John Thompson, treasurer.

Jeremiah E. Long is reported to be insolvent.

Green Fire. BUY IT. TRY IT.

HOT BED

Sash

Tenons white-lined. Corners secured with iron dovetails. Every detail of construction perfect. Made of Clear Cypress Lumber.

Quick Shipments.

We have in stock and can ship immediately the following sizes: 3 in. x 6 ft., 3 rows 10 in. glass; 3 ft. 3 in. x 6 ft., 3 " 8 in. " 4 in. x 6 ft., 5 " 8 in. "

Delivered Prices

Quoted on application. State size and quantity wanted. No order too small to receive careful attention, and none too large for our facilities.

LOCKLAND LUMBER CO., Lockland, Ohio

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

STANDARD POTS.

We are now ready to supply a superior quality of Pots in unlimited quantities. Catalogues and price lists furnished on application.

A. H. HEWS & CO., NORTH CAMBRIDGE, - MASS.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Standard Pots MADE BY...

Good Railroad Facilities KELLER BROS. For Shipping - Special Rates - Given - Free of Charge - to Mail Orders - Norristown, - Pa.

Price Lists Furnished on Application. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

STANDARD FLOWER POTS

In any quantity, and of the best quality.

Get my price list before ordering elsewhere.

W. H. ERNEST, Station M, N. E., WASHINGTON, D. C.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

STANDARD FLOWER POTS.

Our Speciality is ready packed crates of Florists' Standard Pots, large stock of which we keep on hand, shipped to all parts of the United States.

16 per cent. off for cash with order P. O. B. Sent for free. Send for price list. Prices vary. (checked) send. J. H. K. B. Co. 120 W. 4th St. New York City. Address: 120 W. 4th St. New York City.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

When Answering an Advertisement kindly state you saw it in

THE FLORISTS' EXCHANGE.

This is a weekly publication for florists. It contains the latest news in the floriculture business, and is a valuable source of information to all those engaged in the raising and growing of flowers.

Subscription price, \$1.00 per annum in advance. Single copies, 10 cents. Address: THE FLORISTS' EXCHANGE, 120 W. 4th St., New York City.

82

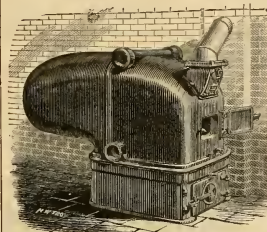
**LORD & BURNHAM CO.,**  
**HORTICULTURAL ARCHITECTS AND BUILDERS,**  
**STEAM AND HOT WATER HEATING ENGINEERS.**  
 Plans and Estimates furnished on application.



Largest Builders of Greenhouse Structures. Six Medal Awards at the World's Fair.  
 Send four cents postage for Illustrated Catalogue.

**LORD & BURNHAM CO.,**  
 ARCHITECTURAL OFFICE, 160 FIFTH AVE., COR. 21st STREET, NEW YORK.  
 Factory: Irvington-on-Hudson, New York.

**GREENHOUSE HEATING AND VENTILATING,**  
 Horticultural Architecture and Building.



Mention paper.

SEND 4c. POSTAGE FOR ILLUSTRATED CATALOGUE.

**Hitchings & Co**

ESTABLISHED 1844.  
 233 Mercer Street, NEW YORK  
**FIVE PATTERNS OF BOILERS.**  
 NINETEEN SIZES.  
 Perfect Sash Raising Apparatus.  
 Rosehouses, Greenhouses, Etc., of Iron  
 Frame Construction erected complete or  
 the Structural Iron Work ship-  
 ped ready for erection.  
 Iron Frame Boilers with the  
 "Perfect Drainage Bench Tile"  
 or Slate Tops.

**EVERY FLORIST OUGHT TO INSURE HIS GLASS AGAINST THIEF.**

For particulars address  
**JOHN C. ENLEK, 907 1/2, Middle River, N. J.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

**Evans' Improved Challenge.**  
 Roller bearing, self-collaring device, automatically shifts with change, makes use of IMPROVED CHALLENGER the most perfect apparatus in the market.  
 Write for catalogue and price before placing your orders else where.  
**Quaker City Machine Co.,**  
 RICHMOND, IND.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**GLASS!** For Greenhouses, Conservatories, Graperies, Hotbeds and all other purposes, at Lowest Rates.  
**N. COWEN'S SON** 392 & 394 West Broadway, New York.  
 Formerly 124 and 126 No. Fifth Avenue.  
 Get our Figures before buying Glass. \* \* \* Estimates Freely Given.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CALIFORNIA RED CEDAR**  
 Never Decays.  
**A. DIETSCH & CO.** 619 Sheffield Avenue, CHICAGO.  
 MANUFACTURERS OF  
 RED CEDAR AND CYPRESS GREENHOUSE MATERIAL.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

SEND FOR OUR NEW CATALOGUE, WHICH SHOWS  
**The New Automatic Cable Ventilator**  
 As it is put up in the house complete. We also give you prices with a guarantee that each machine sent will operate your house successfully. Soil machines saw made in two sizes.  
**A. Q. WOLF & BRO.,** Dayton, Ohio.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**MASTICA**

For Glazing Greenhouses. A substitute for putty. Superior in every way. **MASTICA** and **MASTICA GLAZING MACHINES** were given Highest Award of S. A. F. at Pittsburg. Address for circular,  
**F. D. PIERCE CO.,** 170 Fulton St., N. Y.  
 Sole Manufacturers.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**VALVES, FITTINGS AND VENTILATING APPARATUS.**  
**COLDWELL WILCOX CO.,**  
 Newburgh, N. Y.  
 Mention paper.

**CYPRESS GREENHOUSE MATERIAL**  
**JOHN C. MONINGER CO.**  
 412 to 422 HAWTHORNE AV. CHICAGO, ILL.  
 SEND FOR CATALOGUE.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**STANDARD VENTILATING MACHINE.**  
 NONE EQUAL IT IN Strength AND Durability  
 NOTHING Flimsy OR Complicated about it.  
**E. HIPPARD, YOUNGSTOWN, OHIO.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**IF YOU WANT WATER FOR Home, Farm or Ranch**  
 The DELAMATER-ROSEN and DELAMATER-ERICKSON Hot-Air Pumping Engines will positively give satisfaction. Any other method of securing a supply of water, such as by rams, steam pumps, hand pumps and wind mills, does not give entire satisfaction, and Hot-Air Pumping Engines possess advantages over all of them. They will pump water from any source and send it wherever needed—in the house, barn, stable, dairy or garden—and to any height and distance. They are safe and economical and will burn any kind of fuel. A scarcity of water is impossible. Send for catalogue.  
**THE DELAMATER IRON WORKS,**  
 467 WEST BROADWAY, N. Y. CITY.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**The Right Cypress for Greenhouse Material.**  
 Have you heard of Cypress Greenhouse Material that has not been satisfactory? If you have it does not follow that Cypress is not the best lumber to use. There is White Cypress, Yellow Cypress and Red Cypress; there is Cypress that grows on the high lands and Cypress that grows in the swamps.  
 All of these different kinds are not suitable for greenhouse purposes. Do you know which kind is best and do you know that kind when you see it? If not you would better buy from those that do know and will deliver exactly what they sell. We introduced Cypress for greenhouse construction and pushed it to the front. We know all about it. For fifteen years we have made a specialty of furnishing it, and during this time we have built up a reputation that we cannot afford to jeopardize. We send out the best only.  
**Lockland Lumber Co.,**  
 LOCKLAND, O.  
 Write for Circulars or Estimates.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**SCOLLAY'S IMPROVED PUTTY BULB.**  
 For Glazing Sash, Etc.,  
 —ALSO THE—  
**PATENT PLANT SPRINKLER**  
 For sale by your Stationer, or sent post-paid for \$1.00.  
**JOHN A. SCOLLAY,**  
 74 1/2 Myrtle Ave., BROOKLYN, N. Y.  
 39 1/2 Centre St., NEW YORK.  
 SEND STAMP FOR CATALOGUE  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**IF YOU WANT A GOOD SASH LIFT**  
 For a Very Little Money Get  
**THE 'NEW DEPARTURE' VENTILATING APPLIANCE.**  
 For Descriptive Catalogue Send to  
**J. D. CARMODY, Evansville, Ind.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Modern Greenhouse Heating.**  
 One of our boilers, 10,880 feet of two inch pipe, and six tons of coal will heat 23,400 feet of glass (four 20x200 feet double glass houses) to 65 degrees in coldest Winter weather; they have done it, and will do it for you—we guarantee it. Our boilers are not only the best of their kind, but the best made. They have the largest "firebrick" direct surface, are the easiest cleaned, handled and set up; and from engineering facts, they are the ideal frictionless, economical water heating boilers of our day.  
**Plenty's Horticultural Works,**  
 148-156 Randolph Ave.,  
 JERSEY CITY, N. J.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Cut - Flower - Commission - Dealers.

J. K. ALLEN, Wholesale Commission Dealer in CUT FLOWERS, 57 W. 28th St., New York.

FORD BROS. WHOLESALE FLORISTS, 111 West 30th Street, NEW YORK.

WM. H. CUNTER, Wholesale Florist, VIOLETS and CARNATIONS A SPECIALTY.

MICHAEL A. HART, Wholesale & Commission Florist, 118 W. 30th St., New York.

H. A. HOFFMANN, Wholesale Florist, 54 W. 28th St., NEW YORK.

EDWARD C. HORAN, WHOLESALE • FLORIST, No. 34 W. 29th St., New York.

JULIUS LANG, Formerly with Theo. Roehrs, Wholesale Florist, 53 WEST 30th ST., NEW YORK.

FRANK HILLANG, Wholesale Commission Dealer ...in Cut Flowers..., 408 East 34th St., New York City.

THE NEW YORK CUT FLOWER CO., 119-121 West 23d Street, 112-114 West 24th Street, NEW YORK.

W. E. LYNCH, Wholesale Dealer in Cut Flowers. We are Headquarters for FINEST CARNATIONS and ROSES, VIOLETS, VALLEY, ROMANS, SMILAX, ADIANTUM.

BASSETT & WASHBURN, Growers and Wholesale Dealers in CUT FLOWERS. We grow the finest of American Beauties and other Roses.

WHOLESALE CUT FLOWERS. Price list for various flower varieties including Carnations, Roses, and Violets.

Table with columns: NAMES and VARIETIES, NEW YORK, BOSTON, PHILADELPHIA, CHICAGO, ST. LOUIS. Lists prices for various flower types like Beauty, No. 1, Bennett, etc.

For Prices of Fancy and Special Stock see our Correspondence Columns. Prices are for quantities of one hundred or more.

REINBERG BROS., Wholesale Growers of Cut Flowers. 500,000 Feet of Glass. We can fill all orders on short notice with all leading varieties of ROSES and CARNATIONS.

SAMUEL S. PENNOCK, WHOLESALE FLORIST. FINE LONG KAYSERIN Extra Good Flowers, \$6 per 100. NIPHETOS \$2.50, extra fine.

KENNICOTT BROS. COMPANY, Wholesale - Cut - Flowers, 88 Washab Avenue, CHICAGO, ILL. WIRE WORK A SPECIALTY.

CHARLES W. McKELLAR, 59 Washab Ave., CHICAGO, Wholesale Commission Florist.

Cut - Flower - Commission - Dealers.

PURDY & BLAUVELT, Wholesale and Commission Dealers in CUT FLOWERS.

A. & F. ROLKER, WHOLESALE DEALERS IN CUT FLOWERS, 53 West 28th St., NEW YORK.

W. F. SHERIDAN, Wholesale Commission Dealer in CUT FLOWERS, 39 West 25th St., New York.

FRANK H. TRAVENEL, CHARLES SCRENK, TRADELY & SCRENK, Wholesale Florists, 38 W. 28th St., and CUT FLOWER EXCHANGE, NEW YORK.

JOHN YOUNG, Wholesale Florist, 51 WEST 28th ST., NEW YORK.

WM. J. BAKER, Wholesale Florist, 1432 So. Penn Square, Philadelphia, Pa.

EDWARD REID, Wholesale Florist, Finest Varieties, Roses, Carnations, Violets and Chrysanthenums. No. 40 South Sixth Street, Local and Long Distance Phone, Philadelphia.

DUMONT & CO., WHOLESALE FLORISTS, GARNATIONS A SPECIALTY. No. 1305 Filbert St., Philadelpia.

ROGERS PARK FLORAL CO., Wholesale Growers of Cut Flowers, OFFICE and SALESROOM, 41 WABASH AVE., CHICAGO.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**WHOLESALE FLORISTS**

*S. P. Wharthy & Co.*  
 JOBBERS IN FLORISTS' SUPPLIES. BRIDES  
 GARDENERS, Florists, Umbrella  
 Bands, and Florists' Vases a  
 Specialty. Horticultural Appliances. Always on hand.  
 84 HAWLEY STREET, BOSTON, MASS.

**GEORGE MULLEN,**  
 Wholesale and Commission Florist.  
**Cut Flowers.**  
 Best stock and lowest prices. Orders by mail,  
 express, telephone, or by freight  
 promptly attended to.  
 GEORGE MULLEN, 18 Chapman Place, Boston.

**GEO. A. SUTHERLAND,**  
 Successor to WM. A. STEWART,  
**CUT FLOWERS and FLORISTS' SUPPLIES**  
 WHOLESALE.  
 67 Bromfield St., Boston, Mass.

**City Hall Cut Flower Market**  
**WELCH BROS., Props.**  
 Regular Customers Given Space Free  
 of Charge. Space Let to growers wishing  
 to sell their own goods.  
 Flowers Shipped to All Ports.  
**...SEND FOR PRICE LIST...**

**HEADQUARTERS**  
 In Western New York.  
 TRY US  
**ROSES, CARNATIONS, AND VIOLETS.**  
**WM. F. KASTING** Wholesale  
 1495 Washington Street, Commission  
 BUFFALO, N. Y. Florist.

**W. ELLISON,**  
**Wholesale Cut Flowers,**  
 Florist Supplies. Wire Designs.  
 2744 Franklin Ave., ST. LOUIS, MO.

**CHAS. G. FLECKENSTEIN,**  
**Wholesale Flowers,**  
 1923 PINE STREET,  
 ... ST. LOUIS, MO.

**C. A. KUEHN,**  
 Successor to ELLISON & KUEHN,  
**WHOLESALE FLORIST,**  
 1192 Pine St., St. Louis, Mo.  
 A COMPLETE LINE OF WIRE DESIGNS.

**C. W. WORS,**  
**Wholesale Florist,**  
 313 N. LEFFINGWELL AVENUE,  
 ST. LOUIS, MO.  
 FINE ROSES—Shipped carefully to all  
 parts of the country.

**A Profitable Convenience**  
 THE FLORISTS' INTERNATIONAL TELEGRAPH  
 ORDERING ASSOCIATION. A reliable and up-to-  
 date Florist in ANY CITY BY ANY CITY for  
 correspondent. For particulars, apply to  
**C. B. WHITNALL, Box 87,**  
**MILWAUKEE, WIS.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**TOBACCO STEMS**

75 Cts. per 100 lbs.  
 (Sales weight about 40 lbs.)  
 THE BEST AND STRONGEST BEST OF PREMIUM,  
 BUT OLD SMOKED BY STEVENS. For sale by the  
 H. A. Storoboff, 315 Madison Ave., N. Y.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**ASPARAGUS PLUMOSUS MANUS,**  
 Cut Strings, 8 to 10 feet long  
 50 cents each.  
 Shipped to any part of the  
 country.  
**W. H. ELLIOTT,** - Brighton,  
 Mass.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**"GOODS WELL BOUGHT**  
**ARE HALF SOLD."**

Goods well shown, too, are "half sold."  
 The way to show goods (in effect) when  
 taking orders, is by: use of a set of

**LONG'S**  
**Florists' Photos**  
 Are you equipped, or supplied as  
 your business demands that you  
 should be. For details, apply to  
**DAN'L B. LONG, Publisher, BUFFALO.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**COMPLETE LINE OF SUPPLIES**  
**WIRE WORK**  
 ALWAYS  
 IN HAND  
 FINE STOCK  
 -YOUTH FLOWERS  
**ELLIS & POLLWORTH**  
 MILWAUKEE WIS.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**MEYER GREEN SILKALINE.**  
 Used for Dyeing SMILAX and ASPARAGUS.



Will not fade, or rot like other dyes. Made also in fancy  
 colors for tying purposes. Send for samples and prices.  
**JOHN C. MEYER & CO.,**  
 87 Summer Street, BOSTON, MASS., U. S. A.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**THE JOHN J. PETERS COMPANY**

**PULVERIZED**  
 A Quick Germinator  
 and Crop Forcer.  
**FACTORY:**  
 Little Ferry, New Jersey.  
**OFFICE:**  
 Long Island City, New York.  
**NATURAL. ODORLESS**

**SHEEP FERTILIZER**  
**COMPRESSED**  
 Beats Every Chemical  
 Fertilizer on Earth.  
 Pure Sheep Fertilizer  
 permanently improves  
 the soil.  
 Matures the largest and  
 best crops. Quick and  
 lasting in its action.  
**CLEAN TO HANDLE.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Have Your Collections Made**  
 —BY THE—  
**NATIONAL BOARD OF TRADE.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE  
**SUMMER IN WINTER**  
 By Using  
**Standard Greenhouse Boilers**  
 One cent gets our Catalogue.  
**GIBLIN & CO.,** - Utica, N. Y.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**THE BEST**  
 FOR ALL  
 Florists.  
**ROSE LEAF EXTRACT**  
 FOR SALE BY  
 Sent Direct.  
 For Price  
 Pamphlet,  
 Write to  
 ALL  
 LOUISVILLE  
 SWEET CURED  
 TOBACCO CO.  
 Louisville, Ky.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**M. RICE & CO.,**  
 Importers and Manufacturers of  
**FLORISTS' SUPPLIES,**  
 25 N. 4th St., Philadelphia, Pa.  
 NEW FALL CATALOGUE NOW READY.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**BEEDE & KELLER**  
 MANUFACTURERS OF  
 FLORISTS' WIRE DESIGNS  
 129 W. 25th St. NEW YORK

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

It costs 6 cents for each 600 feet of floor space.

**Kill AND SAVE the BUGS!**  
 Does not injure the most sensitive plants. Endorsed  
**Nikoteen**  
 by prominent florists. Used for fumigation or spraying  
 indoors or out. 300 pounds of tobacco in one pint of  
 Nikoteen. Sold by wholesale. Circular free. REARCTA  
 DIV. CO., CHICAGO.  
**Quickly Does It.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**JOHN CONLEY & SON,**  
 MANUFACTURERS OF  
**TIN FOIL,**  
 2 and 4 Dominick Street,  
 NEW YORK.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CUT SMILAX**  
 10 cts. per String.  
 THE NATIONAL PLANT CO.  
 DAYTON, O.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Carnations = Cut Blooms**  
 Of all Leading Varieties, \$1.50 per 100,  
 Short White, \$1.00 per 100.  
 Special prices on large quantities.  
**Smilax—No. 1 at 15 cents.**  
**EVENDEN BROS.,** Williamsport, Pa.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**E. G. HILL & CO.,**  
 Wholesale Florists,  
 RICHMOND, INDIANA.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CHOCOLATE COOLER CO.,**  
 GRAND RAPIDS, MICH.  
 Manufacturers of  
**FLORIST'S REFRIGERATORS.**  
 Send for Circular.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**BOSTON LETTERS.**  
 Best and Cheapest in the Market.  
 1 1/2 and 2 inch. . . . . \$2.00 per 100.  
 Best Script Letter in the World, 8 1/4 x 10.  
 See cut of wooden letter box we give away,  
 in next week's Exchange.  
**BOSTON LETTER CO.,**  
 84 Hawley Street, BOSTON, MASS.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**THE NINTH VOLUME**

of The Florists' Exchange has  
 just begun. To keep all the  
 copies in order and ready  
 for reference you should have  
 one of our binders. We have  
 them in two styles,  
 Cloth leather back and corners, 75 cents.  
 Plain Cloth, . . . . . 45 "

**THE FLORISTS' EXCHANGE.**  
 P. O. Box 1607, New York  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**SEASON 1897.**  
**Trade List of Select**  
**FLOWER SEEDS,**  
**SPRING BULBS and SUNDRIES,**  
 Just issued and mailed to applicants; send  
 business card. Address  
**August Rolker & Sons, West 24th St.,**  
**P. O. Station 8, NEW YORK.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# YOUR CANNAS COLLECTION WILL BE INCOMPLETE

AN attractive and beautiful NOVELTY that live Florists all want . . . . .

WITHOUT THE NEW VAREGATED VARIETY

To see it will rivet the WANT. . . . .

Send for Circular and Colored Plate, if not yet received. . . . .

## "JOHN WHITE."

Strong Plants, ready Feb. 15th, 75c. each; \$7.50 per dozen; \$50.00 per 100. . . . .  
 See last advertisement from The Florists' Correspondents as to how to order as bright as the morning.

ORIGINATED AND INTRODUCED BY JOHN WHITE, Elizabeth, N. J.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**LARGEST AND FINEST FLOWERS**

**VERBENAS**

**BEST MAMMOTH**, rooted cuttings. . . . . per 100, \$1 25; per 1000, \$10 00  
**OLDER MAMMOTH**, rooted cuttings. . . . . " 1 00 " 8 00  
**BEST MAMMOTH**, strong pot plants. . . . . " 3 00 " 25 00  
**OLDER MAMMOTH**, strong pot plants. . . . . " 2 50 " 20 00

**HEALTHY VIGOROUS STOCK**

**FIELD GROWN ROSES**

**Polyantha**, strong plants, 7 varieties. . . . . Per 100 \$4.00  
**Hybrid Perpetual**, strong plants, 6 years 6.00  
**Hardy Climbers**, strong plants, 6 years. 6.00  
**La France**, Ulrich Brunner, . . . . . 1.00  
**Diagns**, Charles Paul Neroy, . . . . . 1.00  
**H. P.** (La France, Ulrich Brunner, . . . . . 1.00  
 strong plants.)

**CLEMATIS CARNATIONS \* CHRYSANTHEMUMS**

For special prices address  
**G. EISELE, 11th & Jefferson Sts. Phila. Pa.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**WELCH BROTHERS, DEALERS IN FLORISTS' SUPPLIES,**  
 No. 2 Beacon Street, - BOSTON.  
 Wire Designs, Wreath Sheaves, Baskets, Immortelles, Cape Flowers, Cut Flowers, Boxes, and all other supplies, at prices to meet competition.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**STRONG HEALTHY CARNATIONS ROOTED CUTTINGS**

Per 100, 1000.

Jubilee. . . . . \$6.00 \$50.00  
 Amazingly Ivory, Della Fox, Triumph. . . . . 5 00 40 00  
 Buttercup, M. Stanley. . . . . 3 50 30 00  
 Bridesmaid, Meteor, Storm King, Eldorado, Albertine, Alaska, Day-break, Puritan. . . . . 2 00 15 00  
 Dean Hole, Bouton d'Or. . . . . 2 50 20 00  
 Thos. Cartledge, E. A. Wood. . . . . 2 00  
 Lizzie McGowan, Portia, Wm. Scott, 1 50 12 00

**DORMANT PLANTS**

Per 100

**Polyantha**, strong plants, 7 varieties. . . . . \$4.00  
**Hybrid Perpetual**, strong plants, 6 years 6.00  
**Hardy Climbers**, strong plants, 6 years. 6.00  
**La France**, Ulrich Brunner, . . . . . 1.00  
**Diagns**, Charles Paul Neroy, . . . . . 1.00  
**H. P.** (La France, Ulrich Brunner, . . . . . 1.00  
 strong plants.)

**STORRS & HARRISON CO., Painesville, Ohio.**

Wholesale Nurserymen and Florists.  
 Can show as the blocks of Fruit and Ornamental Trees, Vines, Shrubs, Roses as can be found in the U. S. We grow 1 million Roses and million of plants annually. Trade list free. Correspondence solicited.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**100,000 VERBENAS.** THE CHOICEST VARIETIES IN CULTIVATION.

Fine pot plants, \$2.50 per 100; \$20 per 1000. Rooted Cuttings, \$1.00 per 100; \$8.00 per 1000.

\* NO RUST OR MILDWE \*

Packed light and satisfaction guaranteed. Send for circular.

We are the largest growers of Verbenas in the country. Our plants cannot be surpassed.  
 . . . . . **J. L. DILLON, Bloomsburg, Pa.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**STRONG ROOTED CUTTINGS.**

Per 100, 1000.

Ageratum, blue and white. . . . . \$1 25 \$10 00  
 Celosia, all leading sorts. . . . . 1 00 8 00  
 Fuchsias, double and single. . . . . 2 00 15 00  
 Geranium, Dwarf Gem. . . . . 2 00 15 00  
 Geraniums, double and single. . . . . 2 00 15 00  
 Heliotropes, light and dark. . . . . 1 25 10 00  
 Moon Flower, true. . . . . 2 00 15 00  
 Salvia, Splendens and Wm. Bedman 1 25 10 00

**CHRYSANTHEMUMS**

**ROOTED CUTTINGS. POTTED PLANTS**

Ada Spaulding, Mme. Fred. Bergmann, Helen Bloodgood, Elinor D. Smith, Harry Man, Oakland, Olympus, M. M. Johnson, Jennie Falckner, M. Richard Dean, Gladys Spaulding, Mrs. Henry Robinson, Nemesis, Fick Ivory, Mrs. McK. Trombly, Nivens, Potter Palmer, Mrs. S. Humphrey, J. E. Lager, J. H. Troy, Harry May, Mrs. J. B. Crane, Frank Thompson, Dorothy Toler, J. H. Sirois, Fletcher & Mania, Virland-Morel, Marc Graham.  
 Rooted Cuttings, \$2.00 per 100; \$17.50 per 1000.  
 From 2 1/2 in. pots, 4 00 " 35 00  
 From W. K. Smith, Eugene Dulledeuze, Mrs. Thos. H. Brown, Collingford, Josephine Wanner, Miss May Wheeler, Mrs. J. G. Whittin, W. H. K. Smith.  
 Rooted Cuttings, \$1.50 per 100.  
 From 2 1/2 in. pots, 3 00 "

**100,000 VERBENAS.** THE CHOICEST VARIETIES IN CULTIVATION.

Fine pot plants, \$2.50 per 100; \$20 per 1000. Rooted Cuttings, \$1.00 per 100; \$8.00 per 1000.

\* NO RUST OR MILDWE \*

Packed light and satisfaction guaranteed. Send for circular.

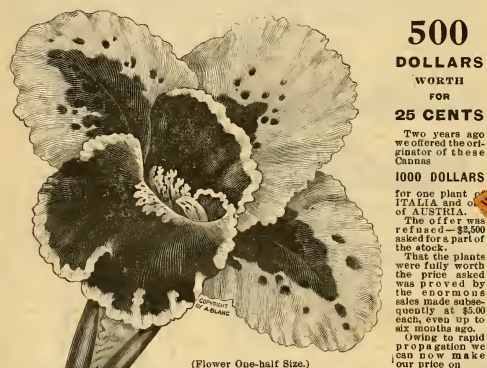
We are the largest growers of Verbenas in the country. Our plants cannot be surpassed.  
 . . . . . **J. L. DILLON, Bloomsburg, Pa.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Largest Stock in the Country.**

All goods up to date, and of superior quality.  
 Send for Illustrated Catalogue.

## WOOD BROS., Fishkill, N. Y.

WE MEET THE PRICES OF ALL COMPETITORS  
 ON NEW CANNAS "Italia" and "Austria."



**500 DOLLARS WORTH FOR 25 CENTS**

Two years ago we offered the original and best of these Cannas

**1000 DOLLARS**

for one plant of **ITALIA** and one of **AUSTRIA**. If you were refused—\$5.00 asked for the parts of the stock.

That plants were fully worth the price asked was proved by the enormous sales made subsequently at \$5.00 each, even up to six months ago.

Owing to rapid propagation we can now make our price on

**AUSTRIA**, at 38c. each; \$3.50 per doz.; \$25.00 per 100; \$200.00 per 1000.

**ITALIA**, at 60c. each; \$6.00 per doz.; \$45.00 per 100; \$400.00 per 1000.

The prices for immediate delivery and fine, large, home-grown roots. Send for list of ALL THE NEWEST CANNAS at popular prices.

**ALL SOLD.** Our entire stock of ASPARAGUS SPENGERI, consisting of nearly 10,000 plants, was sold to Mr. Robert Craig—the best good thing who has seen it.

**NEW ROSES, CLIMBING WOOTTON, GARMINE PILLAR**, \$2.00 per doz.; \$10.00 per 100.

\* Send for catalogue of novelties.

**A. BLANC & CO., 214 AND 216 N. 11th Street, PHILADELPHIA.**

**H. BAYERSDORFER & CO., 56 N. FOURTH STREET, PHILADELPHIA, PA.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## MY BUSINESS is gaining every year—

**WHY?**

Because you cannot buy better or cheaper than of:

**A. HERRMANN, 404-412 E. 34th St., New York, near Ferry**  
 MANUFACTURER OF METAL FLORAL DESIGNS, IMPORTER AND DEALER IN FLORISTS' SUPPLIES.  
 Write for Catalogue. Free to the trade.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**GOOD STOCK**

AD. No.	Per 100	Per 1000
AD. 1	\$1.00	\$10.00
AD. 2	1 25	10 00
AD. 3	1 50	12 00
AD. 4	2 00	15 00
AD. 5	2 50	20 00
AD. 6	3 00	25 00
AD. 7	3 50	30 00
AD. 8	4 00	35 00
AD. 9	4 50	40 00
AD. 10	5 00	45 00
AD. 11	5 50	50 00
AD. 12	6 00	55 00
AD. 13	6 50	60 00
AD. 14	7 00	65 00
AD. 15	7 50	70 00
AD. 16	8 00	75 00
AD. 17	8 50	80 00
AD. 18	9 00	85 00
AD. 19	9 50	90 00
AD. 20	10 00	95 00
AD. 21	10 50	100 00
AD. 22	11 00	105 00
AD. 23	11 50	110 00
AD. 24	12 00	115 00
AD. 25	12 50	120 00
AD. 26	13 00	125 00
AD. 27	13 50	130 00
AD. 28	14 00	135 00
AD. 29	14 50	140 00
AD. 30	15 00	145 00
AD. 31	15 50	150 00
AD. 32	16 00	155 00
AD. 33	16 50	160 00
AD. 34	17 00	165 00
AD. 35	17 50	170 00
AD. 36	18 00	175 00
AD. 37	18 50	180 00
AD. 38	19 00	185 00
AD. 39	19 50	190 00
AD. 40	20 00	195 00
AD. 41	20 50	200 00
AD. 42	21 00	205 00
AD. 43	21 50	210 00
AD. 44	22 00	215 00
AD. 45	22 50	220 00
AD. 46	23 00	225 00
AD. 47	23 50	230 00
AD. 48	24 00	235 00
AD. 49	24 50	240 00
AD. 50	25 00	245 00
AD. 51	25 50	250 00
AD. 52	26 00	255 00
AD. 53	26 50	260 00
AD. 54	27 00	265 00
AD. 55	27 50	270 00
AD. 56	28 00	275 00
AD. 57	28 50	280 00
AD. 58	29 00	285 00
AD. 59	29 50	290 00
AD. 60	30 00	295 00
AD. 61	30 50	300 00
AD. 62	31 00	305 00
AD. 63	31 50	310 00
AD. 64	32 00	315 00
AD. 65	32 50	320 00
AD. 66	33 00	325 00
AD. 67	33 50	330 00
AD. 68	34 00	335 00
AD. 69	34 50	340 00
AD. 70	35 00	345 00
AD. 71	35 50	350 00
AD. 72	36 00	355 00
AD. 73	36 50	360 00
AD. 74	37 00	365 00
AD. 75	37 50	370 00
AD. 76	38 00	375 00
AD. 77	38 50	380 00
AD. 78	39 00	385 00
AD. 79	39 50	390 00
AD. 80	40 00	395 00
AD. 81	40 50	400 00
AD. 82	41 00	405 00
AD. 83	41 50	410 00
AD. 84	42 00	415 00
AD. 85	42 50	420 00
AD. 86	43 00	425 00
AD. 87	43 50	430 00
AD. 88	44 00	435 00
AD. 89	44 50	440 00
AD. 90	45 00	445 00
AD. 91	45 50	450 00
AD. 92	46 00	455 00
AD. 93	46 50	460 00
AD. 94	47 00	465 00
AD. 95	47 50	470 00
AD. 96	48 00	475 00
AD. 97	48 50	480 00
AD. 98	49 00	485 00
AD. 99	49 50	490 00
AD. 100	50 00	495 00

**COLEUS OUR SPECIALTY.**

We will have 100,000 extra strong clean rooted cuttings of **Coleus**, Olean Bedder, and Verbenas-Royal, good for 2 1/2 or 3 in. pots during the months of February, March and April at \$1.00 per 100, \$7.50 per 1000, \$4.00 per 1000 in 5000 lots and over; 2 1/2 in. pots, \$5.00 per 100.

**20,000 CANNAS.**

Alphonse Bouvier, Capt. P. de Suzann, Chas. Henderson, Explorator Crampbell, Florence Vaughan, Miss. Gros, Miss Sarah Hill, Eldorado, Queen Charlotte, Admiral Avellan, Souvenir d'Alone Grey, Comte de Bonchard, Mme. Montefiore, Helen Gould, Sunshine, Benham, J. R. Pierson, Oriole, Miss Alphonse Bouvier, Columbia, Van der Berg, Miss Chas. Melin, Ehemanni and Professor.

**BEDDING PLANTS,**  
 Orders booked now for rooted cuttings of all kinds of bedding plants. Write for prices.

**ASPARAGUS PLUMOSUS,**  
 Strong 3 year old plants from bed, \$5.00 per doz., \$50.00 per 100.  
 Stock is in good condition. CASH with order from unknown customers or C. O. D.  
 Orders acknowledged at \$5.00 and over P. O. B., N. Y. City.

**SEAWANNAKA GREENHOUSES, Oyster Bay, Queens Co., N. Y.**  
**JAS. C. CLARK, Supl., P. O. Box 34, Wm. L. SWAN, Proprietor.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE



We are a straight shoot and aim to grow into a vigorous plant.

A WEEKLY MEDIUM OF INTERCHANGE FOR FLORISTS, NURSERYMEN, SEEDSMEN AND THE TRADE IN GENERAL.

VOL. IX. No. 5.

NEW YORK, JANUARY 30, 1897.

One Dollar Per Year.

**\$17.50 PER CASE**  
... FOR ...  
**LILY OF THE VALLEY**

QUALITY SUPERFINE. Berlin or Hamburg Pips.  
A FEW CASES YET ON HAND. ORDER QUICKLY.

....NEW CHRYSANTHEMUM....  
**MISS LOTTIE D. BERRY.**  
(Certificated Under Name of Garret A. Hobart.)

This is a large pure white, incurved Japanese; very full and double, borne on a good, strong, stiff stem, well furnished with foliage up to the flower. Blooms in mid-season, and is a first-class keeper. Certificate Chrysanthemum Society of America, November 7, 1896. For illustration see Novelty portion of this issue, page 11.  
Price, 50c. each; \$5.00 per doz.; \$35.00 per 100. Ready for delivery March 1st.

**TUBEROUS BEGONIAS**, single, separate, \$25 per 1000; mixed, \$22.50 per 1000.

**FLORISTS' FLOWER SEEDS** and all **SPRING BULBS** now ready. See our new Wholesale Catalogue. A copy mailed free to all Florists upon request.

**PITCHER & MANDA**, Short Hills, N. J.  
JOHN N. MAY, Receiver.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CANNAS.**

We offer a splendid collection in strong started growing plants. These are much better than dormant roots, as they are sure to grow, and are ready for immediate setting to grow on, and will give considerable increase between now and Spring. Stocks of some of the finest varieties are quite limited, and orders for these should be placed before it is too late in the season, as many kinds will undoubtedly be exhausted before the season is over. While there are large stocks of the less desirable varieties, there is a great demand for the newer and scarcer sorts, and buyers will find it to their advantage to place orders for these sort early.

**THE TWO NEW ITALIAN CANNAS.**  
Iswin.....\$5.00 per doz.; \$40.00 per 100  
Austria.....\$4.00 per doz.; \$35.00 per 100

**NOVELTIES OF 1896.**  
Pierson's Premier, Pupa, Black Beauty.....\$3.00 per doz.; \$25.00 per 100

**CHOICEST SORTS OF RECENT INTRODUCTION.**

F. B. Pierson, Chicago, Columbia, Eldorado, Sovy, de Antoine Crozy and Queen Charlotte. \$4.00 per doz.; \$35.00 per 100.

**THE VERY CREAM OF THE OLDER SORTS.**  
Florence Vaughan, Egandale, Mme. Crozy, Chas. Henderson, Alphonse Bouvier, Trilly, Paul Marquand, Fies. Carnot, J. D. Gabos and J. C. Vaughan. \$1.20 per doz.; \$8.00 per 100.

**SEND FOR OUR SPECIAL LOW OFFER OF PALMS AND OTHER DECORATIVE PLANTS.**

We offer for immediate delivery an especially fine lot of  
**ADIANTUM CUNEATUM.**.....\$5.00 per 100  
Streak plants, fine tops, in perfect shape, 3 1/2 inch pots.....\$5.00 per 100  
Streak plants, fine tops, in perfect shape, 3 1/2 inch pots.....\$8.00 per 100

**SMALL FERNS FOR FERN PANS.**  
Streak plants, 3 1/2 inch pots, assorted.....\$5.00 per 100

**NEPHROLEPIS EXALTATA BOSTONIENSIS**  
Fine specimen plants grown in large pans.....\$2.00 each.

**F. R. PIERSON CO.**  
TARRYTOWN-ON-HUDSON, NEW YORK.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**OUR PRICE LIST OF HIGH GRADE SEEDS AND BULBS**

Will be found on Pages 27, 28 and 29, of the **FLORISTS' EXCHANGE**, January 9.

**OUR Asters** are grown for us by the leading European Aster seed grower, and the results obtained from our seed will prove true to variety and color.

**Simple's Superb Strain**, Long Stemmed Chrysanthemum Aster, colors white or pink. Price per packet, 25c.; per oz., \$2.50.

**Giant Comet Aster**. Price per packet, 25c.; per oz., \$2.50.

**White Jewel or Ball Aster**. Long sought for color of this popular class. Price per packet, 35c.

**Dwarf Pearl Tuberosc Begulbs**, 4 to 6 inches in cir., \$7.50 per 1000.

**Tuberous Rooted Begonias**, sound stock, 6 colors, separate, \$3.00 per 100.

**Gloxinias**, named varieties, \$5.00 per 100.

In Making Up Your Order Don't Fail to Include Some  
**ALLEN'S DEFIANCE MIGNONETTE**

**F. E. McALLISTER CO.** Seed and Bulb Merchants,  
69 Cortlandt St. N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Canna "YELLOW CROZY."**

(VAUGHAN'S No. 1.)  
This novelty, proven by us for two years, is a clean, pure sunny yellow with no red markings, except a few faint red spots on the smallest lower petal. The effect produced by a bed of it is a solid mass of pure yellow. It rises to the same position as the "Yellow Crozy," the compact spike shows off well above the foliage, height 3 feet, foliage green. It has a remarkable habit of throwing out additional lateral flower buds from the main spike—often as many as seven. In the fall and it branches less than any yellow canna we have seen, owing to its good substance. It is, in short, just the color and habit of plant which has been sought for the past five years, a sure "Yellow Crozy."  
Price prepaid, March 15th delivery, from 3-inch pots, \$1.50. Stock limited.

**Canna BURBANK.**

THE AMERICAN SEEDLING, WITH GIANT ORCHID-LIKE FLOWERS, SEEDING IS BELIEVING.

Mr. D. ZWISLOCKI, of Needham, Mass., of the same Committee, who tested it with all the best now on sale, says: "I follow Burbank in the best yellow in cultivation now, very large flowers of a handsome, bright shade of nearly pure yellow."  
Mr. J. T. BURNETT, of Detroit, Mich., of the same Committee, says: "I consider Burbank one of the best of the year's novelties."  
Mr. JOHN KANEY, head gardener of South Park, Chicago, and an expert judge of Cannas at the world's fair, says: "The flowers were much admired in the park this summer. The foliage is like rubber; it is always good; you can't tear it."

**PRICE, EACH 75 cts.; SIX FOR \$4.00.**  
**TUBEROSES**—bulbs, per 100, \$1.00, per 1000, \$7.00; in Chicago, \$5.00. Nicely select  
**CLADIOLIA**—XXX Florida Mixture, per 100, \$2.00, per 1000, \$13.00.  
**CANNAS**—ITALIA, per 100, \$2.00.  
**AUSTRIA**, per 100, \$2.00.

**FLOWER SEEDS—BEST STRAINS FOR FLORISTS.**  
**BECONIAS**—Tuberous, sep. colors, single, first size, 100, \$2.50.  
**CLOXINIAS**—splendid bulbs, per 100, \$3.00.

**CALADIUM ESCULENTUM**—7-9 in. per 100, \$5.00.  
**ROSE**—SOUV. PRES. CARNOT, March 1st, 2 1/2 in. per 100, \$16.00; 100 for \$12.00.

**CARNATIONS**—MAJOR PINGREE, yellow, per doz., \$1.50, per 100, \$12.00.  
**MAJOR DEAN**, very large, white, with blue pink lines, per doz., \$2.00 per 100, \$10.00.

**SHEEP MANURE**—Per 100 lbs., \$2.25; per 500 lbs., \$10.00.

**VAUGHAN'S SEED STORE,**  
NEW YORK, 14 Barclay St. P. O. Box 688, CHICAGO.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

BOUND TO GROW

Under the Most Adverse Circumstances.



Petunia, Single Large Flowering, Mixed. Double Large Flowering, Fringed, Mixed. Double Large Flowering, Fringed, Mixed. Each of above in trade pkts., at 50c. and \$1.00. Trade pkt. Oz. Petunia, Fine Mixed, \$0.15 \$0.50. Chokee, Mixed, Striped and Biotined, 25 1 00. Dwarf Inimitable, Mixed, Star Petunia, 25 2 00. Salvia splendens, select stock, 25 1 50. Verbena, Elliott's Mammoth, Mixed 25 1 75. Nikoten, the coming insecticide, pint bottles, \$1.00. Vaporizing Pans for Nikoten, \$1.10 each; set of three, \$5.00.

WILLIAM ELLIOTT & SONS, NEW YORK.

A Prize Taker. Your paper is a prize taker to sell stock. I have booked enough orders for carnations and zonal carnations to last me for two months. W. W. COLES. Kokomo, Ind., Jan. 23, '97

ASTER, Queen of market, mixed, per oz. (1c.; separate colors, white, blue, pink, per oz., 8c.; Giant Comet, pure white, per oz., 3c.; all leading kinds at lowest price. Write for SAMPLE, J. B. REAU, Woodward's L.I. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

NEW CROP

VERBENA SEED

Very large flowers, handsome, showy, bright colors only. Large trade pkt., \$1.00; ounce, \$5.00. Fresh Flower Seed for Florists Extra quality, choicest strains. One trial will convince. Catalogue free. MOORE & SIMON, FLOWER SEED GROWERS, PHILADELPHIA, PA.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

TOBACCO STEMS

Large Bales, \$1.50 STRONG AND FINE. Tobacco Dust, 25c. per lb. Chinese Sacred Lilies, per basket 30 Cents, 5c. Narcissus Paper White, 50c. per 100. H. G. FAUST & CO., 61 & 63 N. Front St., Philadelphia, Pa.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

VALLEYS.

True Berlin pinks, AI quality, and very evenly assorted, in case lots only. J. L. SCHILLER, Rutherford, N. J. Sole Agent for F. C. Pomrencke, Hamburg.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

CHEAP FOR CASH WITH ORDER.

1500 DWARF PEARL TUBEROSES, 3-4 INCHES, \$5.00. 1500 CHINESE NARCISSUS, \$1.50.

For Sample delivery, H. P. Dwarf and Standard Roses. Send an estimate of your wants. C. H. JOOSTEN, Importer, 193 Greenwich St., N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

SEEDS for Profit Sweet Peas

Wholesale Catalogue on application. WEER & DON, Seed Merchants and Growers, 114 Chambers St., New York, Pa.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

SEED FOR SALE.

10 ounces Victoria Aster, white; 8 ounces Giant Comet Aster, white; 16 ounces Giant Aster, pink; 1 ounce Nigelon Aster, snow; with 1 ounce in two good market varieties, 5 separate colors; the snow clear from '95, all together for net \$14.50. H. SCHUBERT, Aster Grower, LITTLE FERRY, N. J.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

PALM Seed FRESH ON HAND

Per 100 1000 3000 Cocoas Weddelliana, \$1.35 \$10.00 \$27.50. Pinnata willisii, 1.50 12.00 35.00. Coffee arabica, 1.50 12.00 35.00. 1.25 10.00 27.50. Asperages 'Flammaris' Name, (true), 1.50 12.50. J. L. SCHILLER, Rutherford, N. J. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

FARQUHAR'S SEEDS

"ONLY THE BEST QUALITY." R. J. Farquhar & Co., BOSTON 16 & 19 So. Market St. 1897 CATALOGUE READY-WRITE FOR IT.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

SPECIAL LOW PRICES ON ALL... Spring Bulbs... PLANTS! F. W. O. SCHMITZ, ETC., ETC. JERSEY CITY, N. J. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Gladiolus Shakespeare

For Forcing. \$5.00 per 100; \$40.00 per 1000. CHAS. H. ALLEN, Floral Park, N. Y. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

GET THE BEST ASTER SEEDS

of the celebrated Simple Aster, separate colors, pink and white, also mixed. Seed well cleaned, plump and good. Crop of 1896. For sale in any desired quantity by JAMES SEMPLE, Box 2, BELLEVUE, PA. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Single Begonia Bulbs

in separate colors. The Pearl, \$4.00 per 100, \$30.00 per 1000. The Aster, \$3.00 per 100, \$27.00 per 1000. All other seasonable bulbs on hand. Ask for price list. HULSEBOSCH BROS., Englewood, N. J. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

DREER'S RELIABLE FLOWER SEEDS!

A FEW OF OUR LEADING SPECIALTIES FOR PRESENT SOWING:

Table listing various flower seeds and their prices. Includes AGERATUM, ALYSUM, AMPPELOPSIS, ASTER, BIGNONIA, CANTYUFT, CANTINA, CENTAUREA, CINCEREA, COBEA, DRACENA, GERANIUM, GREVILLEA, LANIANA, LOSTER, MAURANDIA, VERBENA, VINCA.

WE ARE HEADQUARTERS ON BULBS FOR FORCING, FLOWER SEEDS FOR FLORISTS, ENGLISH MUSHROOM SPAWN. SPECIAL PRICES ON APPLICATION. JOHN GARDINER & CO., Seedsmen, Box 1306, Philadelphia, Pa. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Gladioli . . . THE BEST IN AMERICA

Geraniums, 'Mams, Carnations, etc. Write for prices. BETSCHER BROS., Canal Dover, O. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

BULBS! BULBS!!

25,000 Tuberoses, tall double, 4 to 6 in. 200,000 " " dwarf Pearl, 3 to 4 in. 50,000 " " extra Dwarf Pearl, 3 to 4 in. 10,000 Orange, or single flower, 3 to 6 in. 5,000 variegated foliage, 3 to 6 in. 3,000 " " ABIBO " " 3 to 6 in. 30,000 CALA LUTHEA, 3 to 6 in. Now ready to meet go, first come, first served and till it gone. Write - J. H. F. CROOM & BRO., Late Rose and Garden Growers, MAGNOLIA, N. C. WHEN WRITING MENTION THE FLORISTS' EXCHANGE



Our New Onion

"Up-to-date" Tellow Globe Danvers. Positively the best market onion in cultivation. Perfect in shape, finest in bulk and an immense crop. Write for circular. Seed, \$1.25 per pound, by mail postpaid; 10 pounds for \$12.50 by express. FRANK BANNING, Kinsman, Ohio, Seedsmen and Florist. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

SEEK TO WISE REPORT.

For more information from seedsmen, and all interested in this column, solicited. Address Editor SEED TRADE, care of Florists' Exchange, P. O. Box 1466, New York.

To Regulate the Importation and Sale of Agricultural Seeds.

In our issue of Dec. 19, 1896, page 1140, we gave a summary of House bill 9322, which was introduced by Mr. Cook of Wisconsin, in the House of Representatives, and which has been referred to the Committee on Ways and Means and ordered to be printed, having for its object the regulation of the importation and sale of agricultural seeds. The following is the full text of the bill referred to:

It is enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That no seeds on grasses, clovers, or other forage plants shall be admitted into the United States, either in bulk or in packages, containing any seeds of dodder (Cuscuta species), Canada thistle (Cirsium arvense), Russian thistle (Salsola tragus), the bulbules of wild onion (Allium vineale) or ergot (Claviceps), or more than one seed of any species of the flax (Cannabis sativa), wild carrot (Daucus carota), plantain (Plantago species), chickweed (Lepidium species), cockle (Agrostemma githago), chess burr (Cirsium discolor), yellow top (Lepidium repens), pennyroyal (Thlaspi arvense), prickly lettuce (Lactuca scariola), or wild mustard (Brassica species), or which have, either inadvertently or intentionally, been mixed with inferior seeds, or four parts of the seed of any one of the foregoing seeds.

To carry out the provisions of this Act, the seeds of all other forage plants from foreign countries shall be allowed entry into the United States only at the ports of New York, New Orleans, and Boston, and more, under such regulations as may be prescribed by the Secretary of Agriculture, in concurrence with the Secretary of the Treasury, and the Secretary of the Customs, and ports shall be made, under the direction of the Secretary of Agriculture, by skilled experts who shall have passed an examination thereof to be thoroughly competent in the work.

Sec. 2. That no seed shall be sold, offered, or transported into the United States which contains any seeds of dodder (Cuscuta species), thistle (Cirsium), Russian thistle (Salsola tragus), the bulbules of wild onion (Allium vineale), or ergot (Claviceps), or more than one seed of the flax (Cannabis sativa), wild carrot (Daucus carota), plantain (Plantago species), wild oat (Lolium species), quick grass (Agrostis species), pennyroyal (Thlaspi arvense), prickly lettuce (Lactuca scariola), or wild mustard (Brassica species), or which contains the seeds of agricultural plants, whether in bulk or in packages, including the seeds of cereals, grasses, forage plants, and ornamental plants, and seeds not including those of trees, shrubs and ornamental plants, which is sold, offered or exposed for sale in the United States by any firm or dealer in seeds, shall be accompanied by a written or printed guarantee of the percentage of purity (freedom from foreign matter) and the composition of the seed, in the percentage of seeds as when the percentages of the various constituents are stated.

Sec. 3. That any person who shall sell or offer for sale any agricultural seeds, or include those of trees, shrubs and ornamental plants, in packages or bags of any kind, or in any other form, shall be held to a guarantee of the percentage of purity and shall be held to the full penalty of this Act as a misdemeanor, and upon conviction thereof shall be fined not less than fifty dollars nor more than one hundred dollars, or imprisoned for not more than six months, or both, as the court may direct, for each and every offense.

Sec. 4. That an allowance of two per cent. shall be made for the loss of seeds by firm or dealer in the purity of seeds of grasses and forage plants, and five per cent. for the variation of the germination of all seeds included by the Act.

Sec. 5. That dealers may base their guarantees on tests conducted by themselves, or by the State or Federal Department of Agriculture, under such conditions as it may prescribe, and may employ such methods and apparatus as may be approved by the Secretary of the American Agricultural Colleges and Experiment Stations, but no guarantee residing within the United States may have seeds purchased from any other State or Territory, or by the United States Department of Agriculture, or any other State or Territory, under such conditions as may be prescribed for such purposes. The tests and conditions shall be fair and reasonable.

Sec. 6. That the result of all tests made for purchase of seeds at any of the stations together with the names of the firm or person who conducted the tests, and the results. The stations shall publish equitable standards of purity and germination, and with any other information concerning agricultural seeds as may be of public benefit.

Sec. 7. That any person who shall violate section two of this Act shall be guilty of a

WE OFFER a choice mixture of the celebrated NEW BRANCHING ASTER. Flowers 4 to 4 1/2 inches across. Can hardly be told from fine Chrysanthemums. Colors—Pure White, Shell Pink, Lavender and Crimson mixed. Unsurpassed as a cut flower.

Price, trade pkt. 20c; per oz., \$1.00; per lb., \$10.00.

Send for our New Wholesale Market Gardeners' and Florists' Catalogue.

NEW WATERPROOF MUSLIN, FOR HOT BEDS AND COLD FRAMES. Being disinfested with the waterproof fibre cloth we have been handling, we have had prepared for us by a new patented process a grade of muslin, which we furnish ourselves and which we guarantee thoroughly. It allows a much larger percentage of light to penetrate it than the other kinds now on the market, although the fibre is much closer, and it is stronger and better in every way. Small samples mailed free.

Price, 10c. per yard. In pieces of 40 yards, at 8c. per yard.

For tying buds and grafts and for bunching Asparagus. Price, per lb., 16c.; per 100 lbs., \$13.00. Per bale of about 200 lbs., 12c. per lb.

JOHNSON & STOKES, 217 and 219 Market St., PHILADELPHIA.

American Seed Trade Association - The executive committee of this Association met in the Essex Hotel, New York, on Tuesday last. Among those present were: President - W. Wood, Toronto; Secretary - F. W. Stephens, Cambridge; Capt. S. F. Willard, Wetherfield, Conn.; S. D. Croby, W. J. Elliott, H. Nussenger, F. E. McAllister, and Secretary A. L. Don, of New York City; C. L. Allen and John Lewis Childs, of Floral Park, N. Y. The next annual meeting of the Association will be held in Washington, D. C., second Tuesday in June (6th), and will last for three days. The bill recently introduced into Congress by Mr. Cook, of Wisconsin, to regulate the importation and sale of agricultural seeds, was taken up and discussed, and as the greater portion of the bill in its present form, was considered inoperative, and some sections, if carried out, would be an injustice to the seed trade, a committee was appointed to exercise its utmost endeavor to have the terms of the bill modified.

The Bermuda Bulb Crop - The bulb crop of Lillian Harrell this coming season will be very limited. The fact is the low prices obtained on the crop of bulbs in 1896 forced many small growers to sell upon the industry. Much of the land formerly used for this purpose has been used for cottons and potatoes, and that which has been devoted to Harrell is planted with very small bulbs. We also have had excessive rain and cloudy weather for two months. In view of the conditions, there certainly will be a very short supply of the large-sized bulbs for the trade the coming season, and it will be necessary that some advance in price be fixed on the crop of 1897 to bring the growers out straight. - F. W. STEPHENS, Pgt.

CHATTANOOGA, TENN. - It is reported that C. B. Moores & Co., the oldest local dealers in farm and garden seeds, failed January 29, with liabilities of \$5,527. The report says the seeds are largely in excess of the indubitance.

European Notes. At last we are favored with a few glimpses of sunshine, and nature appears to be making an effort to throw off the effects of a mild three days' rain. So far as we can at present judge the mild weather is a great improvement, but with a variety of outdoor flowers, is not helping the plants for 1897 crops. Broccoli in northern Europe are worthless where not already destroyed, and some other round seed crops will soon be in the same case.

A few brighter days has helped trade very much, and this, combined with the maintenance of high prices for all kinds of grain, inspire us with the hope of a fairly good season after all.

Early peas and beans are bound to bang fire, but second early and later sorts may help us out all right in the end.

The usual display of Cyclamens graced the first meeting of the year at the Royal Horticultural Society. Another striking example of the "Synchronism of Variation" was afforded by the display of some beautifully fringed varieties from an English and a Belgian grower. In the case of the first named only two colors were shown—pure white, and rose, the habit of both plants was perfect; the form of the flower good, and the leaves very ornamental; each flower had more than the proper number of petals, and in this respect resembled the so-called double strain sent out by one of our southern growers this season.

The exhibit of the Belgian grower contained a more numerous collection of colors, but the form of the flowers was not so good, as they were only fringed to a horizontal position. The petals were almost round, broad and fringed after the manner of a Chinese primrose. A brilliant crimson variety named Cyclamen papilio "Brussels Gem" was decidedly the most effective. If the merits of the two strains could be combined in one we should have a really beautiful and useful novelty.

While we hear on every hand of the unprofitable nature of the seed trade there appears to be some money in plants, for the estate of the late Anthony Waterkey has been valued for probate at £128,736, 6s, 11d; roughly, \$624,750.

While we hear on every hand of the business founded by T. S. Ware, has just died at a comparatively early age. He was a bright, successful man, and the news of his death will cause regret to many friends on your side and ours.

EUROPEAN SEEDS.

midwestern, and upon conviction thereof shall be fined not less than two hundred dollars nor more than five hundred dollars, and be imprisoned for not more than one year.

Sec. 3. That any person or persons violating section three of this Act shall be deemed a misdemeanor, and upon conviction thereof be fined not less than one hundred dollars nor more than three hundred dollars, and imprisonment for not more than six months for each and every offense.

Sec. 4. That any person or persons who shall label any package or bag containing grain or vegetable seeds, or any other agricultural seeds, or seeds of trees, shrubs, and ornamental plants, shall be held to a guarantee of the percentage of purity and shall be held to the full penalty of this Act as a misdemeanor, and upon conviction thereof shall be fined not less than fifty dollars nor more than one hundred dollars, or imprisoned for not less than thirty days nor more than six months.

Sec. 5. That provisions of this Act shall apply to regular dealers in seeds, and to farmers or persons growing cereals and other seeds for the market.

Sec. 6. That no provision of this Act shall be construed to require the guarantee of a crop, or of seeds already planted, except what may have been necessary for making tests.

-In an interview which our Washington correspondent had, on January 27, with Representative Cook, of Wisconsin, who introduced this bill into Congress on December 10 last, the following information was obtained. Mr. Cook says he does not expect his bill to pass this session. It has not yet been considered by the Ways and Means Committee, to which it was referred, nor has he had a hearing before the committee. This bill was drafted by Mr. Cook in conjunction with the botanist of the Department of Agriculture, and the Secretary of Agriculture is now preparing an amendment to it, meaning to refer to the bill in his hands. Mr. Cook will ask for a hearing before the Ways and Means Committee.

Mr. Cook says he has had hundreds of letters recommending the measure, and very few opposing it. His desire is to elevate the seed trade and guarantee that the farmers get good seed. Although Mr. Cook goes out with the botanist, he says the bill has aroused so much interest that it will be taken up next year if it fall to pass this year.

## Washington.

The carnations at the propagating gardens have turned out exceptionally fine this Winter, 30,000 blooms having been cut from one of the houses this far. Owing to insufficient attention the benches were put up and planted about the end of April last year, several months before the root was put in position. This peculiar treatment seems to have gone well with them, as the plants are, and have been, in a very healthy condition. This particular house is a half-span structure, facing south. The north side, above the bench, has been utilized in growing panates. Several narrow shelves, one above the other, with about two inches of rich soil in each, were planted early in the Fall, and ever since they have given an unceasing supply of very fine flowers.

At the establishment they are hanging on to the California violet, and as the plants appear now, covered with large flowers with long stems, one would think it to be much better than it really is. No one than six weeks ago, however, the plants looked as if they had decided to carry a huge crop of foliage instead of flowers; runners were being developed from every plant in great numbers, so that heroic measures were decided upon. The large leaves were cut off, and the beds allowed to get pretty dry for a week or two days. Now they are looking in the best of health.

G. W. OLIVER.

## Providence.

Business was very flat at the opening of the week, but gradually increased, so that on the whole the week aggregated better than the average. Bulbous stock in general and fine cuttings were sold in excellent quality. Carnations still hold in favor and command good prices. Whites are plentiful, but cuttings are difficult to get in numbers. All roses are scarce and bring fancy prices, while second grades go at from \$1.00 to \$2.00 per dozen. Violets are popular and continue in good demand.

**Club Notes.**  
The regular monthly meeting of the Club was held on the 22d inst. President Macrae in the chair, and about thirty members in attendance. A paper was presented was Editor F. Fletcher, of the New England Florist.

The treasurer rendered his semi-annual report, showing that the Club was in an excellent financial condition at the end of the first year. The receipts were \$1,067.78; the expenditures \$1,055.56 for the six months, leaving a balance on hand (without any liabilities) of \$69.29, with \$50.00 owing to the Club by members for dues.

President Macrae spoke of the desire of the constitution committee to have as many plants as possible for decorative purposes during convention week in August next, and urged the members to give this matter attention. A communication was read from William J. Stewart, secretary of the A. S. F., to the effect that the executive committee would meet in this city on March 5.

It was voted that a committee of three should be appointed to make awards on any exhibition displays of new varieties to be exhibited before the Club. President Macrae, William B. Hazard and Matthew J. Myers so constituted.

Mr. Hazard suggested that a dance be held under the auspices of the Club in the next future and that a committee of a new hall and dairy house for this purpose. A committee consisting of Messrs. W. B. Hazard, D. D. E. Johnson, J. M. Hingson, T. Johnston and Walter Nichol was appointed to make the arrangements.

**Carnation Exhibits.**  
During the week there have been two fine exhibitions of new carnations at the store of E. J. Johnson—one, a fine large bunch of the new yellow Mayor Fitzgerald, sent by John Bretmeyer & Sons, Detroit, Mich., and the other, of Narragansett, a handsome promising pink, shown by J. F. Schellinger, of Riverside, R. I.

**Here and There.**  
T. O'CONNOR, who is forced to remove from 335 Westminister street by the tearing down of the building, has secured temporary quarters at 30 Dorchester street.

WILLIAM BUTCHER, who has been confined to his house by illness, is convalescing.

Mrs. CATHERINE A. NICHOL, widow of William N. Nichol, an old-time florist, died in this city on the 25th inst., aged 76 years.

John Nichol, of the late James Nichol, of Pawtucket, both well known florists, are sons of the deceased.

W. H. MAGNAN.

# THE GRAND SOUVENIR du

## NEW PRES. CARNOT

### ...ROSE... VIOLET JARVIS

Strong, Healthy Plants, out of 2½ inch pots,

READY MARCH 15, 1897.

\$3.00 per doz.; \$15.00 per 100; \$125.00 per 1000.

GO AT 100 RATES; 500 AT 1000 RATES.

Read a few of the many testimonials received of those who bought of the early propagated stock:

THE WESTERLY GREENHOUSES,

S. J. REUTER, PROP.,

WETTERLY, R. I., JANUARY 9, 1897.

MR. E. ASMUS.  
Dear Sir: The plants of *SOUV. du Pres. Carnot* arrived in excellent shape, and an more than pleased with same. They are excellent plants, better than any new stock we ever bought. Had also plants from another firm, and am sorry we had not ordered all from you, for your plants are well worth double the price. If all our stock of this rose is as good as those you sent us, no doubt you will get nothing but praise from all our customers.

Yours truly,

S. J. REUTER.

AMSTERDAM, N. Y., JAN. 12, 1897.

MR. E. ASMUS.  
Dear Sir: Rose *SOUV. du Pres. Carnot* have been received, and was thank you for sending us such nice plants. They are very satisfactory.

Yours truly,

JOHN C. HATCHER.

WEST SIDE HILL GREENHOUSES,

WATERBURY, CONN., JAN. 9, 1897.

MR. E. ASMUS.  
Dear Sir: The plants of *Carnot* arrived here in fine condition. We are much pleased with appearance of the stock.

Yours truly,

W. M. COTTLE, Manager.

CANNONVILLE GREENHOUSES,

NEW BEDFORD, MASS., JAN. 8, 1897.

MR. E. ASMUS.  
Dear Sir: Rose *Pres. Carnot* arrived yesterday in very good condition, and am very much satisfied with the stock.

Yours truly,

W. C. KRABER.

WELLERLY, MASS., JAN. 9, 1897.

MR. E. ASMUS.  
Dear Sir: New rose *Pres. Carnot* arrived here all O. K., and we are satisfied with them. Thanks for good cut.

Yours truly,

J. TAILBY &amp; SON.

MR. E. ASMUS.  
Dear Sir: The *Carnot* plants arrived here in good condition. Fine plants, full count. Thank you.

Yours truly,

FRANK L. MOORE.

GLENFIELD, PA., JAN. 9, 1897.

MR. E. ASMUS.  
Dear Sir: Boxes received here this day in very fine condition. Thanks for quality and careful packing.

Yours truly,

TH. ED. F. BECKETT.

BELMONT, CALIFORNIA, JAN. 13, 1897.

MR. E. ASMUS.  
Dear Sir: The *Pres. Carnot* rose plants arrived here in a handsome condition.

Yours truly,

MCLELLAN BROS.

FRANKLIN, PA., JAN. 8, 1897.

MR. E. ASMUS.  
Dear Sir: Plants of *Carnot* were very satisfactory and received in good condition.

Respectfully,

W. T. BELL.

OHANGE, N. J., JAN. 11, 1897.

MR. E. ASMUS.  
Dear Sir: Received the *Pres. Carnot* roses in good condition.

Yours truly,

R. MCARTHUR.

Mrs. E. MILLER,  
Florist and Seed Dealer,  
BROOKTON, O., Jan. 8, 1897.

MR. E. ASMUS.  
Dear Sir: The roses of *SOUV. du Pres. Carnot* arrived to-day in excellent condition, and I wish to thank you for the floral counts and particularly for the fine strong plants, which are far ahead of the usual quality of plants of new varieties as put on the market.

Yours very truly,  
P. H. THERKILLSON,  
Manager.

ADRIAN, MICH., JAN. 8, 1897.  
MR. E. ASMUS, West Hoboken, N. J.

Dear Sir: The *Carnot* roses reached us in very best of condition. They were very nice plants, much better than most of the new roses generally sent out. We are well pleased.

Yours truly,  
NATHAN SMITH & SON.

DAYVIDE (L. I.), N. Y., JAN. 15, 1897.  
MR. E. ASMUS, West Hoboken, N. J.

Dear Sir: The *President Carnot* ordered of you arrived in perfect condition, and are as strong and healthy stock as I have ever received of a new rose.

Yours truly,  
JOHN H. TAYLOR.

NORTH ASHOVER, MASS.,  
JAN. 9, 1897.

MR. E. ASMUS.  
Dear Sir: The rose, *Pres. Carnot*, arrived here in excellent condition, and the plants are strong and healthy stock as I have seen them so good, and more so being a new rose.

Yours truly,  
WALTER ANGUS,  
Gardener to Hon. M. T. Stevens.

MALDEN, MASS., JAN. 7, 1897.

MR. E. ASMUS.  
I received rose *President Carnot* in fine shape. Not a half broken. I think they are strong and healthy stock as I expected at this time of the year.

Yours truly,  
PETER BOLL.

JAMESTOWN, N. Y., JAN. 12, 1897.

MR. E. ASMUS.  
Dear Sir: Your plants of *Pres. Carnot* received all in good condition. We have potted them, and they are looking at the present time very good indeed.

Respectfully,  
A. L. THRELL, Manager.

DUNDEE, IOWA, JAN. 11, 1897.

MR. E. ASMUS.  
Dear Sir: *Pres. Carnot* roses came promptly to hand, well packed, in fine order. They are nice *thrifty plants* in good growing condition.

Yours truly,  
W. A. HARKETT.

KENNEBEC NURSERIES,  
BATH, MAINE, JAN. 8, 1897.

MR. E. ASMUS.  
Dear Sir: The *Pres. Carnot* roses came in first-class shape, and are good, nice, *thrifty plants*.

Yours truly,  
JOHN H. RAMSAY & CO.

TORRAN FARM,  
HYDE PARK, DETROIT, C. O., N. Y.,  
JAN. 9, 1897.

MR. E. ASMUS.  
Dear Sir: Rose *Pres. Carnot* received January 5 in fine shape, and am very much pleased with them.

Yours truly,  
GEO. C. TILLOT, Supt.

MR. E. ASMUS.  
LASSOWNE, PA., JAN. 8, 1897.

Dear Sir: The *Pres. Carnot* rose plants arrived here in good condition.

Yours truly,  
A. J. PENNOCK.

# E. G. HILL & CO.

## RICHMOND, IND.

TWO NEW CARNATIONS.

Both awarded A. C. S. Certificates.

### FLORA HILL,

Enormous White Ever-bloomer.

### MRS. MCBURNEY

Largest, Long-stemmed  
Salmon-pink.

SELECTED CUTTINGS,  
\$12.00 per 100; \$100 per 1000.

NEW ROSES.

### Souv. du Pres. Carnot.

The Grand Forcing Rose  
of recent years.

### Climbing Wootton.

RAMBLERS:

AGLAI—Yellow,  
EUPHROSINE—Pink,  
THALIA—White,

All the other New Roses of the year.

NEW EARLY 'MUMS.

### BRIGHT YELLOW, GOLDEN TROPHY

And all the Certificated  
Novelties for 1897.

TWO NEW BEGONIAS.

### REVOLUTION,

Double-woyled Rex, a thrived  
Novelty.

### BEAUTY OF RICHMOND,

Very free-growing Hybrid Rex.

ALL THE NEW CARNATIONS.

HARRISON'S WHITE,  
MAYOR PINGREE,  
JUBILEE, TRIUMPH,  
ARMAZINDY, ETC.

Send for our New List.

# E. G. HILL & CO.

## RICHMOND, IND.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

TUFF STUFF ON GREEN FLY  
IS TOBAC-OIL.

# ERNST ASMUS, West Hoboken, N. J.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Chicago.

The past week stock has been fairly cleared off, and of good roses there was barely enough sometimes to go around; hence prices have kept up tolerably well. This, however, does not mean increased business so much as a decidedly short cut. No. 1 of all the best being \$9, and from that down to \$3 for No. 3. American Beauty still holds up to \$6 per dozen for extra long stemmed flowers, and not many of these are coming in; \$10 to \$25 is the price for the larger portion, down to \$6 for shorts.

Carnations slackened up to supply somewhat, but they are plentiful enough for all demands, excepting now and then good whites. The general price is \$1 to \$1.50; a few bring \$2, and we did hear of some very large, stiff, long-stemmed Daybreak from Buetner that sold at \$3. The same party also had extra Russian valley that sold at \$4, but \$2 to \$3 is the common price.

Tulpe are now better in quality; the reddest shades are pink and yellow, \$4 is obtained for the best, \$2 for seconds. Herriell and longiflorum lilies are plentiful for all cuts, and the price ranges from \$5 to \$13. Quite a goodly number of these flowers is coming in small and badly, and do not bear shipment or rough handling. You still are now abundant and hard to clear off at \$2 to \$3. The quality of violets is improving, but prices still range from 75c to \$1. Excellent California are being sent from Elus Island, and they sell fully as well as the doubles.

We have been having more sunny days, but on Wednesday rain and snow was with us; Thursday and Friday were sunny and the weather moderate. On Saturday, however, came a blizzard unequalled in severity since 1873. Sunday and Monday the thermometer sat at 10 degrees below zero all day, mornings 20 to 25, and even lower, was reported by some. The result was that a good deal of the stock came into the market touched by frost, some samples being badly enough spoiled to prevent their sale. While this extremely low temperature prevails, sales will hardly be improved, and it seems to be general all over the country. Previous to this a decidedly open Winter has ruled here.

Jottings.

OTTO SPIEDEL, who since the World's Fair has been in the greenhouses at Lincoln Park, Chicago, will take the position of gardener to P. D. Armour, Jr., Oconomowoc.

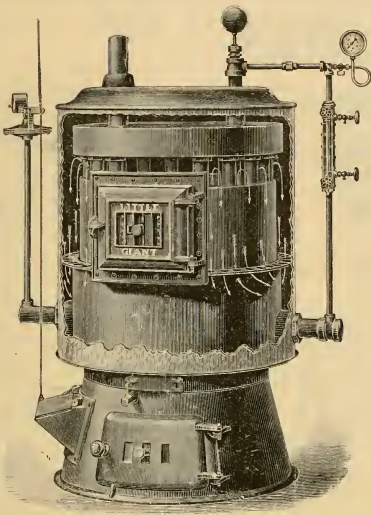
On January 22, at Hicelada, O. P. BARRETT met an irreparable loss in the death of his wife, aged 59 years. The immediate cause of death was blood poisoning, but she had suffered from cancer for some time. Everybody who knew Mrs. Barrett spoke in high terms of her most estimable character, and all deeply sympathize with Mr. Barrett in his bereavement.

On Wednesday the jolly face of FLEET WINSHOTT was once more seen at his office after a few weeks' absence on account of rheumatism. It appears now to be on a fair way to complete recovery.

ROBERT STRIO, of Charles, Zinn & Co., florists' baskets, etc., of New York, was seen among boys in the past week. Miss Stella Kanat, daughter of Fred. Kanat, of New York, was married the past week to James Grayson, and will be "at home" after February 1, at Tower Grove Park, St. Louis, Mo.

The Cook County Agricultural and Horticultural Society, at the annual meeting, January 25, elected the following officers: President Andrew Downing, vice-president John C. Ure; secretary and treasurer, C. J. Linde. Amasa, near Chicago, Ill., 121 S. Salle street.

The Florists' Club has elected the following officers: S. Murray, president; James P. Burt, secretary; W. W. Barnes, secretary; William Sharp, assistant secretary; A. A. Newell, treasurer; C. A. Barker, secretary. The Club was given a dinner by 'C. C. Ripley' after the business session of January 20. Mr. Ripley presided with a handsome testimonial by the members to show their appreciation of his services.



YOU CAN'T AFFORD

A POOR BOILER. WASTE COAL FREEZE.

to run a greenhouse with Your time is money and you

plenty of it a poor boiler consumes much more than a good one and produces less heat. You run the risk of having your stock

Improperly heated houses retard growth and never produce first-class stock. With a good boiler your savings one year in these particulars will pay for the boiler.

your requirements and we will give you price on a boiler delivered at any station in the United States, that will answer your requirements, and surprise you with results. We make a

to introduce where we have none in use, which we will fully explain upon inquiry.

EXPLAIN

SPECIAL PRICE.

CIBLIN & CO., Utica, N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Latania Borbonica

Specimen plants, from 8 in. pots 3 ft. high, and from 10 to 11 leaves, \$2.00 each; 6 for \$10.00. From 9 in. pots, 4 ft. high, and broad, 10 to 12 leaves, \$3.00 each; 6 for \$15.00.

DRACENA RECURVATA.

A fine bushy pot plant, with broad, grove and bronze recurved leaves, 15 to 20 in. high, 15 to 18 leaves, 35 cents each; \$3.00 per doz.

For other stock, see my ad of the 9th, 16th and 23d of this month. Cash with order.

N. STUDDER, - - - Anacostia, D. C.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

GALVA LEAVES.

CHAS. H. RICKSECKER, Linville, Mitchell Co., N. C.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

ELLIS & POLLWORTH, Wholesale and Retail Florists. Telephone Box 733, Phone 1234. Wholesale and Retail Florists. Wholesale and Retail Florists. Wholesale and Retail Florists. Wholesale and Retail Florists. Wholesale and Retail Florists.

IF YOU NEED WIRE WORK

It Would Pay You to Get Our BUYER'S GUIDE Before Ordering. . . .

OUR SPECIALTY IS TO SUPPLY ANYTHING IN THE FLORISTS' LINE.

YOUNG ROSE and CARNATION STOCK A LIST WORTH YOUR ATTENTION.

	Per 100	Per 100	Per 100
Fred. Carnot, ready March 15th, 3 1/2 inch stock . . . . .	\$15 00	Meteor, ready now, 3 1/2 inch stock . . . . .	\$3 00
Bride, ready now, 3 1/2 inch stock . . . . .	3 00	Beile Siebrecht, ready now, 3 1/2 inch stock . . . . .	3 00
Friendship, ready now, 3 1/2 inch stock . . . . .	3 00	Wentton, ready now, 3 1/2 inch stock . . . . .	3 00
Perle, ready now, 3 1/2 inch stock . . . . .	3 00	American Beauty, ready now, 3 1/2 inch stock . . . . .	5 00

CARNATIONS. VERY CHOICE STOCK, FREE FROM DISEASE OF ANY KIND.

	Per 100	Per 1000		Per 100	Per 1000
Morelo, new bright scarlet . . . . .	\$10 00	\$75 00	Meteor, crimson . . . . .	\$2 50	\$20 00
Flora Hill, new large white . . . . .	12 00	100 00	Alaska . . . . .	2 00	18 00
Mrs. McBurney, new light pink . . . . .	12 00	100 00	Silver Spray . . . . .	2 00	15 00
Mrs. Chas. Dufrene, new dark pink . . . . .	10 00	75 00	Rose Queen . . . . .	2 00	15 00
Mrs. Geo. Broad, new white marked scarlet . . . . .	10 00	75 00	Wm. Scott . . . . .	2 00	15 00
Harrison's White, new sport from Scott . . . . .	10 00		Daybreak . . . . .	2 00	15 00
Every white . . . . .	8 00	25 00	Rose Queen . . . . .	2 00	15 00
Della Fox, pink . . . . .	4 00	25 00	Goldfish . . . . .	2 00	15 00
Delville, scarlet . . . . .	4 00	25 00	Tidal Wave . . . . .	2 00	15 00
Triumph, pink . . . . .	5 00	40 00	Lizette Gilbert . . . . .	1 00	
Armandine, varieg . . . . .	5 00	40 00	Pres. Garfield . . . . .	1 00	
Bridemaid, pink . . . . .	2 50	20 00	Dazzle, scarlet, new, 1896 . . . . .	4 00	35 00

We will exchange CANNA STOCK for TIDAL WAVE, DAYBREAK or STORM KING CUTTINGS.

ELLIS & POLLWORTH, PALMS, FERNS, FLORISTS' SUPPLIES, 137 Oneida St., MILWAUKEE, WIS.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

TUFF STUFF ON GREEN FLY IS TOBAC-OIL.

# THREE NEW RAMBLERS IN ROSES.

## COMPANION ROSES TO CRIMSON RAMBLER.

One of them (AGLAIÄ) is the first and only Hardy Yellow Climbing Rose and is therefore an immensely important introduction.

### DESCRIPTIONS.

**AGLAIÄ, or YELLOW RAMBLER.** A seedling from Rosa Polyantha Sarmantosa (Siebold) crossed with Reve d'Or. Has withstood unprotected and without injury a continued temperature of from zero to two degrees below, and, with slight protection in winter, will do well anywhere that other roses succeed. Color, a clear decided yellow. The flowers are borne in immense pyramidal clusters, after the manner of Crimson Rambler, often 120 to 150 in a bunch, and last three to four weeks without fading.



AGLAIÄ.

This cut also well represents the growth and manner of blooming of the other two Ramblers.

### EUPHROSYNE, or PINK RAMBLER.

A seedling from the same Rosa Polyantha Sarmantosa (Siebold) crossed with pollen from Mignonne. Color, a clear bright red with numerous golden anthers. A very strong grower and profuse bloomer. Much like Aglaia in all characteristics but color.

**THALIA, or WHITE RAMBLER.** A seedling from the same Rosa Polyantha Sarmantosa (Siebold) crossed with pollen from Paquette. Pure white. In other respects very similar to Aglaia.

All three of these Roses are exceedingly vigorous growers, making shoots eight to ten feet high in a season, and all bloom in handsome big clusters after the fashion of Crimson Rambler, to which, through the Rosa Polyantha Sarmantosa, they are related.

## WE WANT

Every florist and seedsmen who reads this to handle these valuable new roses, especially "Aglaia" of which we have prepared a fine and large stock. We will supply at very small cost handsome circulars describing the "Aglaia," or will supply a moderate quantity of them FREE. Will also send FREE several copies of a fine Color-type Plate, illustrating the "Aglaia" to all florists and dealers who will put them up in their stores or offices and handle the plants among their customers. Electrotypes of any of our "Aglaia" cuts will be loaned FREE to seedsmen and dealers for catalogue use. These roses are most important introductions and will be quick sellers. Secure your share of the profit to be made in handling them, by writing us at once. All the retail business upon them will be done by our customers. Our trade is wholesale only.

STRONG PLANTS FROM DEEP 2-1 2 IN. POTS FOR DELIVERY AFTER MARCH 1.

40 cts. each.	\$3.50 per 100.	} 5 of one variety at 10 rate.
\$30 per 100.	\$250 per 1000.	

**JACKSON & PERKINS CO., NEWARK, NEW YORK.**

Our Trade List of Field Growth Roses, Shrubs, Trees and General Nursery Stock will be mailed on application.

### The American Beauty.

I have just finished making my last batch of Beauty cuttings, and while doing so have been thinking that for this week's notes a little talk about the rose will be in order, not that I expect to teach large growers anything about it, and if there are some who have had good results growing it differently from me, it certainly would be their policy to still pursue their own course.

Plenty of good wood can now be got, providing the plants have done well, from cases that have run up to the roof without setting buds. These I cut down about two feet of the buds, as long as they are feathered below that, and use for propagating. Although this wood may be termed blind, it answers the purpose admirably, at the same time my experience is, that from where the canes are cut off, they throw a shoot that will surely flower after growing from one to two feet.

Those who have not cut their cuttings of this variety in before this time should lose no time in doing so, as a strong plant and healthy plants is needed to give the best early results. The making of the cuttings, and how to propagate them I have told you about before, and remember from the time they are ready to be planted over the ground never have the least check, or black spot will surely make its appearance, which I suggest you might spot will not be covered with any application, but it will by two or three. This solution takes a much longer time to dry or clean on old wood, and therefore should only be applied on bright days, and when conditions are most favorable for drying off.

This fungicide is also a good remedy for anthracosis. If this disease makes its appearance on a plant it should be applied at once, as in some instances, if neglected, the trouble will soon spread.

Temperature plays a very important part in the propagation of colored flowers, and a remunerative quantity. With a high temperature at not less than 70° Fahrenheit, a large percentage of them comes blind; 80° degrees nights is the most for me to get the best results; in, when firing is being done.

During the last holidays I was lucky to be on time with a crop of Beauty. That was a fortunate thing for me, as my part as regards a crop coming in at a certain time, I am aware, but still good judgment was done for me to wait to when the first crop is out and last budding done. Last season, contrary to what I have done before, I cut wood from two to three weeks earlier—September 30. My reason for doing this was that when the next growth started it would get a much stronger sun to develop flowers before in them than it cut later, and at the same time it is cut earlier.

## TUFF STUFF ON GREEN FLY IS TOBAC OIL.

## BRIDESMAID has a wide reputation.

PARENT S' STOCK still exists in perfect condition at the Sunnywoks Greenhouse. Orders for 36 plants for \$10.00 per doz. Also Bride, Beauty, Testout, Meteor, and Rose.

FRANK L. MOORE, Goshalm, New Jersey.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

For more than ten years we offer the largest stock of newly budding.

Different kinds, and for our judiciously selected.

ROSE SHOPS  
222 SINGER'S CORNER CO.  
Bee Growers West Gro. Co.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Christmas, which they were, and almost every shoot, with the exception of a few at the warmest and the longest of the day. The plants are not quite so large as formerly, but still I am satisfied with their returns.

It may be remarked that cutting them at this early date is not the usual practice of chrysantheums, but I find they sell well even if chrysantheums are all the go.

To plant up in greenhouses, or in the open and best method is to put up a standard made of 1-inch pipe at each end of the bench for a wire to be stretched over them stretching a wire from one end to the other immediately over the top of the plants. The first line will be about a foot from the bed, and as the plants grow taller, others are stretched along a foot above each other until the top reaches. It is very important that the growths should be kept tied up straight; bending down, or their starting them up from the bottom, I don't like, as with me it has always resulted in short stemmed flowers that are not of a good quality; it also has caused the foliage in some places to become too much matted, thereby shutting out light that belongs to other plants.

There are more shoots that grow to the roof without setting buds than I need for propagating, rather than turn them down, but I cannot do this until the plants are when they most invariably give a fine flower after growing a stem about 18 inches.

In looking over the plants for cuttings just now you will find quite a number of them that are starting a root. These can be cut without them, as in two weeks' time when the sun gets more power, you will find that these cuttings will strike and leaves and then flower.

This rose being a very strong grower, needs a little more of soil than most others, and also likes a very liberal amount of feeding in the shape of cow and sheep manure.

In carrying over plants the second year, at the beginning of the year, or earlier, is the time to commence if the flowers are not needed; the plants should be gradually dried out, stopping the water being done to keep the wood from shriveling. The soil will get so dry that the plants will not be able to stand and burn them. A few plants will be found, especially in the inside row, that are not so healthy as the others, and should be cut off and thrown away. It is better to do this when drying off is started, as they can be put in a foot of soil, and the ground ran a spade along the bottom of the bench under each plant and lift up. The soil they should be very hard, but should be all taken off clean with the least possible injury to the roots.

When in this state they should be very hard, but should be all taken off clean with the least possible injury to the roots. When in this state they should be very hard, but should be all taken off clean with the least possible injury to the roots. When in this state they should be very hard, but should be all taken off clean with the least possible injury to the roots.

They should be carried to the shed or greenhouse and set on a bed of straw, and the benches same as for young stock and replant. It will be found necessary to water the plants in the greenhouse, and requires to be exercised in planting them properly. Don't make a small, deep hole in the soil, but make a shallow one, and when the plant is put in (as was before), then spread out the roots evenly, cover up, and firm the soil by treading it, and water thoroughly with water. After this they should be left alone with the exception of syringing until the bed has become very dry. We should be judiciously until the plants have begun to make a fairly good headway, increasing the quantity of water to keep them in it.

When treated in this way they start to make new roots in a very few days. They would not be likely to be lost in this way and have done the same myself. Although some of the finest blooms of the year were from these plants, I still have a preference for young stock, if strong and healthy, inasmuch as you can see if it is likely to be a fairly strong one to a more uniform lot.

A little trouble experienced with two-year-old stock in that they do not grow quite as strong as others, and the first flowers that come are mostly in a crop of short flowering and intermediate. I had not got so good young stock and the old ones were in first class condition I would not hesitate one minute about planting the latter.

H. H.

Central, N. Y.

IT GROWS. IT BLOOMS. IT SELLS.

# President Carnot.

SEE OUR ADVERTISEMENT IN NEXT ISSUE.

## President Carnot Rose.

We won First Premium with this rose at the great Indianapolis "Mum" show last November, with stems from 3/4 to 4 ft. long. We have a fine stock of own roots and grafted plants.

Write for prices.  
**W. W. COLES,**  
 Maple Hill Rose Farm, - - - KOKOMO, IND.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## CARNATION AND COLEUS CUTTINGS.

Strong, well-rooted cuttings of the following varieties, free from rust, South, Florida and Michigan, \$1.00 per 100. Alaska, Rose Queen, Storm King, Peach Blow, Helen Keller, Minnie Cook, Jack, Liarte Gilbert, Meteor and Darbyac \$2.00 per 100. Delta Fern, Hideraco and Boston d'Or, \$1.00 per 100. Geraniums, 7/8 in. pot, \$2.00 a pair. 100. Unless, on mail, fine, Veranda and Golden Bicolor, \$1.00 per 100. Cash or satisfactory reference.  
**GEO. M. EMMANS,** Newton, N. J.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## Novelties of Malmaison Carnation.

Self Colors, 3 to 4 inch stems, very fragrant. Mrs. Everett Langley, Princess May, The Church Warden, Madame de Prasart, Pride of Great Britain, Edouard and Marie, \$1.50 each. Price in England shillings, 100. The old show de Malmaison, \$1.00. Harder Carnations—Hardy, such as Germania, Princess de Paris, etc., in self colors, 100f each, per 100, \$1.50. —Sourires de Sals (new), each pink, 100, \$3.00. Old varieties, Majesty, Shillette, Juliette, 65c. —Perle, 65c. Monthly, Buttercup and Boston d'Or rooted cuttings, 100f each. Cash or satisfactory reference.  
**ALBERT KNAPPER,**  
 FRANKFORD, - - - PHILADELPHIA, PA.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

...ROOTED...

## Rose Cuttings.

Healthy, well-rooted cuttings from the best flowering wood.

**METEOR,**  
**SIEBRECHT,**  
**WOOTTON,** - -  
**SUNSET,** - - \$1.50 per 100.  
**PERLE,**  
**BRIDE,**  
**BRIDESMAID,**  
**TESTOUT,** \$2.00 per 100.  
**BEAUTY,** \$2.50 per 100.  
**L. L. MAY & CO.,** - St. Paul, Minn.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## NOTICE. GRAFTED ROSES

And on their OWN ROOTS,  
 Carnations, Chrysanthemums and Violets  
 WILL BE GROWN TO ORDER ONLY.  
 If You Want Fine, Strong Stock, Send for Price List.  
**A. N. PIERSON,** Cromwell, Conn.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## German Farmers, German Gardeners and Amateurs

'Are considered very Desirable Customers by All Seedsmen, Florists and Nurserymen.  
 You can reach almost THIRTY THOUSAND of them in all parts of the United States by advertising in

## HEROLD DES GLAUBENS

CATHOLIC GERMAN WEEKLY JOURNAL.

Published at 309 Convent Street, St. Louis, Mo., Since 1850.

## NET ADVERTISING RATES PER INCH

From Which There is No Deviation:

1 Time.....	\$ 1.00
4 Times.....	4.00
15 Times.....	10.00
25 Times.....	15.00
42 Times.....	30.00
1000 Lines in one year.....	42.50

Do not allow your advertising agent to substitute another paper as being "just as good," etc., but INSIST upon going in *Der Herold des Glaubens*.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## New Rose, Yellow Rambler

(A.G.A.I.A.)

The only hardy yellow rose. A splendid companion to the Christian Reformer. Bound to become popular! Buy while the stock lasts. First 2 1/2 in. plants, \$1.50 per 100. Address

**THE DINGEE & CONARD CO.,**  
 Rose Growers, West Grove, Pa.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## ...ROSES...

From 2 1/2 in. pots, strong and in excellent shape, \$1.50 per 100; \$3.00 per 100.  
**Bride,** Bridesmaid, M. M. Stanley, M. N. I. Marie Guillot, Mary Washington, Louis Richard, Pink Support.  
**EMPEROR OF CHINA**—The new overblooming hardy Pink Climbing Rose, grows as rapidly as a Morning Glory; bound to become popular. \$3.00 per 100; \$2.50 per 100.

## ...GERANIUMS...

The very best varieties, strong plants, from 5 1/2 in. pots, ready to plant for \$1.00; \$2.00 per 100; \$3.00 per 100.  
**Hesteramb, Le Piolet, Jas. V. Burkland, Grand Chrysanthemum, Le Favorit, Mrs. Chua, Penae, Californian.**

Our New Seedling Geraniums, Mrs. Doyle —Bound to take the place of Hesteramb and other geraniums that claim to be the best in color, size of flower, freedom of bloom, and a decided freedom from rust. In short, the best and qualities that go to make up the ideal bedding Geranium. \$1.00 per 100; \$2.00 per 100.  
**J. A. DOYLE,** - Springfield, Ohio.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## ROSES.

### HIBISCUS AND GERANIUMS.

Roses, Strong plants, 7/8 in. pots, \$2.25 per 100; 100.00 per 100. By mail, 25c. per 100 additional.

Argentine	Maria Yoo Houttel
Archduke Charles	Blodia
Bou Sileas	Reveret
Belier	Heter
Blademaid	Marie Camille
C. Souper	3ime, treble Heribad
D. of Albany	3ime, C. de Neuchatz
Devoniana	3ime, Lambard
Dr. J. G. Schlegel	3ime, Schwallier
Ernst	Princess of Sagan
Gen. Tarnis	Princess's Secret
Goldensiebel	Queen of France
La Paotole	Sombull
La Princesse Vera	3ime, Blanche France
M. Nini	The Queen
M. Nini	Victoire Hugo
Marie Guillot	White La France

TERMS: CASH WITH ORDER.  
**R. H. MURPHEY,** Urbana, Ohio.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## REINBERG BROS.

Strong, Healthy ROSES From 2 1/2 inch pots.

AMERICAN BEAUTY and TESTOUT..... \$5.00 per 100; \$40.00 per 1000  
 OLDSN OATS, PERLE, BELLE SIEBRECHT, METEOR, BRIDE, BRIDESMAID, KAISERIN  
 and LA FRANCE, \$1.00 per 100; \$10.00 per 1000. No orders for less than 100 of one variety accepted. We are the largest Rose growers in the United States, and can fill all orders with the very best stock.

Rose Cuttings upon application.

**CARNATIONS—Rooted Cuttings.**  
**IVORY and DELLA FOX**..... \$3.00 per 100; \$25.00 per 1000.  
**ROSE QUEEN**..... 2.50 " " 20.00 "  
**Wm. SCOTT, DAYBREAK, HARRY HAWKS, TUDAL WAVE, ALBERTINA, PORTIA, LIZZIE WILBERT, CORSAIR, LIZZIE MCGOWAN, STORM KING and SILVER SPRAY,**  
 \$1.00 per 100; \$8.00 per 1000. No orders for less than 100 of any one variety accepted.  
 The above stock is well rooted and free from rust. Send orders to

**51 WABASH AVE., CHICAGO, ILLS.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE



## GREAT BARGAINS IN ROSES

We've overstocked with Roses, and in make room we will almost give them away. Fine plants, from 2 1/2 inch pots, in any of the following varieties, \$2 PER 100; \$18 PER 1000. Buy quick! The offer not good on all plants in said.

50 Mrs. J. S. Bahals.	1000 Argentinian
1000 Bell of Sancy.	1000 Charles Souper.
1000 Bonheur.	1000 Duchess de Prabant.
500 Queen.	500 Double Secret.
500 Mrs. J. S. Bahals.	1000 White La France.
500 Mrs. Washington.	1000 Striped La France.
	1000 Marie Guillot.

Terms Cash. Samples Postpaid for 1lb.  
**G. YOUNG & SONS CO.,** 1406 OLIVE ST., ST. LOUIS, MO.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

...TWO GRAND... **NEW CARNATIONS** ...FOR 1897...

**Lily Dean.** A very large, bold, handsome flower, pure white ground, with very delicate margin and penciling of clear pink, making it exceedingly beautiful and attractive. One of the very freest blooming varieties known. Should be grown in a temperature of not over 50 degrees at night, otherwise the very large flower is too heavy for the stem. The plant is a strong vigorous grower. It has been certificated wherever shown. Price \$2.50 per doz.; \$10.00 per 100; \$75.00 per 1000.

**Maud Dean.** Delicate blush white, gradually deepening to center, making it the most distinctly beautiful and attractive flower ever sent out; it is also one of the most delightfully fragrant carnations known; its keeping qualities are remarkable; an extra well built flower with good stiff stem which always carries it erect, making it an ideal flower. It has received certificates from the A. C. S., Philadelphia, New York, Orange, Springfield and many other societies. Price \$2.50 per doz.; \$10.00 per 100; \$75.00 per 1000, ready March 1st.

The flowers of these two varieties have sold in New York market at 200 to 300 per cent. above any others for the past two years. Commissions for cataloguing above Carnations, 15 per cent.

**NEW CHRYSANTHEMUMS FOR 1897**

**Elvena.** A very beautiful soft silvery pink throughout, of a very pleasing shade; the most valuable early pink to date; broad, incurved petals, extra good stem and foliage. Season October 10th to 15th. Certificate C. S. of A. Price 50 cts. each; \$5.00 per doz.; \$35.00 per 100.

**Elainora.** Deep pink, reverse clear rose; large hold handsome incurved flower with good stem and foliage; second early. Certificate C. S. of A. Price 35 cts. each; \$3.50 per doz.; \$25.00 per 100.

**Evangeline.** Pure white of Kioto form; the greatest novelty of the year. Six Certificates in 1895. Altogether one of the very best ever sent out. Price 60 cts. each; \$6.00 per doz.; \$40.00 per 100.

**Loantika.** Bright clear red, very early and large; flat petalled, reflexed, but very full. The best early of this color. Season 10th to 15th of October. Price 35 cts. each; \$3.50 per doz.; \$25.00 per 100.

**Leonidas.** Amaranth, shaded maroon, very large, with straight flat petals forming a bold imposing flower. A very fine exhibition flower. Certificate C. S. of A. Price 35 cts. each; \$3.50 per doz.; \$25.00 per 100.

**Symphonia.** A very beautiful shade of carmine pink, reverse soft silvery pink, incurved and very compact; Ivory form of medium size. A fine bench variety, 18 to 24 inches high. Price 50 cts. each; \$5.00 per doz.; \$35.00 per 100.

**NEW CLIMBING ROSES FOR 1897.**

**Climbing Wootton.** A sport from Souvenir de Wootton and identical with it in color, size of flower and fragrance, but an exceedingly strong, vigorous grower, producing canes 10 to 15 feet long in one season. It is perfectly hardy in this section, and will prove a grand addition to this class; where the canes are well ripened, if slightly bent over in the Spring, it will produce an abundance of flowers covering the whole stem. Good, strong plants, from 3 inch pots, \$2.00 per doz.; \$10.00 per 100. Extra strong year old plants, \$4.00 per doz.

**Yellow Rambler.** Identical with the Crimson Rambler, except in color, which being a pure yellow will fill a long felt want, and as such will be a great acquisition to this class of roses; for all purposes it is equally vigorous, hardy and floriferous. A grand new variety Price 45 cts. each; \$4.25 per doz.; \$30.00 per 100. Ready March 1st.

**Souv. du Pres. Carnot.** The sensational rose of the season, and a grand forcing variety in every way. No live florist can afford to be without it for next season. My advice is to order early if you want the best stock. Extra fine healthy plants, from 2½ inch, \$15.00 per 100; \$125.00 per 1000. Can be shipped as required.

**Clara Watson.** This is one of the most beautiful H. T. Roses, of the largest size, very fragrant and fine form. The predominating color is salmon pink, blended with blush pink on the outer edge of the petals, with just enough yellow at the base to bring out the whole, making it a very artistic and distinct flower. It is a very strong grower and very free flowering, and will become a general favorite when better known. It is also a grand Summer bedding rose, good strong plants. Price \$3.00 per doz.; \$15.00 per 100.

And all the Standard Varieties of ROSES in Teas, Hybrid Teas, and Hybrid Perpetuals for forcing, bedding, etc., at bottom prices. See my Trade List, now ready.

**JOHN N. MAY, Summit, New Jersey.**

# Famous Carnation Delia Fox

## CARNATION CUTTINGS

Strong and well rooted, of the following varieties: Jubilee, Frimpp, Armasindy, Alaska, Bridemaid, Duan Hele, Goldfish, Lizzie McGowan, Mme. Alberti, Meteor, Peachbloss, Rose Queen, Silver Spray, Wm. Scott, Uncle John.

**PRIMULAS**, 2 1/2 inch, \$2.00 per 100.

Send for list and prices on large lots.  
**Logan Ave. Greenhouses, - Danville, Ill.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## NOW READY

**50,000 Healthy, Well Rooted Carnation Cuttings**

Of the Following Varieties:  
 William Scott, Lizzie McGowan, Tidal Wave, Portia, at \$1.50 per 100, \$10.00 per 1000.  
 Daybreak, Anna Webb, J. J. Harrison, Bridemaid, Dais Alberti, Alaska, Lizzie Gilbert, Robinson, and Jacquemint, at \$2.00 per 100, \$15.00 per 1000.  
 The Rose Queen at \$2.50 per 100, or \$20 per 1000.

By mail 10 cents per 100 additional. Cash with orders from unknown correspondents.  
**James Moran & Son, Bridgeport, Conn.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## PARIS'S EXCHANGE

The following selection of Winter Flowering Carnations contains all the newest and most profitable market varieties yet introduced, they are all exceptionally vigorous, the flowers are large, with perfect calyx, and most profuse bloomers.

**CANARY BIRD.** Large yellow, with a bright scarlet eye, the flower is full and well formed. 8s. per doz.; 40s. per 100.

**DUKE OF YORK.** Flowers very large and full, on long stiff stems, color very rich velvety scarlet crimson, color performed. The plant is exceptionally vigorous. Certified H. H. S., London. 4s. per doz.; 50s. per 100.

**HENRY GIBBONS.** Flowers large and full, growth vigorous and very free, free bloomer, and of vigorous constitution. 8s. per doz.; 45s. per 100.

**LEONIDAS.** A magnificent variety, bright crimson scarlet, large flower, growth vigorous and very free. 7s. per doz.; 65s. per 100.

The above are all strongly rooted plants from 3 1/2 in. pots. Packing free, and freight paid to New York, London or Philadelphia.

Cash with Order, or Satisfactory Reference.

**R. H. BATH, THE FLORAL WISBECH, ENG. FARMS.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Should be grown by everybody. The past season most have taught all growers that the high-grade Carnations are the only ones that were profitable, and **Delia Fox** stands above them all for size, color and stems. Rooted cuttings now ready.  
**MYERS & SAMTMAN, Wyndmoor, Chestnut Hill, Phila.**

## Carnations!

(Rooted cuttings now ready.)  
 Mayor Fingree, Meteor, McGowan, Daybreak, Scott, Portia, and all other good ones.

**Good Healthy ROSES for Spring Delivery.**  
 Send for price list.

**CUT ROSES and CARNATIONS always in stock.**  
**H. DALE, - - Brampton, Ont.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## ROOTED CUTTINGS. CARNATIONS.

50,000 Scott	.....	\$1.00	per 100
50,000 McGowan	.....	1 00	" 100
50,000 Daybreak	.....	1.25	" 100
10,000 John King	.....	1.25	" 100
10,000 Portia	.....	1.10	" 100
10,000 T. Wave	.....	1.10	" 100
10,000 Anna Webb	.....	1.10	" 100
10,000 Mrs. Fisher	.....	1.10	" 100
5,000 Meteor	.....	1.25	" 100
5,000 Eldorado	.....	3.00	" 100

**EDW. J. TAYLOR,**  
 Cash or Reference, 807 FIFTH ST., CINCINNATI, OHIO  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# CARNATIONS



## NOVELTIES FOR 1897

### NEW SEEDLING CARNATIONS.

**BREITMEYER'S Mayor Pingree.** Color clear lemon yellow, lightly marked with pink and occasionally splashed with white. A very strong robust grower, continuous bloomer, perfect cropper. Blooms from June to October. Stems extraordinarily stiff and from 18 to 30 inches measure 2 1/2 to 3 inches and over in diameter. Excellent keeper, very productive. Cuttings strike readily, and promises to be a splendid yellow commercial carnation. Certified wherever shown. \$2.50 per doz.; \$10.00 per 100; \$75.00 per 1000.

**FRED. DORNER'S Geo. M. Bradt.** (Seedling 1895.) Color clear white, heavily edged and striped with bright rising. It is a very bright and cheerful appearance. Flowers large and full, with center petals standing erect, giving the bloom a well-rounded form. Calyx resembling Mme. Alberti. Habit strong and vigorous. This variety is now in its fourth year, and has proven the most even and constant bloomer for many years.

Received Gold Medal at Atlanta. Certificate at same place and at Chicago. \$2.50 per doz.; \$10 per 100; \$75 per 1000.

**FRED. DORNER'S A. Dana.** Delicate shell pink. A cross of Scott on Uncle John. Vigorous, wiry grower, erect habit; medium to large flower on stiff, wiry stems; color very soft and exceptionally pleasing; flower a splendid keeper; one of the most attractive pink carnations. \$12 per 100.

**FRED. DORNER'S Mrs. Chas. H. Duhme.** (Seedling 1902.) Color lively delicate pink; large flower fragrant, with some pink on strong, stiff stem. Plant vigorous, erect grower, a very early free and constant bloomer, much more so than any of the light pink varieties, rivaling in productiveness with Scott. This promises to be the best of the light pink commercial varieties.

Certificate Indianapolis and Philadelphia. \$2.50 per doz.; \$10 per 100; \$75 per 1000.

**JOHN N. MAY'S Lily Dean.** A very large, bold, handsome flower, pure white ground, with a delicate margin and center of clear pink, making it exceedingly beautiful and pleasing. One of the very best blooming varieties known. Should be grown in a temperature of not over 50 degrees at night, otherwise the very large flower is too heavy for the stem. The plant is a strong, vigorous grower. It has been certified wherever shown. \$2.50 per doz.; \$10 per 100; \$75 per 1000.

**Ed. G. HILL'S Flora Hill.** Received N. C. S. Certificate February, 1896. Grass moderately heavy. Very free and healthy in growth and very free in bloom. Strong only, moderately stiff stem, indifferently keeper.

**Harriet's White Sport** from Wm. Scott. A snow white sport from Wm. Scott, having all the good qualities of its parent. Probably the ideal white commercial carnation. Every florist should try it. \$2 per doz.; \$10 per 100; \$75 per 1000.



**Harriet's White Sport** from Wm. Scott. A snow white sport from Wm. Scott, having all the good qualities of its parent. Probably the ideal white commercial carnation. Every florist should try it. \$2 per doz.; \$10 per 100; \$75 per 1000.

**BOSTON FERN.**—Stock plants, from 5 and 6 inch plant, at \$3.00 to \$4.00 per dozen.

**WHITE LILAC Mary Le Gray.**—From fine plants at \$30.00 to \$40.00 per 100; \$4.00 to \$5.00 per doz.

**GERANIUM.**—A select list of 40 varieties for bedding purposes.

### Well I Should Smile!

**JOHN N. MAY'S Maid Dean.** Delicate blush white, gradually deepening to center, making it the most distinctly beautiful and attractive flower ever sent out. It is also one of the most delightfully fragrant carnations known. Its keeping qualities are remarkable; an extra well-built flower, with good, stiff stem, which always carries it erect, making it an ideal flower. It has received certificates from the U. S. S., Philadelphia, York, Orange, Springfield and many other societies. \$2.50 per doz.; \$10 per 100; \$75 per 1000.

**CANNAS.**—A fine stock of new Yellow Barbanks, All o Austria, Italia, Sunbeam, Mme. Crozy, Queen Charlotte, Chas. Henderson, Bouvier, and other standard sorts.

**DAHLIAS.**—A selected list of 43 distinct sorts for Florists' use.

### SEND FOR PRICE LIST

# THE COTTAGE GARDENS, C. W. WARD, Manager, QUEENS, N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## QUESTION BOX.

OPEN TO ALL . . . FREE TO ALL  
Answers Solicited from Those Who Know.

- (29) Disbudding Pansies.—B. SISTERS. The size of pansy blooms is created by the strain rather than by removing the buds.
- (30) Raising Material for Sweet Peas.—B. SISTERS. Any kind of soft, clean string (usually either white or green), or florists' twine, similar to what is used for such strings, etc., will do.
- (31) Lithium Longiflorum for Easter.—B. W.—It should be very easy to bring these into bloom for Easter with only a normal temperature. That event being so, warmer the better. When the seeds begin to germinate, the young plants are taken out and potted up in small pots. Owing to the seed germinating irregularly the seedlings have to be gone over at intervals, and those which have started taken out.
- (32) License to Peddle Seeds, Plants, etc., in Maryland.—Wm. M. WHITEFORD. According to the laws of Maryland, any person buying seeds to peddle or sell them again is required to pay a license of \$10.00. The same holds good for plants, but I am not aware that this law is strictly enforced.—E. A. S.
- (33) McGowan Carnation.—The specimens arrived in bad condition; those for name were beyond recognition. The McGowan buds and flowers appear to be suffering from an overdose of some nitrogenous matter. The roots and growths were perhaps not in a condition to assimilate so much, and this led to the trouble in the flowers. From your information the temperature was all right.
- (34) Red Spider.—INQUIRER, Mass. Water is the foe of red spider. Dry heat creates the pest; moisture and ventilation prevents its breeding. Use your judgment and act in between. If the pest has got the best of you, choose a bright morning and turn a strong spray on the foliage, using all the force you dare. Do it thoroughly. You may lose some flowers of present crop, but that is better than losing the plants entirely.
- (35) Field Mice in Carnation House.—Can any of your readers give me information how to destroy field mice? I have been pestered all Winter with them in my carnation houses; have tried all the means I can think of in the shape of poisons but they prefer cutting off the buds, chiefly of the white varieties. From 100 to 150 blooms are thus destroyed in a single night. I have tried cats, but the mice are too numerous for them.—A. READER.
- (36) Propagation of PANDANUS VETCHII.—J. W. C.—Pandanus Vetchii is propagated solely from off-shoots, the large plants being grown specially to produce these. The off-shoots are taken when small, and either rooted in sand or each one is placed in a small pot and rooted in that way. The last method is preferable. They require strong bottom and top heat to propagate them quickly, and an average store heat afterward. Green off shoots are easiest.

(37) To Sow Seed of Asparagus Plumosus NANUS.—B. SISTERS. Sow in shallow boxes in loamy soil; cover the seeds lightly with a light mixture, and give a little higher temperature than is given to the growing plants. Cover the flats with glass and open paper to withhold light and prevent evaporation. Remove the coverings occasionally to avoid condensation and mold. Seeds frequently germinate freely on the beds where grown.

(38) Sowing Lithium Borbonica Seed.—H. B., Jr.—Sow in shallow boxes or put each seed in a 2-inch pot. When large quantities are being handled, the seed is usually placed quite thickly in small flats and covered slightly with light soil, and the boxes kept on or near the pipes under the bench, or on a shelf in a warm house—warmer the better. When the seeds begin to germinate, the young plants are taken out and potted up in small pots. Owing to the seed germinating irregularly the seedlings have to be gone over at intervals, and those which have started taken out.

(39) Changing from Carnations to Violets—I have a north and south house, 12 ft. x 30 ft., even span, 8x10 glass in each, aged 8 ft. Present heating arrangement will carry a night temperature of 45 to 50 degrees, when mercury shows 15 degrees below zero outside. The house is now planted with carnations, which are not doing well, I suppose on account of lack of proper heat and light, other conditions being, apparently, favorable. Would this house be suitable for violets under above conditions? If not, what changes would be necessary?—E. S. H.

—Apparently, there is not light and heat enough in your house to flower carnations in midwinter. The house may do well though for Fall and Spring or Summer. The house itself should do fire-rate for violets, if your soil, etc., is equally favorable.

(40) Annex as a Fern House.—Wm. STEPHAN.—We would think the house you describe well adapted for ferns of almost any kind. If used for Adiantum Farleyense, a night temperature of 68 to 75 degrees is needed; all other commercial ferns will do with 45 degrees night, and some with even a lower temperature. The question of kinds and how to grow them depends entirely upon local requirements, and that is a point you must settle yourself. If only cut fronds of Adiantum Farleyense are wanted, the house would be wise, and they in all probability would do well, but the advantage of pots would be apparent if you need at any time to store anything else in the house, or make a change.

(41) Vaporizing Ammonia in Rose House.—Will some grower enlighten me as to the slightest injury that could result if three quarts of water containing 2 per cent. of ammonia were vaporized in a 100x18-ft. house containing roses in full bloom?—A. S.

—I have never tried this, and furthermore would not like to venture it, as I have found there is enough ammonia in

the ammoniacal solution of copper to spot the petals, no matter how carefully it is sprayed. A drop less than the size of a pin's head will cause a brown spot.—H. H., Central N. Y.

—Is a house of the dimensions given, the danger to foliage and fruiting is diminished by applying the percentage of ammonia stated, especially if the household happen not to be quite tight. On the other hand, we fail to see what benefit could accrue from the practice named. Ammonia vaporized, in other words, free ammonia, is so volatile that the bulk of what should be lost of value goes out through the ventilators.

(42) Heating by Coil Boiler.—Which would be best, a box coil of 1½-inch or 2-inch pipe, a hose 100x20 feet, "slip" house, or what size of coil would it require? The greenhouse pit for the coil will be just 20 feet from the chimney to the dwelling. Would it be advisable to connect the furnace to this chimney, which is 15 feet high. My fuel will be slack.—J. L. MCLFORD.

—For a house of the size given, I would prefer to use 2-inch pipe, although 1½-inch coil could be used. With data as to locality and the temperature to be maintained, I can only give an approximate estimate as to the size of coil required. For 50 degrees I should use about 150 square feet, and for 60 degrees, 200 square feet would be required. This would require a box coil five feet long, and with six ranks wide in the one and eight in the other, each consisting of eight pipes. If the flue in the chimney at the dwelling is 12 inches or more in diameter and has no other opening, it may be used, but, as a rule, it will be better to have an independent chimney for the heater when the distance is as great as that given, and especially when slack coal is used.—L. R. TAPP.

(43) Changing from Hot Water to Steam Heating.—We would like to get a few ideas on heating an addition to our plant, and would like to be sure if our arrangements would be sufficient. We use at present the hot water system, and heat about 30,000 feet of glass, but we are erecting four new greenhouses, 20x100 feet, 6 feet at eaves and 13 feet at ridge, about 12,000 feet of glass, and have also had some other exposure and are brand new. We want to run one 2-inch snipe pipe at ridge, and drop down to ten line single returns and coils of five pipes each. Would that be sufficient to heat the houses with 30 horse power boiler?—PHILLIPS & Co.

—The heating plant seems well arranged, and the boiler should be ample for the purpose, while the size and number of pipes are the same as are generally used in houses 30 feet wide. Owing to the size of the stack at the side wall the amount of glass (3000 square feet) is considerably larger than is usually found in houses of this size, and one or two more pipes might be desirable in very severe weather for houses of this size. For Meteor, etc., and similar varieties. For ordinary Winter weather the ten returns would be ample.—L. R. TAPP.

## Heating by Coil Boiler.

I have recently erected three greenhouses, each 16x50 feet, three-quarter span, short span to the south, and I find they are very easy to heat, more so than equal span houses. I am heating with a coil boiler of my own make. The construction of this boiler is very simple. In making it cut a piece of 2-inch pipe 19 inches in length; have your return bends ready to screw together, then cut the next pipe so that the succeeding return bend will miss the first, or where you leave off, and so on until you reach the top. I have used in my coil six return bends. The last pipe will be about 30 inches in length. Put an elbow on the short pipe, also on the long one.

To set the coil lay the short side down, on brick, over your grates, there being two coils of the same size. Let these two coils come together at the top, like the roof of a house, over the grates (the longest pipes at top), then take your flows from each coil, and the bottoms for cold water. This system runs down hill.

I keep my rose houses at 65 degrees in zero weather with a low fire, grates surface being 20x20. This is a cheap, durable hot water heater. I have two flows and eight returns of 2-inch pipe. This heats one house 16x50 feet.

I will be pleased to furnish all information regarding this heater, if interested.—D. W. PAYNE.

PH. CLINTON, O.

## Hail Association.

Among recent members of the Florists' Hail Association is the New Jersey experiment station located at New Brunswick, N. J. Those who become members of the E. H. A. now are exempt from the seventh assessment, which will be levied March 1, 1897. Notwithstanding the hard times the Hail Association is still steadily growing.—JOHN G. ESLER.



## Vaporizing Tobacco Extracts made

easy and sure by using the TOBAC-OIL VAPORIZER—\$3.50 each. Money back if not satisfactory. Particulars by writing H. A. STOOHOFF, 315 MADISON AVE., N. Y. C.

# Worth of Tobacco Emulgates 2000 Square Feet

Of floor space, exterminates at one application all GREEN FLIES, is non-injurious to most delicate blooms, perfectly pure, white in color. Vaporizes completely, leaving no sticky, dirty residue, and smoke. IT IS OIL OF NICOTINE. If not perfectly satisfactory, your money back. BOOKLET FREE.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

H. A. STOOHOFF, 315 Madison Ave., N. Y.

**KEEP THIS FOR FUTURE REFERENCE!**

**H. WEBER & SONS' PRICE LIST**

**OAKLAND, MARYLAND.**

**CARNATIONS—ROOTED CUTTINGS.**

*Announcement to our many friends and customers:*

BY special arrangements with most of our friends who have new carnations to offer for 1897, we can fill your orders at their catalogue prices. No live florist can afford to do without these grand novelties, such as **Flora Hill, Mrs. McBurney**; Mr. Dorne's two novelties **Mrs. Chas. Duhme, Mrs. Geo. M. Bradt**; and Mr. Breitmeyer's **Mayor Pingree**. For more particular description see the introducers' advertisements.

**INTRODUCTIONS OF 1897.**

	Per Doz.	Per 100	Per 1000		Per Doz.	Per 100	Per 1000
Flora Hill.....	\$2.50	\$12.00	\$100.00	Mrs. Chas. Duhme.....	\$2.00	\$10.00	\$75.00
Mrs. McBurney.....	2.50	12.00	100.00	Mrs. Geo. M. Bradt.....	2.00	10.00	75.00
Mayor Pingree.....	1.50	10.00	75.00	C. A. Dana.....	2.00	10.00	75.00

Standard Varieties of our own growing, we believe, are as fine as can possibly be obtained, every precaution having been taken that no cuttings were taken from any plants that were in the least diseased in any way. Therefore we feel assured that they will give perfect satisfaction.

**STANDARD VARIETIES.**

WHITE.		PINK.		SCARLET.		
	Per 100	Per 1000		Per 100	Per 1000	
Alaska.....	\$2.00	\$15.00	Della Fox.....	\$5.00	Dazzle.....	\$3.00
Storm King.....	2.00	15.00	Abundance.....	5.00	Jubilee.....	5.00
Lizzie McGowan.....	2.00	15.00	Triumph.....	5.00	Portia.....	2.00 \$15.00
Uncle John.....	2.50	20.00	Peachbloom.....	2.00 \$15.00	Hector.....	2.00 15.00
VARIEGATED.		Wm. Scott.....		Meteor (crimson).....		
Armazindy.....	5.00		Thos. Cartledge.....	2.00 15.00		
Helen Keller.....	2.25		Daybreak.....	2.00 15.00	YELLOW.	
Minnie Cook.....	2.00		Albertini.....	2.00 18.00	Buttercup.....	4.00
Chester Pride.....	2.00	15.00	Tidal Wave.....	2.00	Bouton d'Or.....	4.00 30.00
					Eldorado.....	4.00 30.00

It will be noticed that our prices for standard varieties of carnations are somewhat higher than a great many others. We desire to state that in order to adhere to the **HIGH STANDARD** we have **DETERMINED TO MAINTAIN**, we can say from experience that to sell at lower figures would mean no profit for our labor, etc. We believe that the number of **STRICTLY FIRST CLASS** cuttings that can be taken from a plant is **LIMITED**, and that in order to get the best results, and to continue to improve the carnation, the adoption of a **HIGH STANDARD** rigidly maintained is an absolute necessity. We have therefore decided to produce only the best at living prices, and assure our friends and customers that if they decide to trade with us they will be more than pleased with the **QUALITY** of our goods. We will be candid in saying that our stock is **LIMITED**, and that we could not fill an order for **100,000** cuttings, although we could root several millions if we would take every cutting.

*We would advise to let us have your orders early as long as our stock lasts unbroken.*

We insert a few of the many testimonials received from our many customers for the benefit of those with whom we have not had the pleasure to deal.

FLATBUSH, Brooklyn, N. Y.  
The Hector came in good shape and are well pleased with same. With kind regards, truly yours,  
DALLIEDOUZE BROS.

H. WEBER & SONS,  
FAIRFIELD, Conn.  
Gentlemen: The carnation cuttings you sent me came to hand in fine condition. I am well pleased with their appearance. Thanking you for your promptness in filling my order. I am very respectfully yours,  
W. H. EVERETT.

H. WEBER & SONS,  
Gentlemen: Inclosed herewith find check to balance account. The McDown and Daybreak received from your firm were very fine indeed, &c. C. W. WARD,  
Cottage Gardens, Queens, N. Y.

WEST TROY, N. Y.  
H. WEBER & SONS,  
Gentlemen: Received carnations this morning. I am well pleased with them. They are extra nice plants. Please accept thanks. Yours truly,  
T. S. STICKLER.

NORTH GRAFTON, Mass.  
H. WEBER & SONS,  
Sir: Plants arrived in fine condition, and were better than I expected to receive. We had have made my order 1,500 if I had known what your stock was. I have received cuttings from a great many parties and got nothing but old rubbish. Yours truly,  
S. GREGORY NICHOLS.

PARK RIDGE, near Chicago, Ill.  
Gentlemen: Carnation cuttings received. They arrived in good condition, and are very satisfactory. Yours truly,  
G. BUETTNER.

**CHRYSANTHEMUM PLANTS 2 Inch, \$1.00 Per Dozen; \$5.00 Per 100.**

White—MRS. H. ROBINSON, MERRY MONARCH, RUSSIA, DAY DAWN, SNOW FIELD, GRACE S., TOSHIE, RUTH ELLIN, Yellow—MARION HENDERSON, C. H. CURTIS, MRS. E. BUETTNER, GOLDEN PLUME, Red—COL. C. T. BOURNE, DRAGON FIRE, Pink—M. DE MONTMORT, WM. SIMPSON, MRS. FERRIN, MRS. V. C. EGAN, INDIANA, MRS. S. J. FARRINGTON. Bronze—CORNELIA, OWEN'S BRILLIANT.  
Collections of 50 of the above and standard varieties, \$2.00. Collections of 25 of the best commercial varieties, \$1.00. All the standard varieties at \$3.00 per 100. Rooted cuttings of all the above mentioned varieties at one third less than price named. For more complete list send for circular which will be out in a short time.

All orders from unknown customers will have to be accompanied with cash or satisfactory reference. All orders accompanied with cash will be allowed 5 Per Cent. Discount, except for new varieties.

**H. WEBER & SONS, FLORAL PARK, Box 57, OAKLAND, MD.**

# HARRISON'S WHITE!

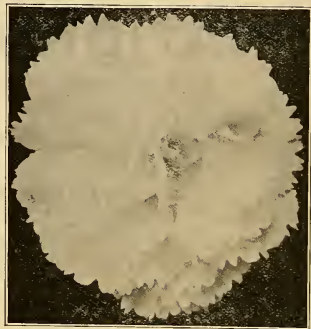
NEW CARNATION, SPORT FROM WM. SCOTT.

40,000 SOLD UP TO DATE. ALL LEADING CARNATIONISTS ARE PURCHASERS.

Strong, Vigorous Grower...

...Requiring no Support.

COME AND SEE IT!



DESCRIBED and ILLUSTRATED in FLORISTS' EXCHANGE, ... Nov. 21, 1896, Page 1044....

Read what Prominent Carnationists say about it:

JOHN HARRISON'S PLACE, Bergen Ave., near Bidwell Ave.,  
JERSEY CITY, N. J., January 5, 1897.

We, the undersigned, are satisfied that the carnation John Harrison is now growing under the name of HARRISON'S WHITE is what he claims it to be, namely, a sport of Wm. Scott, and is a really good thing. This conclusion we have arrived at after a careful examination of the stock he has now growing on his place at above address.  
(Signed) JOHN N. MAY, ERNST ASMUS, HENRY DAILLEDOUZE.

Editor Florists' Exchange:

QUEENS, N. Y., January 7, 1897.

Regarding the white sport from Wm. Scott, which is offered by Mr. John Harrison, of Jersey City, and which I recently stated to you that I was of the opinion that the variety was identical with Puritan, I desire to say:

Yesterday, in company with Mr. L. E. Wood, the originator of Puritan, I visited Mr. Harrison's place, taking samples of Puritan and comparing the growths of the two varieties. After careful examina-

tion, Mr. Wood pronounced Mr. Harrison's variety as distinct from Puritan, and I am now convinced that my first impressions were wrong.

There is a certain difference in the growth of Mr. Harrison's sport from the growth of Scott as usually seen, which resembles much the growth of Puritan as I have seen it at times, which difference can be accounted for by their being grown dry (as the plants were too deeply planted), and this resemblance, coupled with the knowledge that I had once mistaken a plant of Puritan, which was growing by accident in a bench of Scott, as a sport from Scott; also the fact that a portion of Mr. Harrison's original stock of Scott was propagated by us from the same bench in which the Puritan plant was growing, caused me to think that Mr. Harrison had fallen into the same error that I had made.

I am very much pleased to find that I have been mistaken as to a clear white sport of Scott, such as Harrison's White is, certainly will prove one of the most valuable commercial carnations that could be originated, and I hope you will allow me to say in this column that if any florist has \$10 to spare, I believe he can do no better with it than to invest in a hundred of Mr. Harrison's White Scott.  
C. W. WARD.

**READY MIDDLE OF JANUARY.**

PRICES: \$1.50 per doz.; \$10.00 per 100; \$40.00 per 500; \$70.00 per 1000. Cash or satisfactory reference required.

Mention paper.

All orders filled in rotation. Quantities less than one hundred at dozen rates.

**JOHN HARRISON, 739 Bergen Ave.** Near Bidwell Avenue, **JERSEY CITY, N. J.**  
GREENVILLE.

Take Bayonne or Greenville Car from Pennsylvania R. R. Ferry. Get off at Bidwell Ave.

# RUSTS.

*American Carnation Society.*  
In addition to the premiums already made by A. J. Harting and Grace N. J., offer twelve orchids for carnation house, for best twelve blooms, any color, any variety. **LARRY M. HARR, Sec'y.**

## Rust.

With spraying a failure and pick-ling of little value when used alone, I occurred to me that by drying and acetating the conditions which were most conducive to the development of rust, and that under these conditions, as far as possible, would be the most logical course to pursue. It seems strange, indeed, that we should try to cure with medicines plants troubled with this disease, and at the same time keep them surrounded with conditions which were undoubtedly the first cause of the appearance of rust; this in substance is what we, and doubtless all others, did who were trying to rid their crops of this pest with fungicides.

My observations soon convinced me that moisture and poor ventilation were the main factors in producing rust. We had excellent object lessons in this three year ago. The previous Spring we had purchased 500 cuttings of a novelty which we called well covered rust. They were given a place to themselves in the field where they made a splendid growth in spite of the disease. When housing time came, they were fairly clean, considering the condition in which they were placed upon that. These were the last to be housed, and the only available place for them was a sick bench in a house planted with rusted cuttings. The plants were kept and heavy waterings required to keep Goulter's copper coating kept in a sour condition. That this was a most ideal propagating place for rust was soon made apparent. The plants which were housed but a short time when rust could be seen on almost every leaf. We, however, were astonished to find that the disease would die out to a large extent, as was our experience with other varieties; and we based on this fact the hope of the more. Alarmed that such an epidemic might cause a general spread of rust on the species which are raised about here, we cleaned, we removed every plant and burned it. The soil, too, was hauled away, and a fresh thorough wintered. This experience convinced me that a moist atmosphere, particularly a close one, was the most favorable to the existence of rust. This explains, then, why a wet season is more conducive to the trouble than a dry one, and the fact also is amply substantiated by every one who has had any experience with rust.

Occasional rains, not lasting long, and followed by clear, bright weather, do very little harm; on the contrary, I believe that such seasons very materially in destroying the spores by washing them to the ground; once there, they can be considered harmless. It is the continued wet weather and damp atmosphere which causes the spores which are raised about here find lodgment on the damp foliage of the plants to germinate very rapidly. The result is a greenness, which is not so much nearly that of a wet season. This is the case particularly where overhead watering is used, and where the plants are kept in a deal of drip, strynging under the benches, and so on.

As a rule, then, are the conditions which I am satisfied are responsible for the presence of rust, and for its development and propagation. All authorities on rust, I believe, agree that it is a fungus in nature. A difference of opinion exists as to whether it is a rust, whether or not the disease is constitutional. I am satisfied that I have had abundant opportunity to see it in all its forms. I have made a special study of it, and have been able to identify it in me free to state to the best of my knowledge, it is in no way constitutional, and that it is a disease which can be gotten rid of rust on several varieties, some of which were badly affected. This, however, should not be taken too far, as rust was constitutional, for if the disease were in the system of a plant, it would certainly appear in any cutting taken from it.

The argument advanced by some, that the finding of rust pustules high up on the lowest stems of the plants, leaves, etc., cannot be considered as evidence that rust is constitutional. Such findings are the result of rust which has been carried by proper atmospheric conditions are observed, it is considered that rust is not constitutional, as it is very susceptible to disease. The tip of a flowering stem which is only partially developed is very

# Say, Boss,

The COTTAGE GARDENS PRICE LIST is now ready, you will want to see it, you will want some of the new things it has to offer. If you have not received it send your name and address on a postal card to

## The COTTAGE GARDENS, Queens, N. Y.

## CLOUD'S

# CARNATIONS

## VIOLETS, ...

# GIANT ALYSSUM

# AND COLEUS ...

**SURE TO GROW.**

**HEALTHY STOCK**

**WILL STAND TESTING.**

**E. J. CLOUD,**  
L. B. 32, AVONDALE, PA.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

Guaranteed to reach you safely and be satisfactory. Express paid on all orders for one thousand or more. Unlimited quantities and reasonable prices.

McGowan, Alaska, Storm King, Daybreak, Scott, Wave, Fortia, Dorset, Buttercup, Helen Keller, and Iago.

Pittsburgh, Abundant, Della Fox, Jubilee, Armadillo, Ivory, Annie Lonsdale, Crimson Sport, and Cottage.

Other varieties from other growers: send for prices; some as low as \$3.00 per 100.

**GERANIUMS**—Up-to-date bedding and pot varieties, next lot ready middle of February. Double General Carter, \$1.00 per 100; double white, \$1.00 per 100.

**DOUBLE PETUNIA, VETERAN**—Deep, bushy growth, lustrous fringed blooms, white, striped rose. Five plants at 50c; per doz. \$5.00 per 100.

**COLEUS**—All the leading varieties at 50c per 100; \$4.00 per 1000.

**Heliotrope**; 2 kinds: Dwarf Ageratum, 3 kinds; Giant Propogium, 10 kinds; established plants at \$1.00 per 100; new plants at 50c per 100; \$5.00 per 1000.

**PANICUM**—Intricate strains, one better, 5c per 100; \$5.00 per 1000.

**ALBERT M. HERR, L. Box 496, Lancaster, Pa.**  
WHEN WRITING MENTION THE FLORIST'S EXCHANGE

# New Yellow Carnation

# PIGGREE.

Without doubt the best **YELLOW CARNATION** in commerce to-day. Orders are checked and filled with rapidity.

**\$1 50 per doz.; \$10.00 per 100; \$75.00 per 1000.**

**AT A SPECIAL**

**FEBRUARY 1, 1897.** Certificate at Cincinnati Meeting.  
**FEBRUARY 1, 1897.** Certificate at New York American Carnation Society Meeting. Only two varieties selected Certificate at the meeting, January 1, 1897.

**NOVEMBER EXHIBITIONS, 1896.**

**CRAIG SILVER CUP, Philadelphia, Pa.**  
**COMPLIMENTARY NOTIC, Boston, Mass.**  
**HONORABLE MENTION, St. Louis, Mo.**  
**CERTIFICATE, Indianapolis, Ind.**  
**CERTIFICATE, Chicago, Ill.**

Young plants, **KATE WASHINGTON** and **IVOIRE ROSE** "MUMS," \$1.00 per dozen; \$5.00 per 100; \$35.00 per 1000.

**JOHN BREITMEYER & SONS, Detroit, Mich.**  
WHEN WRITING MENTION THE FLORIST'S EXCHANGE

# MINNIE COOK!

Largest stock in the country of this finest variety of carnation. Strong, healthy, well-rooted cuttings, ready middle of January.

Have also other varieties, including Storm King, Della Fox, Bridemaad, Scott, etc.

**WHITE FOR PRICES.**

**Meadow View Greenhouses, 7527 21st St., N.Y.**  
WHEN WRITING MENTION THE FLORIST'S EXCHANGE

# Carnation Cuttings

**HEALTHY.**

200 Scott, \$7.00 per 100; 100 Daybreak, \$9.00 per 100. Strong, healthy, well-rooted cuttings.

Double Pearl Tuberosa Bulbs—No. 4, 4 to 6, \$7.00 per 100; No. 5 to 4 lb., 4 to 6, \$7.00 per 100. No. 6, 5 to 4 lb., 4 to 6, \$7.00 per 100.

**CHAS BLACK, Hightstown N. J.**  
WHEN WRITING MENTION THE FLORIST'S EXCHANGE

# The New Scarlet Carnation

# MELBO

Will be disseminated March 1, 1897. Get your orders in now: \$75.00 per 1000, \$7.50 per 100.

Are being advertised a few miles south of us by parties who never purchased any of the original plants, but who are selling the same parties to get their stock from reliable parties from us.

**MYERS & SAMTAN, PHILA.**  
**WYNDMOOR, CHESTNUT HILL, PHILA.**  
WHEN WRITING MENTION THE FLORIST'S EXCHANGE

# EL DORADO

The finest **Yellow Carnation** in cultivation. Rooted cuttings, \$1.00 per 100; \$5.00 per 1000.

**LADY CAMPBELL VIOLETS**—Rooted runners, 10c each; per doz. \$1.00 per 100.

**GIANT DOUBLE ALYSSUM**—8c each; per doz. \$1.00 per 100.

Send for Circular.

**W. R. SHELMIER, Avondale, Pa.**  
WHEN WRITING MENTION THE FLORIST'S EXCHANGE

# GARNATIONS

Daybreak, Scott, Tida I, Wave, S. Morris, Lizzie McGowan, Florida, per 100: \$12.50 per 1000.

Thos. Cartledge, Kohlsner, Ross Queen, Helio, Havelock, Wm. Wilder Fortia, Cartridge, Anna Webb, Kitty Glover, Hivali, Trolld Wave, send for prices.

**VIOLETS**—Lady Campbell, \$5.00 per 100. Lady Campbell Alyssum, \$5.00 per 1000. Admiral Aveline, \$5.00 per 100.

**JOSEPH RENARD, Unionville, Pa.**  
WHEN WRITING MENTION THE FLORIST'S EXCHANGE

# CARNATIONS

## ROOTED CUTTINGS

of the leading varieties, clean, healthy stock. Positively no rust. Send for price list.

**WM. SWAYNE, Kennett Square, Pa.**  
P. O. Box 326.  
WHEN WRITING MENTION THE FLORIST'S EXCHANGE

# Carnations.

Healthy, well-rooted cuttings. **Buttercup, Eldorado, Helen Keller, Scott, McGowan, Louis, Havelock, Wm. Wilder Fortia, Cartridge, Anna Webb, Kitty Glover, Hivali, Trolld Wave.** Send for prices.

## Coleus

Rooted cuttings. No nearly bugs. **Coleus**, 76 varieties, ready Feb. 1. 7c per 100; \$7.00 per 1000.

# Strobilanthes Dyranus.

Rooted cuttings, \$1.00 per 100, by mail.

**Giant Double Alyssum.** Rooted cuttings, \$1.00 per 100; \$5.00 per 1000, by express.

**Lady Campbell Violets.** Rooted runners, \$1.00 per 100; \$4.00 per 1000, by express.

**Wm. H. Search, Avondale, Chester Co., Pa.**  
WHEN WRITING MENTION THE FLORIST'S EXCHANGE

# DORNER'S

# PIGGREE

...FOR 1897...

**MRS. CHAS. H. DUHME** (Seedling) lively delicate pink large flower, fragrant, with good quality on strong stiff stem. Plant vigorous, erect grower, a very early, free and constant bloomer, much more so than products of this class. This promises to be the best of the light pink commercial products of this class, trailing in Philadelphia. We have grown this variety for two years and it is indisputably at our place.

**MRS. GEO. M. BRATT** (Seedling) clear white, heavily edged and striped with bright scarlet, giving a very bright and beautiful effect. Flowers large and full, with center petals standing erect. This variety has been extended from its first resembling Mine Albertini. Habit strong and vigorous. Erect grower. Now in its fourth year and has proven the most even and constant bloomer from early to late. We received for these flowers the highest prices paid in the market. Retail prices in Atlanta, certifying at same place and at Chicago.

**C. A. DANA** Delicate shell pink vigorous clear white ground. Medium to large flowers on strong, stiff, very stems, color, clear, free from spots. This is a new flower a color in pink carnations. The stock planted.

Rooted cuttings ready March 1, 1897. \$1.00 per 100; \$7.50 per 1000.

Plants from March 1 to April four weeks later. Also

Flora Hill	.....	\$13.00 per 100
Mrs. McBarney	.....	12.00 "
Wm. Wilder Fortia	.....	12.00 "
314's Yellow	.....	10.00 "
Mania Dena	.....	10.00 "
Wm. Wilder Fortia	.....	10.00 "
Harrison's White	.....	10.00 "

**F. DORNER & SONS CO.**  
LA FAYETTE, IND.  
WHEN WRITING MENTION THE FLORIST'S EXCHANGE

## H. R. 9532—A Bill to Regulate the Importation and Sale of Agricultural Seeds.

There is now before the Committee of Ways and Means of the House of Representatives, H. R. 9532, introduced by Mr. Cook, of Illinois, a bill for the importation and sale of seeds (the full text of which appears on page 87, of this issue); and while some of the features of the bill are commendable, yet most of the others are impracticable, and in some cases, we should positively shudder, and all others, if by any means, are absurd and should be eliminated.

Sections Nos. 1 and 2, prohibiting the importation and the sale of grass, clover and other foreign plant seeds containing seeds of dodder, Canadian thistle, Russian thistle, bulbets of wild onion, egret, or more than 1 per cent. of the seeds of wild fax, wild carrot, plantain, wild rice, cockle, chives, penny-cress, prickly lettuce or wild mustard, are, with some modifications, we believe, practicable, and would be a benefit, as well as a relief, to seedsmen who understand their business. Except in a few instances among foreign plants, it is possible with the above named seeds for an expert to determine the purity on examining the seed, and to reject those under, or which, in a slight bundle of cost, would be by machinery to bring up to the required standard. The explicit modification might be made in the case of dodder, Canada and Russian thistle, etc., which are not allowed for in any form whatever.

The bill requires that the samples must be entirely free from any foreign seeds, and attaches a penalty upon conviction of a fine not less than \$200 nor more than \$500, and imprisonment not more than one year and one day for each offence. The most careful and critical examination might not reveal a single seed, or other objectionable weed, yet, is a seedsmen, who, under these circumstances sold and delivered in a good faith, to be fined \$500 or imprisoned for a year in the delivery there happened to be found a seed of these weeds? An allowance of some kind must be made.

The American Seed Trade Association will, with an assurance born of ignorance of the subject, undertake by grain inspection to regulate the purity, etc., of vegetable seeds, which to the practical mind is an impossible task. It is not the business of the most expert to test by examination of the grain whether every seed will produce a true plant, or whether it will produce, or perhaps the rankest mixture imaginable. Does Mr. Cook, or anyone else, know enough of the seed of a turnip, or a cabbage, a Kohl Rabi, or a cauliflower, to be able to say, with any accuracy that a Rutabaga seed is not a rape? or that a Tom Thumb pea will not grow six feet high? How, however, goes farther, and why, do some experts who can tell the difference between the seed of red and white onion, or whether a seed is long or short, or long white or a small round red variety. If such experts there be, let them come forward. We can name importers, or seedsmen who will pay them more than Uncle Sam will.

With vegetable seeds the most important subject is overlooked—the purity and quality of the stock. What the bill, however, goes farther, and why, do some experts who can tell the difference between the seed of red and white onion, or whether a seed is long or short, or long white or a small round red variety. If such experts there be, let them come forward. We can name importers, or seedsmen who will pay them more than Uncle Sam will.

With vegetable seeds the most important subject is overlooked—the purity and quality of the stock. What the bill, however, goes farther, and why, do some experts who can tell the difference between the seed of red and white onion, or whether a seed is long or short, or long white or a small round red variety. If such experts there be, let them come forward. We can name importers, or seedsmen who will pay them more than Uncle Sam will.

The bill requires also that every package of seed containing one pound or more shall be accompanied by a written or printed guarantee of the purity of seed from foreign matter and germination. Such a thing is impracticable. The percentage of growth is constantly varying, and to fully comply with the requirements of the bill, the seedsmen of the country would, for the same volume of trade, require double his present staff, and consequently, his present facilities would be early be higher, without as far as we can see, any attendant benefit to the farmer. The bill, in fact, is a gross and flagrant injustice, is allowed to sell seed without being in any way accountable under the act, and to sell seed without being held accountable with heavy penalties attached. The farmer, who in many cases when growing a seed, is allowed to sell seed in allowing weeds, which can be easily hough or pulled out, to grow and seed in the crop, is allowed to peddle his seed eye with any quantity of wild onion bulbets in it, his clover with dodder, dock, or any other foreign matter, and to sell seed in can sell any kind of seed no matter how filthy, to whoever will buy, and it is a fact that many farmers do so. There are thousands of farmers in the United States who are not able to distinguish between their neighbors and others, of many seeds, cereals, and grains, larger quantities for sale than for their own use. The bill, though he is the first sower, under this bill, the farmer is allowed to go "Soot free."

The result of a bill such as is now before the House would be the extinction of the seed trade in America, and scattering it all over the country, to the great reverse of those anticipated by Mr. Cook or others interested in this bill. For it would mean the freedom of distribution of seeds by farmers without the benefit of improved machinery. The bill would make it impossible for anyone to make it apply also to farmers, excepting those who are able to distinguish between their neighbors and others, of many seeds, with their machinery to bring the seeds in the country to the required standard. Then, again, has Mr. Cook any idea of the shrinkage in weight and loss of good seeds in the process of cleaning, and the purities in cleaning in order to reach the high standard he sets up?

In some years of poor crops there would be a large quantity of seed in the country that could be brought up to the standard of germination and purity to supply the requirements of the bill. The bill is a law for that particular article would for that year, in the hands of the farmer, and could be sold with impunity. The standard or a quality that, by cleaning, would be raised up to the standard of the premium, and those under the standard would be ridiculously low in comparison.

A very large proportion of the red clover seed grown in the United States contains plantain (allowed in the bill to the extent of one per cent.), a large part of which is sown with the most improved machinery and heavy shrinkage in cleaning be brought up to the required standard. The bill would mean the freedom of distribution of seeds by farmers without the benefit of improved machinery. The bill would make it impossible for anyone to make it apply also to farmers, excepting those who are able to distinguish between their neighbors and others, of many seeds, with their machinery to bring the seeds in the country to the required standard. Then, again, has Mr. Cook any idea of the shrinkage in weight and loss of good seeds in the process of cleaning, and the purities in cleaning in order to reach the high standard he sets up?

The bill requires also that every package of seed containing one pound or more shall be accompanied by a written or printed guarantee of the purity of seed from foreign matter and germination. Such a thing is impracticable. The percentage of growth is constantly varying, and to fully comply with the requirements of the bill, the seedsmen of the country would, for the same volume of trade, require double his present staff, and consequently, his present facilities would be early be higher, without as far as we can see, any attendant benefit to the farmer. The bill, in fact, is a gross and flagrant injustice, is allowed to sell seed without being in any way accountable under the act, and to sell seed without being held accountable with heavy penalties attached. The farmer, who in many cases when growing a seed, is allowed to sell seed in allowing weeds, which can be easily hough or pulled out, to grow and seed in the crop, is allowed to peddle his seed eye with any quantity of wild onion bulbets in it, his clover with dodder, dock, or any other foreign matter, and to sell seed in can sell any kind of seed no matter how filthy, to whoever will buy, and it is a fact that many farmers do so. There are thousands of farmers in the United States who are not able to distinguish between their neighbors and others, of many seeds, cereals, and grains, larger quantities for sale than for their own use. The bill, though he is the first sower, under this bill, the farmer is allowed to go "Soot free."

With Uncle Sam in the business distributing free seeds, we think the seedsmen already have enough to contend with.

## Substitution and Deception.

In a communication received from an Ohio subscriber the past week, occurs the following interesting item:

"I noticed in a recent issue a complaint of excessive charges arising through wrong packing; but I think that one of the most serious and most common and greatest is the fraud perpetrated on the public by advertising some plant or seed as being one thing, and when the purchaser has bought it and carefully grown it for months, to find it only an odd variety, if not a seed that has been in commerce for years."

He cites two such alleged cases as having happened to himself through advertisements inserted in the EXCHANGE, and adds: "I think you ought to draw a line and guarantee your patrons, or in some measure see to it that you are not defrauded. Trust you will give above some thought."

Complaints of the nature of this one, are, happily, few in number, so far as the advertisements in the EXCHANGE are concerned. We endeavor, as far as lies in our power, to keep ourselves and our patrons free from just such a contingency, but under existing conditions—lack of effective external supervision—there is open to dishonest or careless seedsmen a great opportunity for imposition, by giving a name to an odd variety, and by advertising finding a market for same, which a trade paper is unable to, appropriately expressing it, "nup in the bud."

It is a fact that many farmers do so. There are thousands of farmers in the United States who are not able to distinguish between their neighbors and others, of many seeds, cereals, and grains, larger quantities for sale than for their own use. The bill, though he is the first sower, under this bill, the farmer is allowed to go "Soot free."

We do not for a moment think that any re-respecting business man would be so dishonest as to commit a fraud upon the horticultural trade, and when cases of the kind are referred to us, we are sure we are not a matter of carelessness or ignorance rather than of a desire to deceive.

It is a fact that many farmers do so. There are thousands of farmers in the United States who are not able to distinguish between their neighbors and others, of many seeds, cereals, and grains, larger quantities for sale than for their own use. The bill, though he is the first sower, under this bill, the farmer is allowed to go "Soot free."

It is a fact that many farmers do so. There are thousands of farmers in the United States who are not able to distinguish between their neighbors and others, of many seeds, cereals, and grains, larger quantities for sale than for their own use. The bill, though he is the first sower, under this bill, the farmer is allowed to go "Soot free."

It is a fact that many farmers do so. There are thousands of farmers in the United States who are not able to distinguish between their neighbors and others, of many seeds, cereals, and grains, larger quantities for sale than for their own use. The bill, though he is the first sower, under this bill, the farmer is allowed to go "Soot free."

Regarding the two cases in question, we shall have diligent inquiry made, and report to our correspondent direct.

## Exclusively a Trade Paper.

PUBLISHED EVERY SATURDAY BY  
THE DE LA MARRE PTD. AND PUB. CO. LTD.,  
31, RUELLE DE LA MAISONNEUVE, MONTREAL,  
P. Q., CANADA.

Subscription Price, \$1.00 per year; \$2.00 per annum in advance. Single Copies, 10 Cents. Payable in advance.

Advertising Rates, \$1.00 per inch each insertion with discount on contracts.

Orders with unknown parties must be accompanied with such satisfactory references.

Entered as Second Class Matter, Post Office at Montreal, P. Q., Canada, under No. 1111.

General Eastern Agent:  
W. K. WOOD, 105 West Newton, Mass.

General Western Agent:  
EDGAR SANDERSON, 1639 Belmont Ave., Chicago.

Advertisements and all other matter intended for circulation in this paper, should be sent to the office not later than THURSDAY NIGHT.

Advertisements and all other matter intended for circulation in this paper, should be sent to the office not later than THURSDAY NIGHT.

Advertisements and all other matter intended for circulation in this paper, should be sent to the office not later than THURSDAY NIGHT.

Advertisements and all other matter intended for circulation in this paper, should be sent to the office not later than THURSDAY NIGHT.

Advertisements and all other matter intended for circulation in this paper, should be sent to the office not later than THURSDAY NIGHT.

Advertisements and all other matter intended for circulation in this paper, should be sent to the office not later than THURSDAY NIGHT.

Advertisements and all other matter intended for circulation in this paper, should be sent to the office not later than THURSDAY NIGHT.

Advertisements and all other matter intended for circulation in this paper, should be sent to the office not later than THURSDAY NIGHT.

Advertisements and all other matter intended for circulation in this paper, should be sent to the office not later than THURSDAY NIGHT.

Advertisements and all other matter intended for circulation in this paper, should be sent to the office not later than THURSDAY NIGHT.

Advertisements and all other matter intended for circulation in this paper, should be sent to the office not later than THURSDAY NIGHT.

Advertisements and all other matter intended for circulation in this paper, should be sent to the office not later than THURSDAY NIGHT.

Advertisements and all other matter intended for circulation in this paper, should be sent to the office not later than THURSDAY NIGHT.

Advertisements and all other matter intended for circulation in this paper, should be sent to the office not later than THURSDAY NIGHT.

Advertisements and all other matter intended for circulation in this paper, should be sent to the office not later than THURSDAY NIGHT.

Advertisements and all other matter intended for circulation in this paper, should be sent to the office not later than THURSDAY NIGHT.

Advertisements and all other matter intended for circulation in this paper, should be sent to the office not later than THURSDAY NIGHT.

Advertisements and all other matter intended for circulation in this paper, should be sent to the office not later than THURSDAY NIGHT.

Advertisements and all other matter intended for circulation in this paper, should be sent to the office not later than THURSDAY NIGHT.

Advertisements and all other matter intended for circulation in this paper, should be sent to the office not later than THURSDAY NIGHT.

Advertisements and all other matter intended for circulation in this paper, should be sent to the office not later than THURSDAY NIGHT.

Advertisements and all other matter intended for circulation in this paper, should be sent to the office not later than THURSDAY NIGHT.

Advertisements and all other matter intended for circulation in this paper, should be sent to the office not later than THURSDAY NIGHT.

Advertisements and all other matter intended for circulation in this paper, should be sent to the office not later than THURSDAY NIGHT.

Advertisements and all other matter intended for circulation in this paper, should be sent to the office not later than THURSDAY NIGHT.

Advertisements and all other matter intended for circulation in this paper, should be sent to the office not later than THURSDAY NIGHT.

Advertisements and all other matter intended for circulation in this paper, should be sent to the office not later than THURSDAY NIGHT.

Advertisements and all other matter intended for circulation in this paper, should be sent to the office not later than THURSDAY NIGHT.

Advertisements and all other matter intended for circulation in this paper, should be sent to the office not later than THURSDAY NIGHT.

Advertisements and all other matter intended for circulation in this paper, should be sent to the office not later than THURSDAY NIGHT.

Advertisements and all other matter intended for circulation in this paper, should be sent to the office not later than THURSDAY NIGHT.

Advertisements and all other matter intended for circulation in this paper, should be sent to the office not later than THURSDAY NIGHT.

Advertisements and all other matter intended for circulation in this paper, should be sent to the office not later than THURSDAY NIGHT.

Advertisements and all other matter intended for circulation in this paper, should be sent to the office not later than THURSDAY NIGHT.

Advertisements and all other matter intended for circulation in this paper, should be sent to the office not later than THURSDAY NIGHT.

Advertisements and all other matter intended for circulation in this paper, should be sent to the office not later than THURSDAY NIGHT.

Advertisements and all other matter intended for circulation in this paper, should be sent to the office not later than THURSDAY NIGHT.

Advertisements and all other matter intended for circulation in this paper, should be sent to the office not later than THURSDAY NIGHT.

Advertisements and all other matter intended for circulation in this paper, should be sent to the office not later than THURSDAY NIGHT.

Advertisements and all other matter intended for circulation in this paper, should be sent to the office not later than THURSDAY NIGHT.

Advertisements and all other matter intended for circulation in this paper, should be sent to the office not later than THURSDAY NIGHT.

Advertisements and all other matter intended for circulation in this paper, should be sent to the office not later than THURSDAY NIGHT.

Advertisements and all other matter intended for circulation in this paper, should be sent to the office not later than THURSDAY NIGHT.

Advertisements and all other matter intended for circulation in this paper, should be sent to the office not later than THURSDAY NIGHT.

Advertisements and all other matter intended for circulation in this paper, should be sent to the office not later than THURSDAY NIGHT.

Advertisements and all other matter intended for circulation in this paper, should be sent to the office not later than THURSDAY NIGHT.

Advertisements and all other matter intended for circulation in this paper, should be sent to the office not later than THURSDAY NIGHT.

Advertisements and all other matter intended for circulation in this paper, should be sent to the office not later than THURSDAY NIGHT.

Advertisements and all other matter intended for circulation in this paper, should be sent to the office not later than THURSDAY NIGHT.

Advertisements and all other matter intended for circulation in this paper, should be sent to the office not later than THURSDAY NIGHT.

Advertisements and all other matter intended for circulation in this paper, should be sent to the office not later than THURSDAY NIGHT.

Advertisements and all other matter intended for circulation in this paper, should be sent to the office not later than THURSDAY NIGHT.

Advertisements and all other matter intended for circulation in this paper, should be sent to the office not later than THURSDAY NIGHT.

Advertisements and all other matter intended for circulation in this paper, should be sent to the office not later than THURSDAY NIGHT.

Advertisements and all other matter intended for circulation in this paper, should be sent to the office not later than THURSDAY NIGHT.

Advertisements and all other matter intended for circulation in this paper, should be sent to the office not later than THURSDAY NIGHT.

Advertisements and all other matter intended for circulation in this paper, should be sent to the office not later than THURSDAY NIGHT.

Advertisements and all other matter intended for circulation in this paper, should be sent to the office not later than THURSDAY NIGHT.

Advertisements and all other matter intended for circulation in this paper, should be sent to the office not later than THURSDAY NIGHT.

Advertisements and all other matter intended for circulation in this paper, should be sent to the office not later than THURSDAY NIGHT.

Advertisements and all other matter intended for circulation in this paper, should be sent to the office not later than THURSDAY NIGHT.

Advertisements and all other matter intended for circulation in this paper, should be sent to the office not later than THURSDAY NIGHT.

Advertisements and all other matter intended for circulation in this paper, should be sent to the office not later than THURSDAY NIGHT.

## For the Busy Man.

A report from Bermuda states that bulbs of a new variety of Hyacinth have been discovered. Mr. Fell, proprietor of T. S. Ware Nurseries, Tottenham, London, England, is dead.

The American Seed Trade Association will meet in Washington, D. C., next June.

The order for the decorations in connection with the Dudley-Marion soil has been awarded to H. Small & Sons.

Information has been received to the effect that the bill to regulate the importation and sale of agricultural seeds is not likely to pass this session.

Owing to the unexpected influx of advertisements for this issue at the last moment, we regret that the remainder of Mr. P. O'Meara's very able paper on the "Professional Gardener's Union in Hertsfordshire" has been unavoidably held over till another number.

## Our Novelty Supplement.

Two large pages of fine toned paper are embodied in this week's issue of the FLORESTA EXCHANGE, and on these are given illustrations and descriptions of the leading novelties from some of the principal houses that are distributing them this year. As the various subjects illustrated and described are the first choice of the originator and disseminator, efforts to bring will prove a handy reference, and as such, we feel confident, will be retained by our readers. It may be said that the novelties in plants and flowers are presented, those of fruit and vegetables being excluded.

We feel a little proud of the presswork and typography displayed in the supplement, and trust that our efforts to bring the most prominent novelties of the present year before our readers in this manner will be appreciated.

We take this opportunity of thanking our subscribers for their increased patronage on this occasion, which has imparted to our number the magnitude and substance of a special edition. We hope their business cannot be rewarded as richly as deserved.

## Erratum.

In an advertisement of Rehberg Bros., page 70, last issue, read price for American Beauty and Teston \$40.00 per 1000, not \$40.00.

New York.

Wholesale Market. The favorable conditions reported in our columns... The demand for high grade roses and carnations...

rooms on the main floor were decorated with the fine specimen Area Intescens and Keottia. The work was done by the Florists' Club...

Philadelphia.

Market Notes. There has been a little more satisfaction in the cut flower business the past week; the supply has fallen off, and at last a scarcity of roses can be noted...

Shipments increased in bulk, but fell away in quality, consequently there is still a tendency for poor lot of stock on hand which can be counted by the thousands...

Good tulips brought \$3 and \$4 per 100, yellow making the higher grade. Pink and white varieties also sold at \$1.50 and \$2...

Good monition has sold very well this season, \$1.20 per dozen is the present price...

Monday, Jan. 23. J. H. HANDELBERG died on Sunday last, January 24, in her 71st year.

The Funerary took place on Thursday and Friday last, at the residence of the deceased.

The Fun Club held a medal shoot on Tuesday, the trophy being captured by the members...

H. G. FART is about again after a long leave of absence from the office.

A large attendance is expected at the meeting on Tuesday next, Isaac Kennedy will be the speaker.

The bowling alleys are nearly completed, and will be ready to use next week.

A meeting will be held in the clubroom at 8 P.M. for the purpose of organizing a protective association...

A smoker will be given by the Florists' Club on Tuesday evening, February 9.

A Golden Anniversary. We have received from Messrs. Peter Henderson & Co., New York, a copy of the Edition de Luxe of their "Manual of Floriculture..."

Index to Advertisements.

Table listing various florists and their advertisements, including names like Marshall C. Jones, A. J. Alway, and others, with corresponding page numbers.

Cincinnati.

Weather and Trade Conditions. The weather has been very unsettled—rainy, dark, and changeable...

Trade, while fair, is nothing of which to be especially proud, a little funeral work and loose bunches being about all there is.

The will of the late HARRY L. SCHNEIDER leaves \$20,000 to the widow; is executed.

On Tuesday, January 19, a party of florists, consisting of Edward Fretz, Wm. Murphy, E. H. Gray, C. C. Murphy, E. Hoffmeister, R. Witterstaetter, Fred Waiz, J. W. Rodgers, Ben. George, Julius Weidner, J. A. Peterson, J. T. Conger, R. Barnes, and the writer, made a trip to Richmond, Ind.

The houses of G. H. GARD & Co. were very interesting in connection with getting Spring stock into shape. Everything in looking well. Rex begonias are a certain specialty here.

At G. H. HILL & Co.'s a choice lot of wholesale stock in radium cans, Italia and Austria, are especially good. There is a grand stock of small palms—arcs.

Eachers' Amaranthes. A splendid lot for sale at extremely low prices. Also small palms, 1 1/2 per 100, medium size palms, \$1.00 per 100.

Of course, the party was interested in ventilating machines and we were conducted through the works of the Quaker City Machine Co. by John A. Evans.

These little trips are productive of a great deal of good; they bring members of the craft closer together, create ideas and are always instructive in many ways.

TOUFF STUFF ON GREEN LEAF IS TOBAC-OIL. FERNS! FERNS! A fine stock of mixed Ferns, from 3/4 in. pots, ready for immediate use.

H. WESTON, Hempstead, N. Y. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

PALMS & FLOWERING PLANTS JUST WHAT YOU WANT! Includes Aracarias, Palms, Pandanus Veitchi, etc.

ANTON SCHULTHEIS, College Park, Md. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

P. OUWERKERK, KELSEY'S

1123 Summit Ave., Jersey City, N. J.

- RHOODENDONS, AZALEAS, SPIREAE JAPONICA, LILIUUM SPECIOSUM, P. ONIES, BLEEDING HEART, POT GROWN LILACS, HYDRANGEA IN SORTS, CLEMATIS and H. P. ROSES.

FOR EASER Force Flowering Shrubs: Lilacs, Staphyleas, Deutzias, Snowballs, Kalmias, ROSES, H. P. and others.

L. C. BOBBINK, Rutherford, N. J. Branch Horticultural Co., Beskoop, Holland. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

NOVELTIES IN Florists' Decorative Evergreens

These Novelties are introduced exclusively and supplied the wholesale and retail trade by HARLAN P. KELSEY. FLORISTS now use them universally.



KELSEY'S LEUCOHOE SPRAYS

BRILLIANT GREEN AND BRONZE GALAX LEAVES. These Novelties are introduced exclusively and supplied the wholesale and retail trade by HARLAN P. KELSEY.

DEUTZIA GRACILIS. Extra strong for Easter forcing. 4 ft and 7 in. lot, \$10.00 per 100; 8 1/2 ft per doz.

FERNS! 3/2 CASH. PTERIS ARGYRATA, PTERIS AERULEA, ADIANTUM PUBESCENS. \$3.50 PER 100. EDWIN A. SEIDWITZ, BALTIMORE, MD.

Decorative Platts ARACARIAS PALMS PANDANUS VEITCHI All sizes. Write for Prices.

FERNS, JOHN SCOTT, Keap Street Greenhouses, BROOKLYN, N. Y. Telephone Call 1307 Williamsburg.

THE ELIZABETH NURSERY COMPANY ELIZABETH, N. J. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

FERNS! FERNS! 5,000 hairy cut Ferns \$8.00 per doz. \$1.00 per doz. 10,000 leafy cut Ferns \$6.00 per doz.

Nepbrolepis Exaltata Bostoniensis. In large and small quantities for Spring delivery, from \$4.00 to \$50.00 per 1000. Mine is the genuine stock.

G STOCK ADIANTUM CINEBAUM, 3 in. pots. CHRYSANTHEMUM FRUTESCENS BALSAMIFOLIUM, the new yellow. Paris Daisy. Fine color, true bloomer; a grand filler.

COLEUS OUR SPECIALTY. We will have 100,000 extra strong clean rooted cuttings of Coleus, Golden Fetter, and Variegated good for 25¢ or 30¢ per 100 during the months of February, March and April.

SEAWANAKA GREENHOUSES, Oyster Bay, Queens Co., N. Y. JAS. O. CLARK, Supt. P. O. BOX 34. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

HIGHLANDS NURSERY, Kawan, N. C. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE.





Pittsburg.

The cold wave, which reached us January 23 with a strong wind and snow storm, continues at present writing, January 27, and during that time the mercury has registered as low as 10 degrees below zero in some places, and for several days has been hugging the zero point. It is tough on the growers, and requires tons of coal to keep up the desired temperature for plants under glass. So far I have not heard of any frost, nor of any of our great shortage of stock of cut flowers, but the demand was very light. As few people are out on the streets, and the weather is better than last week's, excepting that a little more activity occurred in funeral parlors and out of the stores, the Tulips are coming in, but the quality is not of the best—too short in the stem. Harvested at \$7 per 100, and seem plentiful, but they are only in fair demand. Callus are hard to sell. The demand for valley is very light this year; few are sold loose, and the flowers must be used in work to get rid of them.

A. L. VANDERMAN, representing J. C. Vaughan, of Chicago and New York, spent several days in our neighborhood. S. S. SEIBERGER, of New York, and W. J. BOAS, of Edwards & Docker, Philadelphia, were also in town during the week.

Cleveland.

Trade Notes.

Owing to the extreme cold weather trade in all the branches is almost at a complete standstill. Funeral work is about the only thing that occasions any movement, and orders in this line are few. Of late, very few society events, weddings and receptions have occurred, and, of course, the usual work in the decorative line that such occasions call for, is of very little consequence. In spite of the quiet conditions of trade, stock in some items remains scarce. Short supply of roses is most noticeably felt; Beauty, of which very little stock is offered, are very hard to obtain. Other varieties are offered more freely, and prices realized are \$1 per dozen for ordinary to \$2.50 for best. Carnations are more plentiful, and sell at 25c. to 50c. wholesale, 75c. and \$1. Harvest is in fair supply, and sell at \$1.50 per dozen to \$3 for best stock. Valley and violets hold their own, and bring \$1 and \$2 respectively. Hyacinths are in poor demand; a great deal of good stock goes to waste before it can be disposed of. Tulips find ready sale and realize from 50c. to \$1 per dozen. In Von Sion good stock is scarce and brings from \$4 to \$7 at wholesale, retailing at \$1 per dozen.

All other flowers sell at prices previously reported. Lilacs 25c. per spray, peonies, freesias, 50c. to 75c.; cyclamens, 50c. Romans find very poor sale.

Florists' Club Meeting.

At the Florists' Club meeting, held on Tuesday evening, there was but a fair attendance, the weather being such that it prevented many members from attending. It was decided to hold a social in the near future, and a committee was appointed to make necessary arrangements. Another committee has in hand the arranging of a premium list for the chrysanthemum show next Fall.

Notes.

Mr. J. M. GASSER has just returned from an extended trip through the east and lower Canada.

L. J. LEOPOLD, a retail florist at 165 Euclid ave., made an assignment on the 15th inst. Assets, \$400; liabilities, \$700. Last Tuesday night the heavy plate glass doors of CHAS. ERHARDT'S store and flat of J. P. PATRICK immediately adjoining on Erie st., were broken into. If it was done by burglars their efforts were fruitless, as nothing was secured at either place. As near as the writer could learn, the perpetrators were found and placed under arrest.

G. A. TILTON, for eight years past in the seed and bulb business in this city, will on the 1st of Feb. terminate his partnership with his father, the firm name to be A. Tilton & Son.

A. RINDLER, representing W. W. Barnard & Co., Chicago, was visitor this week.

Chrysanthemums.

Strong, Healthy Stock Plants.

Calva's "Beau, Ground." A beautiful early crimson, dwarf habit, good foliage, fine stem, color as rich as G. W. Childs, and does not burn or scald. 40 cts. each, \$4.00 per doz.

Liberty, Duchesse de York, Triumph de St. Laurent, Little Atlas, Chebague, Van Simpson, Bath Belle, 40 cts. each, \$4.00 per doz.

Moisley, Sunday, Volunteer, Yonona, Autumn Bride, Mrs. Perrin, Helen Wright, Glory of the Pacific, Pink Ivory, Betty Book, Mrs. E. Eastover, Gr. Buehler, Florence Fullman, Merry Menarch, Queen, Conqueror, Mary, Mrs. E. Curtis, Mrs. R. O. Kingston, Miss Carnot, M. Penckoke, Mile. Th. Paconche, Mrs. V. O. Egan, Pilot, Ringold, Lily Love, Golden Wedding, H. W. Birman, H. L. Sanderbruch, and others. 25c. each; \$2.50 per doz.

Miss F. Bernice, Mrs. J. Jones, Mayflower, Niveus, Flammaker Ivory, E. Leach, Mount Dana Emeralds, Helen Hoodgood, Viviani-Morri, Mrs. F. Palmer, Marion Henderson, Miss M. Johnson, Yellow Queen, Mrs. W. K. Bond, Major Emmons, Philadelphia Brigand, Fisher's Torch Wm. Seward, H. E. Wilsener, W. Coles, E. Dillidouce, 10 cts. each, \$1.50 per doz.

THEO. F. BECKERT, NEVILLE ISLAND, 37 Millie Street, Pittsburgh, Pa. GLENFIELD, PA.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Novelties for 1897.

Our Collection of Certificated

CHRYSANTHEMUMS

- MIDGE, Ready
MERULA, Ready
Mrs. JOHN J. GLESSNER, Ready
CHITO, Ready
Mrs. MARTIN A. RYERSON, Ready
SUNSTONE, Ready
WESTERN KING, Ready
50 cts. each. \$5.00 per doz. \$35.00 per 100.

NATHAN SMITH & SON, ADRIAN, MICH.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE



OVELTIES AND STANDARDS

in great variety. Prices lower and stock better than ever. Try my leader—John Elitch, CATALOGUE FREE.

W. W. WILMORE, Box 382, Denver, Colo. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

400,000 Pansy Plants \$1.00 per 100; \$3.00 per 1000; \$10.00 per 5000; \$25.00 per 10,000.

100,000 Carnations Rooted Cuttings, no rust, \$1.25 per 100; \$10.00 per 1,000, from seed, \$2.50 per 100; \$15.00 per 1,000, from base.

WANTED IN EXCHANGE.

100 Petunias, 2 in.; 50 Azaleas, 12 in. buds; 500 Cannas, dry roots; 500 Flowering and Rex Begonias, 2 in.; and 200 Fanny Coleus, 2 in.

Trade List of Novelties... MORRIS FLORAL CO., Morris, Ill.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Grand Results.

Your paper gave grand results from its use last season. Bosilloude, Mass., Sept. 7, 1896. C. E. WELLS.

NOTICE! CUT WHITE ROMAN HYACINTHS. Large, fine sprays sent by mail to any address on receipt of the price, \$2.00 per 100 sprays. G. ASCHMANN, 1012 Ontario St., - - - Rising Spr., Phila. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

20 CHRYSANTHEMUMS VARIETIES For \$1.00, Postage Paid. Mrs. H. Robinson, Philadelphia, Queen, E. Dillidouce, Major Donatouss, and 15 other varieties. Send for list. PRIMEROSIS from 3/4 inch pots, \$2.25 per 100. HARVEY B. SN' W. Camden, New York. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

SEEDLING GARNATIONS for 1897.

CAPT. KING. Variegated White and Pink, an early and continuous bloomer, very fragrant and a good winter-flower, stems extra long and stiff, an exceedingly attractive and profitable variety. JOSEPH JEFFERSON. Deep Pink, very large and showy flowers, on long, stiff stems, color resembling Thos. Cartledge, much larger flower. - - - Send for Fullness List of New and Standard Carnations. Stock Strong and Ready. NO RUST. C. J. PENNOCK, The Pines, KENNETT SQUARE, PA. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

DEFENDER NEW CHRYSANTHEMUMS GEO. S. KALB

DEFENDER. Bright Dark Crimson, reflexed, does not show under side of petals. 3 1/2 ft. size, 9 inches stout stem, good foliage up to the bloom, easy to grow. Best Carnation to date, N. C. S. Certificate. 50c. each; \$5.00 per doz.; \$35.00 per 100.

GEO. S. KALB. Early White, Oct. 3d. Slightly reflexed, 3 ft. size, 6 to 7 inches stout stem, good foliage to the bloom. We have grown this 3 years and find it best all around Early White we have seen. N. C. S. Certificate. A money maker for you. 35c. each; \$3.50 per doz.; \$25.00 per 100. Distribution March 1.

CASH OR SATISFACTORY REFERENCE. Fisher & Ekas, Toll Gate, Belair Ave., Baltimore, Md. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

BIGGER THAN EVER

The Grand New Giant Californian Daisy

(Chrysanthemum frutescens giganteum) CERTIFICATED.



I am again ready to quote prices and to book orders.

Price List of Best Varieties of Chrysanthemums, Roses, Carnations, Etc., Forwarded on Application. 20c. Each; \$1.75 Per Doz.; 2-in. Pots, \$12.00 Per 100.

GARRETT & ROSE, NEW JERSEY, N. J.

200 WEST SIDE AVENUE, WHEN WRITING MENTION THE FLORISTS' EXCHANGE

TUFF STAB ON GREEN FLY IS TOBAC-OIL.

St. Louis.

Market News.  
I am able to report a clean market for St. Louis for last week. Receipts were light than in the week previous, and there was just enough demand to keep prices moving upward. As the week progressed it became clear that both roses and carnations were off crop, and each following day's call put prices up another notch. The week of St. Louis took an additional twist at prices, and sent them up to Christmas figures almost. One lot of American Beauties, which cost 75c. each. A lot of Kaiserin brought 11c. All varieties and selections advanced from 2c. to 10c. each, and the light receipts to-day (Monday) are firmly held at the advance. Good Brissmands are selling at 5c. to 10c.; fancy selections at 15c. This rose seems to have been in best demand during the past week. Meteor came next in call and sold at almost the same figures. Bride and Kaiserin were not as much in demand, and did not command as good prices. Pearly, which was brought from 4c. to 6c., and were scarce. Good Beauty were not plentiful, and those received brought full value. There was a good supply of 12 to 20 inch stem, of color Beauty, which sold fairly at prices considered, at prices ranging from 10c. to 20c. each.

The carnation cut reported the previous week, the way the market took, took a double pressure of light receipts and fair demand. Prices of ordinary blooms advanced gradually from 5c. to 10c. per 100 yesterday, and to 13 to 24, at which a few are selling. Fancy carnations brought 33 Thursday, and would bring 34 to-day if they could be had.

Double violets advanced from 50c. to 81 per 100. Of course there were all sorts of kicks and threats on part of the florist, but the wholesaler who had the violets got \$1 per 100. Single violets sold at 55c. per 100; California violets sold well at 70c. The giant of Romans and narcissus is off, and bulbous stock again commanding attention. Poor quality Romans selling for a few days at \$2 per 100. At present writing the supply is equal to the demand at \$1 to \$1.50 per 100.

Lilium Hartwell is scarce, and receipts sold at \$12.50 to \$15 per 100. Callias are in fair supply and good prices. The price is now stationary at \$10 per 100.

Jonquils are still scarce and bring 24 per 100. Smilax is abundant and not in request. It is sold as low as \$3 per 100. Wild rose seems to be leading it here in use for decorative work.

The demand is light to-day, but as there is a stock on the market, indications point to steady prices at the figures named. Retail Notes.

Trades was stimulated by a number of special events at the close of another of nearly all the florists had a share. Funeral work was plentiful, and as the sale of cut flowers in the stores proved the week closed was satisfactory.

The Fakir.  
There was considerable agitation last week on account of the fakir, for whose existence here the wholesalers are blamed. Some retailers urge that the fakir would never be of wholesalers who sell to the fakir. If St. Louis was the only flower market on earth it would be an easy matter to freeze the fakir out of the business, but as long as there are other sources of supply within a night's ride of the main markets, the fakir will continue to grant permits to fakirs gratis, so long will we have to bear his presence.  
C. G. F.

Syracuse, N. Y.

Business here was quite dull for the week after the holidays, and within the last ten days. There has been quite a scarcity of cut flowers. The weather with the exception of the first three days, has been most disagreeable during the month, and very unfavorable to the production of high grade blooms. Notwithstanding the untoward conditions carnations were never better at L. E. Mackenzie's benches of Scott, Alaska and McGowan being excellent, the blue color of Scott being especially noticeable. Mr. Marquise is so pleased with Alaska that he intends to plant no other white for next season.

TUFF STUFF ON GREEN FLY IS TOBAC-OIL.

At P. R. QUINLAN Co's greenhouses was noticed a very fine batch of Hartshill, which will be just right for Easter; also a grand lot of callias, which latter are in demand here for funeral work and still pay well. It is almost superfluous to mention roses, which are always in elegant shape here, under the fostering care of Mr. Bard, but I may say that a house of Erie and Sunset is worth a little journey to those interested.  
C. BARSON.

PANSIES.

THE JENNINGS STRAIN OF FINEST AMERICAN GROWN PANSIES. Fine plants from cold frames, 75 cts. per 100 by mail; \$4.00 per 1000 by express. SEND FOR CATALOGUE \$1.00 per pkt. of 2500 seeds; 25c. per oz.

B. W. JENNINGS, Asst. Grower of the Finest Pansies. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

PANSIES WORTH RAISING.

Seed, \$2.00 per package, 35 cts. extra good pills, 25 cts. per 1000. DWARF FLY STOCKS and CHRYSANTHEMUM CUTTINGS. Cash with Order. C. SOLTAN & CO., 139 Grant Ave., Jersey City, N. J. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

VEGETABLE PLANTS.

LETTUCE. Big Boston and other varieties \$1.00 per 100. CABBAGE. Jersey Wakefield and other varieties \$1.00 per 100. Cash with order, please. R. VINCENT JR. & SON, White Marsh, Md. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

COMMONWEALTH OF PENNSYLVANIA.

DEPARTMENT OF AGRICULTURE. FLORADALE, Pa., Oct. 11, 1906. TO WHOM IT MAY CONCERN:—This is to certify that I have this 11th day of October, 1906, inspected the nursery stock of C. L. Longsdorf, grown at Floradale, County of Adams, State of Pennsylvania, and find that the same is in accordance with the provisions of Act of June 20, 1904, entitled "An Act to amend the act of June 20, 1904, relating to the nursery stock of this State." Signed G. W. GROFF, Special Agent.

50,000 PEACH to offer at lowest prices.

C. L. LONGSDORF, Floradale, Pa. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

**CLEAN CITY Strawberry**  
Finest flavor, largest and solid. Home-grown. Imported by HARRIS & CURSIESS, 110 N. 3rd St., Philadelphia, Pa. Branch Seed, Catalogue FREE. HARRIS & CURSIESS, BELLIN, MD. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

DELAWARE COLLEGE AGRICULTURAL EXPERIMENT STATION.

DEPARTMENT OF HORTICULTURE AND BOTANY. G. HAROLD POWELL, HORTICULTURIST and ENTOMOLOGIST. NEWARK, DEL., Dec. 15, 1906. Mr. A. PULLER, Milford, Delaware. Dear Sir:—This is to certify that I have examined a large number of trees and plants in your nurseries for peach root-knot disease and San Jose scale and have been unable to find any of the above diseases or any other injurious insects.

PEACH & PLUM TREES

FOR SPRING DELIVERY, 1897. Reliable and clean stock of all wholesale rates. Send for Surplus Lists.

ASPARAGUS ROOTS.

3 and 3 Years, Strong. ALEXANDER PULLEN, Milford Nurseries, MILFORD, DEL. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

WATER LILIES and AQUATICS. All sorts. WE ARE GROWERS. Stock fresh and reliable. Prices rock bottom. Catalogue free. GEO. B. MOULDER, - - - - - Lily Park, Smith's Grove, Ky.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

STERLING NOVELTIES IN DAHLIAS.

The Following Were Leaders in our FIRST PRIZE COLLECTIONS in 1896. APPLE BLOSSOM. The most beautiful and distinct variety, varies from deep pink and carmine to pure white, velvety pink. Field roots. \$1.00 each; pot plants, 50 cts.; \$5.00 per doz. CAIRO W. W. BRUTON. Finest yellow ever introduced. Fall 1897 delivery; strong roots. 40 cts. each; \$4.00 per doz.; \$7.50 and 20's; \$14.00 per 50; \$25.00 per 100.

MISS MAY LOMAS. Pure white, delicately suffused, and edged soft rosy lavender NEW POPON. BOUQUET BALLS. Hesperus new introduced. Allie Mourey, Beauty that have taken first prizes repeatedly and are without equal. Alton, Inconitant, Daybreak, Elegance, Fairy Queen, Le Petit Jean, Little Bessie, Little Cactus, Little Diavolo, Miss Lou Kramer, Prince Charming, Red Piper, Snowbird and Sprig. NEW DOUBLE TOM THUMB. Grow to 12 to 15 inches, yellow, tipped red; profuse bloomer and beautiful. Valuable for bedding or pot culture. RED and BLACK. Deep wine red, margined jet black; beautiful and distinct.

WH. AGNEW. The grandest red Cactus Dahlia ever introduced; intense dazzling Queen 7 inches in diameter, twisted petals; very early and profuse bloomer. All above, except note 1, 3 cents each; \$1.50 per dozen; \$25.00 per 100. Strong field roots. Special prices on quantity. All leading new and old varieties. Send for descriptive Trade List for 1906. .... W. P. PEACOCK, Dahlia Specialist, ATCO, N. J.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

PANSIES, PANSIES, PANSIES!

Being the largest grower of Pansies in Europe, I can offer carefully selected seed of my choice strains at a very moderate rate. The quality is quite equal if not superior to that of any other European grower.

BATH'S EMPRESS. My own strain of Fancy Pansies, comprising the magnificent varieties specially selected for the Queen, the flowers are large, of good substance and of colors very bright and varied. In sealed packets, 6s., 9s. and 15s. per doz.; (retail, 1s., 1s. 6d. and 2s. 6d.).

BATH'S MONARCH. The largest Pansies grown, in a variety of rich colors. In sealed packets, 6s., 9s. and 15s. per doz.; (retail, 1s., 1s. 6d. and 2s. 6d.).

BATH'S FANCY EXHIBITION PANSY. Saved from the choicest named exhibition flowers only. In sealed packets, 6s., 9s. and 15s. per doz.; (retail, 1s., 1s. 6d. and 2s. 6d.).

BATH'S IMPROVED GIANT YELLOW. Large flowers of good substance. 4s. per doz.; 50s. per lb.

LORD BEACONSFIELD. Purple, top petals shading to white, splendid bedding variety. 2s. per doz.; 55s. per lb.

GIANT PURPLE. Large velvety purple. 2s. per doz.; 40s. per lb.

CLEVEDON YELLOW. Golden yellow, slightly rayed black, a splendid bedding variety. 2s. per doz.; 55s. per lb.

Cash with order or satisfactory reference.

R. H. BATH, THE FLORAL FARMS, WISBECH, ENG.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

Biota Aurea Nana.

This is a seedling of Biota Scupper Aurea, and originated 10 years ago in our grounds. The original plant measures only 36 inches in height, is of most perfect form, and surpasses all the other varieties of Biota Aurea so far introduced. During Fall and Winter the foliage assumes a beautiful golden color, and in Summer is of bright green. It has also the merit of being perfectly hardy in the latitude of New York. Nothing is more desirable in the way of a dwarf conifer. It has also proven valuable as a pot plant. Price 8 to 10 inches, \$2 per 10; \$12 per 100. 12 to 15 inches, \$3 per 10; \$15 per 100.

F. J. BERGMANN'S, Augusta, Ga. FRUITLAND NURSERIES. Mention paper.

NEW GERANIUM

EXTRACTS FROM A FEW LETTERS.

"MARS"

Special Certificate of Merit.

PRICES: Per doz. Per 100
Rooted cuttings... \$1.00 \$5.00
3 inch pots... .50 3.00
3 inch pots... 2.25 12.00
Cash with order. Orders filled strictly in rotation.

I shall be very pleased to receive... plants of your choice... I feel satisfied that it has a future...
ROSEY LORRAINE, Chestnut Hill, Philadelphia.

I was one of the judges at Reading, who could not resist the temptation to award a Certificate of Merit for your beautiful geranium, "Mars." I want, etc.
E. L. HUBBARD, Wayne Junction, Philadelphia.

Referring to your exhibit of "Mars" Geranium, I will be pleased to have you send me... I am one of the Park Commissioners of this city and want to introduce it in the Park.
WALTER S. DAVIS, Reading, Pa.

It will be a decided acquisition as a border geranium, and will give the very fine for small garden account of the profusion of blooms, which it shows.
CLEVELAND FLORIST CLUB,
Wm. J. Leitch, Secretary.

HENRY EICHHOLZ, FLORIST,
Waynesboro, Franklin Co., Pa.

100,000 VERBENAS.

THE CHOICEST VARIETIES IN CULTIVATION.

Fine flat pots, \$2.50 per 1000; \$20 per 10,000. Rooted Cuttings, 75cts. per 100; \$5.00 per 1000, \$50.00 per 10,000.

\*NO RUST OR MILDEW\*
Packed light and satisfaction guaranteed. Send for circular.
We are the largest growers of Verbenas in the country. Our plants cannot be surpassed.
J. L. DILON, Bloomsburg, Pa.

Giant and Dwarf Double Alyssum.
Lantana, Dwarf, Yellow Orange.
Dwarf Blue Ageratum,
Cuphea, 3/4 in. pots, \$2.00 per 100.

MRS. THEODOSSIA B. SHEPHERD,
Hybridizer and Grower of Novelties, offers the entire stock of some Grand New Begonias, New Abutilons, and a New Dwarf Double Fuchsia. Correspondence solicited.
Varieties by the Sea, California.
WHEN WRITING MENTION THE FLORIST'S EXCHANGE

GRAPE VINES

Small Fruits.
All old and new varieties. Extra quality Warrington free. Lower cost. Descriptive Catalogue Free.
T. S. HUBBARD CO., FREDONIA, N. Y.
WHEN WRITING MENTION THE FLORIST'S EXCHANGE

R. VINCENT, Jr., & SON, White Marsh, Md.
WHEN WRITING MENTION THE FLORIST'S EXCHANGE

GERANIUMS

Extra fine double varieties, Grant, S. A. Nutt, La Favorite and best at \$2. per 100; \$18 per 1000, etc. in pots.
Pelargoniums, best varieties, \$3.00 per 100.
Ivy Geraniums, \$2.00 per 100.
The Fragularis Violet plants, true and perfectly healthy, 2 in. pots, \$3.00 per set; \$25.00 per 1000.

Geo. H. Benedict, Yorkville, N. Y.
WHEN WRITING MENTION THE FLORIST'S EXCHANGE

GERANIUMS.

Rooted Cuttings.
Brouss, La Pilote, S. A. Nutt, White Swan. Named, assorted, \$1.50 per 100; \$15.00 per 1000.
Pyrethrum, Little Gem, per 100, \$1.50.
W. M. J. CHINNIK, Trenton, N. J.
WHEN WRITING MENTION THE FLORIST'S EXCHANGE

COLEUS.

Here is your chance! Red Verschaffeltii and Golden Heider, the leaders, for \$2.00 per 100, strong, well rooted cuttings. Mixed choice varieties, at \$2.00 per 100. Cash with order, or one-half with order balance C. O. D.
CHAS. L. MARSHALL, Lowell, Mass.
67 MERRIMAC STREET.
WHEN WRITING MENTION THE FLORIST'S EXCHANGE

LOOK HERE!

Gladiolus bulbs; California Petal, cuttings and plants; Lemon Lily; Platycodon, crocus; Spotted Calia, dry bulbs; Pyrethrum Ultramarine; Russian Violets; Japanese Golden Honeysuckle; Eulalia, in variety; Veronica Spicata; Asparagus roots; Gregg and Outbush Indigoberries. Also, some fine Begonia Rex.
S. J. GALLOWAY, — Eaton, Ohio.
WHEN WRITING MENTION THE FLORIST'S EXCHANGE

Geraniums, double Grant and others, fine plants, 2 1/2 in. pots, ready to move, \$2.00 per 100, \$20.00 per 1000.
MRS. LOUISE VIOLET REMERS, 82c. per 100, from 2 1/2 in. pots, \$2.00 per 100.
SMILAX, from flats, 80c. per 100.
Mycobolus, in bud and bloom; all colors.
Double Daffodils, 5 in. pots, in bud and bloom, \$1.00 per doz. Cash with order, please.
EVERITT & INSALL, Hackettstown, N. J.
WHEN WRITING MENTION THE FLORIST'S EXCHANGE

ROOTED CUTTINGS

COLEUS, of the best kinds at 6c. per root \$2.00 per 1000.
GERANIUM, Little Gem, \$1.50 per 100.
PARIS DANCE, white and yellow, \$1.50 a 1000.
VERBENA, leading sorts, \$1.25 a 100; \$1.40 a 1000.
W. E. SALLER, 3/4 in. pots; \$2.00 per 1000.
Satisfaction Guaranteed.
C. A. HARRIS & CO., Delanson, N. Y.
WHEN WRITING MENTION THE FLORIST'S EXCHANGE

LARGEST and FINEST FLOWERS VERBENAS HEALTHY VIGOROUS STOCK

BEST MAMMOT, rooted cuttings... per 10, \$1.25; per 100, \$10.40
OLD MAMMOT, rooted cuttings... " 1.00 " " 8.00
BEST MAMMOT, strong pot plants... " 2.50 " " 25.00
OLD MAMMOT, strong pot plants... " 2.00 " " 20.00

HEALTHY CARNATIONS ROOTED CUTTINGS

Per 100, 1000.
\$6.00 \$50.00
Armadillo, Ivory, Della Per, Triumph... 5.00 40.00
Buttercup, M. H. Stanley... 3.50 30.00
Bridesmaid, Melrose, Storm King, Eldorado, Alberion, Alaska, Day-break, Puritan... 2.00 15.00
Dean Hall, Bouton d'Or... 2.50 20.00
Thos. Cartledge, E. A. Wood... 2.00
Lizzie McGowan, Portia, Wm. Scott... 1.50 12.50

FIELD GROWN ROSES DORMANT PLANTS.

Per 100
Polyantha, strong plants, 7 varieties... \$4.00
Hybrid Perpetual, strong plants, 20 vars... 6.00
Hardy Climber, strong plants, 6 vars... 6.00
J. B. JACOBSON, 750 North 7th Street, H. P. Magna Charta, Paul Neyron, 10,000 strong plants.

CHRYSANTHEMUMS

ROOTED CUTTINGS. POTTED PLANTS
Ada Spaulding, Mme. Fred. Bergman, Helen Bloodgood, Elvira D. Smith, Harry West, Oakland, Guyum M. M. Johnson, Jennie Falkner, H. Richard Dean, Gladys Strong, Henry Robinson, Emma, Fisk Ivory, Mrs. McK. Twombly, Nivens, Potter Palmer, Mrs. S. Hamberg, J. E. Lauer, J. H. Troy, Harry May, Mrs. J. B. Crane, Frank Thompson, Dorothy Tolson, J. H. Starin, Fitcher & Nanda, Vivian-Morel, Morr, Graman.
Per 100, 1000.
\$1.50 \$10.00
From 2 1/2 in. pots, 400
Pres. W. R. Smith, Eugene Dilleden, Ivory, Thos. H. Brown, C. W. Munnis, Maudie Wau-maker, Miss May Wheeler, Mrs. J. G. Whildin, W. H. Lincoln, Mrs. Jerome Jones.
Rooted Cuttings, \$1.50 per 100.
From 2 1/2 in. pots, 3.00 "

STRONG ROOTED CUTTINGS.

Ageratum, blue and white... \$1.25 \$10.00
Galun, and other colors... 1.50 10.00
Fuchsia, double and single... 2.00 15.00
Feverfew, Dwarf Gem... 2.00 15.00
Geraniums, double and single... 2.00 15.00
Helleborus, light and dark... 1.25 10.00
New Flower, true... 2.00 15.00
Salvia, Splendid and Wm. Bedman... 1.25 10.00

WOOD BROS., Fishkill, N. Y.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

BEER'S SPECIAL OFFER OF SEASONABLE STOCK

DOUBLE PETUNIAS.
Our stock of these is so well known to require special description; we offer good healthy plants from 3-inch pots, \$1.25 per doz; \$8.00 per 100, or a set of 15 varieties for \$1.50.

TUBEROUS ROOTED BEGONIAS.

Now is the time to plant for early flowering; the strains in the same as has been sent out for several seasons, the best that can be procured.
We offer
Singles in choicest mixture... \$2.50 per 100; \$20.00 per 1000
Singles in separate colors as named, ordinarily in yellow, orange and rose... \$3.00 per 100; \$25.00 per 1000
Doubles in choicest mixture... \$3.00 per 100; \$25.00 per 1000
Doubles in separate colors as named, white, rose, yellow, \$1.25 per doz; \$8.00 per 100

GLOXINIAS.

A most select strain of the Crossifolia type in the mixture, \$4.00 per 100; \$30.00 per 1000.

SPECIAL VALUE IN YOUNG PALMS.

Having an immense stock of young plants of the following sizes we are enabled to supply them at a better value than our current Trade List, by laying in a supply at once.

KENTIA BELMOREANA.
2 1/2-inch pots, \$2.00 each; \$15.00 per 100; \$140.00 per 1000
3 " " 6.00 " 45.00 " 400.00 "
4 " " 8.00 " 60.00 " 500.00 "
KENTIA FORSTERIANA.
2 1/2-inch pots, \$1.50 per doz; \$10.00 per 100; \$90.00 per 1000
3 " " 2.50 " 15.00 " 140.00 "
4 " " 3.50 " 25.00 " 300.00 "

LATANIA BONONICA.

2 1/2-inch pots, \$2.75 per doz; \$3.00 per 100; \$4.00 per 1000
3 " " 1.25 " 12.50 " 70.00 "
4 " " 2.00 " 25.00 " 200.00 "

We are as usual carrying an immense stock of the usual decorative sizes, a full description of which will be found in our current Trade List.

JAPANESE IRIS.—A collection of 24 of the choicest Krumper varieties in cultivation imported from Japan, \$1.50 per doz; \$10.00 per 100; set of 24 for \$25.00.

New Sword Fern, Nephrolepis Cordata Compacta.—We consider this the most valuable addition to our list of ferns for many years, and the most desirable sword fern in cultivation. 3-inch pots, \$1.00 per doz; \$10.00 per 100.

For a full list of Novelties as well as a full standard collection of seasonable stock, see our Quarterly Trade List, which will be issued about January 15th.

We are Sole Agents for Mr. Crozy for the distribution of his new Cannas in the United States. A descriptive circular of his latest novelties will be mailed upon application.

HENRY A. DREER, 714 Chestnut Street, PHILADELPHIA, PA.
WHEN WRITING MENTION THE FLORIST'S EXCHANGE



FUCHSIA TRIPHYLLA HYBRIDA.
A FEW GOOD NEW OR RARE PLANTS.

New Asparagus Sprenger.—2 1/2-inch pots, \$1.25 per doz; \$8.00 per 100.
Alamanda Williams.—3-inch pots, \$2.00 per doz; \$15.00 per 100.
New Carnation Victor.—Rooted cuttings from soil, ready March 10; \$1.50 per doz; \$10.00 per 100.
Fuchsia Triphylla Hybrida.—Entirely distinct, a variety that is sure to please. 20 cts. each; \$5.00 per doz.
New Red Spirea Anthony Waterer.—One year old plants, \$1.50 per doz; \$10.00 per 100.
New Rudbeckia Golden Glow.—Good divided crowns, \$1.00 per doz; \$8.00 per 100.
New Pelargonium Dorothy.—A very choice variety, 2 1/2-inch pots, 30 cts. each; \$2.50 per doz.

Cut - Flower - Commission - Dealers.

J. K. ALLEN, Wholesale Commission Dealer in CUT FLOWERS, 87 W. 28th St., New York.

FORD BROS. WHOLESALE FLORISTS, 111 West 30th Street, NEW YORK.

WM. H. CUNTER, Wholesale Florist, VIOLETS and CARNATIONS A SPECIALTY.

MICHAEL A. HART, Wholesale & Commission Florist, 118 W. 80th St., New York.

H. A. HOFFMANN, Wholesale Florist, 54 W. 28th St., NEW YORK.

EDWARD C. HORAN, WHOLESALE FLORIST, No. 34 W. 29th St., New York.

JULIUS LANG, Formerly with Theo. Roehrs, Wholesale Florist, 53 WEST 30th ST.

FRANK HILLANG, Wholesale Commission Dealer, ...in Cut Flowers...

THE NEW YORK CUT FLOWER CO., 119-121 West 23d Street, NEW YORK.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

W. E. LYNCH, Wholesale Dealer in Cut Flowers. Send us your name for our Semi-Monthly Price List.

BASSETT & WASHBURN, Growers and Wholesale Dealers in CUT FLOWERS.

We grow the finest of American Beauties and other Roses. Also choice selected Valley all the year round.

WHOLESALE DEALERS IN CUT FLOWERS. NAME AND VARIETIES. NEW YORK, BOSTON, PHILADELPHIA, CHICAGO, ST. LOUIS.

Table with columns for Name and Varieties, New York, Boston, Philadelphia, Chicago, St. Louis. Lists various flower varieties and their prices.

For Prices of Fancy and Special Stock see our Correspondence Columns. Prices are for quantities of one hundred unless otherwise noted.

REINBERG BROS., Wholesale Growers of Cut Flowers, 500,000 Feet of Glass.

We can fill all orders on short notice with all leading varieties of ROSES and CARNATIONS.

SALESROOM 51 Wabash Avenue, CHICAGO, Ill.

SAMUEL S. PENNOCK, WHOLESALE FLORIST.

WELL FLOWERED MIGNONETTE, Long Spike Extra Good, MYOSOTIS, St. 50 per 100, fine stock.

We are still headquarters for finest and best varieties of CARNATIONS.

1612-1614 Barker St. Bet. Chestnut & Market Sts. Philadelphia, Pa.

KENNINGOTT BROS. COMPANY, Wholesale - Cut - Flowers, 88 Wabash Avenue, CHICAGO, ILL.

WIRE WORK A SPECIALTY. CHARLES W. MCKELLAR, 59 Wabash Ave., CHICAGO, Wholesale Commission Florist.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Cut - Flower - Commission - Dealers.

PURDY & BLAUVELT, Wholesale and Commission Dealers in CUT FLOWERS.

A. & F. ROLKER, WHOLESALE DEALERS IN CUT FLOWERS, 53 West 28th St.

W. F. SHERIDAN, Wholesale Commission Dealer in CUT FLOWERS, 39 West 25th St., New York.

TREANDY & SCHENCK, Wholesale Florists, 38 W. 28th St., and CUT FLOWER EXCHANGE, NEW YORK.

JOHN YOUNG, Wholesale Florist, 51 WEST 28th ST., NEW YORK.

WM. J. BAKER, Wholesale Florist, 1432 So. Penn Square, Philadelphia, Pa.

DUMONT & CO., WHOLESALE FLORISTS, CARNATIONS A SPECIALTY, No. 1305 Filbert St., Philadelphia.

EDWARD REID, Wholesale Florist, Finest Varieties, Roses, Carnations, Violets and Chrysanthemums, No. 40 South Sixth Street, Local and Long Distance Phone, Philadelphia.

ROGERS PARK FLORAL CO., Wholesale Growers of Cut Flowers, OFFICE and SALESROOM, 41 WABASH AVE., CHICAGO.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# TOBACCO STEMS

THE BEST AND STRONGEST  
SUIT AS PAPER, NOT OLD SIZED BY STIFF.  
YOU CAN GET THE BEST OF  
H. A. STOOHOFF, 315 MADISON AVENUE, NEW YORK CITY.  
**75c. per 100 lbs.**  
Bales weigh about 450 lbs.

**WHOLESALE FLORISTS**  
*N. F. Whiting & Co.*  
BRIDGE  
BRIDGES  
CEREMONIES  
WEDDINGS  
Always on hand.  
84 HAWLEY STREET, BOSTON, MASS.

**ASPARAGUS PLUMOSUS NANUS,**  
Cut Strings, 8 to 10 feet long.  
50 cts. each.  
Shipped to any part of the country.  
**W. H. ELLIOTT, - Brighton, Mass.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**A Profitable Convenience**  
THE FLORISTS' INTERNATIONAL TELEGRAPH  
DELIVERY ASSOCIATION. A reliable and up-to-date  
Florist WANTED IN EVERY CITY for  
correspondent. For particulars, apply to  
**C. B. WHITNALL, Box 87,  
MILWAUKEE, WIS.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**GEORGE MULLEN,**  
Wholesale and Commission Dealer in  
**Cut Flowers.**  
Best stock and lowest prices. Orders by  
mail, express, telegraph, or tele-  
graph promptly attended to.  
**GEORGE MULLEN, 18 Chapman Place, Boston**

**THE MONEY MAKER.**  
WORTH \$100.00 a year and more to all who cultivate Land, a Garden,  
Orchard or Greenhouse; covers, in plain language, by practical men,  
the raising of Fruits, Vegetables, and Plants generally, for table and market  
purposes, and tells how to make Home Grounds attractive.

**Cut Smilax.**  
FINE, 2 1/2 YARD STRINGS.  
12 1-2 Cents per String.  
**GEO. L. MILLER, Newark, O.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**GEO. A. SUTHERLAND,**  
Successor to W. J. STEWART,  
**CUT FLOWERS and FLORISTS' SUPPLIES**  
WHOLESALE.  
67 Bromfield St., Boston, Mass.



An Illustrated Weekly Journal devoted to Gardening and Fruit  
Culture in the Open and under Glass, and Re-ord  
of Current Events in Horticulture.  
Established Fifty Years.  
Every Saturday. 16 to 24 Pages. \$1.00 a Year.

**CUT SMILAX**  
10 cts. per String.  
THE NATIONAL PLANT CO.,  
DARTON, O.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**City Hall Cut Flower Market**  
**WELCH BROS., Props.**  
Regular Containers Given Space Free  
of Charge. Space let to growers wishing  
to sell their own goods.  
Flowers Shipped to all Points.  
...SEND FOR PRICE LIST...

**WITH HANDSOME PREMIUM.**  
Offices: Rhinelander Building, 2 to 8 Duane St., New York.

**Have Your Collections Made**  
—BY THE—  
**NATIONAL BOARD OF TRADE.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE  
**MEYER GREEN SILKLINE.**  
Good for Gathering SMILAX and ASPARAGUS.

**HEADQUARTERS**  
In Western  
New York.  
TRY US  
**ROSES, CARNATIONS,  
AND VIOLETS.**  
**WM. F. KASTING,** Wholesale  
495 Washington Street, Commission  
Buffalo, N. Y. Florist.

THERE is no paper published which so systematically teaches how to  
make money in working the soil, explaining all methods that make it  
yield freely, and render its products of extra value on the markets.  
AMERICAN GARDENING fills all wants in this direction and includes all that  
is worth knowing. It shows the profits to be obtained from



**W. ELLISON,**  
**Wholesale Cut Flowers,**  
Florist Supplies. Wire Design.  
2744 Franklin Ave., ST. LOUIS, MO.

**Fruits, Vegetables and Plants**  
By Intensive Cultivation  
Under Glass and In The Open.

Will not fade, or rot like other cords. Made also in fancy  
colors for typic purposes. Send for samples and prices.  
**JOHN C. MEYER & CO.,**  
ST. Summer Street, 100-101, MASS., U. S. A.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CHAS. G. FLECKENSTEIN,**  
**Wholesale Flowers,**  
1323 PINE STREET,  
...ST. LOUIS, MO.

The man who tills the soil for a living must now look to the close and  
careful cultivation of **Choice Fruits and Vegetables** on small areas of  
ground — intensive cultivation as against extensive cultivation.

AMERICAN GARDENING is the only paper published  
which is exclusively devoted to Intensive Cultivation.

**W. C. KRICK'S**  
"FLORISTS"  
Immortal Letters,  
ETC.  
Need a word or  
two in the way of  
Wair and Hibernia  
to make your  
Exhibited.  
These Letters and  
the best Immortal  
Book of the  
metal Frames having  
bottom of  
to insert (with-picks,  
and are  
fastened in the de-  
scribed manner.  
trial. You will find  
superior to any in  
the market. 3  
in Letters, 92-50  
per 100. Postage, 15c. per 100. For other sizes of  
Letters, Emblems and Designs, send for catalogue.  
Before purchasing send for free sample and catalogue  
and compare with any other letter on the market  
For sale by all Florists' Supply Dealers.

**FREE**  
To introduce it to NEW readers we will send  
AMERICAN GARDENING for three months (12  
numbers) to any address on receipt of TEN  
CENTS in stamps or coin. Sample free.

Subscriptions to be discontinued at the expiration of that time unless you  
notify the publishers to the contrary. This offer is open only to those who are  
not PRESENT SUBSCRIBERS to this journal.  
Address Your Orders to:  
**AMERICAN GARDENING, P. O. Box 1697, NEW YORK.**  
NOTE—We will allow 25 per cent. discount on yearly subscriptions at \$1.00 forwarded  
as my subscribers to the FLORISTS' EXCHANGE.

**C. A. KUEHN,**  
Successor to ELLISON & KUEHN,  
**WHOLESALE FLORIST,**  
1122 Pine St., St. Louis, Mo.  
A COMPLETE LINE OF WIRE DESIGNS.

**CHOCOLATE COOLER CO.,**  
GRAND RAPIDS, MICH.  
Manufacturers of  
**FLORIST'S REFRIGERATORS.**  
Send for Circular.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

**M. RICE & CO.,**  
Importers and Manufacturers of  
**FLORISTS' SUPPLIES,**  
25 N. 4th St., Philadelphia, Pa.  
NEW FALL CATALOGUE NOW READY.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**THE**  
**Perfect Flower Pot**  
**Handle and Hanger**  
is used for lifting  
plants out of Jarri-  
nieres, also for hanging  
up plants for de-  
corations on walls, etc.  
Will stand a weight  
of 100 lbs. No. 1 will  
hold from 2 to 10 pots,  
per doz., 50c. No. 2  
will hold from 3 to 5  
pots, per doz., 50c.  
No. 3 will hold from 2  
to 15 in. pots, per doz.,  
50c. Postage 15c. per  
doz. Sample pot 10c.

**C. W. WORS,**  
**Wholesale Florist,**  
313 N. LEFFINGWELL AVENUE,  
ST. LOUIS, MO.  
FINE ROSES—Shipped carefully to all  
parts of the country.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**BUY**  
**BOSTON LETTERS.**  
Best and Cheapest in the Market.  
15 and 2 inch. .... \$2.00 per 100.  
Best Script Letter in the World, 8 1/4 x 100.  
Set out of wooden letter box we give away,  
in next week's Exchange.  
**BOSTON FLORIST LETTER CO.,**  
84 Hawley Street, BOSTON, MASS.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**W. C. KRICK'S**  
"FLORISTS"  
Immortal Letters,  
ETC.  
Need a word or  
two in the way of  
Wair and Hibernia  
to make your  
Exhibited.  
These Letters and  
the best Immortal  
Book of the  
metal Frames having  
bottom of  
to insert (with-picks,  
and are  
fastened in the de-  
scribed manner.  
trial. You will find  
superior to any in  
the market. 3  
in Letters, 92-50  
per 100. Postage, 15c. per 100. For other sizes of  
Letters, Emblems and Designs, send for catalogue.  
Before purchasing send for free sample and catalogue  
and compare with any other letter on the market  
For sale by all Florists' Supply Dealers.

**W. C. KRICK, 1287 Broadway, Brooklyn, N.Y.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Have you bought

YOUR STOCK OF . . . . THE TWO NEW CANNAS

ITALIA and AUSTRIA?

If not, DON'T!

UNTIL, YOU GET OUR PRICE.

We are the sole agents in this country and Canada for Messrs. Dammann & Co., Italy, the originators of these GRAND NOVELTIES, and can sell the true thing at a price within the reach of everyone, for February and later delivery.

When buying from us you get the originator's stock, which has not been over propagated and forced to its full limit, but sound field-grown bulbs containing one to three eyes.

Say how many you want when writing for price. Descriptive circular of other grand new varieties by same originators sent upon application to Clucas & Boddington Co.,

Purchasing and Selling Agents for the Seed Trade, 501 and 503 W. 13th Street, - New York City. Telephone Call, 493-15th St.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

THE FARQUHAR—QUEEN OF VIOLETS

HEADQUARTERS STOCK. TRUE AND PERFECTLY HEALTHY.

Earliest, Freest, Darkest and most Double. Planted now will flower and give a quantity of runners for stock. 25¢ in, \$5.00 per 100; Rooted Runners, \$3.00 per 100, by mail; \$35.00 per 1000.

C. E. WELD, VIOLET SPECIALIST, ROSLINDALE, MASS.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

IF YOU HAVE NOT GOT ONE, SEND FOR ONE.

WHAT?

GRALLERT & CO.'S TRADE LIST OF

CARNATIONS VIOLETS CHRYSANTHEMUMS PELARGONIUMS

COLMA, SAN MATEO CO., CALIFORNIA.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

VIOLETS MY SPECIALTY!

On and after March 1st I will be ready to supply, in any quantity, stock of the following varieties. . . . . ROOTED RUNNERS, ALL FROM GOOD PLANTS.

FIVE (5) FRENCH MEDALS. TWO (2) AMERICAN MEDALS.



PRINCESS DE GALLES, the queen of single violets. The largest and most fragrant; a strong grower and productive. LUXONNE. Prices of these two on application. MARIE LOUISE. Per 100, 50¢; per 1000, \$4.00. SEND IN YOUR ORDERS NOW.

LADY CAMPBELL. Per 100, 50¢; per 1000, \$4.00. FARQUHAR. Per 100, \$1.50; per 1000, \$10.00. CALIFORNIA. Per 100, \$1.00; per 1000, \$5.00. CASH OR SATISFACTORY REFERENCE.

FERD. BOULON, Sea Cliff, L. I., N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Traffic Notes. Boston.

"One good day and then several poor ones," is the verdict of nearly all of the retail florists in this city on the condition of business. Balls and parties, dinners and other festivities are occurring in considerable numbers, and yet the retail business looked for at this season of the year is noticeable only by its absence. Roses have shortened up a little, and the demand is very good, while all other lines, with the exception of white carnations, are abundant at moderate prices; in fact, at prices that would have been considered cheap in preceding years.

E. M. WOOD was greeted by a large and appreciative audience at Horticultural Hall on Saturday last, when he lectured before the Society on "The Chrysantheum: Its Past, Present and Future." The upper hall was well filled by the audience, and Mr. Wood's paper, which was carefully prepared and of marked interest to all admirers of the chrysantheum, was admirably delivered from the platform. Next Saturday being the first Saturday of the month on which the Society's meeting is held, there will be no lecture.

A. G. COOK, of Shrewsbury, was awarded a first-class certificate of merit by the Massachusetts Horticultural Society on Saturday last, for his new seedling white carnation, Nivea. J. S. Bailey exhibited two fine pots of cyclamen, the flowers on one of which were double, and James Conley showed a very good seedling yellow carnation.

F. G. HENNING, who now represents the F. E. McAllister Company, New York, visited Boston and vicinity a few days since.

A number of growers from different sections of New England, as well as all the local and suburban representatives of the trade, went to the flower market, on Wednesday morning last, to see the exhibition of Ward's carnations, which was announced in the EXCHANGER last week. All were disappointed, however, as word was received from Mr. Ward that the exhibit could not be made until Thursday, Feb. 4. JOHN GALVIN, the veteran florist of this city, will shortly celebrate his golden wedding anniversary.

Montgomery, Ala. W. B. PATTERSON has recently added two houses each 90 x 22 ft., with shed attached. He reports a capital season, and is well pleased with his investment. His position as principal of the high school, and being the only florist here, places him in an enviable position.

Warwick, Conn. STEPHEN CHASE, of New Britain, has opened up a new plot of land newly arranged as his present grounds, and has ordered from France nearly 30,000 seedlings and choice ornamental stock to fill up the new grounds the coming Spring.

Elizabeth, N. J. JOHN BARKER has been awarded by a jury in the Union County Circuit Court \$250, with costs, in his suit against the Elizabethtown Gaslight Company, for damages he declared he had sustained through injury to his plants from escaping gas.

TUFF STUFF ON GREEN FLY IS TOBAC-OIL.

EBIE'S GAZONNET

THE LARGEST SINGLE VIOLET TO DATE

Larger than the California, darker color, better bloomer strong grower and sweet scented.

See Editor's notice in FLORISTS' EXCHANGER of April 4, 1896, under "Plants and Flowers."

For further information address

CHAS. EBLE, 114 Baronne St., New Orleans, La. BLOOMINGDALE NURSERY.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WE TAKE PRIDE

in OUR NEW CATALOGUE,

Just issued, of

LONG'S Florists' Photos

In its scope (a descriptive list of nearly 300 subjects), being freely illustrated and beautifully printed, it becomes a "MULIER PARVO" of suggestions and ideas for the makerup and designer.

APPLY TO THE PUBLISHER.

DAN'L B. LONG, Publisher, BUFFALO.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Advertisement for 'THE BEST FOR ALL' tobacco extract, featuring a circular logo with 'ROSE LEAF EXTRACT OF TOBACCO INSECTICIDE' and 'FOR SALE BY Seed Stores.' Text includes 'For Free Pamphlet, Write to LOUISVILLE SEWING CO. TOBACCO CO. Louisville, Ky.'

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Advertisement for 'DEMING PUMPS' and 'SPRAY FOR PROFIT'. Includes a globe logo and text: 'THE WORLD'S BEST', 'WE MANUFACTURE PUMPS FOR ALL PURPOSES', 'Our Spray Pumps and Sprayers are used by the experient stations and are leading horticultural aids. The best fruit and berries can only be produced by spraying. It is essential to illustrate 25 Pages of Matter. File at once.', 'THE DEMING CO., SALEM, OHIO, 215 1/2 N. 4th St. and 2nd. Chicago, Ill. 61 to 69 North Jefferson St., CHICAGO, ILL.'

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

21 cents 5 cents for each 600 feet of hose spout.

Kill AND SAVE THE BLOOMS! Nikoteen

Does not injure the most sensitive plants. Endorsed by prominent florists. Used for fumigation or spraying indoors or out. 500 pounds of tobacco in one pint of kholon. Sold by wholesale. Circular Free. KEASOTA DIF CO., CHICAGO.

Nikoteen

Just issued and mailed to applicants' request business cards. Address

August Rolker & Sons, Wm. 23th St., P. O. Station 5, NEW YORK.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Advertisement for 'NATURAE ARTIS MAGISTER' featuring a tree logo and text: 'TRADE MARK', 'SEASON 1897. Trade List of Select FLOWER SEEDS, SPRING BULBS AND SUNDRIES, Just issued and mailed to applicants' request business cards. Address August Rolker & Sons, Wm. 23th St., P. O. Station 5, NEW YORK.'

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

IF YOU IMPORT ANY FLORIST OR NURSERY STOCK, Don't forget to ask for the Florists and Nurserymen (Book-keepers) price list... LOUIS VAN KORT, General Agent, 205 Dorchester Street - Ft. Boston, Mass.

ROYAL PALM SERIES ONECO, FLORIDA.

WHOLESALE PRICE LIST FOR SPRING OF 1897.



FOR general list of a very complete stock send for large descriptive catalogue; discount to wholesalers from retail prices quoted in the catalogue is 25 per cent., when purchases are made in wholesale quantity. Orders must be accompanied with cash, except from old customers whom we know to be perfectly reliable. (30 days then.)

CYPERUS ALTERNIFOLIUS.

NOW READY.—From 1 1/2 inch pots, postpaid, \$3.00 per 100; by express, \$2.00 per 100.

GEO. E. TALBOT, Box 367, Putnam, Conn.

CLEMATIS — Both dormant and in pots; good fruiting, \$5.00 per doz.; \$20 per 100. Spentall seeds to Florida, \$1.00 per doz. heading kinds, one each; several new ones, \$3 per 100.

SMILAX — Strong plants from last year, 25 in pots, \$4.00 per 100.

HERBACEOUS CLIMBING — Named kinds, \$1.00 per 100; \$8.00 per 100, Double white, \$10.00 per 100.

F. A. BALLER, Bloomington, Ill.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

PELARGONIUMS.

Extra strong plants from 2 1/2 inch pots. Will make fine plants for Easter sales. Varieties: Mabel, Ford Napier, Dr. Andry.

75c per doz.; \$5.00 per 100. CABIN WITH ORDER.

Mrs. THOS. LAWRENCE, Ogdensburg, N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

STRONG Rooted Cuttings BRING BIG PROFIT.

Agave, Chloris, Parthenoc, — per 100, \$1.00. Double Herb Alism, Fuchsia, — per 100, \$1.50. Double Herb Alism, Fuchsia, — per 100, \$1.50. Double Herb Alism, Fuchsia, — per 100, \$1.50. Double Herb Alism, Fuchsia, — per 100, \$1.50.

C. W. TURNLEY, p. s. M — Hadfielden, N. J.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

10,000 COLEUS.

Rooted cuttings. Verschaftelli, Golden Bed and 23 other sorts, 25 cts. per 100, by mail \$6.00 per 1000, by express.

5000 HELIOTROPE — Rooted cuttings, 25 best sorts, labelled, \$3.00 per 100; postpaid, \$3.50 per 100.

20,000 VERBENA COLEUS — 30 improved varieties, no root or stem, strong well rooted and thrifty, labeled true, 25 cts. per 100, postpaid, \$1.00 per 1000.

8000 EMBROIDERY OF CHINA, well-rooted cuttings. The new everblooming hardy apple blossom pink CLEMATIS ROSE, most popular rose for the Fall trade. \$2.00 per 100, mail, postpaid; \$17.00 per 1000, by express.

25,000 FLOWERING BEGONIAS, rooted cuttings. Argentine, Gaiety, Gemalina, Mitta, Alida, Decora, Alida, Picra, Brant, Margarita, Dade and 23 other good sorts. \$1.00 per 100, by mail, postpaid; \$8.00 per 1000, by express.

SATISFACTION GUARANTEED.

A. B. DAVIS & SON,

(Near Washington, D. C.) FURCELLVILLE, Va.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

FUCHSIA! FUCHSIA!!

Rooted cuttings, in flats, all the latest and best varieties, \$15.00 per 100, \$15.00 per 1000. Same in 2 1/2 inch pots, \$25.00 per 1000.

GERANIUMS.—The best and latest varieties, \$10.00 per 100, \$10.00 per 1000. Rose Geranium, \$2.00 per 100. Marble, \$1.25 per 100. Mt. Snow, \$2.50 per 100, \$2.50 per 1000.

HELIOTROPE.—At least six varieties, \$10.00 per 100.

AGERATUM.—Dwarf ball and white, \$5.00 per 100.

FICUS.—Little Gem, in flats, \$15.00 per 100.

SALVA SPLENDENS, \$10.00 per 1000.

HEADQUARTERS FOR COLEUS

Grismore Verschaftelli and Golden Green, \$2.00 per 100.

COLEUS in variety, \$5.00 per 1000.

Correspondence solicited on large orders. Cash with order. Selection of sorts to remain with us.

J. E. FELTHOUSEN, Schenectady, N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Tropical and Semi-Tropical Fruit Plants.

Table listing various tropical and semi-tropical fruit plants with columns for Height (Inches), Size (per doz.), Price (per doz.), and Price (per 100).

All members of foregoing list are ornamental and may be readily fruited under glass, or outdoors in Southern California and Florida.

Economical or Useful Plants.

Table listing economical or useful plants with columns for Name, Price (per 100), and Price (per doz.).

Conifers.

Table listing conifer plants with columns for Name, Size, Price (per 100), and Price (per doz.).

Palms and Cycads.

Table listing palm and cycad plants with columns for Name, Price (per 100), and Price (per doz.).

We ask a trial of our plants and can convince you that quality and quantity are O. K. in every way, and prices very low.

January, 1897. REASONER BROS., Oneco, Florida.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Table listing various plants with columns for Name, Height (Inches), Size, Price (per doz.), and Price (per 100).

Bamboos and Grasses.

Table listing various bamboo and grass plants with columns for Name, Price (per doz.), and Price (per 100).

Miscellaneous Plants and Bulbs of Value.

Table listing various miscellaneous plants and bulbs with columns for Name, Price (per doz.), and Price (per 100).

We ask a trial of our plants and can convince you that quality and quantity are O. K. in every way, and prices very low.

January, 1897. REASONER BROS., Oneco, Florida.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

JOHN GADLEY & SON.

MANUFACTURERS OF

TIN FOIL,

2 and 4 Dominick Street, NEW YORK.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

MASTICA

For Glazing Greenhouses. A substitute for putty. Superior in every way. MASTICA and MASTICA GLAZING MACHINES were given Highest Award of S. A. F. at Philadelphia.

F. O. PIERCE CO., 170 Fulton St., N. Y.

Sole Manufacturers.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

STANDARD POTS

We are now ready to supply a superior quality of Pots in unlimited quantities. Catalogues and price lists furnished on application.

A. H. HEWES & CO., NORTH CAMBRIDGE, MASS.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Standard Pots

MADE BY...

Good Railroad Facilities. KELLER BROS. for Shipping. Special Attention Given. NORRISTOWN, PA.

Price Lists Furnished on Application.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

STANDARD FLOWER POTS

In any quantity, and of the best quality.

Get my price list before ordering elsewhere.

W. H. ERNEST, Station M, N. E., WASHINGTON, D. C.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Neponset Flower Pots

of Waterproof Paper, are sold as follows: Terms—Net cash with order. If ordered shipped by freight, add of extra charges.

W. H. ERNEST, Station M, N. E., WASHINGTON, D. C.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Neponset Flower Pots

of Waterproof Paper, are sold as follows: Terms—Net cash with order. If ordered shipped by freight, add of extra charges.

W. H. ERNEST, Station M, N. E., WASHINGTON, D. C.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Packed in Great Weight

Size of Pots and Price per 1000

Standard Pot Measures.

See quantities that will cover at 100 rates.

F. W. HIRD & SONS, Manufacturers.

Address orders to our General Agents,

August Rölker & Sons

New York. P. O. Station E.

or 2 J. PARQUEUR & CO., Boston, Mass. Eastern Agent

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

A Good Paper.

Yours is a good paper. I advertise in it for our business.

HENRY R. RUPP & SONS,

Baltimore, Md., June 1, '96.

Augusta, Ga.

Traces of the destructive December storm are very evident here, a large number of the finest specimen trees upon P. J. BRUCE'S place were destroyed; havoc was played with smaller stock, particularly rooms, which were very soft, owing to the exceptionally warm fall. Following in the wake of the storm a sharp frost fell, which cut all tender stock back. At present, the weather is favorable for shipping, and extra hands are being employed, owing night and day with orders. A very good season is reported. The demand, which, owing to disturbances in Cuba and at the Cape, declined somewhat this season, has been compensated by an extraordinary call from Mexico. Preparation for growing crops on a larger scale are being made; some fifty thousand Market stocks are just planted for working next season. All the new varieties of roses are tried before being sent out, to test their adaptability to soil and climate. Mr. Beckman is very successful in the culture of camellias, and believes that with a tariff of 50 per cent., enough can be raised right here to supply home and southern trade. It looks that way, with a fine thrifty stock of 25,000 two-year-old plants. Azaleas thrive here, and bear a growth chiefly under slates, do not make such rapid growth as does the Belgian stock, requiring fully one season longer; it is believed these can also be raised with profit with a duty of 50 per cent. A splendid stock of one-year-old plants, ready to be pinched back, is in frames to be planted out in houses with slat roofs. It has been found that croton, acclaph and arbutanthes succeed beautifully in this climate, making remarkable growth, both indoors and out, the colorings are superb, surpassing what is usually seen in the north. Coleus, etc., have been entirely discarded for bedding purposes. A big stock of orange is raised, both for blossoms and fruit, a large quantity for orange blossom in Murraya exotica, which bears a flower very similar to that of the orange, both in form and standard. It is very free-flowering, and has a pretty habit. Considerable stock has been worked up of the ever-bearing peach, which was described in the EXCHANGE at this time last season. Stock will be sent out next fall, which will introduce a new class of stone-less fruits. W. M.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

TUFF STUFF ON GREEN FLY IS TOBAC-OIL.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Hot-Bed Sash

Temons white-leaded. Corners secured with iron dovetails. Every detail of construction perfect. Made of Clear Cypress Lumber.

Quick Shipments.

We have in stock and can ship immediately:

3 ft. x 6 ft., 3 rows 10 in. glass, 3 ft. 3 in. x 6 ft., 4 " 8 in. "

4 ft. x 6 ft., 5 " 8 in. "

Not glazed, 1 1/2 in. thick.

Delivered Prices

Quoted on application. State size and quantity wanted. No order too small to receive careful attention, and none too large for our facilities.

LOCKLAND LUMBER CO., Lockland, Ohio.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WELCH BROTHERS, DEALERS IN

FLORISTS' SUPPLIES, No. 2 Beacon Street. - BOSTON.

Wire Design, Wheat Sheaves, Baskets, Impermables, Cape Flowers, Cut Flowers, Boxes, and all other supplies, at prices to meet competition.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Standard Flower Pots.

Send for our New Price List with extra discounts. All our Pots, from 7 in. and upwards, have our Patent Elevator Bottom, which is a great advantage, as it insures perfect drainage.

A FULL LINE OF BULB PANS.

THE WHILLDN POTTERY CO., 713 to 719 Wharton Street, PHILADELPHIA.

BRANCH HOUSES: Kestover and Westside Aves., Jersey City, N. J.; Jackson Ave. and Pearson St., Long Island City, N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

JOHN MONINGER CO.

412 to 422 HAWTHORNE AV., CHICAGO, ILL.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Hot-Bed Sash advertisement with technical specifications and contact information for Lockland Lumber Co.

STANDARD FLOWER POTS.

Our Specialty is large pack orders of Florists Standard Pots, a large stock of which we keep on hand ready for shipment on day order to flasing

AUGUST RÖLKER & SONS, New York Agents, 200 & 202 W. 24th St., NEW YORK CITY.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WATER FOR HOME, FARM AND RANCH.

Everything on a farm or ranch dependent upon water can be supplied with the celebrated

DELAMATER-RIDER and THE DELAMATER-ERICSSON HOT AIR PUMPING ENGINES.

The subject of irrigation is engaging the attention of all who are engaged in any business of providing water in an arid zone, not only for irrigation, but for the various purposes of the farm, such as washing stock, household use, the laundry, and many other purposes.

DELAMATER-RIDER and THE DELAMATER-ERICSSON Hot Air Pumping Engines. They are so simple, economical and so well managed that they are deemed to surpass all other means for supplying water and about any quantity of water. Will pump water from any source and force it to any height and distance. Will burn any kind of fuel. Write for catalogue to

THE DELAMATER IRON WORKS, CHICAGO, ILL.

THE DELAMATER IRON WORKS, NEW YORK CITY.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WELCH BROTHERS advertisement for florists' supplies, listing various items and branch houses.

FLOWER POTS

We are Manufacturing a Full Line of STANDARD FLOWER POTS and HANGING BASKETS OF THE BEST QUALITY.

Shipping Facilities First-Class, thereby securing Lowest Freight Rates. Our goods are well packed, and breakage is nominal. Give us a trial. Send for Price List.

Address THE SYRACUSE POTTERY CO., 403 N. SALINA ST., SYRACUSE, N. Y.

THE JOHN J. PETERS COMPANY

(INCORPORATED) COMPRESSED

Beats Every Chemical Fertilizer on Earth.

Pure Sheep Fertilizer permanently improves the soil.

Matures the largest and best crops. Quick and lasting in its action.

NATURAL. ODORLESS. CLEAN TO HANDLE.

Advertisement for Sheep Fertilizer featuring a circular logo with a sheep and the text 'SHEEP FERTILIZER' and 'TRADE MARK'.

WHERE DO YOU HAVE YOUR CATALOGUES PRINTED?

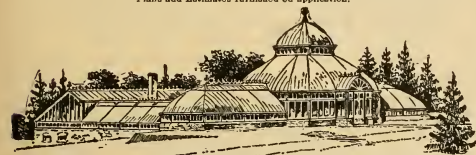
THE publishers and proprietors of THE FLORISTS' EXCHANGE and AMERICAN GARDENING possess one of the largest and most modern plants in the country for the manufacture of Horticultural Catalogues. Their men are specially trained to the work; their prices are very moderate, and estimates will be promptly forwarded on application. First come, first served.

The illustration of Novelties in Color a Specialty. Our process equals lithography in effect; surpasses it in detail, and is much cheaper.

Address, A. T. DE LA MARE PTG. & PUB. CO., Ltd., 2, 4, 6 and 8 Duane St. (P. O. Box 1697), New York.

**LORD & BURNHAM CO.,**  
**HORTICULTURAL ARCHITECTS AND BUILDERS,**  
 STEAM AND HOT WATER HEATING ENGINEERS.

Plans and Estimates furnished on application.



Largest Builders of Greenhouse Structures. Six Highest Awards at the World's Fair.  
 Send four cents postage for Illustrated Catalogue.

**LORD & BURNHAM CO.,**  
 ARCHITECTURAL OFFICE, 160 FIFTH AVE., COR. 21st STREET, NEW YORK.  
 Factory: Irvington-on-Hudson, New York. Mention paper.

**Extra Improved Challenge.**  
 Roller bearing, self-colling de'vin, automatic stop, solid link chain, makes the IMPROVED CHALLENGE the most perfect apparatus in the market.  
 Write for catalogue and price before placing your orders elsewhere.  
 Quaker City Machine Co., RICHMOND, IN D.

**Modern Greenhouse Heating.**

One of our boilers, 10,800 feet of two inch pipe, and sixty tons of coal will heat 22,400 feet of glass (four 20x200 feet double cable glasses) to 65 degrees in coldest Winter weather; they have done it, and will do it for you—we guarantee it. Our boilers are not only the best of their kind, but the best made. They have the largest "firebrigt" direct surface, are the easiest cleaned, handled and set up; and from engineering facts, they are the ideal frictionless, economical water heating boilers of our day.

**Plenty's Horticultural Works,**  
 148-156 Randolph, Ave.,  
 JERSEY CITY, N. J.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**GLASS**

FOR GREENHOUSES, CONSERVATORIES, GRAPERIES, HOTBEDS AND AND FLORISTS' USE GENERALLY, AT LOWEST RATES.

**L. H. FERRIS & SON,** 89 LIBERTY ST., NEW YORK  
 497 W. BROADWAY, NEW YORK, 841 Broadway and Church Sts.  
 Del. Hazen and Oberdor Sts.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**JOHN H. JACKSON, Successor to JACKSON BROS.** Established 1825  
 NEW YORK TRAPEZOIDAL TILE AND PIPE WORKS, 210 1/2 ST. ALBANY, N. Y.  
 Manufacturers of Best and Best in Agricultural Drain Tile, Self Glazed Sewer Pipe, Red Pressed Brick, Mortar Colours, Blue Brick, Green Tile, Chimney and Fire Linings, Churns, Pump Fire Clay Store Pipe, Fire Clay, Koolin, Economic Substrate, The Removable and Portable Concrete Lamps, Flashes, etc.

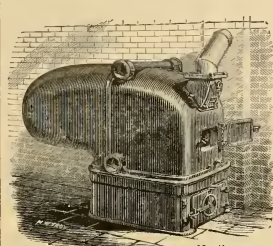
**GLASS!** For Greenhouses, Conservatories, Graperies, Hotbeds and all other purposes, at Lowest Rates. **GLASS!**  
**N. COWEN'S SON** 392 & 394 West Broadway, New York.  
 Formerly 154 and 156 No. Fifth Avenue.  
 Get our Figures before buying Glass. — Estimator Freely Given.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

SEND FOR OUR NEW CATALOGUE, WHICH SHOWS  
**The New Automatic Cable Ventilator**  
 As it is put up in the house complete. We also give you prices with a guarantee that each machine sent out will operate your house successfully. Soil machines now made in two sizes.  
**A. Q. WOLF & BRO., Dayton, Ohio.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**GREENHOUSE HEATING AND VENTILATING,**  
 Horticultural Architecture and Building.



MENTION PAPER. SEND 4c. POSTAGE FOR ILLUSTRATED CATALOGUE.

**Hitchings & Co**

ESTABLISHED 1844.  
 233 Mercer Street, NEW YORK

**FIVE PATTERNS OF BOILERS.**  
 NINETEEN SIZES,

Perfect Sash Raising Apparatus.  
 Rosehouses, Greenhouses, Etc., of Iron Frame Construction erected complete or the Structural Iron Work shipped ready for erection.

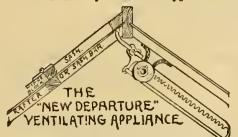
Iron Frame Benches with the "Perfect Drainage Bench Tie" or State Tops.

EVERY FLORIST OUGHT TO INSURE HIS GLASS AGAINST RAIL.

For particulars address  
**JOHN C. ESTER, Secy.,** 344 Erie River, N. J.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**VALVES, FITTINGS, AND VENTILATING APPARATUS.**  
**COLDWELL-WILCOX CO.,** Newburgh, N. Y.  
 Mention paper.

IF YOU WANT A GOOD SASH LIFT For a Very Little Money, Get



For Descriptive Catalogue Send to  
**J. D. CARMODY, Evansville, Ind.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CALIFORNIA RED CEDAR**  
 Never Decays.  
**A. DIETSON & CO.** 619 Sheffield Avenue, CHICAGO.  
 MANUFACTURERS OF RED CEDAR AND CYPRESS GREENHOUSE MATERIAL.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**STANDARD VENTILATING MACHINE.**  
 NONE EQUAL IT IN Strength AND Durability  
 Send for Catalogue.  
**E. HIPPARD, YOUNGSTOWN, OHIO.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE



**ATTENTION, FLORISTS!**  
 It will be to your advantage to look into the merits of the Scollay "Invincible" Hot Water Boiler. It is all that its name implies, and don't forget it.  
 Cuts and full information mailed on application.  
**JOHN A. SCOLLAY,**  
 89 & 91 CENTRE ST., NEW YORK,  
 74 & 76 MYRTLE AVE., BROOKLYN, N. Y.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Clear Cypress Greenhouse Material.**  
 This with us means the best growth of Cypress Lumber and the best grade of that growth; and from this grade all the sap—bright sap, which only experts can detect—as well as stained sap, knots and other defects cut out. Others do not equal our quality if they do beat our prices. It is not hard to see the reason: You can not buy gold dollars at fifty cents each. Experienced growers know that the best is not too good and cheapest in the long run.  
 Write for Circulars or Estimates.  
**Lockland Lumber Co.,**  
 LOCKLAND, O.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**OUR CANNA COLLECTION WILL BE INCOMPLETE**

AN attractive and beautiful NOVELTY that live Florists all want . . . . .

WITHOUT THE NEW VARIEGATED VARIETY

To see it will rivet the WANT . . . . .

Send for Circular and Colored "JOHN WHITE" Plate, if not yet received. . . . .

Strong Plants, ready Feb. 15th, 75c. each; \$7.50 per dozen; \$50.00 per 100. . . . .  
Cash or Satisfaction References From Various Correspondents as bright as the morning.

ORIGINATED AND INTRODUCED BY JOHN WHITE, Elizabeth, N. J. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CLEMATIS** \*  
**CARNATIONS**  
**CHRYSANTHEMUMS**

For special prices address  
**G. EISELE, 11th & Jefferson Sts. Phila Pa.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE  
**ROOTED CUTTINGS.** Cash prices. All transplanted in soil as good as pot-grown plants. Perfectly healthy stock.  
Verbena, Mammoth, - \$1.00 per 100, by mail, \$5.00 per 100, by express. Mammoth seedlings, 50c per 100, by mail, \$5.00 per 100, by express.  
Carnations, Scott and McDougall, - \$1.10 per 100, by mail, \$5.00 per 100, by express.  
Variety, Lady J. Campbell, - Strong, well-rooted runners, by mail, 50c per 100, by express. English fry, strong, \$3.00 per 100.  
Chrysanthemums, - Finest standard varieties, \$1.00 per 100  
Vines Variegata, Glechoma Variegata, - Each \$1.00 per 100.  
Peweevine, - Dwarf Gem sweet Alyssum, double seedlings, \$1.00 per 100.  
Peweevine, - Dwarf Gem sweet Alyssum, double seedlings, \$1.00 per 100.  
Ornithoglossum, - 3-in. pot plants, 45c per 100.  
E. FRYER, Railroad Ave. and Hill St., Brooklyn, N. Y.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Live Sphagnum Moss and Orchid Peat  
**BEST QUALITY.**  
For Prices, etc., address,  
**Bernhard Lapp, New Providence, N. J.**

**ALL the leading orchid people are using . . . ORCHID PEAT**  
From **THE SMILAX KING.**  
Price One Dollar per Barrel.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**VERBENA KING**

500,000 Rooted Verbena Cuttings, the finest varieties in cultivation, true to name, 60 cts. per 100; \$5.00 per 1000; 5000 for \$35.00; 10,000 for \$45.00, express prepaid. No Root or Mildew. Satisfaction guaranteed in every way. We are the **LARGEST VERBENA GROWERS IN THE WORLD.**  
**C. HUMFELD, Clay Center, Kansas.**  
SEND FOR LIST.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**50,000 SMILAX**, by mail, 50c. per 100. From 2 in. pots, \$1.50 per 100, \$15.00 per 1000. By express, \$2.00 per 100, \$20.00 per 1000. HYBRIDUMS, 3 in. dormant, \$5.00 per 100. Send for samples. Cash on order.  
**F.R.D. BERNER, Cape May City, N. J.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**LITTLE BEAUTY FUCHSIA.**

The best seller ever introduced. Has no equal as a money maker; begins to bloom profusely in February. Strong plants from 2 1/2 in. pots, \$5.00 per 100.  
**GERANIUMS.**  
Silver Cloud, Metaboss, Happy Thought, 2 1/2 in. pots, \$1.00 per 100.  
VINE, Polka Dot, 2 1/2 in. pots, \$8.00 per 100.  
La Favorite, the only good white, 2 1/2 in. pots, \$4.00 per 100.

**Florists' Supplies**  
W. F. Gale  
331 Main  
\$3.98  
**H. BAYERSDORF & CO.,**  
56 N. FOURTH STREET, PHILADELPHIA, PA.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Largest Stock in the Country.**

All goods up to date, and of superior quality. Send for illustrated Catalogue.

**MY BUSINESS is gaining every year.**  
**WHY?**

Because you cannot buy better or cheaper than of **A. HERRMANN, 404-412 E. 34th St., New York, near Farry**  
MANUFACTURER OF METAL FLORAL DESIGNS, IMPORTER AND DEALER IN FLORISTS' SUPPLIES.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Prize-Winning DAHLIAS**

AN UNPRECEDENTED RECORD.  
23 First Prizes, Certificate of Merit, 2 Diplomas, and highest mention everywhere.  
Our 1897 Descriptive Trade List will be ready about February 1st, and will be mailed to all who received our year list without cost. If you want the very best Dahlias that bloom, address  
**W. P. PEACOCK,**  
Dahlia Specialist, **ATCO, N. J.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**WE MEET THE PRICES OF ALL COMPETITORS ON NEW**

**CANNAS "Italia" and "Austria."**

**500 DOLLARS WORTH FOR 25 CENTS**  
Two years ago we offered the originator of these Cannas  
**1000 DOLLARS**  
for one plant of **ITALIA** and one of **AUSTRIA**.  
The offer was refused - \$25.00 asked for a part of the stock.  
That the plants were fully worth the price asked was proved by the enormous sales made subsequently at \$5.00 each, from top to six months ago.  
Owing to rapid propagation we can now make our offer.  
At 25c. each, \$25.00 per doz.; \$2.00 per 100; \$50.00 per 1000.  
At 60c. each, \$6.00 per doz.; \$45.00 per 100; \$450.00 per 1000.  
The prices for immediate delivery; and, large, home-grown roots. Send for list of **ALL THE NEWEST CANNAS** at popular prices.  
**ALL SOLD.** Our entire stock of **ASPARAGUS SPRENGERI**, consisting of nearly 10,000 plants, was sold to Mr. Robert Craig - he knows a good thing when he sees it.  
**NEW ROSES, CLIMBING WOODY, GERMINE PILLAR, \$2.00 per doz.; \$10.00 per 100.**  
\* See for catalogue of novelties, **314 AND 315 N. 11th STREET, PHILADELPHIA.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**500 DOLLARS WORTH FOR 25 CENTS**



(Flower One-half Size.)

**AUSTRIA, at 25c. each, \$25.00 per doz.; \$2.00 per 100; \$50.00 per 1000.**

**ITALIA, at 60c. each, \$6.00 per doz.; \$45.00 per 100; \$450.00 per 1000.**

The prices for immediate delivery; and, large, home-grown roots. Send for list of **ALL THE NEWEST CANNAS** at popular prices.

**ALL SOLD.** Our entire stock of **ASPARAGUS SPRENGERI**, consisting of nearly 10,000 plants, was sold to Mr. Robert Craig - he knows a good thing when he sees it.

**NEW ROSES, CLIMBING WOODY, GERMINE PILLAR, \$2.00 per doz.; \$10.00 per 100.**

\* See for catalogue of novelties, **314 AND 315 N. 11th STREET, PHILADELPHIA.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**For Sale or Exchange**

Heliotrope, Mau. Brent and Mrs. Beal - 2 1/2 in. pots, \$3.00 per 100; \$3.00 for 300 4 in. pots, \$5.00 per 100.  
Chrysanths - 4 varieties, 2 1/2 in. pots, \$1.00 per 100.  
Rex, Pollock, Hamark and other variegated Geraniums, 2 1/2 in. pots, \$4.00 per 100.  
Geraniums - Best bedding varieties such as double General Ours, La Favorite, Potpourri, Madras, Dr. Clinton, Sam Sloan, Standard, General Philadelphia, Jules Verne and other good varieties; 2 1/2 in. pots, \$4.00 per 100; \$3.00 per 300; \$10.00 per 1000.  
Begonias - 1st. variegata; a good assortment, including S. Nymphs, \$2 to 4 in. pots, \$1.00 per 100.  
Fuchsias - Single and double, 2 in. pots, \$1.00 per 100.  
Paras Japaneus - Strong, 2 1/2 in. pots, \$1.00 per doz; 4 in. pots, \$1.50 per doz.  
Clematis - 1st. Major and other well-rooted cuttings, 3c. per 100; \$4.00 per 1000.  
Carnations - Boston, Standard, Explorer, non-double, Florence Vauban, Mau. Croy, St. Hillarys, Rose d'Inde, Paul Marquardt, \$2.00 per 100.  
Candelabra Escalloneum - All sizes at low prices. Exchange part for good 3 and 4 in. pot plants. Free on good Roses.  
**G. C. GANZ, - Owensboro, Ky.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**ORDER ROOTED CUTTINGS.**

Per 100 Per 1000  
**REX BEGGONIA,..... \$2 00**  
**MRS. POLLOCK GERANIUM..... 2 00**  
**GERANIUMS, Double White,..... 1 00**  
Pink S. A. Nutt..... \$15 00 2 00  
**GERANIUMS, mixed..... 12 00 1 00**  
**DELTS..... 6 00 0 00**  
**ALTERNAN..... 7 00 1 00**  
**HELIOTROPE..... 12 50 1 00**  
**SWEET ALYSSUM..... 1 00**  
**WINE VINE..... 12 50 1 00**  
**ALVIA..... 10 00 1 00**  
**LEMON VERBENA..... 12 50 1 00**  
**COLEUS..... 6 00 1 00**

**SMILAX, 2 1/2 in. pots, strong..... 2 50**  
**REX BEGGONIA, 2 1/2 in. pots..... 4 00**  
**BEGONIA, LOUIS GLOSSON, 2 1/2 in. pots..... 6 00**  
**VINCA VAR., \$4.00, \$5.00, \$10.00, \$15.00 per 100**  
Write for prices on other Rooted Cuttings.  
Terms, Cash or O. O. D.

**GREENE & UNDERHILL, Watertown, N. Y.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**DOUBLE PETUNIAS.**

The Newest.  
**Over 60 Named Varieties.**  
Last season my order far exceeded my expectations that I was three or four weeks out of delivery, and in a hurry perhaps one order was sent out before being properly rooted. This year I think I am sure to do to all our orders with strong well rooted plants without delay.  
50 varieties, including Pink Beauty and Defender per doz. \$1.25. 50 new varieties, per 100, \$15.00.  
**PETUNIA GRANDIFLORA.**  
Raising this plant from seed is an unscientific method. I have been successful in raising it here. I have a fine stock of selected large flowering plants, many new ones, ever in the catalogue. White, red and variegated, separate per 100, \$15.  
**Per 100.**  
Geraniums, 24 chosen double and single varieties, \$1.00  
1st. Geraniums, 4 varieties, 1.50  
Abutilon, white, scarlet, yellow, and Rose, 2.00  
Heliotrope, a variety, 1.00  
Nivibilla, 2.00  
" " extra strong, 1.50  
Ageratum, white and blue, 1.00  
Clematis, Racemosa, 1.00  
Begonia, 4 varieties, 1.50  
Hepplein, in variety, 1.50  
New York, 1.00  
Cochin, 1st. Plant, 1.00  
Campanula, 2 in. diam. 3 inch pots, 5.00  
3 in. diam. 3 inch pots, 1.00  
" " 2 inch pots, 1.00  
**GEORGE J. HUGHES, Berlin, N. J.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# LIFE FLORISTS' EXCHANGE

We are a straight shoot and aim to grow into a vigorous plant.

A WEEKLY MEDIUM OF INTERCHANGE FOR FLORISTS, NURSERYMEN, SEEDSMEN AND THE TRADE IN GENERAL.

VOL. IX, NO. 7.

NEW YORK, FEBRUARY 13, 1897.

One Dollar Per Year.

## A PEARL of GREAT PRICE

NO! the PRICE is SMALL compared with the QUALITY.

### EXCELSIOR DWARF PEARL TUBEROSES.

"Every bulb's a pearl." Our Tuberoses bulbs are scientifically cured and cannot be surpassed in quality, while the price is no higher than charged for the ordinary strains \$7.50 per 100, for immediate or spring shipment.

**DON'T FORGET** that we carry FRESH STOCKS of all Florists' Seeds and Spring Bulbs. Quality the BEST MONEY WILL BUY and prices low.

### NEW MARGUERITE GIANT PEARL.

This new variety is superior in size and habit to any in cultivation. It is truly a giant in size, the individual flowers often measuring 3 inches and over in diameter. The snowy-white petals are arranged in two rows around a dazzling yellow center, and are of good substance. Habits of the plant is very compact, being much more symmetrical in growth than some of the older varieties now in cultivation. Ready for immediate delivery. \$2.25 per doz.; \$12.00 per 100.

.....NEW CHRYSANTHEMUM.....

## MISS LOTTIE D. BERRY.

(Certificated Under Name of Garret A. Hobart.)

This is a large pure white, incurved Japanese; very full and double, borne on a good, strong, stiff stem, well furnished with foliage up to the flower. Blooms in mid-season, and is a first-class keeper. Certificated Chrysanthemum Society of America, November 7, 1896.

Price, 50c. each; \$5.00 per doz.; \$35.00 per 100. Ready for delivery March 1st.

## PITCHER & MANDA, Short Hills, N. J.

JOHN N. MAY, Receiver.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

We Have an Exceptionally Fine Stock of

## LARGE SIZED ARECAS.

Very bushy plants, 9 in. pots, 34 ft. high above pot, \$4 each; larger plants, 9 in. pots, 4 ft. high above pot, \$5 each. These plants are in perfect shape, very bushy, and are exceptionally good value for the price.

LARGE SIZED ARECAS ARE SCARCE.

For price of smaller sized Arcas and other

## Palms and Decorative Plants

See our wholesale list, which will be mailed free on application.

## TUBEROUS BEGONIAS

VERY FINEST STRAINS OF BOTH.

Separate colors, white, pink, scarlet, and yellow.  
SINGLE, \$3 per 100; DOUBLE, \$8 per 100.

## GLOXINIAS

Finest strain, Crassifolia Erecta Hybrida Grandiflora, \$4 per 100.

Tuberose Pearl Extra quality, very fine bulbs, \$1 per 100; \$7.50 per 1000.

## F. R. PIERSON CO.,

TARRYTOWN-ON-HUDSON, NEW YORK.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## OUR PRICE LIST OF HIGH GRADE SEEDS AND BULBS

Will be found on Pages 27, 28 and 29, of the FLORISTS' EXCHANGE, January 9.

OUR Asters are grown for us by the leading European Aster seed grower, and the results obtained from our seed will prove true to variety and color.

**Simple's Superb Strain, Long Stemmed Chrysanthemum Aster,** colors white or pink. Price per packet, 25c.; per oz., \$2.00.

**Giant Comet Aster.** Price per packet, 25c.; per oz., \$2.50.  
**White Jewel or Ball Aster.** Long sought for color of this popular class. Price per packet, 35c.

**Dwarf Pearl Tuberose Bulbs,** 4 to 6 inches in cir., \$7.50 per 1000.

**Tuberous Rooted Begonias,** sound stock, 6 colors, separate, \$3.00 per 100.

**Gloxinias,** named varieties, \$5.00 per 100.

In Making Up Your Order Don't Fail to Include Some

## ALLEN'S DEFIANCE MIGNONETTE

Offered this season at \$1.00 per doz. and 35c. per packet, containing 1-8 ounce.

## F. E. McALLISTER CO. Seed and Bulb Merchants, 69 Cortlandt St. N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## Canna "YELLOW GROZY."

This valuable Novelty, proven by us for two years, is a CLEAR CANARY YELLOW; petals 1 1/2 inch wide, plant 3 feet, flower spike large, full and well rounded, often containing 20 to 25 full open perfect blooms at one time. Fine 3-inch stock March 15, at \$1.50 each. A bargain.

## Canna BURBANK.

THE AMERICAN SEEDLING, WITH GIANT ORCHID-LIKE YELLOW FLOWERS.

Splendid colored plate form, shows actual natural size. It excels all others of this new class in style and texture of its leaves.

MR. D. FERRIERE, of Needham, Mass., of the Society of American Florists' Canna Committee, who tested it with all the best now on sale, says: "Yellow Burbank is the best yellow in cultivation now, very large flowers of a handsome, bright shade of nearly pure yellow."

MR. J. T. TEMPLE, of Davenport, Ia., of this Committee, says: "I consider Burbank one of the best of this year's novelties."

MR. FRED KANTZ, head gardener of Booth Park, Chicago, and an expert judge of Canas at the World's Fair, says: "The flowers were much admired in the park this summer. The foliage is like rubber; it is always good; you can't tear it!"

PRICE, MARCH 1, EACH 75 cts.; SIX FOR \$4.00.

## CANNAS

The very best are quoted in our "Book for Florists"

Write for a copy. Ask for colored plate of BURBANK.

Second size, per 100, \$4.00 in Chicago, \$5.00.

CANNA ITALIA, doz., \$6; per 100, \$40. CANNA AUSTRIA, doz., \$4; per 100, \$25.

TUBEROSES—HALLOCK'S TRUE EXCELSIOR PEARL.

Strictly select bulbs, per 100, \$15; per 1000, \$7.00; in Chicago, \$8.00.

Second size, per 100, \$4.00 in Chicago, \$5.00.

CLADIOLUS—XXX Florist Mixture, per 100, \$2.00; per 1000, \$18.00.

FLOWER SEEDS—BEST STRAINS FOR FLORISTS.

NEW YORK—7-9 in. per 100, \$5.00.

CALADIUM ESCULENTUM.

ROSE—SOUV. PRES. CARNOT, March 1st, 2 1/2 in. per 100, \$18.00; 1000 for \$12.00.

CARNATIONS—MAYOR PINGREE, yellow, per doz., \$1.50; per 100, \$16.00.

CARNATIONS—LILY DEAN, very large, white, with fine pink lines, per doz., \$2.00; per 100, \$20.00.

SHEEP MANURE—Per 100 lbs., \$2.25; per 500 lbs., \$10.00.

## VAUGHAN'S SEED STORE,

NEW YORK, 14 Barclay St.

P. O. Box 688, CHICAGO.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**A FEBRUARY TRADITION**

Says the ground hoe comes out to see his shadow and then if the sun shines he gets frightened at his form and crawls back for six weeks. Now do not wait till the length of time but order at once the following:

Trade Pat. Oz.	
<b>ASTER, Queen of the Market, White</b> .....	\$0 15 \$0 65
<b>Victoria, separate colors</b> .....	3 00 3 00
<b>TRIFOLIUM, separate color colors</b> .....	25 30 20
<b>CARNATION Marquerite, Mixed</b> .....	25 15 20
<b>DRACENA Indivia</b> .....	15 30 15
<b>FEUTONIA, choice Blotched and Striped</b> .....	25 10 20
<b>SALVIA splendens</b> .....	25 10 20
<b>PHLOX Nana Compacta, Mixed</b> .....	25 15 20
<b>VERBENA, extra choice Mixed</b> .....	25 1 25

WM. ELLIOTT & SONS, NEW YORK.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**WE ARE HEADQUARTERS ON**  
**BULBS FOR FORCING,**  
**FLOWER SEEDS FOR FLORISTS,**  
**ENGLISH MUSHROOM SPAWN.**  
SPECIAL PRICES ON APPLICATION.  
**JOHN GARDINER & CO., Seedsmen,**  
Box 1306, Philadelphia, Pa.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**BULBS! BULBS!! TUBEROSES.**  
200,000 Dwarf Pearl, ..... 3 to 4 in.  
75,000 extra dwarf Pearl, 3 to 4 in.  
10,000 Orange, or single flower, 3 to 4 in.  
5,000 Virginia King of Hearts, 3 to 4 in.  
3,000 "Albino"..... 3 to 4 in.  
30,000 CALADIUM ESCO., 3 to 4 in.  
Now ready, in stock, first come, first served, until gone. Write  
**JNO. F. CROOK & BRO.,** Tuberoses and Gardeners, MAGNOLIA, N. C.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Gladiolus Shakespeare**  
For Forcing. \$5.00 per 100; \$40.00 per 1000.

CHAS. H. ALLEN, Floral Park, N. Y.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**SPECIAL LOW PRICES ON ALL... Spring Bulbs...PLANTS**  
**F. W. O. SCHMITZ, ETC., ETC. JERSEY CITY, N. J.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**GET THE BEST ASTER SEED**

of the celebrated **Simple Aster**, separate colors, pink and white, also mixed. Seed well cleaned, plump and good. Crop of 1896. For sale in any desired quantity.

**JAMES SEMPLE, Box 2, BELLEVUE, PA.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**ORDER YOUR GOODS FOR SUMMER DELIVERY IN TIME**  
**Early Orders are the BEST, get the BEST STOCK, get the BEST PRICES**  
Delivery from MARCH to JUNE.

**Iris Kæmpferi, Japan Maples, Lygodium Japonicum, Aspidistra lurida clumps Physalis Franchetti, Japan Bulbs.**

**We quote you now for delivery in JULY to SEPTEMBER.**  
**Freesia refracta alba, Tree Fern Stems, Calla Ethiopica, Palm Seeds, Li. Longiflorum, California Forcing Chinese Narcissus," Bulbs.**

**ROOTED CUTTINGS OF ALL THE CHOICEST AND RAREST !!! CHRYSANTHEMUMS, PRIZE WINNERS IN JAPAN.**  
Write for prices and information. "Address all communications to  
**H. H. BERGER & CO., (Established) San Francisco, Cal.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**BURPÉE'S FARM ANNUAL FOR 1897**  
-Tells the plain truth about-  
**THE BEST SEEDS THAT GROW!**  
Hundreds of illustrations; remarkable  
"The Leading American Seed Catalogue." 52 PAGES FREE to all.  
**W. ATLEE BURPÉE & CO., PHILADELPHIA, PA.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**ASTER,** Queen of market, mixed, per oz. To 3 separate colors, white, blue, pink, per oz. 8c. Giant Comet, pure white, per oz. 4c and all leading brands at lowest price. Write for SAMPLE. H. SEARILEY, Woodhaven, L. I.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE  
**Gladioli . . . THE BEST IN AMERICA.**  
Geraniums, Mums, Carnations, etc. Write for prices.  
**BETSCHER BROS., Canal Dover, O.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**FROSTED PEACH SEED.**  
I am prepared to supply No. 1 Natural Soft Seed, for Frosting, \$100,000, for 1000 bushels; one barrel of 3 bushels at \$40.00. Subst. by mail to those who want to purchase. Also ready for Frosting. Peaches to be sown in their season, at \$3.00 per barrel of fall 3 bushels. Packed to carry safely. All in first-class condition. Address  
**CHARLES BLACK, Hightstown, N. J.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CHOICE CELERY SEED.**  
Having a surplus of White Plume, Golden Self Branching, New Giant, French, and Dwarf Golden Heart, I will mail to \$1.00 per lb. or orders in lots of 5 lbs. and up. These are strictly first-class, 1893 crop and tested for purity. One use some other seeds in exchange.  
**ISAAC F. TILLINGHAST, Ag't, La Plume, Pa.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**EASTER COMES.**

LATE THIS YEAR...WHY NOT? BUY BULBS? BULBS IN FINE CONDITION!  
**Chinese Sacred Lotus,** 50 per 100  
Baskets of 20 Bulbs, 25 per 100  
Narcissus, Paper White, 40  
Lily Valley, Extra Fine, 40  
Magenta, White Trump, 25  
Hyacinths, White Bell, 25  
Dwarf Goldbells, 40  
Tulips, Double White, 40  
Dwarf Daisies, 40  
Callias, Extra Large, 5.00  
Hammonds, 7.50  
The ASTER, Simple pink, white or mixed, per trade packet, \$5.00 per 1000.  
**H. G. FAUST & CO., 64 & 66 N. Front St., Philadelphia, Pa.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**GLADIOLUS BULBS.**  
Extra White and Light, for forcing, \$1.00 per 100. White and Light \$1.00 per 100. \$4.00 per 1000. \$2.00 per 100. Extra White and Light \$1.00 per 100. \$4.00 per 1000. \$2.00 per 100. Extra White and Light \$1.00 per 100. \$4.00 per 1000. \$2.00 per 100. Extra White and Light \$1.00 per 100. \$4.00 per 1000. \$2.00 per 100. Extra White and Light \$1.00 per 100. \$4.00 per 1000. \$2.00 per 100. Extra White and Light \$1.00 per 100. \$4.00 per 1000. \$2.00 per 100.  
**JOHN FAY KENNEL, Crower, Box 405, Rochester, N. Y.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Single Begonia Bulbs**

in separate colors. Per 100, \$2.50; per 1000, \$20.00.  
**Tuberoses** - the Pearl, A. Per 100, \$2.00; per 1000, \$20.00. All other seasonable bulbs on hand.  
**MUSEBOSCH BROS., Englewood, N. J.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CHEAP FOR CASH WITH ORDER.**

**1500 DWARF PEARL TUBEROSSES, 3-4 INCHES, \$5.00.**  
**150 CHINESE NARCISSUS, \$1.50.**  
For Spring delivery. H. F. Dwarf and Standard sizes. Send an estimate of your wants.  
**C. H. JOHNSON, Importer, 169 Greenwich St., N. Y.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**TOBACCO STEMS**  
Large Bales (100 lbs.), \$1.50... **STRONG AND FRESH**  
Tobacco Dust, 50c. per lb.  
Raffin, the best material for tying, does not injure the plants and is free from tar and is cheap; 1st quality long bales at 10c. a lb.; 2nd with 7 or 8 orders. Reference if required.  
**H. G. FAUST & CO., 64 & 66 N. Front St., Philadelphia, Pa.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Prize-Winning DAHLIAS**  
AN UNPRECEDENTED RECORD.

23 First Prizes, Certificate of Merit, 2 Diplomas, and highest mention everywhere. Our 1897 Descriptive Trade List will be ready about February 1st, and will be mailed to all who request one; our year's list will be applied to. Do you want the very best Dahlias that bloom, address  
**W. P. PEACOCK,**  
Dahlia Specialist, ATCO, N. J.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**ASTER SEED**

**Victa's Branching White and Semple's White Pure Snowball,** \$1.00 per oz. Seed well cleaned. Crop of 1896. Pound rates on application.  
**J. G. WEBER, 527 Monroe Ave., Rochester, N. Y.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**SEEDS FOR Profit Sweet Peas**

Wholesale Catalogue on application.  
**WEEBER & DON, Seedsmen, Growers, 114 Chambers St., New York City, N. Y.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CANNAS AND DAHLIAS.**

**DORMANT CANNAS,** divided, 3 and 4. Good strong eyes.  
**Queen Charlottes,** \$4.50 per 100; **Mme. Crozy,** **Alphonse Bouyer,** \$4.00 per 100; **Emilie Leclere,** Grand Bouyer, Roubaix, \$2.00 per 100. Ask for prices in large quantities.  
**DAHLIAS,** in seed, large, field-grown, divided, cut, single, flange, good long stemmed flowering varieties; good for cut flowers. Our selection, \$4.00 per 100; less than 50 or 100, \$4.00 per 100. Special prices on large quantities.  
**CASH WITH ORDER.** Please address all orders to  
**ROWEN & GRANZ, Hicksville, L. I., N. Y.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**AM & Co. Seed FRESH ON HAND**  
Ceres W. Galathea, ..... per 100 1000 3000  
Freesia refracta alba, ..... \$1.50 \$15.00 \$45.00  
Freesia refracta, ..... 1.00 10.00 30.00  
Mussaenda, ..... 1.50 15.00 45.00  
Sour Sweet Peas, ..... 1.00 10.00 30.00  
Aperogon plumosus superba (Imp.), ..... 10.00 100.00 300.00  
Dracopis Indica, ..... 25.00 250.00 750.00  
Veronica virginica, ..... 2.50 25.00 75.00  
Inchalis superba, ..... 2.00 20.00 60.00  
Freesia refracta, ..... 1.50 15.00 45.00  
Sour Sweet Peas, ..... 1.00 10.00 30.00  
Aperogon plumosus superba, ..... 10.00 100.00 300.00  
Aperogon plumosus superba, ..... 10.00 100.00 300.00  
Aperogon plumosus superba, ..... 10.00 100.00 300.00  
**J. W. SCHILLER, Rutherford, N. J.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

4 to 6 inches circumference, choice and perfect BULBS,

AT \$5.50 PER 1000

Lots of 5000 and over, at \$5.00 per 1000.

ROBERT BUIST CO., Seed Grower, - PHILADELPHIA, PA.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

SEEK TRADE REPORT.

Points and information from seedmen, and all interested in this column, solicited. Address Editor Seed Trade, care of Florists' Exchange, P. O. Box 1695, New York.

European Notes.

The cold spell continues to affect the whole of western Europe, and sharp frosts, combined with heavy snow, have been sent from Madrid to the Highlands of Scotland, with about equal severity in each place. In Germany, also, especially in the eastern, a cold, wintry weather prevails. While the readings of the thermometer are not very low, the condition of the land. It is hardly likely that our plants are now being injured to any great extent, as they are well protected by the snow.

All outdoor work is at a standstill and trade, consequently, very slow. Europe is now so thoroughly provided with means of rapid transit that the old style of ordering, which was put forward for the season in one lump has given place to a "hand-to-hand" system of buying, which imports the goods in small lots and immensely increases the responsibilities and expenses of the wholesale dealers.

The horticultural congress for January 30 contains some fairly good illustrations of the new fringed and crested forms of cyclamen, the cold referred to in these notes two weeks ago.

In this connection it is interesting to note the use of the modern methods of florists in their methods of cultivation over those employed during the eighteenth century. In the "Gleaner," Director, published in 1759, the advice is given "to sow the seeds of the Persian Cyclamen as early as possible, and in six or eight years after their sowing their roots will show all their beauties in blossom, observation that every two years into fresh mold."

The French Society of Psychologists assert that a fatal infection is exercised by tulips on those who tend them. It is said that in Holland gardeners who cultivate tulips invariably die in a violent manner or are overtaken by disaster. More than twenty instances were put forward to corroborate this strange statement. This seems rather rough on Myhrer Due Van Turen.

New York. A Geffeler has succeeded to the seed business of G. Herrmann, at No. 413 East Thirty-fourth street.

Dahlin Tubers.—Before the United States Customs at New York, Dec. 22, 1896. In the matter of the protest of W. W. Barnard & Co., against the decision of the Customs at Chicago, Ill. The following opinion was given by Hunt, general appraiser:

The merchandise consists of the tubers of dahlias, imported into the port of Chicago, Dec. 22, 1896, by W. W. Barnard & Co., and upon which an assessment of 10 per cent. ad valorem under paragraph 2345 of the tariff act of Aug. 28, 1894. The merchandise is claimed to be cut flowers or decorative purposes. That the tubers in question are not glass as plants, but tubers of roots not edible. The protest is sustained."

The Free Seed Distribution.—We are in receipt of a pamphlet, from the Department of Agriculture, "Report of the Special Agent on Seed Distribution for 1896," being a reprint from the report of the Special Agent on Seed for the same year. The pamphlet gives a full account of the history of seed distribution to the public, and other things, including by whose order the seeds were mailed and to whom sent. It is interesting to note the methods of distribution elected

that the latter may not be reduced to the wretched level of the farmer? Why, then, should that vast assortment of new makers, the simulate Moses, Solomon and Lycurgus, now looking for legislation to enable them to distribute, as public aims among their fellow-citizens, the seeds of the pauper seeds developed by Congressional appropriation, to the detriment, injury and demoralization of the people, by shutting out pauper competitors—by excluding labor, which they declare is almost given away in Europe, from competing with high priced labor, the only thing that has any effort to crush out the seed business, by compelling it to come within Congressional charity, that will give away? What injury do seedmen do that your infant industry should be thus stopped out as the sole competitor to race with governmental gifts? (Signed.) J. STERLING MORTON, Secretary.

Feb. 3, 1897. Hon. J. Sterling Morton, Secretary of Agriculture, Washington, D. C. Dear Sir: I acknowledge, with thanks, receipt to-day of both your letters of yesterday. I have read them with interest, and with the conclusion that "the attention of the party coming into power should be called to the fact that the free and promiscuous distribution of seed antagonizes the principle of protection." Protection to the seed growing industry of America is in no sense offensive as being in the interests merely of a particular class of wealthy merchants or manufacturers—as the seeds are produced by small farmers throughout the country, and by the very fact that they are produced at home insure a much higher grade is quality than when grown in Europe, where the crops cannot be subject to the constant inspection of American eyes. (Signed.) W. ATTLEE BURPEE, Secretary.

TUFF STUFF ON GREENFLY IS TOBAC-OIL.

RELIABLE HOLLAND CABBAGE AND OTHER VEGETABLE SEEDS. Grown by VAN NAMEN BROS., HOLLAND. CONTRACT for future delivery booked.

C. H. JOOSTEN, Sole Agent, 193 Greenwich St., New York. WHEN WRITING MENTION THE FLORIST'S EXCHANGE

HARDY CUT FERNS. First Quality. FANCY. RAGDOR. \$1.00 PER 1000. Discount on large orders. L. B. BRIDGMAN, Hinsdale, Mass. WHEN WRITING MENTION THE FLORIST'S EXCHANGE

TUBES FOR MAILING PLANTS.

The Mailing Tube does away with all outside wrapping, saves much time, and makes a secure package which cannot be smashed in the mails. It is made of stiff pasteboard, is light, economical and the best device that can be secured by the florist for mail purposes. The above cut shows tube closed at one end by cap, which is firmly attached and perforated to allow ventilation; the open end is generally stopped up with paper but extra cap can be furnished.

Price List. Length, Diameter 100 210 300 400 500 600 750 900 1000 1250 1500 1750 2000 2250 2500 2750 3000 3250 3500 3750 4000 4250 4500 4750 5000 5250 5500 5750 6000 6250 6500 6750 7000 7250 7500 7750 8000 8250 8500 8750 9000 9250 9500 9750 10000

We will furnish you with labels, to be pasted on these tubes, giving your name, business address etc., at the following rates: 100 labels, 50 cents; 250 labels, 75 cents; 500 labels, \$1.00; 1000 labels, \$1.50.

A. J. De La Mare Ptg. and Pub. Co., Ltd., P. O. Box New York. RHINELAND BUILDING, ROSE AND DUANE STREETS.

FLORISTS' Attention.

CINNAMON VINE ROOTS For Potting, Etc. BEAUTIFUL AND LIFE COLORED PLANTS FREE WITH EVERY ORDER.

I have a good supply of strong roots of this popular vine, especially suited to Florists use. This beautiful fragrant climber finds a ready sale everywhere. Three or three roots planted in a pot will make a dense mass of bright vines, completely surrounding a window, etc., making it a perfect bower of beauty.

Now is the time to lay in your roots. I supply many of the largest Florists in the United States and Canada. Try a thousand or so. The colored plates save time and talking and make them go off "like hot cakes."

A FEW TESTIMONIALS: From Deane L. Putnam in Epworth, The Cinnamon Vine used to grow in the garden, and when in bloom, it was very beautiful, and when in fruit it was very beautiful. It was sent me by Philadelphia had been transported with it, as ornamental in the house.

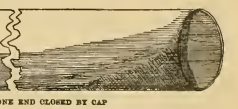
L. M. J. Clarkson, Author of "Art Studies," writes: "I have a very fine specimen of the Cinnamon Vine in my garden. It is a beautiful plant, and if it were more widely known you would be overwhelmed with orders."

B. Wilson, Mechanician, Pa., writes: "It blooms as early in the house as our Cinnamon Vine, and over and round a window, and will fill a room with a beautiful fragrance, and a beautiful watermelon."

PRICE OF CINNAMON VINE ROOTS: THESE ARE 100 for \$8.50 ONLY HALF 500 for 4.50 USUAL PRICES 250 for 2.50

EXTRA LARGE TWO YEAR ROOTS. For Counter sale, double the above rates. Terms cash, to accompany all orders, or will send C. O. D. on receipt of 10 per cent. References, Copartners, Green and Low, New York, N. Y., N. B. Bank, send your orders at once, as I have no stock on hand.

A. T. COOK, Hyde Park, N. Y. WHEN WRITING MENTION THE FLORIST'S EXCHANGE



PRICE LIST. Length, Diameter 100 210 300 400 500 600 750 900 1000 1250 1500 1750 2000 2250 2500 2750 3000 3250 3500 3750 4000 4250 4500 4750 5000 5250 5500 5750 6000 6250 6500 6750 7000 7250 7500 7750 8000 8250 8500 8750 9000 9250 9500 9750 10000

Above prices are F.O.B. New York, other sizes on application. Extra caps for closing open end, 2 in. diameter or less, \$1.25 per 1000; over 2 in. diameter, \$1.75 per 1000.

We will furnish you with labels, to be pasted on these tubes, giving your name, business address etc., at the following rates: 100 labels, 50 cents; 250 labels, 75 cents; 500 labels, \$1.00; 1000 labels, \$1.50.

# ANNOUNCEMENT

## Stock in Perfect Condition.

### ...Send Your Orders In...

#### SEE OUR ADVERTISEMENT

#### IN LAST ISSUE

### ROSE NOTES.

What a delightful change in the weather we rose growers have had since my last notice—no more the temperature rising above freezing point in mid-May, but fine, successive, bright, sunny days with it. I have been busy with the hose, also my standby investigator, pure air, and, I may say, cutting fine blooms that I did not try to burst open in the past.

There is no question in my mind but that it is very unwise to try and get a scant supply of inferior flowers; while, on the other hand, if you refrain from cutting you will be able to supply your customers with a fine quality, and likewise have the quantity at your disposal.

The theory of not cutting so many blooms I cannot remember to read in any issue of this season the same as a tulip. I could not the most flowers and best returns are got from plants that are kept in a healthy and vigorous condition; whereas if forcing (which is not growing) is resorted to health and vigor are very seriously impaired.

In other words, the future is what we should always strive to look to. "Most probably your plants are dropped in to have a little chat about roses, and as he questions were pertinent they may be of some value to readers of this journal. "What are you doing with that four or five inches of air on?" he inquired. "I went to do that I'd get such a dose of mildew that it would ruin my plants; yet it don't seem to bother you. Last fall when I was here you had your ventilators way up and the air was waving the bushes to and fro. How is it?"

"Most probably your plants are much softer than mine, and if so it will be quite a while before they could stand so much. I don't want you to get the idea that air is the cause of mildew; on the contrary, when properly applied it's the best preservative of mildew I know of. Likewise, the best fertilizer, I am very careful in putting it on and reducing it. As soon as the sun warms the house up in the morning to 60 degrees I start with a crack, and by noon have as much on as will let the thermometer show you to be shielded, stand in the seventies. Where I have ventilators on both sides of the ridge, if I don't close up on the ventilators, you see, that allows air to blow over instead of directly in; again, in the afternoon, when inside temperature begins to drop, I start reducing until the temperature drops to 65 degrees with a crack on, then I close up. I always bear in mind it is very important in growing plants that a circulation of air be maintained all the time. As soon as the sun warms up, you don't keep your doors open to cause draft. If your plants are so soft as you say, I would advise you, as every opportunity, to carefully look after them during growing. You ought not to be troubled with mildew anyway, this time of the year, as so much more air has had to be used. However, if it does put in an appearance, I would advise you to sulphur and paint on both sides of the ridge, or to paint a strip of paper three feet long every ten or twelve feet will be sufficient to keep mildew out. Some use oil and sulphur, but I prefer the first mentioned, as oil

causes too much of a lasting, disagreeable odor."

"What temperature do you keep nights?" "That is according to outside conditions. If the outside reads in the thirties I run 55 degrees; in the twenties, 55 degrees; tens, 54 degree; zero and below, 52 to 50 degrees; never lower than 50 degrees, or there is danger of the plants losing too much of their foliage, which will give them a decided autumnal appearance. I will advise you to tie the thermometer prescribing a fixed night temperature. While I have an intellectual night fireman, I don't need that."

"How do you get the fireman to understand this thoroughly?" "Well, if you don't get the right kind of a man it is easily drilled into him; he will soon take an interest in his work and pride himself when you come around any time during the night that the houses are feeling good. Sometimes he will say a certain range was a little high, or was satisfied everything was rather wet, and I thought it best to let it go to about 12 degrees, which will begin to dry off. Then I slacken up; or, if they're a little down, I thought it best not to push them for all that."

"Do you come around here nights?" "Yes, I invariably miss one night. Sometimes I come in early in the morning, though. My day's work is done when I say good-night to my plants."

"What is the deal that you have a fine lot of young stock. I think this is where one of your secrets comes in. How do you manage it?"

"I have no secrets. Whatever success I may have achieved I attribute to attention to the minutest details, work, and being up to date by reading and studying all gardening literature, selecting from what I read all that I believe will be of value to me, and putting it into operation. To go back to your question about young plants, I will say I don't know of any other plant that gives me more pleasure to grow than young roses. As long as one starts right, selecting the proper wood, and is successful in rooting, it is by no means a difficult matter to produce good plants. The great aim is to bring them to maturity early and keep them in that condition all the time. From now right along is the time to look forward to next winter. Don't try to get a large plant in a hurry; constitution is what is most needed. A stout thickset plant, with a large, firm, fleshy foot, with eyes and spines the color of blood, when potted into a 3 or 3 1/2 inch pot will make the ideal plant of the future; while one that is lanky, soft, and as green as a leaf will soon drop out of the race. They should have an abundance of light, air and nourishment, and watering at the root must be attended to properly. Sometimes those in the center of the benches become rather wet, while those on the outside rows get dry. Mine are always gone before they spring with a small spray on the base, and those that are found to be on the dry side watered. It is a very easy matter, through the carelessness of an employe, to virtually ruin a batch of young stock by syringing such varieties as are susceptible to black rot, or by watering or by going over with the hose the whole lot and soaking them indiscriminately. I can give you an interesting receipt, and say the right kind of men are not to be had every day to perform this important work. They should be advised to get you to get one that takes an active interest in his work, treat him right and keep him. I consider one important point is that while they

are growing go over them as often as time can be found and reset, at the same time, selecting them into sizes, putting the tallest at the back, coming down with the smallest in front. It not only gives the smaller ones a better show, but resulting and turning them about does them so much good that I fail to find words to express my experience."

"Have you got all your cuttings in yet?" "No; such varieties as Hoste, Perle, Purple and Gator, which I don't plant before July, I find the first week in March is plenty early enough. These varieties are very fast and easy growers, and a young growing plant is much more preferable when planting time comes than one that is stunted and potbound."

"Do you grow more young stock than you do for your own use?" "I most generally have some over, and invariably get sold out. As for making a business out of that part, I don't think I could make my bread and butter at the ridiculously low prices at which they are now offered. While they sell for the present price I am very willing to let others cut their plants up and spoil them for nothing. It may pay some to do it who don't grow, and then they will get rich out of it anyway."

"What is your experience with the new wood?" "To be candid, I must confess I am rather ignorant about it, at the present at least, and therefore I wish to commit myself to Central New York. H. H."

### 25,000 GERANIUMS 25,000

**NOW READY.** Strong plants, 2 1/2 inch pots, \$1.50 per 100; \$3.00 per doz. Also bedding and basket plants later.

**Colicus Rooted Cuttings,** 75c. per 100; \$5.00 per 1000. Cash with order.

**GEO. W. GASKILL, WARREN, OHIO.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

**CLEMATIS**—Both dormant and in pots; good plants, \$2.50 per doz.; \$20 per 100. Special offer to Florists—Twelve leading kinds, one each; several new ones, \$2 per doz.

**SMILAX**—Strong plants from last year, 2 1/2 in. pots, \$1.00 per 100; \$7.50 per 1000.

**HERABEODUS PEONY**—Ten named kinds, white, \$100 per 100; \$3.00 per 1000.

**F. A. BALLER, Bloomington, Ill.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

### VERBENA KING

**500,000 Rooted Verbena Cuttings,** the finest varieties, true cultivation, true to name, 60 cts. per 100; \$5.50 per 1000; 5000 for \$25.00; 10,000 for \$45.00, express prepaid.

No Rest or other satisfaction guaranteed to be enjoyed in any way. We are the **LARGEST VERBENA GROWERS IN THE WORLD.**

**C. HUMFELD, Clay Center, Kansas.**

SEND FOR LIST.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

### LARGEST and FINEST FLOWERS

### HEALTHY VIGOROUS STOCK

**BEST MAMMOTH, rooted cuttings.....** per 100, \$1.25 per 1000, \$10.00  
**OLDER MAMMOTH, rooted cuttings.....** " 100 " " 8.00  
**BEST MAMMOTH, strong pot plants.....** " 20 " " 25.00  
**OLDER MAMMOTH, strong pot plants.....** " 3.00 " " 20.00

### STRONG CANNATIONS ROOTED HEALTHY CUTTINGS

Per 100.	1000.	Per 100.	1000.
Juliance.....	\$3.00 \$30.00		
Armaiday, Ivory, Della Fox, Triumph.....	5.00 40.00		
Buttercup, M. H. Stanley.....	2.50 30.00		
Bridgwood, Meteor, Storm King, Eldorado, Albertini, Alaska, Day-Break, Libertan.....	2.00 15.00		
Dean Hole, Bouteon O'R.....	2.50		
Thos. Cartledge, E. A. Wood.....	2.00		
Lizzie McGowan, Portia, Wm. Scott, L.....	1.50 12.50		

### STRONG ROOTED CUTTINGS.

Per 100.	1000.	Per 100.	1000.
Ageratum, blue and white.....	\$1.25 \$10.00		
Calceolae, all leading sorts.....	1.00 8.00		
Fuchsia, double and single.....	2.00 15.00		
Feverfew, Dwarf Gem.....	2.00 15.00		
Geraniums, double and single.....	2.00 15.00		
Heliotrop, light and dark.....	1.25 10.00		
Moon Flower, true.....	2.00 15.00		
Salvia, Splendens and Wm. Bedman.....	2.00 15.00		

### FIELD GROWN ROSES DORMANT PLANTS.

**Polyantha, strong plants, 1 varieties.....** Per 100 \$1.00  
**Hybrid Perpetual, strong plants, 50 vars.....** 6.00  
**Hardy Climbers, strong plants, 6 vars.....** 6.00  
**Free or Old-fashioned, strong plants, 100 vars.....** 10.00  
**H. P. Magna Charta, Paul Neyron.....** 10.00  
 (strong plants).....

### CHRYSANTHEMUMS

**ROOTED CUTTINGS. POTTED PLANTS.**  
 Ada Spaulding, Munc. Fred. Bergmann, Helene Bloodgood, Edith Smith, Harry Man, Oakland, Olympia, M. M. Johnson, Jennie Falkner, Mr. Richard Dean, Gladys Spaulding, Mrs. Henry Robison, Nessene, Pink Ivory, Mrs. K. C. Trounby, Ninesse, Pinesse, Mrs. S. Humphreys, J. E. Lager, J. H. Troy, Harry May, Mrs. J. H. Crane, Frank Thompson, Dorothy Cole, J. H. Starin, Fitcher & Maudie, Vivian Mors, Marg, Graham.  
**Rooted Cuttings, \$2.00 per 100; \$17.50 per 1000.**  
**From 20¢ in. pots, 4.00.**  
**From 2 1/2 in. pots, \$10.00.**  
**From 3 in. pots, \$15.00.**  
**From 3 1/2 in. pots, \$20.00.**  
**From 3 3/4 in. pots, \$30.00.**  
**From 4 in. pots, \$40.00.**

### WOOD BROS., Fishkill, N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

Greenhouse Heating by Hot Water.

Greenhouse heating by hot water is an experiment (not mere theory) that is fair, and rather expensive, whereas it should be the reverse, as it is undoubtedly the cheapest and most reliable for other plants or persons; but that it is not up to a very high standard of perfection, except in some particular cases, in the "Florists' Exchange," as well as in other papers.

To show to these questions often there is a mere "theory" instead of actual experience. The great trouble is that in the very little treatment given to planning a greenhouse completely and according to mechanical laws, instead of "a one-plane style" exists.

There is a mechanical law that requires study and experiment (not mere theory) that is a greenhouse building and heating, especially heating by hot water, in order to keep expense as close as possible, both first cost of the plant and afterward in running it.

To heating with hot water the first step is almost always a mistake; if not fatal, it is costly afterward in expense. In planning a greenhouse, the first and greatest attention is paid to a fundamental law of mechanics, that "something cannot be gained from nothing," instead of laws, "What is gained in time is lost in power," and "What is gained in power is lost in time."

A four-inch pipe, as a heating pipe, will hold heat longer than a one-inch pipe, and will require more "time" to heat it and get that power. And does it pay to use a pipe longer than the one-inch heat-pipe? The "theory" of hot water heating is a mistake, and it is the basis of ten out of ten trouble florists' have with this system.

Specific gravity is generally held as the law of the next order of mechanics, and not only this, but this is a grand mistake, and a very economical plan can ever be put up with it. One of the chief mistakes is to put a feature in hot water heating, but it is not the main factor, or the force or cause of the steam circulating through long lines of pipe.

In planning a hot water plant it seems to be the next order of mechanics laws, but a better result would be obtained, as water circulation is effected by purely mechanical laws, instead of specific gravity, which will not, never does, nor can it, be taken into account in a pipe, much less downhill.

The first intelligent action in heating a greenhouse, in planning the same would be to consider the length of the house, or houses; second, its height, width, and the amount of exposure and temperature to be secured in a particular house, or in each house. The first item, would give the size of pipe to use for radiators; the second and third items the number of lines, or the graduating.

The next step—the number of houses—would give the size of main flow to reach them. The second item, would be the situation of the heater, or boilers.

Given a house of any size, but say 100x300 feet, with a roof five feet over the roof (glass), and ordinarily built.

This gives about 2,400 feet of glass; and the next order of mechanics law, to three square feet of glass, for highest temperature, is the rule, about 800 feet of radiators, or rather more, if the heater is about 1,000 square feet to do the work. Here is a more exact calculation would come to be the next order of mechanics law, instead of specific gravity. In this house 800 square feet of pipe radiation is expected to be heated, or heated by hot water (without forcing) will do it. The size of the pipe will make some difference whether it is four-inch pipe, or one-inch pipe, and here is where a knowledge of "mechanical laws" is a benefit. "What is gained in time is lost in power."

The difference between using a 1-inch pipe, a 1 1/2-inch pipe, a 2-inch pipe, a 2 1/2-inch pipe, up to a 4-inch pipe will manifest itself, although only the amount of radiation (800 feet) is carried. The radiator will heat, and it will heat constantly, night and day, the larger pipes, once heated, might possibly be more economical, but there is a danger in a fluctuation. But where the heating is so varied as in daytime greenhouse heating, a pipe of one inch about 800 feet will give an increased expense in pipe, fittings, labor, and in fuel ever afterwards.

Where a force will carry 800 feet in one-inch pipe would not carry that much in four-inch pipe, and that force would be the "mechanical laws," and that increase would be in fuel and attention. Cannot be obtained from "Something" cannot be obtained from

"nothing," especially in water heating, and if a result is obtained, a sufficient force is required. The transverse area of one-inch of five lines each, of the house, if the valves were opened at the same time, could be heated in twenty minutes, or, in other words, the 100 square feet of water in the extra in the 1 1/2-inch pipe, could be passed through in twenty minutes; and at the same time, the 200 square feet of water in the 2-inch pipe would be passed in twenty minutes required, if the 2-inch pipe were used, and to get the same amount of heat, the 2-inch pipe would be required. The "law of compensation" applies here, for the same heater, on same given pipe, will be the same for the 1 1/2-inch pipe, the diameter in the house and on 2 1/2 times the amount of fuel; and if you were to crowd the amount of fuel in twenty minutes provided the "mechanical laws" were observed, the amount of fuel will be required over and smaller pipe, as the heater then would have to more than double its velocity; and as speed is generally augmented by an increase of power in and with water as the square of the velocity, the advantage of pipe just the right size is apparent.

The heating can be from an extended main, or a small number of houses, or in a plant, or the heating may be direct, to and from the heater, if a single house; or these can be done, and the heating may be of any length of house or any width, as the principle and amount of heating may be applied to any length of house, or any width of house, house out of the ordinary build.

The position of the piping has much to do with the circulating power, and the "law of compensation" and "specific gravity" will assist in determining its best position.

Specific gravity cuts quite a figure in water heating, as will be shown later on, but it is not the circulating power, as most generally conceived, and right here is where the trouble lies in water heating. "Mechanical laws" are aside from the way for a whim or notion, and the florist has to take the bill. A. J. HOYT, Ohio.

or valve is opened in a certain limit of time, say twenty minutes, then, if the heater were good, all the lines or circuits of five lines each of the house, if the valves were opened at the same time, could be heated in twenty minutes, or, in other words, the 100 square feet of water in the extra in the 1 1/2-inch pipe, could be passed through in twenty minutes; and at the same time, the 200 square feet of water in the 2-inch pipe would be passed in twenty minutes required, if the 2-inch pipe were used, and to get the same amount of heat, the 2-inch pipe would be required. The "law of compensation" applies here, for the same heater, on same given pipe, will be the same for the 1 1/2-inch pipe, the diameter in the house and on 2 1/2 times the amount of fuel; and if you were to crowd the amount of fuel in twenty minutes provided the "mechanical laws" were observed, the amount of fuel will be required over and smaller pipe, as the heater then would have to more than double its velocity; and as speed is generally augmented by an increase of power in and with water as the square of the velocity, the advantage of pipe just the right size is apparent.



The heating can be from an extended main, or a small number of houses, or in a plant, or the heating may be direct, to and from the heater, if a single house; or these can be done, and the heating may be of any length of house or any width, as the principle and amount of heating may be applied to any length of house, or any width of house, house out of the ordinary build. The position of the piping has much to do with the circulating power, and the "law of compensation" and "specific gravity" will assist in determining its best position. Specific gravity cuts quite a figure in water heating, as will be shown later on, but it is not the circulating power, as most generally conceived, and right here is where the trouble lies in water heating. "Mechanical laws" are aside from the way for a whim or notion, and the florist has to take the bill. A. J. HOYT, Ohio.

Chicago.

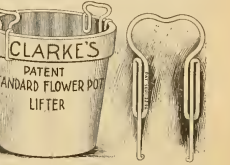
There has not been much change either in the price of stock or in the demand. If anything, the tendency of prices has been downward; \$7 is the very high price for any kind of stock, and from that down. Home trade is not what it should be by any means; shipping is slow, and, as a result, the best goods are wanted. American Beauty is coming in better, and the "Globe" and "Globe" are the best obtained for the very best. Harris is still the highest figure for prime being \$12 per bushel, your stock is \$14 at your own price, even as low as 25c. to 50c. per dozen. Callas are more plentiful, but, naturally, do not sell so well. The price of the ruling pipe, Valley, the very best, and they are fine, are down to \$3; from \$1.50 to \$2.00, and for the best, \$4 to \$6. Carnations are low; very few sell for over \$1.50 per 100.

There is one satisfaction as a rule most of the stock, save at times at some price, but many a grower finds the general average too low to be comfortable. The "Globe" and "Globe" are seen some of the finest freemans that have been coming into the market. Walter H. Brown gave me the "Globe" history of the growth: These same freemans are of the stock obtained eight or ten years ago, when the first bulb was sent to the market, and the bulbs continued as good or better than first obtained. The way they are grown, put in the soil in ten days before the bulb put, after the flowering period is over, care is taken to allow the foliage to die off naturally, the bulbs are then put in for the next year. When they are grown on this call, the bulbs being allowed to die down each year. When there is no longer any foliage on the bulbs, the under the greenhouse stages and kept perfectly dry. About the first of August, by means of a small hand trowel, down to the earth, selected into sizes, care being taken that those of a size only are placed together in the same pot. The bulbs are then put in flower along about Christmas or New Year's, and being placed in the same pot, and gradually out of the pot in February, or middle of March. Such flowers as these have been seen, long, stiff stems, of 18 to 24 inches high. Even now they sell at \$3, while the common run of flowers in the market are sold at \$1.50 at \$2. Surety says this care is well repaid, and cheap as frezias bulbs are, the price is very low for the care it takes always on for early planting, which, after all, appears to be important for their success in getting through for Spring business. B. D. SANDERS.

NEW INVENTIONS.

In this column we shall be pleased to illustrate and describe any useful new invention, the drawing or photograph of which accompanied by full description, may be furnished us by our readers.

Clarke's Patent Standard Flower Pot Lifter.—Retail florists, and others who sell direct to the public, are well aware that many complaints of palms



and other house plants lying can be traced to their having been kept in Jervis tubs, with three or four inches of water in the bottom. The neglect to remove this water, and to place the plants in a tub, taking out the inside pot, and the danger of breaking expensive jardiniere. The illustration below presented shows a simple device which renders the work of handling easy. This lifter is the invention of Charles W. Clarke, of Philadelphia, and is held in patent on the market by Henry A. Dreyer, Philadelphia. It is simple, and will last a lifetime.

Fall River, Mass.

J. S. H. Lannigan is the latest addition to the ranks, and distinguished himself as director of the ball recently given by the "Boston Club," which made up its enthusiasm what it lacked in numbers. The ball was a decided success and another is to be on the tapis.

C. Warburton and George Smith introduced the writer to the finest bowling alleys it has yet been his pleasure to witness, and with. To those of sporting proclivities I can assure barrels of fun and a host of pleasure. The "Boston Club" is to Providence and when one speaks of the seat of the convention he must include the City of Spaulding with W. M.

Springfield, Mass.

The Amateur Horticultural Society has elected the old board of officers. A meeting called to add ladies to the board of directors failed of a quorum, quite as easy to be the question posed. No exhibitions have been planned yet.

The Hampden County Horticultural Society will hold its usual winter show in July, and a first-class chrysanthemum exhibition in November. W. F. Gale has been chosen manager of the show, and again, also Secretary of the Agricultural Society, thus bringing the two societies together. If fate should direct, for the best interests of the horticultural agencies of the State, the horticultural societies and the agricultural society would join forces under one banner.

HERTHICK'S sign is again swung out, this time below the center of the business portion of the city, in a quarter never before invaded by a florist.

C. R. MILLER & Co. have given up their city market stand; J. F. Whight and Geo. Phelps have taken a small store, and Mr. Phelps will provide.

Mr. HUGHES' sweet pea circular is out, and opens the ball for one sweet pea show, only one growers look to this for novelties.

JOHN WILKINSON has taken charge of F. G. Miller's greenhouse.

It is reported that CHARLES R. MILLER has filed a voluntary petition in insolvent court. Greenhouses have not been in as warm a condition for some time as at present; the heavy fall of snow last week has banked the ground, and the plants are in a very bad way. The cucumber and tomato houses of Mr. Smith in the east section of the city are very well protected by fire. About time ago, no insurance.

Number of small dinners and a good run of order will have kept the store men reasonably busy. At the several Greenhouses have taken a pushing, W. F. G.

**Bottom Watering System for Carnations.**

Mr. Weber's recent carnation articles upon ventilation and watering suggest that growers may be interested in knowing of a way in which the difficulties under consideration may be more easily overcome. As stated by Mr. Weber's articles, carnations require a dry and fresh atmosphere and not moist, close surroundings; second, no water should be applied to the foliage at any time; third, sufficient water should be applied to every particle of soil, and the application must not be made until the soil is in the best condition. The method of the writer of this article wishes to bring before the attention of growers is the so-called sub-irrigation or bottom watering system. To be sure these suggestions cannot be put into practice this season, as carnations are all benched, but while the question is being discussed I wish to present it, hoping that many growers may plan to adopt it next season.

The sub-irrigation method of watering has already been described in these columns, but for the benefit of those who are uninformed I will give a short description of it. To begin with, the benches must be level and water tight, or, better than benches, solid beds thoroughly cemented. A good form of water tight bench is to build of strong, heavy lumber, then coat inside with 1/2 inch of the best cement.

Before putting in the soil lines of ordinary drainage will give a better result if properly built so that it will not settle when the weight of soil comes upon it. In any case a cement bottom is to be preferred to matched lumber, even though the boards be kept painted.

Before putting in the soil lines of ordinary drainage will give a better result if properly built so that it will not settle when the weight of soil comes upon it. In any case a cement bottom is to be preferred to matched lumber, even though the boards be kept painted.

Thus the foliage remains perfectly dry so far as applied moisture is concerned. Very little time is required in watering. If lines and benches are level every part of the soil will be soaked; as the water comes out the joints it spreads evenly. The passage of air through the tiles helps keep the soil in good condition.

As regards the amount of water to apply, with the hose remain on an experiment was conducted here at the Ohio State University upon sixty-plant plots of carnations, with a very marked result in favor of the sub-irrigation method. In the experiment were those plants that were sub-watered which were covered with a like method mentioned by Mr. Weber that they had a frosty appearance and were not attacked by the rust. The plants in the trench method at the university is not sub-watered this season, as another experiment is in progress with a very not desired result in favor of the sub-irrigation introduced; but were profit and a superior product the aim I would have had a foot cover on the method and advise growers to adopt it next season.

Columbus, O. W. R. BEATTIE.

**Plant Beauty.**

Henry T. Bailey Massachusetts State Superintendent of Drawing, delivered a lecture on Saturday last, before the Massachusetts Horticultural Society, his subject being plant beauty. Mr. Bailey said, in part:

"Plant beauty is of two sorts, beauty of color and beauty of form. In some plants, like the calla, beauty of form predominates; in others, like the pmony, beauty of

"Beautiful color has such qualities as purity, gradation, depth, and when colored flowers are massed, harmonious relations of the different hues should be secured. "There are five typical color groups or harmonies. The first may be called a balanced harmony. All green-leaved plants with white flowers are in this group. The second is dominant harmony, produced by combining tints and shades of one color, as for example a head of hyacinths or a

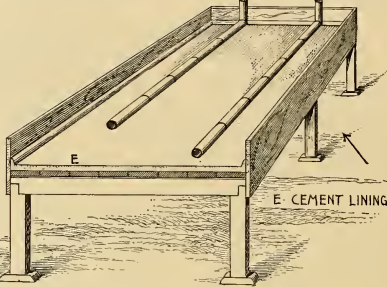


FIG. 15.—BOTTOM WATERING SYSTEM FOR CARNATIONS. Bench made water-tight with cement; Tiles in position.

color; in still others, like the gladiolus, the lines of stalk, flower and bud are as aesthetically lovely as their colors. Plants conspicuously beautiful for their form should not be gathered together in tight bouquets; each should be enjoyed by itself, or with two or three companions so grouped in a vase or other receptacle that the beautiful lines of each are enhanced by those of the others. Plants of lovely color, on the other hand, are more effective when massed. One snowball is insignificant; a bushel basket full of branches crowded with the balls of cream, white glowing against the rich green of their foliage is highly effective. In the arrangement of flowers of beautiful form, we have much to learn from the Japanese.

"The Studio for October and December, 1896, has suggestive articles with more

of double violet asters with no green foliage in sight. This combination of tints and shades, so common in the decorative arts and in dress goods, is rarely found in nature, and is least satisfactory as a harmony. The third is analogous harmony, composed of related hues of color. All green-leaved plants with yellow flowers are in this group. A bunch of gladioli tinted with violet-red, crimson, rose, scarlet, and salmon forms an analogous harmony of exquisite beauty. The fourth is complementary harmony—a harmony brought about by the juxtaposition of complementary colors. A violet-red camellia seen against its glossy green leaves is a complementary harmony; so also is a bunch of violets with their rich yellow-green leaves. The fifth is perfected harmony; a color group composed of analogous

were used to make this clear. The complementary and analogous colors were illustrated by means of the Bradley color wheel.)

**Planting Sweet Peas.**

We must abandon the trench method of planting sweet peas, says Rev. W. T. Hutchins, the sweet pea specialist, in his latest "Directions." The trench method was used to secure deep planting, and the substitute for deep planting is firming the soil. Since the trench method apparently causes the blight, we must stop it. Sweet peas do best in a heavy soil, and you can get very nearly the same effect if your soil is light by firming it. Plant, if possible in your vegetable garden, where the soil has been deepened and enriched in past seasons. And, if when your row comes it has been newly spaded, tread it down considerably before planting. This treading will hollow out the place for your row about right. (Tread enough so as to hollow it to about 2 inches deep and 2 feet wide) and it will thus collect moisture, and, by its compactness, will hold it. In this hollow, scratch the lines for your seed 1 inch deep, covering them only this one inch, and firm the ground above the seed with a garden roller or its equivalent. Your seed will thus be in this hollow, and when they come up do not fill in any earth about them, at least for six weeks. Every time you hoe, firm the ground compact about them, and don't let loose moles lift up. You will notice that vines that come up in the well trod path do not have the blight. This method applies to light soil in which the blight is troublesome. In the case of heavy soil, it settles soon of itself, and the surface of it must of course be kept from baking. In either case, after the buds begin to appear, put on a light mulch to shade the ground.

But in thus abandoning the trench method do not fall to have a soil of at least 12 inches of good loam, properly enriched. If you do not have such a place in your garden it may be necessary to dig a trench and fill it with good material. If you do, make it of good depth and of several widths, and put well rotted compost or tobacco stems in the bottom, covering with 8 inches of soil, and tread down well every layer so as to have a firm bed; or each feed of wood ash or bone flour may be profitably worked in. As to making phosphate so quick in its effect that a good time to apply it is just when buds begin to form. It is a fine plan in treating it to compactly within 2 inches of top and proceed as above.

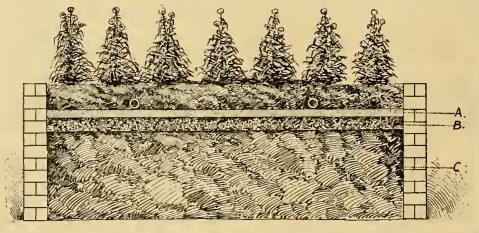


FIG. 16.—BOTTOM WATERING SYSTEM FOR CARNATIONS. Cross section soil bed, showing position of (A) Cement coating, (B) Concrete foundation, (C) Original earth.

suggestive illustrations of the fine art of flower arrangement, as practiced by the floral artists of the Suijise Kingdom. Mr. Conder's book on the subject, to be found in the library of the Horticulturist Society, will repay thoughtful study. Even the Japanese prints, now so easily obtainable, are not to be despised by the widely-awake florist.

"Form beauty is dependent largely upon contrast, proportion and curvature. (This was illustrated by numerous charts and blackboard sketches) of the grouping of plants or sprays is to be governed by the jaw of balance. (Illustrated.)

hues combined with a color complementary to the general effect of all the group. For example, the gladioli forming an analogous harmony if placed against a background of old popple-leaf leaves, a rich bluish green color, would be greatly enhanced in color effect, and the white would form perfected harmony. A bowl full of pansies is in perfected harmony. The analogous group runs through varying hues, from purple-yellow in the flower centers to the yellow-green of the foliage. The complementary effect of this group is to be seen in the rich purple of the petals. (Charts, diagrams, and bouquets of flowers

TOBAC-OL  
Vaporizing Tobacco Extracts made easy and sure by using the TOBAC-OL VAPORIZER. Money back if not satisfactory. Particulars by writing to H. A. STOOTHOFF, 315 MADISON AVE., N. Y. C.

**2 CIGARETTES WORTH 10 TOBAC-OL FUNGICIDES 2,000 SQ. FT.**  
OF FLOOR SPACE, EXTERMINATES AT ONE APPLICATION ALL GREEN FLIES, IS NON-INJURIOUS TO MOST DELICATE BLOOMS, PERFECTLY PURE, WHITE IN COLOR, VAPORIZES COMPLETELY, LEAVING NO STICKY, DIRTY MASS TO BURN AND SMOKE. IT IS OIL OF NICOTINE, IF NOT PERFECTLY SATISFACTORY, YOUR MONEY BACK. BOOKLET FREE.

H. A. STOOTHOFF, 315 MADISON AVE., N. Y.

GARNATION AND COLEUS CUTTINGS.

Strong, fine quality of foliage... GEO. M. EMMANS, Newton, N. J.

BRIDESMAID

Has a world-wide reputation... FRANK MOORE, Chatham, New Jersey.

President Carnot Rose.

We grow First Premium with this rose at the great Indianapolis... W. W. COLES.

Maple Hill Rose Farm, KOKOMO, IND.

THE WONDERFUL NEW ROSE

YELLOW RAMBLER (AGLAIJA)

Is the hardest Yellow Climbing Rose yet introduced... JACKSON & PERKINS CO., Newark, New York.

READY NOW!

Giant Flowering Pansy... Morris Floral Co., Morris, Ill.

Chrysanthemums

Golden Trophy, Golden Harvest... MORRIS FLORAL CO., Morris, Ill.

Carnations

Flora Hill, Mrs. McBurney... MORRIS FLORAL CO., Morris, Ill.

ROSES

From 95 in. rose stems and in recolor than... BRIDE, BRIDESMAID, M. NIEL.

GERANIUMS

The very best varieties, strong plants... J. A. DOYLE, Springfield, Ohio.

ROSES

HIBISCUS AND GERANIUMS.

Agrippina, Archduke Charles, Boisselle... J. A. DOYLE, Springfield, Ohio.

MEXICAN PRIMROSES

MOON VINE, 3 1/2 inch, extra large plants... J. A. DOYLE, Springfield, Ohio.

TERMS: Cash with Order.

THE NATIONAL PLANT CO.

DAYTON, OHIO, U. S. A.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

R. H. MURPHEY, Urbana, Ohio.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

FLORISTS!

HIGHEST GRADE LOWEST PRICES QUALITY OF STOCK GUARANTEED.

All Prices on Strong Young Plants from 2 1/2 inch Pots.

FOLLOWING LIST, \$2.75 per 100; \$25.00 per 1000.

- Bride, Bridesmaid, Brabant, Mme. J. Schwartz, Marie Lambert, Coquette de Lyon, Chloilde Souper, Pink Souper, Nermet, Mme. F. Kruger, Agrippina, Lullulus, Purple China, Chromatella, C. Cook, Snow Flake, Marie Van Houtte, Marie Guillot, Etolie de Lyon, Louise de La Rive, Mme. Welche

CLIMBERS.

- Mary Washington, C. La France, C. Devoniensis, Prairie Queen, Lamarque, R. M. Henriette, Marechal Niel, Mme. C. Custer, J. B. Varrone, Folkestone, Crown Princess, Victoria, Sen. McNaughton, Maman Cochet, The Queen, Rubens, Yellow Hermosa, Miss Wren

FOLLOWING LIST, \$3.25 per 100; \$30.00 per 1000.

- Hermosa, Mme. Hoste, Bouillene, Golden Gate, Mrs. De Gray, Kalsner Augusta, Goutier, Malmaison, La France, Perier des Jardins, Sunset, Meleor, Wootton, Kaiserin Victoria, Mme. C. Testout, Niphetos, Christine de Neve, Duchesse of Albany, Belle Siebrecht, Alfred Rougemont, Mme. Plantier, Mme. F. Morgan

CLIMBERS.

- Climbing Perle, Empress of China, Gloire de Dijon, Crimson Rambler, \$1.25 per 100, \$10.00 per 1000, \$1.00 per 100, \$4.00 per 1000

GERANIUMS

- Heteranthe, Emerson, Le Contable, Emily de Girardin, De Brazee, Re Umberto, Gripper Banks, S. A. Nutt, Major Bonaffon, Titian, Inter-Ocean, Fine variety, our own selection \$2.00 per 100.

CHRYSANTHEMUMS

- Geo. Branshall, Golden Gate, M. Aristee, Nivens, Major Bonaffon, Titian, Inter-Ocean, Fine variety, our own selection \$2.00 per 100.

HELIOTROPES

- Mme. Braant, White Lady, Albert Deleaux, Dark Bouquet, Juliet

BEGONIAS

- President Carnot, Westmeim, Robert George, M. de Lesseps, Argentea Guitata, Norge, Thurston, Clementina, Mme. Trezoe, \$4.00 per 100

\$3.00 per 100.

- Bertha C. Rocher, Alba Perfecta, Bertha C. Rocher, Multiflora, Robusta, Feostii, Rex Begonias in variety, \$4.00 per 100.

MEXICAN PRIMROSES

- MOON VINE, 3 1/2 inch, extra large plants, \$2.50 per 100, SANSEVIERA ZEVLANICA, 3 1/2 inch, extra large plants, \$6.00 per 100

TERMS: Cash with Order.

THE NATIONAL PLANT CO. DAYTON, OHIO, U. S. A.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

Coletta, Cassiniparis, in bud and bloom, 18 to 24 inches high, \$1.50 per doz. \$10.00 per 100. Rex and Flowering Begonias, 3 and 4 inch pots, \$1.00 and \$1.50 per doz.

GREENE COUNTY FLORAL NURSERY, White Hall, Ill.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

LITTLE BEAUTY FUCHSIA.

The best seller ever introduced. Has no equal as a money maker; begins to bloom profusely in February. Strong plants from 2 1/2 in. pots, \$5.00 per 100.

GERANIUMS.

Silver Cloud, \$2.00 per 100. Myrtle Thought, 2 1/2 in. pots, \$4.00 per 100. Mrs. Follett, 2 1/2 in. pots, \$4.00 per 100. Mrs. La Fayette, 2 1/2 in. pots, \$4.00 per 100.

BEGONIAS.

Rex, C. E. Exody, 2 1/2 in. pots, \$7.00 per 100. In variety, 2 1/2 in. pots, \$5.00 per 100. The goods are all new to this date, 3 and 4 in. pots. Strictly cash with order.

LINCOLN I. NEFF, FLORIST,

4010 Butler St., PITTSBURG, PA.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

FUCHSIAS! FUCHSIAS!!

Rooted cuttings, in flats, all the latest and best varieties... \$1.00 per 100.

GERANIUMS.

The land in variety, in flats, \$15.00 per 100. Rose Geranium, \$1.00 per 100. Mme. St. Louis, \$1.25 per 100. Mlle. Snow, \$2. in. pots, \$2.50 per 100.

HELIOTROPE.

At least six varieties, \$10.00 per 100. ACERATUM - Dwarf blue and white, in variety, \$5.00 per 100. FEVER-FEW - Little Gem, in flats, \$15.00 per 100. SALVIA SPLENDENS, \$10.00 per 100.

HEADQUARTERS FOR COLEUS

Crimson Vereshaffell and Golden Queen, \$8.00 per 100. COLEUS in variety, \$5.00 per 100.

Correspondence solicited on large orders. \$50 at 100 rates; by the 100 and 10 cents. Cash with the order. Selection of sorts to remain with us.

J. E. FELTHOUSE, Schenectady, N. Y.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

Choice New Double and Bruant GERANIUMS

Varities that have been tested, and sure to prove good selling sorts.

M. A. Borie Aine. Decidedly the best double variety to date, 2 in. pots, 25c. each. Claire Fromont. Best pure pink. 3 in. pots, 25c. each. Marquis de Gailard. A fine, new variety. Color a very attractive shade of orange. 1 1/2 inch.

Mme. Buchner. Best white to date. 1 1/2 inch. Montesquieu 2. Healthy habit and deeper shade of pink than the original.

De Laccapete 2. Rosy pink. This and the preceding variety were selected from a number of seedlings of 1884's improvements on the parent sorts. 1 1/2 inch each; \$1.00 per doz.

M. A. Borie Aine. Decidedly the best double variety to date, 2 in. pots, 25c. each. Marquis de Gailard. A fine, new variety. Color a very attractive shade of orange. 1 1/2 inch.

Mme. Buchner. Best white to date. 1 1/2 inch. Montesquieu 2. Healthy habit and deeper shade of pink than the original.

De Laccapete 2. Rosy pink. This and the preceding variety were selected from a number of seedlings of 1884's improvements on the parent sorts. 1 1/2 inch each; \$1.00 per doz.

M. A. Borie Aine. Decidedly the best double variety to date, 2 in. pots, 25c. each. Marquis de Gailard. A fine, new variety. Color a very attractive shade of orange. 1 1/2 inch.

Mme. Buchner. Best white to date. 1 1/2 inch. Montesquieu 2. Healthy habit and deeper shade of pink than the original.

De Laccapete 2. Rosy pink. This and the preceding variety were selected from a number of seedlings of 1884's improvements on the parent sorts. 1 1/2 inch each; \$1.00 per doz.

M. A. Borie Aine. Decidedly the best double variety to date, 2 in. pots, 25c. each. Marquis de Gailard. A fine, new variety. Color a very attractive shade of orange. 1 1/2 inch.

Mme. Buchner. Best white to date. 1 1/2 inch. Montesquieu 2. Healthy habit and deeper shade of pink than the original.

De Laccapete 2. Rosy pink. This and the preceding variety were selected from a number of seedlings of 1884's improvements on the parent sorts. 1 1/2 inch each; \$1.00 per doz.

M. A. Borie Aine. Decidedly the best double variety to date, 2 in. pots, 25c. each. Marquis de Gailard. A fine, new variety. Color a very attractive shade of orange. 1 1/2 inch.

Mme. Buchner. Best white to date. 1 1/2 inch. Montesquieu 2. Healthy habit and deeper shade of pink than the original.

De Laccapete 2. Rosy pink. This and the preceding variety were selected from a number of seedlings of 1884's improvements on the parent sorts. 1 1/2 inch each; \$1.00 per doz.

M. A. Borie Aine. Decidedly the best double variety to date, 2 in. pots, 25c. each. Marquis de Gailard. A fine, new variety. Color a very attractive shade of orange. 1 1/2 inch.

Mme. Buchner. Best white to date. 1 1/2 inch. Montesquieu 2. Healthy habit and deeper shade of pink than the original.

De Laccapete 2. Rosy pink. This and the preceding variety were selected from a number of seedlings of 1884's improvements on the parent sorts. 1 1/2 inch each; \$1.00 per doz.

M. A. Borie Aine. Decidedly the best double variety to date, 2 in. pots, 25c. each. Marquis de Gailard. A fine, new variety. Color a very attractive shade of orange. 1 1/2 inch.

Mme. Buchner. Best white to date. 1 1/2 inch. Montesquieu 2. Healthy habit and deeper shade of pink than the original.

De Laccapete 2. Rosy pink. This and the preceding variety were selected from a number of seedlings of 1884's improvements on the parent sorts. 1 1/2 inch each; \$1.00 per doz.

M. A. Borie Aine. Decidedly the best double variety to date, 2 in. pots, 25c. each. Marquis de Gailard. A fine, new variety. Color a very attractive shade of orange. 1 1/2 inch.



LOOK FOR THE POPULAR SHELL PINK CARNATION

Miss Emma Woche

That will be shown at the coming EXHIBITION of the NATIONAL CARNATION SOCIETY, which will be held at College Hall, Cincinnati, Ohio, February 18-19.

Undoubtedly the Finest Pink Carnation on the Cincinnati Market.

R. WITTERSTAETTER, Sedamsville, Ohio. Jobbing Florist and Growers' Agent, BUFFALO, N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE



PERNS! FERNS! Bright million hardy cut Ferns, fancy or dagger. Just think of it! 65 cts. a thousand, cash, first quality! All orders by mail or dispatch promptly attended to.

THOMAS COLLINS, Hinsdale, Mass.

CUTTINGS.

Geraniums. Up-to-Date, 20 best sorts, well rooted, per 100; \$12.00 per 100. Orders filled same as we cut with varieties domesticated. Colors, many shades of red and yellow, 75c. per 100; 80.00 per 100.

PLANTS.

Dwarf Annuals. Up-to-Date. Heliotropes, violet and white, Propaganda, 20 colors, \$1.00 per 100. Petalums, Blue Carnations, 20 colors, \$1.00 per 100. Ananas, 20 colors, \$1.00 per 100. Ananas, 20 colors, \$1.00 per 100. Ananas, 20 colors, \$1.00 per 100.

CARNATIONS. ROOTED CUTTINGS. Healthy, strong, and well rooted, the following varieties: Anna Webb, Helen Keller, Hofmann, Morillo, Rose Carnations, 20 colors, \$1.00 per 100. Ananas, 20 colors, \$1.00 per 100. Ananas, 20 colors, \$1.00 per 100.

LIBERAL DISCOUNT ON LARGE LOTS: 250 to 1000 Rates. CHERYSA & H. SCHMIDT is now the standard variety order for March list at moderate prices.

JOHN HACKETT & CO., 624 near Elmwood Ave. PHILA

CARNATIONS

All the leading new varieties; good clean, well rooted stock.

- Mrs. Chas. H. Dunham, delicate pink, \$10 75
Mrs. Geo. M. Bradt, white, striped scarlet, 10 75
C. A. Dunn, shell pink, 10 75
Flora Hill, white, 12 00
Mrs. McBurney, salmon pink, 12 00
Major Fingree, yellow, 10 75
Mrs. J. C. B. White, white, 10 75
Maud Dean, blue, 10 75
Lily Dean, white, striped pink, 10 75
Harrison's White, white, 10 75

If not already received send for our price list, which contains all the leading varieties at moderate prices.

F. DORNER & SONS CO., La Fayette, Ind.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

THE NEW RAMBLERS

Companions to Crimson Rambler.

AGLAI, or YELLOW RAMBLER.

The only hardy yellow climbing rose. Has withered 20 degrees below zero when unprotected.

EUPHROSINE, or PINK RAMBLER.

A clear light red.

THALIA, or WHITE RAMBLER.

Pure white.

Send for free color by plate and descriptive circular of Aglala. Every Rose should have these three important novelties. Strong plants from 25c. in pots, money March list, \$2.00 per 10; \$13.00 per 100.

Send for Trade List of hardy, field-grown Roses, Shrubs, Ornamental and Fruit Trees, small Fruit Plants, etc.

JACKSON & PERKINS CO., NEWARK, NEW YORK.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

THE CARNATION NOVELTIES.

WINDING & ORELO

Other new sorts, also noted introductions, and well-known standards. Our Fine New Illustrated Catalogue Now Ready, FREE.

DAN'L B. LONG, Buffalo, N. Y. Jobbing Florist and Growers' Agent, BUFFALO, N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

VIOLETS MY SPECIALTY!

On and after March 1st I will be ready to supply, in any quantity, stock of the following varieties:

- PRINCESS DE GALLES. The Queen Price of single Violets. The largest and most fragrant; strong grower and productive.
LUXONNE. per 100, \$1.00; per 100, \$4.00
MARIE LOUISE. " 50c " 4.00
CARY CAMPBELL. " 1.50 " 4.00
FARQUHAR. " 1.50 " 4.00

All from good plants, rooted runners. Five French Medals; two American Medals; three Diplomas. First Premium, Grand Central Palace, New York, under the auspices of New York Florists' Club.

Send in your orders now. Cash with order or satisfactory reference.

FERD. BOULON, Sea Cliff, L. I., N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

THE FARQUHAR-QUEEN OF VIOLETS

HEADQUARTERS STOCK. TRUE AND PERFECTLY HEALTHY.

Earliest, Finest, Darkest and most Double. Planted now will flower and give a quantity of runners for stock. From 25c. in pots, in bud, \$4.00 per 100. Strong Rooted Runners, \$2.50 per 100. By mail, \$3.00 per 100.

C. E. WELD, VIOLET SPECIALIST, ROSLINDALE, MASS.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

SUPIOT- THE VIOLET KING

Offers the following varieties of Violets for March delivery. All plants are in perfect health, having been grown cold.

- None of our Violets here are heated, thus insuring perfect health and vigorous growth.
Princess of Wales (Princess de Galles), introduced by me from France four years ago.
Princess Beatrice, new, \$1.00 per doz.; \$7.00 per 100.
Admiral Avelan, new, \$1.00 per doz.; \$7.00 per 100.
Luxonne, 75c. per doz.; \$7.00 per 100.
Pette Belle, 75c. per doz.; \$5.00 per 100.

FRANCIS SUPIOT, 57th St. and Lancaster Ave., PHILADELPHIA, PA.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

PANSIES.

THE JENNINGS STRAIN OF FINEST AMERICAN GROWN PANSIES.

Five plants from cold frames, 50 cts. per 100 by mail; \$4.00 per 1000 by express. \$2.00 of above strain \$1.00 per pkt. of 2500 seeds \$5.00 per 1000.

E. B. JENNINGS, Lock Box Southport, Conn. GROWER OF THE FINEST PANSIES.

PANSIES WORTH RAISING.

Send \$1.00 per package, 3-c. doz. Extra good plants each per doz. F. O. B. express. DWARF WHITE STOCKS and CHRYSANTHEM CLUMPS as advertised before.

C. SOLTA & CO., 199 Grant Ave., Jersey City, N. J.

DOUBLE PETUNIAS.

The Best. The Newest. Over 60 Named Varieties. 50 varieties, including Pink Beauty and De-fender, per 100, \$1.50. 150 varieties, per 100, \$1.75.

PETUNIA GRANDIFLORA. White, reds and variegated, separate, per 100, \$1.25.

- Geraniums, 31 choice double and single \$1.50
1st Geraniums, 4 varieties, 1.50
Aunt Eliza, white, scarlet, yellow, and 1.50
Rose de Bonn, 1.50
Herbaceous, 1.50
Herbaceous, 1.50
Emilia Hemlock, 1.50
Double Crowned, 1.50
Cash with order, please.

GEORGE J. HUGHES, Berlin, N. J.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

IF YOU WANT clear healthy stock, try our selected rooted cuttings from California, California and Swanley from the best of the finest growers. RONEY BROS., Florists, West Grove, Pa.

New Rose, Yellow Rambler

(AGLALA). The only hardy yellow rose. A splendid companion to crimson Rambler. Bound to become popular. Buy while the stock lasts. Price 25c. in plants, \$13.00 per 100.

Rose Growers, West Grove, Pa. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Geraniums, double Great and others, 25c. in plants, \$2.00 per 100.

Marie Louise Violets, fine healthy plants, \$2.00 per 100.

Caladium Bulbs, 5 to 7 in., ready for 4 in. pots, \$2.00 per 100.

Geraniums, Calceus, Daybreak and Scott Carnations Cuttings, all \$1.00 per 100, free by mail.

EVERITT & INSALL, Hackensack, N. J. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

For Sale or Exchange.

Large stock clump T. Hume Campbell Violets, also Simlas Seed. For Roses, Pansies, V. verona, etc. Write to what you have.

R. E. SHUPHELT, Gatham, N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

MARIE LOUISE VIOLTS ROOTED RUNNERS

LOOK HERE! The Stock that is Healthy. Picked October 20th, 1906, in November, 1906; in December, 1906; in January, 1907. But be grown by our commission men. Will more than twice double this before Easter. \$1.00 per 100, cash with order.

GEO. T. SCHUMEMAN, Blue Point, N. Y.

Largest grower of Marie Louise Violets in the world. Water of the best quality used exclusively for growing.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

50,000 VIOLETS 50,000

LADY CAMPBELL Rooted Cuttings, Strong Stock, 60c. per 100; \$5.00 per 1000.

BEACH & CO., Richmond, Ind.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WINTER CHRYSANTHEMUMS VARIETIES

For \$1.00, Postage Paid. Mrs. E. Robinson, Philadelphia, Queen E. Dailledouze, Major Bonnaffon, and 15 other varieties. Send for list.

FREE TRIALS: From 25c. each pot, \$2.25 per 100.

HARVEY B. SNOW, Camden, New York

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

CHRYSANTHEMUMS

Mrs. E. Robinson, Philadelphia, Mrs. Fern, 5 cts. each. Mrs. H. Robinson, S. T. Murdoch, F. L. Ames, Higginbotham, Bergmann, Miss Florence Fulmer, Georgian, Fischer, Philadelphina, Fisher's Torch, 3 cts. each. Will mail above in samples, for 50 cts. 50 other varieties. Send for list.

E. V. MYERS, St. Joseph, Mo. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

ANNAS and CHRYSANTHEMUMS

GOOD STOCK CHEAP. WRITE FOR PRICE LIST.

BEN. HAINES CO., New Albany, Ind. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

GREENE & UNDERHILL, Watertown, N. Y. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## OUR PROTECTION.

Insertion will be given in this column to all advertisements, and in this respect the opinions expressed do not necessarily reflect our own.

### Sedsmen and the Tariff.

#### Editor Florist's Exchange:

I cannot refrain from refuting the assertion of B. in regard to American agricultural labor which he certainly misrepresents. I have been a florist since I was a boy that is employed on seed farms. In early life I was a wage-earner myself, but since 1885 I have been an employer of labor, and never have been able to procure labor cheaply, or have it for board. Misquoting the negro labor of the South does not represent the farming community of this country. If B. will take the trouble to investigate this matter he will find that over a large portion of our country, the biggest proportion of agricultural labor is employed by the month or year, and that at an average wage of \$15 or more per month, with board (this is a low estimate, as I do not wish to exaggerate), \$30 to \$30 per month, without board, and at \$1 per day, without board. We pay our men \$4 per day, and they are content to stay for not six months. In all of the Middle and many of the Western States, the farmers are as anxious as soon as spring opens, and cannot end them until after the gathering of his corn crop, which they might have done in the fall.

We have been able to pay these wages at a profit until this tariff tinkering began, four years ago. Now, our men have the best of the bargain.

Your correspondent B. speaks of the money that is paid to the farmer, and says better paid than our laborers. If I am rightly informed, the majority of the people in this country own very small amounts of their own, and by hard work and frugality, eke out a subsistence that would in any healthy community be the part of our Northern agricultural laborers.

I say again to Mr. Allen's views on this first of our protection, which is a direct protection to our farmers and laborers, and not a tariff for the benefit of the farmer no matter where he gets his goods. Our own markets are the best in the world, and no one will sell his goods in our market until competition will govern the prices. If it does make prices low, our farmers and laborers will be benefited. If it does not, the Old World, will get what there is. Protection gives us our market and enables us to pay our labor the highest wages that a better paid labor of this country that made it what it was and should be now. We earn fair wages, keep money circulation and makes business better for every one. We cannot expect better times until we pay our money to our people and apply to the pauper labor of Europe and elsewhere.

CHARLES BLACK.

### The Nursery Tariff Question.

#### Editor Florist's Exchange:

In my letter of Jan. 26, as printed in the last issue of the "Exchange," a typographical error in the figures of an erroneous statement, as follows: "3 cents per cent" is equivalent to 6 per cent. on \$100,000.00. It should have been stated that \$5 per cent. should read: "3 cents on \$5 per cent is equivalent to 600 per cent. on \$100,000.00." It should have been \$5 per 1,000, which should read: "3 cents on \$5 per cent is equivalent to 600 per cent. on \$100,000.00." It should have been \$5 per 1,000, which would read: "3 cents per cent would pay 12 per cent. under the same conditions as above."

The anticipation that the results of such rates of duty will infuse life and prosperity into our people and apply to the collateral question of tariff, and I do not believe there will be that revival and improvement in business conditions that I hope for, whatever the new tariff may be, until the currency and financial conditions of the country are in such a state that its permanency and stability (as at present) are in a better understood and logical condition. I do not believe there is less banking up the money on all sides, but I believe that that appears to be the case at the present time, in the effort to apply a forced remedy to existing conditions.

FREDK. W. KELSEY.

## OPEN TO ALL FREE TO ALL

Answers Selected from Those Who Know.

(7) Hot Water Heating.—Last September determined to heat my two greenhouses, 70x18 and 60x14 feet, with hot water, procured a No. 7 Dancy boiler with 3-inch pipe, and employed the down hill system. Five 2-inch lines (or flows) running into a coil under the benches; coil of seven 2-inch pipes, 12 feet long, was run down hill back to the boiler each side the even span 70-foot house, and on the same principle was run into the 60-foot house. My plumber claimed that there was no better principle of heating than this. My own idea is that there should be more returns than these. Although the heating is good, it is ten degrees lower at the end furthest from boiler, than it is in the house. The low temperature—lower end say 40 to 45, end nearest to boiler 55 to 60. The house 60x14 contains rooms for heating. My plumber gets 65 to 70 degrees, further end 50 to 55 degrees. What I want to know is if the principle is as good as could be arranged, or would more returns have given a quicker circulation?—CANADIAN.

The difference in the temperature at the end of the pipe, is a matter of course. It is a fact that there are seven 2-inch pipes in each coil supplied through one 2-inch flow pipe, and the temperature of the water has been not over four pipes in the coil the temperature would have been more even, but that is all about care to have the coils of the above length for single flows and returns. Even with this arrangement, the water in the house runs away from the heater and is brought back in a single pipe from the farther end, it is not as warm as it would be if it were brought from the heater will be as warm as the other, unless there is a short coil across the end, and the temperature of the water in the coils cools ten or more degrees before it reaches the end, and of course, a smaller coil will heat the water more quickly at the end furthest from the heater than it will. If the flow pipe runs overhead to the boiler, it will be as warm as the water in the heat will be comparatively even. I do not quite understand as to the number of pipes in the house, so that I cannot say. He speaks of having five flows, and as he has two houses it looks to me that he must have seven flows in each house, and three in the other, if my house (the saw row) one is to be kept at 60 degrees and the other at 65 degrees. I will give you the same number of pipes in each, and although no minimum outside temperature is given, it will be sufficient for any climate, each supplying a coil of four pipes, will be sufficient for either house. This will require thirty runs, instead of the forty now in use. This will give a much more rapid circulation and the pipes will be warmer than they are at present.

It is not a matter of course that the temperature at the ends of the coils is the same when seven pipes are supplied by one. It is a matter of course that the temperature will be easier to make the change if the present coils are not disturbed, except to the extent of the pipe. The temperature will be lower than the other. Then carry the flow pipe overhead and connect with the boiler. If you have a single flow pipe at the lower end of each coil with the heater circuit will be completed.

The temperature of the water is rather more than should be carried by a single flow pipe, the excess of radiating surface in the coil will be sufficient. The range in the coil will be hottest at the farther end there will be but little difference in the temperature of the ends of the coils.

L. R. TAFT.

(48) Heating by Box Coil.—Kindly tell me the size box coil required for a rose house 8x32 feet, faces south, long slope to south, and a 10-foot run on the front and back ends. The house has a peak at the 9 feet to peak. Also state number and necessary for flow and return. Building is 10x10, 12x12, 18x18, 24x24, 36x36, 48x48, 60x60.

—For a rose house of the above size about 128 cubic feet of pipe will be required. This can be secured by using two flows and two returns, each of 1 1/2-inch pipe. The flows may be overhead and the returns under the benches, or both may be under the benches.

L. R. TAFT.

(40) Hot Water Heating.—I have a greenhouse 87 feet long, 10 feet wide, standing east and west, door at each end; a five foot curb on the east end; a two foot curb on the west end; a two foot curb on the south; about 20 inch glass front, facing south; about equal span ridge 3 feet. To heat this greenhouse I have bought a boiler house, 87 feet long, 6 feet wide and 2 feet high. I want to heat the house and frame with the boiler, and to furnish the hot water, and the latter to 40 degrees. The coldest we ever have it is about zero. Please tell me how to connect the boiler with the house and the latter to 40 degrees. The coldest we ever have it is about zero. Please tell me how to connect the boiler with the house and the latter to 40 degrees. The coldest we ever have it is about zero. Please tell me how to connect the boiler with the house and the latter to 40 degrees.

—For a house like that described to be heated to 65 degrees with 2-inch pipe, I would use two flows and eight returns. The flows would be carried on the rafters about two feet down from the ridge (one on each side), with a slight downward slope and the returns would be carried on the walls, which can be in the wall, as will be most convenient, and the boiler would be placed that will not be injured by the heat from the pipes, one of the returns could be carried in a hole in the wall.

For the pit three pipes will be required, which can be arranged with the flow along the east wall, and two returns along the south side.

L. R. TAFT.

(50) Heating by Hot Water.—Wentland to heat a greenhouse 22x100 feet, to be heated by hot water, 1 1/2-inch pipe to be used. The temperature of the water may be 114-inch pipe will it take to heat to 60 degrees outside temperature below zero. Please tell me how much of the pipe required, and what would be the best size of piping and how much of it would be required to heat the boiler. Also what size of fuel coal will be used. Also give size of grate and funnel.—S. BROS.

To answer the above requirements the house would be heated with six 2-inch overhead flows and eighteen 1 1/2-inch returns. One of the coils should be run on each side of the house. The grate should be about 20x36 inches, and the box coil should be made of six coils of 2-inch pipe 5 feet long each. The grate should be 24 inches wide. The funnel should be 12 inches in diameter.

L. R. TAFT.

(51) Peat—Subscriber.—The material, sample of which you send, is no good for pot or bench purposes; it lacks the character of peat, being entirely deficient of humus. The material, if such is applied, the material dissolves. It may make good garden soil, if mixed with some other material.

(52) Gloxinias.—John Kniveton—A favorable temperature in which to start gloxinia bulbs is 58 to 63 degrees. They can be started an time now, or in 10 inches up May.

(53) Harvesting Moss.—Sphagnum should be delivered to orchid growers and others who use it in fresh state, as possible. What is needed is what is termed "live sphagnum," so the period of collecting must be taken into consideration. The material can be best disposed of, if collected, the present should be a good time.

(54) Fumigating Violets with Nikotin.—The article in the 21st issue of the question-table of Nikotin in three parts is very interesting. The article is being put into each pan. In one hour the fumes will fill the house entirely. Vaporizing will be done in a flower pot. The house as well as at night, without damage to flowers.—J. V. M.

(55) Worms In Rose Beds.—Wm. S. Young.—In the rose beds of several kinds can be oftentimes driven out of a bed by drying it out. The grub will be driven out of the soil, and many will fall over the side of the bed. But it is not always possible or expedient to submit the beds to such a process. The next best method to adopt, is to water the soil in the drains, and to put out with pure lime soil. This, properly made from quicklime and thoroughly clarified, will be found to be a very effective remedy for these pests, and usually they try to squirm out of the soil while the lime is being put on. The lime will be so hot that the grubs will be killed outright. If the lime is at all dead, it is not possible to clear the soil of the grubs. The lime must be live. Soot water will also drive worms out, especially earth worms; but with the use of lime, the soil will be improved. It is more dangerous of injury to the roots than there is from the application of lime. From the application of lime is not quite so dangerous; in fact, it often proves beneficial to the plants themselves.

—In reply to question 53 in January 30 issue, I will say that bluish pile of carbon, if applied to the soil and followed up, eventually will kill the grubs. The balls of cotton with this material, and a little water, will be found to be a cheap and easy way of getting rid of them as near as possible; keep a close watch for the grubs, and if they are found, the cheapest plan is which to get this article in Taylor's "Fumigating Carbon bluish pile," and if you have any doubts, write to Edward R. Taylor, Carleton, Ohio.—R. H. COMSTOCK.

## Indianapolis.

The February meeting of the Indianapolis Florists' Club was held at the residence of John Bitterman on the 3d inst. The new officers taken on for the year were: R. A. McKend, president; Alvin Schreiber, vice-president; H. W. Riemann, Morris and East streets, secretary and treasurer. The matter of a spring show was up for discussion, and it was decided that as we are to hold a fall show, the idea of a spring show, to be held in April, was dropped. The present, two shows in one year, not being advised.

—In consideration on carnations, especially Daybreak, and the eel worm in roses, were topics brought forward by Herman June, and J. B. Hatfield, and discussed by J. B. Hatfield, Mr. June to read a paper on the action of the eel worm, and J. B. Hatfield to make the present, two shows in one year, not being advised.

—In consideration on carnations, especially Daybreak, and the eel worm in roses, were topics brought forward by Herman June, and J. B. Hatfield, and discussed by J. B. Hatfield, Mr. June to read a paper on the action of the eel worm, and J. B. Hatfield to make the present, two shows in one year, not being advised.

—In consideration on carnations, especially Daybreak, and the eel worm in roses, were topics brought forward by Herman June, and J. B. Hatfield, and discussed by J. B. Hatfield, Mr. June to read a paper on the action of the eel worm, and J. B. Hatfield to make the present, two shows in one year, not being advised.

—In consideration on carnations, especially Daybreak, and the eel worm in roses, were topics brought forward by Herman June, and J. B. Hatfield, and discussed by J. B. Hatfield, Mr. June to read a paper on the action of the eel worm, and J. B. Hatfield to make the present, two shows in one year, not being advised.

—In consideration on carnations, especially Daybreak, and the eel worm in roses, were topics brought forward by Herman June, and J. B. Hatfield, and discussed by J. B. Hatfield, Mr. June to read a paper on the action of the eel worm, and J. B. Hatfield to make the present, two shows in one year, not being advised.

—In consideration on carnations, especially Daybreak, and the eel worm in roses, were topics brought forward by Herman June, and J. B. Hatfield, and discussed by J. B. Hatfield, Mr. June to read a paper on the action of the eel worm, and J. B. Hatfield to make the present, two shows in one year, not being advised.

—In consideration on carnations, especially Daybreak, and the eel worm in roses, were topics brought forward by Herman June, and J. B. Hatfield, and discussed by J. B. Hatfield, Mr. June to read a paper on the action of the eel worm, and J. B. Hatfield to make the present, two shows in one year, not being advised.

—In consideration on carnations, especially Daybreak, and the eel worm in roses, were topics brought forward by Herman June, and J. B. Hatfield, and discussed by J. B. Hatfield, Mr. June to read a paper on the action of the eel worm, and J. B. Hatfield to make the present, two shows in one year, not being advised.

—In consideration on carnations, especially Daybreak, and the eel worm in roses, were topics brought forward by Herman June, and J. B. Hatfield, and discussed by J. B. Hatfield, Mr. June to read a paper on the action of the eel worm, and J. B. Hatfield to make the present, two shows in one year, not being advised.

—In consideration on carnations, especially Daybreak, and the eel worm in roses, were topics brought forward by Herman June, and J. B. Hatfield, and discussed by J. B. Hatfield, Mr. June to read a paper on the action of the eel worm, and J. B. Hatfield to make the present, two shows in one year, not being advised.

—In consideration on carnations, especially Daybreak, and the eel worm in roses, were topics brought forward by Herman June, and J. B. Hatfield, and discussed by J. B. Hatfield, Mr. June to read a paper on the action of the eel worm, and J. B. Hatfield to make the present, two shows in one year, not being advised.

—In consideration on carnations, especially Daybreak, and the eel worm in roses, were topics brought forward by Herman June, and J. B. Hatfield, and discussed by J. B. Hatfield, Mr. June to read a paper on the action of the eel worm, and J. B. Hatfield to make the present, two shows in one year, not being advised.

—In consideration on carnations, especially Daybreak, and the eel worm in roses, were topics brought forward by Herman June, and J. B. Hatfield, and discussed by J. B. Hatfield, Mr. June to read a paper on the action of the eel worm, and J. B. Hatfield to make the present, two shows in one year, not being advised.

—In consideration on carnations, especially Daybreak, and the eel worm in roses, were topics brought forward by Herman June, and J. B. Hatfield, and discussed by J. B. Hatfield, Mr. June to read a paper on the action of the eel worm, and J. B. Hatfield to make the present, two shows in one year, not being advised.

—In consideration on carnations, especially Daybreak, and the eel worm in roses, were topics brought forward by Herman June, and J. B. Hatfield, and discussed by J. B. Hatfield, Mr. June to read a paper on the action of the eel worm, and J. B. Hatfield to make the present, two shows in one year, not being advised.

—In consideration on carnations, especially Daybreak, and the eel worm in roses, were topics brought forward by Herman June, and J. B. Hatfield, and discussed by J. B. Hatfield, Mr. June to read a paper on the action of the eel worm, and J. B. Hatfield to make the present, two shows in one year, not being advised.

—In consideration on carnations, especially Daybreak, and the eel worm in roses, were topics brought forward by Herman June, and J. B. Hatfield, and discussed by J. B. Hatfield, Mr. June to read a paper on the action of the eel worm, and J. B. Hatfield to make the present, two shows in one year, not being advised.

—In consideration on carnations, especially Daybreak, and the eel worm in roses, were topics brought forward by Herman June, and J. B. Hatfield, and discussed by J. B. Hatfield, Mr. June to read a paper on the action of the eel worm, and J. B. Hatfield to make the present, two shows in one year, not being advised.

—In consideration on carnations, especially Daybreak, and the eel worm in roses, were topics brought forward by Herman June, and J. B. Hatfield, and discussed by J. B. Hatfield, Mr. June to read a paper on the action of the eel worm, and J. B. Hatfield to make the present, two shows in one year, not being advised.

## Orange, N. J.

The Floricultural Society of New Jersey held its regular monthly meeting Monday, Feb. 1, President McBorie in the chair, and about sixty members were present. The proposition to hold a fall show received attention. Dr. Kitchen was of the opinion that the show should be held, and fully realizing the necessity of calling in outside aid, suggested that the executive of the Memorial Hospital Committee, the Ladies of the Exhibition, and the Horticultural Society be asked to cooperate, allowing them a third of the cost. At least ten florists will attend. R. A. McKend has been confirmed to his bed for four days with kidney trouble.

R. C.

**Fumigating Greenhouses With Hydrocyanic Acid Gas.**

In the course of work on the fungous diseases of greenhouse plants we have been forced to take notice of a number of insect pests, which if left alone or destroyed by means of the sprays used, would seriously interfere with the progress of the main work in hand. Tobacco, for instance, in any form is not always safe for some crops, as under certain conditions it may render the plants more susceptible to disease.

With a view of finding an effectual means of destroying some of the more common insect pests, especially aphides, hydrocyanic acid gas has been used under the direction of Mr. Alb. R. F. Woods, on a small scale to show its entire practicability, at least in the case of violets. We recently called attention to this matter in the columns of THE FLORISTS' EXCHANGE (December, 1896, page 1193), and since this note we have received a number of requests for a full and complete explanation in calculating the space in greenhouses, amounts of materials to use, etc. For the benefit of those making the inquiries we take this opportunity of answering the questions as far as we are able.

Figures 1 and 2 show cross-sections of the two styles of greenhouse structures now in general use. The house shown in figure 1 is an even span, 75 feet long, 9 feet 6 inches wide, 10 inches on the sides, and 4 feet 2 inches from the beds to the ridge, with a walk 30 inches wide and 2 feet 10 inches deep. It is divided into triangles, accurately the number of cubic feet of space in this house, and to this draw lines from the ridge and gutter plates, as shown in the sketch, and mark the respective inches in feet and inches on each. The result is a division into triangles, rectangles, and from these the cubic contents of the house may be computed. For example, the number of cubic feet in the walk (figure 1) is found by multiplying the depth, 34 inches, by the width, 30 inches, and then by length, 75 feet, or 900 feet, and dividing the product by 1,728, the number of cubic inches in 1 cubic foot, as follows:  $34 \times 30 \times 75 = 7650$  cubic feet. To find the number of cubic feet in the space between the bed and gutter plate, multiply 9 feet 6 inches by 10 inches, then by 75 feet, and finally divide by 1,728, which will give 393.75 cubic feet. It will, of course, be understood that in making this calculation the feet must all be first reduced to inches.

The rule generally given to find the area of a triangle is to multiply the perpendicular by the base and divide the product by 2. The result of this is as follows:  $10 \times 30 = 300$ . Thus, to find the contents of the space above, multiply by six and divide the product by 2, as follows:  $300 \times 6 = 1800$ .  $1800 \div 2 = 900$  inches  $\times 2 \times 3000$  inches, or 75 feet equals 10200 cubic inches, divided by 1,728 cubic feet, the result is 589.75 cubic feet. The total number of cubic feet contained in the roof, thus, is 393.75 cubic feet multiplied by 2 equals 787.5 cubic feet. The total number of cubic feet of the dimensions given as follows:  $254 \times 393.75 = 100,425$ ;  $1,318.75 \times 2,135.41$  cubic feet.

For fumigating violets use 0.15 gram of potassium cyanide per cubic foot. Thus, a house, as shown in figure 1, would require 2136.41 x .15 = 320.3115 grams. To reduce this amount to even 1/2 ounce, the number of 14 parts of commercial sulphuric acid and 1 part water. That is, where 11.29 ounces equals 1 ounce, more should be added in such ounces by weight of sulphuric acid, and 1/2 ounce of water.

Figure 2 shows a section of a different style of house, the cubic contents of which may be determined as in the preceding. This house is 120 feet long, 18 feet wide, front wall 5 feet 6 inches, and rear wall 4 feet 6 inches. It will thus be seen that the size of a house of any given shape or style can be figured out, and the amount of material necessary to fumigate it ascertained.

After determining the number of cubic

feet the house contains, and the amounts of materials necessary to make the fumigation, arrange the ventilators so that they can be easily and quickly opened from the outside. This is absolutely necessary, as the house should be thoroughly ventilated as soon as possible after exposing the plants to the gas the desired length of time, and it would be almost certain death to re-enter the house to open ventilators. All having been arranged, lock over the house and stop all large cracks,

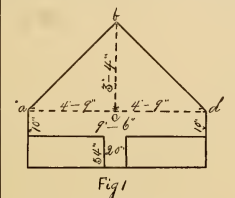


Fig 1. EVEN SPAN HOUSE. Showing method of calculating space.

bag in position, taking care that the bag does not fall into the jar before reaching the door. If, however, it should fall, hold your breath and make a rush for the door, for it will mean death to breathe the gas. Everything being in readiness when the door is reached loosen the string, allow the bag to quickly descend into the jar, and immediately step outside and close the door.

The plants should be left exposed to the gas for exactly twenty-five minutes, and

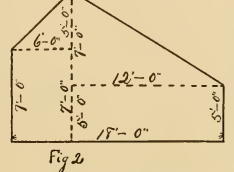


Fig 2. THREE-QUARTER SPAN HOUSE. Showing method of calculating space.

through which the gas might escape. It will also be well to close the roof from the outside. The water will fill the cracks between the glass and make it nearly airtight.

Everything being in readiness, get a 1/2 or 2 gallon earthen jar, of as small a diameter as possible, so that when the acid and water are added, the potassium cyanide will be covered. Place the jar about the center of the house, provided the latter is not over 75 or 100 feet long. If longer than this, it will be best to use two jars, placed in the walk about an equal distance from each end of the house. Tack a small stick or lath across the walk to the edges of the beds, directly over the jar. If, however, the sides of the walk are not of sufficient height to allow the bag to hang above the jar, tack a piece of board to each side of the walk, and the lath across these, as shown in figure 2. Tack a string from the junction of this stick to the door, and fasten one end of it there where it can be easily reached. Procure a small paper bag (two pound bag), large enough to hold the

then the doors and ventilators opened. This should be done from the outside, all arrangements for doing it having been made beforehand. When the doors and ventilators are opened wait 30 to 35 minutes before trying to enter the house, and even then enter with caution.

The gas should be used at night, or after the sun goes down, as the increased temperature during the day causes it to penetrate the tissues of the plant more quickly, first on account of its increased diffusibility, due to a rise of temperature, and second, because the plant has its stomata or breathing pores, open, and is taking in the gases of the air in order to make sugar. It is quite possible that if the temperature were low and assimilation could be stopped this gas could be used in daytime. In decomposed by light, but it appears from experiments so far that the gas resulting is probably very effective in killing insects, and not so dangerous to plants. However, additional experiments will be necessary before the gas can be used in this way with safety.

potassium cyanide. After placing the cyanide in the bag, tie it to the end of the string at the jar, so that it will be suspended over the lath and just above the jar, as shown in figure 3. In this way when the string is loosened at the door, the bag and contents will sink into the jar. After this is properly arranged, move the bag of potassium cyanide fastened to the string to the other side of the house, and then when putting the other materials into the jar. Then pour in the required amount of steam should arise from the jar, showing the acid is all added, a considerable amount of steam should arise from the jar, showing that the water is quite hot. If, however, this does not occur when all the acid has been added, more should be poured in to cause the desired evolution of steam. After this, carefully place the string and

then the doors and ventilators opened.

When using the gas endeavor to have the plants a little on the dry side and the temperature relatively low. Use potassium cyanide, 50 per cent. pure, and commercial sulphuric acid. The former can be procured for about 35 cents per pound, and the latter for from 3 to 5 cents per pound. At these prices the gas can be made very cheaply. It is at about 15 to 20 cent per 1000 cubic feet of space to be fumigated.

In conclusion, it may be said that, following the above method, we have found the gas very effective in killing both green and black aphid on violets. One fumigation was sufficient to thoroughly eradicate the pests from badly infested plants, and what is just as important, the houses one hour after the work was done were as sweet as if they had been exposed to fresh air.

**New Orleans, La.**

A brief visit from Old Boss will be gladly welcomed by the New Orleans grower, and check other outdoor stock. Owing to the continued warm weather (which capped the day with a hot sun, the thermometer stood at 80 degrees at noon), roses especially have been in abundance, and the grower has been able to supply as supplied from outside cities, and when Rose, H. R. H. J. E. M. M. and C. E. B. do considerable store business, but under existing conditions it is an open question as to how growing under glass, to any extent, can be made profitable here.

C. W. ECHLING is cutting some superb *Maman Cook*, grown in a cool house in solid beds. *JAS BRADY* is doing likewise. M. COOK has a magnificent crop of *Marechal Niel* roses. *Marie Henriette*, while *Briele* and *Testout* do well under similar conditions; so that I would not have some other variety. The latter is well known as a fortune awaiting anyone who thinks of taking such a venture as has been addressed to your correspondent here.

It is contended there is money in raising plants for export. The prevalence of the water hyacinth, which is a pest in this section. Mr. Virgin extends good wishes to the grower of his store, and as the nymphs germinate quickly from the seed, will soon arrive at a stock of them. His note on *Parsons* and *Mr. Fouts* experimented largely; and although this has hardly been a success, it is a good thing that *Parsons* as being quite hardy. He has left this variety, with *N. Dorothea*, outside all winter. The latter was planted early last Spring and survived a cold spell. A large tract is being converted into a lake and a stock of them will be available in kind of palm which will thrive here is being raised, and the result must be soon known. The grower has a local market, which is well equipped with a superior stock, well and creditably grown.

E. VALDELO is a highly successful grower of palms and ferns.

C. HOLST is cutting some very good *chrysanthemum* *J. Cannell*. This variety has been most profitable to him this season.

**Atlanta, Ga.**

The hottest fall experienced in this city in many years places the boys, who are all gardeners, in a quandary; it was a difficult task to keep stock alive after being planted and only now are heavy cuts recorded.

WEST VIEW FLORAL CO. were earliest to try their supply and filled all orders. Their method of growing, which tends demolishing one range, and by lengthening several houses will give them a big block.

BROOKWOOD FLORAL CO. are cutting fine stock; in fact one could hardly realize the profits of this business. The experience of the past season it is positive as good results can be obtained here as anywhere.

MR. SEALA is justly proud of his house of violets and can claim the distinction of being the first to raise *Marie Louise* in this city. *Marie Louise* are first-class. He will go into this branch here as soon as the season opens. Gardeners have done but fairly; plants failed to recover, as did the roses. It has been up to time of writing has been very fair.

C. A. DAHL CO. have had a very good season of decorating and funeral flowers. *W. W. B. Co.*, who recently lost his wife, has called for Europe for a brief visit. Mr. Ross, of New Orleans, has taken charge of the store in his absence.

W. GRISHAW, of Brookwood Co. is suffering with a severe cold. W. M.

**Jersey City.**

GEORGE KRUSE, New York Bay Cemetery, has a very nice story office. His store is nicely fitted up in every way, its size is 22x29 feet. To connect the above with the store, he has had a new building built an snook house, 30x49 feet. The work was done by Hitchings & Co.

F. H. DORSETT.



Boston.

The general tone of the flower business this week is an improvement of the past few weeks, and without any great rush in the market...

In the market stock moves a little more readily, though prices continue low. There is yet nearly a month before Lent...

Horticultural Society.

The prize exhibition of the Massachusetts Horticultural Society was not exceptionally large, but was remarkable for the extra quality of the exhibits...

EDWIN LONDALE is growing more American Beauty this season, and while not so early as the red bell, it is very promising. The familiar sight of large sprays is no more, the recent demand...

The scarcity of flowers of the past few weeks is at an end. All kinds are now in plentiful supply; in fact, in some things almost a glut is being put out.

One of the most interesting features of the most favorable season was an exhibit by M. H. Walsh, of Wood's Hill, of a dozen specimens of his new seedling lily white rose, called Norfolk...

At this meeting the prize was given to the planter of the best red rose, which was a variety to a marked degree, with their long narrow petals rich and bright...

At this meeting the prize was given to the planter of the best red rose, which was a variety to a marked degree, with their long narrow petals rich and bright...

At this meeting the prize was given to the planter of the best red rose, which was a variety to a marked degree, with their long narrow petals rich and bright...

At this meeting the prize was given to the planter of the best red rose, which was a variety to a marked degree, with their long narrow petals rich and bright...

At this meeting the prize was given to the planter of the best red rose, which was a variety to a marked degree, with their long narrow petals rich and bright...

Philadelphia.

MYRS & SAMTAN are now busy propagating Delta Fox carnation for spring stock. The plants are very fine and well with this firm. At the time of my visit, two days ago, the plants were in perfect health and good promise...

MYRS & SAMTAN are now busy propagating Delta Fox carnation for spring stock. The plants are very fine and well with this firm. At the time of my visit, two days ago, the plants were in perfect health and good promise...

MYRS & SAMTAN are now busy propagating Delta Fox carnation for spring stock. The plants are very fine and well with this firm. At the time of my visit, two days ago, the plants were in perfect health and good promise...

MYRS & SAMTAN are now busy propagating Delta Fox carnation for spring stock. The plants are very fine and well with this firm. At the time of my visit, two days ago, the plants were in perfect health and good promise...

MYRS & SAMTAN are now busy propagating Delta Fox carnation for spring stock. The plants are very fine and well with this firm. At the time of my visit, two days ago, the plants were in perfect health and good promise...

MYRS & SAMTAN are now busy propagating Delta Fox carnation for spring stock. The plants are very fine and well with this firm. At the time of my visit, two days ago, the plants were in perfect health and good promise...

MYRS & SAMTAN are now busy propagating Delta Fox carnation for spring stock. The plants are very fine and well with this firm. At the time of my visit, two days ago, the plants were in perfect health and good promise...

MYRS & SAMTAN are now busy propagating Delta Fox carnation for spring stock. The plants are very fine and well with this firm. At the time of my visit, two days ago, the plants were in perfect health and good promise...

MYRS & SAMTAN are now busy propagating Delta Fox carnation for spring stock. The plants are very fine and well with this firm. At the time of my visit, two days ago, the plants were in perfect health and good promise...

MYRS & SAMTAN are now busy propagating Delta Fox carnation for spring stock. The plants are very fine and well with this firm. At the time of my visit, two days ago, the plants were in perfect health and good promise...

MYRS & SAMTAN are now busy propagating Delta Fox carnation for spring stock. The plants are very fine and well with this firm. At the time of my visit, two days ago, the plants were in perfect health and good promise...

MYRS & SAMTAN are now busy propagating Delta Fox carnation for spring stock. The plants are very fine and well with this firm. At the time of my visit, two days ago, the plants were in perfect health and good promise...

MYRS & SAMTAN are now busy propagating Delta Fox carnation for spring stock. The plants are very fine and well with this firm. At the time of my visit, two days ago, the plants were in perfect health and good promise...

MYRS & SAMTAN are now busy propagating Delta Fox carnation for spring stock. The plants are very fine and well with this firm. At the time of my visit, two days ago, the plants were in perfect health and good promise...

MYRS & SAMTAN are now busy propagating Delta Fox carnation for spring stock. The plants are very fine and well with this firm. At the time of my visit, two days ago, the plants were in perfect health and good promise...

MYRS & SAMTAN are now busy propagating Delta Fox carnation for spring stock. The plants are very fine and well with this firm. At the time of my visit, two days ago, the plants were in perfect health and good promise...

MYRS & SAMTAN are now busy propagating Delta Fox carnation for spring stock. The plants are very fine and well with this firm. At the time of my visit, two days ago, the plants were in perfect health and good promise...

Index to Advertisements.

Table listing various florists and their advertisements, including names like Baldwin A. J., Feltch, Vincent Jr. & Son, etc.

Table listing florists and their advertisements, including names like Dole H. & Co., Dyer & Sons, Hill & Co., etc.

CORNUCOPIA EXPOSITION, NEW YORK, AMSTERDAM, 1897.

FROM MAY TILL OCTOBER.

THE COTTAGE GARDENS, Queens, L. I.

Carnations, Cannas, Chrysanthemums, Geraniums and Dahlias. SEND FOR OUR PRICE LIST.

MENTION PAPER

HEALTHY STOCK. NO RISK. Carnation Cuttings... SEND FOR TRADE PRICE LIST.

E. J. CLOUD, Avondale, Pa. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

ELDORADO The finest Violet Carnation in cultivation. Rooted cuttings, \$2.00 per 100; \$2.00 per 1000.

W. R. SHELWIRE, Avondale, Pa. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

BALTIMORE A New Pink Carnation. Color of Craig, large, stiff, fragrant; stiff stem, good keeper.

CONRAD HESS, BALTIMORE, Md. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

Carnations, Etc. HIGH GRADE ROOTED CUTTINGS. See our Price List, Florists' Exchange, Jan. 30.

H. WEBER & SONS, P. O. Box 67, OAKLAND, Md. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

The New Scarlet Carnation. Will be disseminated March 1, 1897. Get your orders in now.

HOPP & LEMKE, East Grand Rapids, Mich. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

DOOD CAROLIANS are not worth the row you give them. Grow good varieties and make a living. We have all the new and older varieties.

GEO. HANGCOCK & SON, Grand Haven, Mich. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

MINNIE COOK! Largest stock in the country of this finest of variegated carnations.

Meadow View Greenhouses, PARTISBURG, N. J. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

AMAZON Take's hand bridled. Have made this stock for the past 26 years under a great deal of labor.

BAVETY Seedling of L. McGowan & Tidal Water. Truly variegated pink and white.

SAGINAW Flower white, beautifully spotted with yellow. Beautiful and light appearance.

WYNDHAM Seedling of L. McGowan & Tidal Water. Truly variegated pink and white.

VERBENAS PIANTED CUTTINGS AND PLANTS. Fireweed, long, red, white.

VIOLETS Lady Campbell, \$1.00 per 100. Admiral Avondale, \$3.00 per 100.

JOSEPH REINHOLD, Unionville, Pa. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

CARNATIONS.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

American Carnation Society.

Arrangements are well under way for the coming meeting on the 18th and 19th inst. The programme for the meeting and entertainment will be about as follows:

Address of welcome—His Honor Mayor Caldwell.

Response—William Scott of Buffalo, N. Y.

Address of welcome in behalf of the Florists' Society—President E. G. Gillett.

Response—E. H. Michel, St. Louis, Mo. Secretary Herr's report.

Treasurer Charles H. Allen's report.

Address of President Richard Wittermeister.

Discussion of president's address.

Piper by W. R. Shelmire, Avondale, Pa. Discussion of same.

Vocal solo by E. H. Michel.

The above is for Thursday evening, at 7.30 o'clock.

Friday Morning Session.

Under the management of the Florists' Club by Henry Weber of Oakland, Md. Discussion of same.

Miscellaneous business.

There will also be a session on Friday afternoon at 2 P. M., for election of officers and selection of a place of meeting for 1898.

Thursday afternoon, at 2 o'clock, starting from the City Garden, 609 West 12th Street, the visiting florists are invited to make a tour of the Queen City in company with a new pleasure.

This trip will occupy about four hours and will give our visiting brethren a chance to see the various business enterprises.

A view of Cincinnati in general. Friday evening, at 8.30, a banquet will be given at the City Garden, 609 West 12th Street.

The Toastmaster Giesy of the Lockland Lumber Company has been working this part of it, since he came to the city.

New Varieties.

I would like to say a word in regard to new introductions. Of late there has appeared in the columns of the "Exchange" various articles in regard to the dissemination of the qualities necessary to insure their election as standard commercial sorts and

I will confine my remarks to carnations. It is now to draw the line so close as to exclude all carnations which are not good money-getters and standard sort commercially. I fear these words will not be greatly liked. Variety is a necessity. Take for instance William Scott. Of all the carnations now in the market, this has been the most profitable. It seems to thrive alike in all localities, and for this reason it is given a new name.

The late carnations which have come from the market year after year have caused its familiar form and color to become to some extent monotonous. This has to a large extent lessened its popularity, and it must be admitted that it is losing in public favor. This has caused me to believe that it will no longer be as profitable to grow in large quantities as heretofore.

It is my duty, however, to advise my friends that the new varieties which have been introduced in this variety need never go abiding, and that it will doubtless be, for some time to come, a safe and profitable investment. This is an instance of how me must be able to provide.

The era for introducing new extends into the realms of flowers as well as in everything else. If we would be abreast of the times we must cater to public taste, and so long as the public demands new things we must supply them. I am not willing to admit that we are setting our backs to the future. I believe that we are advancing steadily. The last meeting on the 19th inst. sent out every year is an indication that more and more attention is being given to the raising of flowers.

There are many things which are more experimenting now where only a few did a short time ago, and are realizing that they can pay no too small a price and bring in light some of her wonders as well

as others can. Therefore, it is not surprising to see many new varieties offered each year for trial and to be abandoned. As the case may be. Most of these new introductions are offered as improvements over existing sorts, or they exhibit sufficient good qualities to justify their owners in putting them upon the market.

That climate and locality exert a great influence over different varieties cannot be questioned; this has been noted previous many times over. The numbers and varieties that do equally well in all localities is very small, indeed. In evidence of this fact, I might say here that McGowan has never been the grand stand-by with us as it has been in other sections. I regard Uncle John as a white its superior many times over. If, therefore, a grower has a new carnation of promise, whither after trial of several years, proves itself superior to existing varieties of same color, or if the color alone is an improvement, would he not be justified in disseminating it as a reward for his pains and labor? I think so. And if, upon trial, it proves a partial or total failure in other localities, must he hold it accountable when he has judged and tested it with the best material present. I believe, would answer "No."

But there is another side to this question. It refers to the practice of disseminating varieties which do not exhibit at the place of their origination, qualities sufficient to warrant their dissemination. This may arise either from a love of money or a "kick judgment as to the necessary prerequisites of good coloration is either added to the good reputation of the originator. On the contrary, they will prove to be of inacceptable injury, and will serve to make buyers more wary of any future introduction of such a character.

A great many new carnations are being offered this year, most of which give promise of being profitable. The florists who are now considering the advisability of investing in some of these, and who wish it something like a consolation with most of us, there is very considerable interest in it. It will depend largely on the buyer whether or not investment in any of the new varieties will pay for itself. If he is alive to the requirements of the carnation, and has good success generally, he need not be afraid to experiment. His disappointment comes more often to those who, either from ignorance or carelessness, have poor success with many varieties, as they are continually looking for something they will never see; that is, a variety that will flourish and be profitable under the most adverse circumstances.

I would advise all those who can possibly spare the time and money to make one of the American Carnation Society, to be held in Cincinnati on the 18th and 19th of this month. This will give an excellent opportunity to see the new carnations which are being offered to the trade this year, as well as the most of the older varieties on exhibition. To the average widespread grower such an opportunity is all that would be necessary for him to make an intelligent selection. In addition to this the benefits to be derived from attending meetings are many. It is an opportunity in the discussions, making the acquaintance of the members of the club, will more than pay for most of the expenses of attending. To stay at home always and work is not the best way to ever prosper in the raising of this kind will prove to be beneficial that will go home with more enthusiasm for their work and desire to succeed.

GARNATIONS

...DELLA FOX AND... ANNIE H. LONSDALE.

Are being advertised a few miles south of us by their agents. We have the original stock, you would therefore advise all who are interested in reliable parties or all with us the originators.

MYERS & SAMTMAN.

WYNDHAM Seedling of L. McGowan & Tidal Water. Truly variegated pink and white.

VERBENAS PIANTED CUTTINGS AND PLANTS. Fireweed, long, red, white.

VIOLETS Lady Campbell, \$1.00 per 100. Admiral Avondale, \$3.00 per 100.

JOSEPH REINHOLD, Unionville, Pa. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

Novelties of Malmaison Carnation. Self Color... to 4 inch across, very fragrant.

Rooted cuttings, \$1.00 per 100; \$1.00 per 1000. Wm. Swayne, Kennet Square, Pa. P. O. Box 226.

CARNATIONS.

ROOTED CUTTINGS of the leading varieties, clean, healthy stock. Positively no rot. Send for price list.

WM. SWAYNE, Kennet Square, Pa. P. O. Box 226.

CARNATIONS.

Strong and well rooted, of the following varieties: Jubilee, Triumph, Armatiny, Alaska, Bethlehem, Queen of the South, Hattie McGowan, Mrs. A. B. Albright, Mont, Peach-Blow, Rose Queen, Silver Spray, Wm. Scott, Uncle John.

PRIMULAS.

Send for list and prices on large lots. Logan Ave. Greenhouses, - Danville, Ill.

Tree New Carnations.

FOR 1897.

AMAZON

Take's hand bridled. Have made this stock for the past 26 years under a great deal of labor.

BAVETY

Seedling of L. McGowan & Tidal Water. Truly variegated pink and white.

SAGINAW

Flower white, beautifully spotted with yellow. Beautiful and light appearance.

WYNDHAM

Seedling of L. McGowan & Tidal Water. Truly variegated pink and white.

VERBENAS

Fireweed, long, red, white.

VIOLETS

Lady Campbell, \$1.00 per 100. Admiral Avondale, \$3.00 per 100.

SUNSHINE GARDENS.

ALBANY, N. Y. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

# New Yellow Carnation MAYOR GREEK.

Without doubt the best YELLOW CARNATION in commerce to-day. Orders booked and filled in rotation. Delivery March 1st, 1897.  
\$1.50 per doz.; \$10.00 per 100; \$75.00 per 1000.

DECEMBER 14, 1895. Certificate at Cincinnati Meeting.  
FEBRUARY 21, 1896. Certificate at New York American Carnation Society Meeting. Only two varieties received Certificates at this meeting—Major Pinus being one of them.

**NOVEMBER EXHIBITIONS, 1896.**  
CRAIG SILVER CUP, Philadelphia, Pa.  
COMPENSATORY NOTICE, Boston, Mass.  
HONORABLE MENTION, St. Louis, Mo.  
CERTIFICATE, Indianapolis, Ind.  
CERTIFICATE, Chicago, Ill.

**CERTIFICATE**, Louisville, Ky.  
**CERTIFICATE**, Milwaukee, Wis.  
**CERTIFICATE**, Poughkeepsie, N. Y.  
**CERTIFICATE**, Worcester, Mass.  
**CERTIFICATE**, Toronto, Ont.

Young plants, **KATE WASHBURN** and **IVOIRE ROSE 'MUMS'**, \$1.00 per dozen; \$8.00 per 100. March delivery.  
**JOHN BREITMEYER & SONS,** Miami and Gratiot Aves., DETROIT, MICH.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# REINBERG BROS.

Strong, Healthy ROSES From 2 1/2 inch pots.

**AMERICAN BEAUTY** and **TESTA**..... \$1.00 per 100; \$10.00 per 1000  
**GOLDEN GATE, PERLE, BRIDE'S BELL, KALEBURN**  
and **LA PRANCE**, \$2.50 per 100; \$25.00 per 1000. No orders for less than 100 of one variety accepted. We are the largest Rose growers in the United States and have the very best stock.

**Rose Cuttings** upon application.

## CARNATIONS—Rooted Cuttings.

**IVORY and DEKAL FOX**..... \$1.00 per 100; \$10.00 per 1000.  
**ROSE QUEEN**..... 2.50 20.00  
**WM. SCOTT, DAYBREAK, NANO'S MARKS, TIDAL WAVE, ALBERTINA, PORTIA, LIZZIE SILBERT, ODORIS, BEZIE MCGOWAN, STORM KING, and SILVER SPRAY**, \$1.00 per 100; \$5.00 per 1000. No orders for less than 100 of any variety accepted.

The above stock is well rooted and free from rust. Send orders to  
**51 WABASH AVE., CHICAGO, ILLS.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**GRALLERT & CO.**  
**CARNATION GROWERS**  
COLMA, SAN MATEO CAL.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CARNATIONS**  
ROOTED CUTTINGS.

per 100.	per 100.
Hattercup..... \$3.00	Daybreak..... \$1.50
Malou Kallers..... 2.50	Tidal Wave..... 1.50
Albertina..... 3.50	Wm. Scott..... 1.50
Goldfish..... 2.50	Silver Spray..... 1.25
Rose Queen..... 2.00	River Spray..... 1.25

1000 Roses Lower.  
**GEORGE SMITH, Manchester, Vt.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# Carnations!

(Rooted cuttings ready.)  
Major Pinus, Meteor, McGowan, Daybreak, Scott, Portia, and other good ones.  
Good Healthy ROSES for Spring Stock. Send for price list.  
CUT ROSES and Carnations all in stock.  
**H. DALE** - - - - - Bampton, Ont.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# LOOK HERE.

## Carnation Cuttings

From healthy and well-growing stock.

William Scott, L. McGowan, Portia, \$1.25 per 100 \$10.00 per 1000.  
Daybreak, Anna Webb, Alaska, Albertina, Tidal Wave, Storm King, Meteor, Scott, \$2.00 per 100; \$15.00 per 1000.  
Delta Fox, Ivory, Gold Fish, \$1.00 per 100.  
Order of 200 cuttings filled at 1000 rates, not less than 100 of a kind. Cash with order.

**JAMES E. BEACH,**  
Successor to J. H. Beach & Son,  
617 Park Ave., Bridgeport, Conn.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## Carnations.

Healthy, well-rooted cuttings. Hattercup, Eldorado, Helen Keller, Scott, McGowan, Lolo C. Haezel, Grace Wilder, Portia, Cardledge, Anna Webb, Kitty Clover, Hawaii, Tidal Wave. Send for prices. No rust.

**Coleus.** Rooted cuttings. No mealy bugs. 75 varieties, ready Feb. 1st. 75c. per 100; \$1.00 per 1000, by express.

**Strobilanthes Dyerianus.**  
Rooted cuttings, \$1.00 per 100, by mail.  
Order of 200 cuttings filled at 1000 rates, not less than 100 of a kind; \$5.00 per 1000, by express.

**Lady Campbell Violets.** Rooted runners, 25c. per 100; \$2.00 per 1000, by express.

Wm. H. Search, Avondale, Chester Co., Pa.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

*Thanks.*  
Yellow Marguerite all sold that are rooted. Thanks to the Exchange. HENRY REESER, Gouverneur, N. Y., Feb. 3, 1897.

## SEEDLING CARNATIONS for 897.

**CAPT. KING.** Variegated White and Pink, an early and continuous bloomer, very fragrant and a good shipper, stems extra long and stiff, an exceedingly attractive and production variety.

**JOSEPH JEFFERSON.** Deep Pink, very large and shows flowers, on long, stiff stems, color resembling Thos. Carter's, much larger lower.

Send for Wholesale List of New and Standard Carnations. Stock Large and Healthy. NO RUST.

**C. J. PENNOCK, The Pines, KENNETT SQUARE, PA.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## BATH'S CARNATIONS

The following selection of Winter Flowering Carnations contains all the newest and most profitable market varieties yet introduced, they are all exceptionally vigorous, the flowers are large, with perfect calyx, and most profuse bloomers.

**GA RY BIRD.** Large yellow, with a bright scarlet eye, the flower is full and well formed. 5c. per doz.; 40c. per 100.

**DUKE OF YORK.** Flowers very large and full, on long stiff stems, color very rich velvety scarlet crimson, clove perfum'd. The plant is exceptionally vigorous. Certificated R. H. S., London. 4s. per doz.; 30s. per 100.

**HENRY GIBBONS.** Flowers large and full, very bright, clear crimson, continuous and very free bloomer, and of vigorous constitution. 6s. per doz.; 45s. per 100.

**LEONIDAS.** A magnificent variety, bright crimson scarlet, large flower; growth vigorous and very free. 7s. per doz.; 55s. per 100.

The above are all strongly rooted plants from 3 1/2 in. pots. Packing free, and freight paid to New York, Boston, or Philadelphia.

**Cash with Order, or Satisfactory Reference.**

## R. H. BATH, THE FLORAL FARMS, WISBECH, ENG.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## Harrison's White.

NEW CARNATION, SPORT FROM WM. SCOTT.  
\$40.00 SOLD UP-TO-DATE.  
All leading Carnationists are purchasers.  
Strong, vigorous grower, requiring no support.  
Described and illustrated in Florists' Exchange, No. 21, page 1044.  
COME AND SEE IT.  
Price: \$10.00 per 100, \$40.00 per 500, \$70.00 per 1000.  
Cash or satisfactory reference. All orders filled in rotation.

**JOHN HARRISON,** Near Midwell 739 Bergen Ave., Jersey City, N. J.  
The Boston and New York Branches are in Philadelphia, Pa. Jersey is sold at Midwell Vt. EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

*Valuable Paper.*  
Am well satisfied with results obtained from using your valuable paper. JOHN A. DOYLE, Springfield, Ohio, July 20, 1896.

## SEEDLING CARNATIONS for 897.

**CAPT. KING.** Variegated White and Pink, an early and continuous bloomer, very fragrant and a good shipper, stems extra long and stiff, an exceedingly attractive and production variety.

**JOSEPH JEFFERSON.** Deep Pink, very large and shows flowers, on long, stiff stems, color resembling Thos. Carter's, much larger lower.

Send for Wholesale List of New and Standard Carnations. Stock Large and Healthy. NO RUST.

**C. J. PENNOCK, The Pines, KENNETT SQUARE, PA.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## BATH'S CARNATIONS

The following selection of Winter Flowering Carnations contains all the newest and most profitable market varieties yet introduced, they are all exceptionally vigorous, the flowers are large, with perfect calyx, and most profuse bloomers.

**GA RY BIRD.** Large yellow, with a bright scarlet eye, the flower is full and well formed. 5c. per doz.; 40c. per 100.

**DUKE OF YORK.** Flowers very large and full, on long stiff stems, color very rich velvety scarlet crimson, clove perfum'd. The plant is exceptionally vigorous. Certificated R. H. S., London. 4s. per doz.; 30s. per 100.

**HENRY GIBBONS.** Flowers large and full, very bright, clear crimson, continuous and very free bloomer, and of vigorous constitution. 6s. per doz.; 45s. per 100.

**LEONIDAS.** A magnificent variety, bright crimson scarlet, large flower; growth vigorous and very free. 7s. per doz.; 55s. per 100.

## Harrison's White.

NEW CARNATION, SPORT FROM WM. SCOTT.  
\$40.00 SOLD UP-TO-DATE.  
All leading Carnationists are purchasers.  
Strong, vigorous grower, requiring no support.  
Described and illustrated in Florists' Exchange, No. 21, page 1044.  
COME AND SEE IT.  
Price: \$10.00 per 100, \$40.00 per 500, \$70.00 per 1000.  
Cash or satisfactory reference. All orders filled in rotation.

**JOHN HARRISON,** Near Midwell 739 Bergen Ave., Jersey City, N. J.  
The Boston and New York Branches are in Philadelphia, Pa. Jersey is sold at Midwell Vt. EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## HERR'S CARNATIONS

YOU RUN NO RISK.

If the cuttings are not satisfactory you return them at my expense.

Send me a list of what you want. Varieties.—McGowan, Alaska, Daybreak, Scott, Portia, Helen Keller, and large, Triumph, Abundance, Delta Fox, Jubilee, Storm King, and many others. Write, Cribbe, Scott, Eldorado and Cardledge.

**ALBERT M. HERR, L. B. 496 Lancaster, Pa.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## NOW READY

50,000 Healthy, Well Rooted Carnation Cuttings

Of the Following Varieties:

William Scott	1.25	10.00
Tidal Wave	1.00	10.00
Daybreak	1.00	10.00
Anna Webb, J. J. Harrison, Bride's Bell, Daisie Albion, Lizzie Gilbert, Robinson, and Arcangelus, at \$2.00 per 100, \$15.00 per 1000.		
Storm King	1.25	10.00
Portia	1.10	10.00
T. Wave	1.10	10.00
Mr. Fisher	1.25	11.00
Meteor	1.50	12.50
Eldorado	2.00	20.00
Alaska	1.50	12.50
Anna Webb	1.50	12.50

By mail 10 cents per 100 additional. Cash with orders from unknown correspondents.

**James Horan & Son, Bridgeport, Conn.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## ROOTED CUTTINGS. CARNATIONS.

	Per 100	Per 1000
Wm Scott	\$1.00	\$10.00
Lizzie McGowan	1.00	10.00
Daybreak	1.50	12.50
Storm King	1.50	12.50
Portia	1.10	10.00
T. Wave	1.10	10.00
Mr. Fisher	1.25	11.00
Meteor	1.50	12.50
Eldorado	2.00	20.00
Alaska	1.50	12.50
Anna Webb	1.50	12.50

**EDW. J. TAYLOR,**  
TRADE: Wholesale Carnation Grower, Cash or Reference. NEW YORK  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## 95,000 CARNATIONS ROOTED CUTTINGS

Bride of Erienshow, Rose Queen, Silver Spray, \$1.50 per 100. Meteor, Storm King, \$1.25 per 100. William Scott, Daybreak, Lizzie McGowan, \$2.00 per 100. Helen Keller, \$1.50 per 100. Portia, \$1.50 per 100. Delta Fox, Ivory White, \$3.00 per 100. 50,000 Rooted Rose Cuttings, best varieties. Seed for names and prices, 15,000 White Mammoth Verbenas, 25c. per 100. 15,000 Mixed Collection Verbenas, 25c. per 100. 50,000 White Self-branching Verbenas, \$1.50 per 100. 50,000 Christmas trees, 20 varieties from \$5.00 to 55 per 100. 50,000 Lettuce Plants, 20c. per 100, 20c. per 1000.

**ROOTED CUTTINGS**  
20,000 Double White Violets. 25 per 100. 20,000 Double Violets. 25 per 100. 25,000 White Violets with all colors. Place orders, 75c. per 100. Cash with all orders. Free list on request.

**M. GOVULU, Wabasha Street, New York, Pa.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# Famous Carnation in Delta Fox

Should be grown by everybody. The past season must have taught it growers that the high-class Delta Fox Carnation is the most profitable in the world. Delta Fox stands above them all for size, color and stems. Rooted cuttings ready now. MYERS & SAMTMAN, Wyndome, Chestnut Hill, Phila.

## SITUATIONS WANTED.

**Mrs. J. J. Crane** has a specialty in indoor plants, both with order. This raises applies only to plants, and is not to be taken as an offer to sell, without display. When letters are addressed to our care send to receive our examination of arrangements.

**SITUATION** wanted by an experienced orchid grower, and expert in the culture of all plants. Excellent references. W. H. care Florists' Exchange.

**CARDENEL, German**, single, competent in all kinds of floriculture, with specialty in plants. 20 years experience, wants position. Y. Florists' Exchange.

**SITUATION** wanted by first-class rose grower and expert in all kinds of floriculture. Address: W. W. care Florists' Exchange.

**CARDENEL, single, German**, wants to take charge of greenhouse, and to help in doing there. Unexceptional references. Gardener, 165 E. 53d st.

**SITUATION** wanted by florist, married, good reference, and good experience in all kinds of floriculture, and good decorator, etc. Private place preferred. Address: H. T. S. Newark, Pa.

**SITUATION** wanted as foreman in commercial establishment. By an up to date successful grower of floriculture. Age 40, married, first-class references. Arthur B. Wheeler, care Geo. E. Fairmount, Box 265, Wilkes Barre, Pa.

**CARDENEL, married**, small family, excellent grower of rose, winter-flowering, bedding and ornamental plants, and all kinds of floriculture. Address: 235 W. 105th Street, New York City.

**SITUATION** wanted by a competent German florist, with 25 years experience in all kinds of floriculture in United States and Europe. Understands how to grow all kinds of plants. Excellent references. Address: 214 W. 11th St., New York City.

**EXPERT** sought on practical part of ornamental floriculture, posted on all requisites of commercial floriculture, and all kinds of floriculture. Address: 214 W. 11th St., New York City.

**HELP WANTED.**

## WANTED.

A good man to work about 7000 feet glass on shores. For particulars address:  
Florist S. Florists' Exchange.

## WANTED.

An experienced active plant clerk, with good appearance; must be conversant with shipping, and a hustler with men. Address  
Plantman, care Florists' Exchange.

## WANTED.

A competent person with small capital to start hothouse business in country town, 50 miles from city. An excellent chance for permanent business to a steady, practical party. Apply by letter only to:  
S. W. A. Florists' Exchange.

## GREENHOUSES AND LAND.

## FOR SALE!

## 8 Greenhouses, Consisting of

1	18x35
2	18x35
3	18x35
4	18x35
5	18x35
6	18x35
7	18x35
8	18x35

In all about 20,000 square feet of glass, partly heated by steam and partly by hot water. Watering is done from the open end of Central Valley Water Works. The houses are situated in Central Valley of the Newburgh short cut, near Redford, in each reach of the New York Flower Market. Original cost \$15,000. Address: S. B. 240, Albany, N. Y.

**OTTO ANDRE, Central Valley, N. Y.**

## Fires.

**BATONNE, N. J.**—A blaze occurred in the establishment of C. Crane on January 28, destroying the greenhouses and other buildings. It originated in the furnace room. The fire was being kept maintained to keep the greenhouses at the proper temperature. Mrs. Crane was burned slightly about the face, and while rescuing the family cow from the blazing shed. Owing to the heavy fall of snow the fire department was delayed in getting to the fire. Hundreds of plants were killed. The loss was \$9000. He had inadvertently permitted the insurance to lapse.

## FOR SALE CHEAP.

Extra good second-hand 3 and 4 inch pipe for hot water heating.

W. H. SAULTER, Rochester, N. Y.

## FOR SALE.

40,000 FLOWER POTS, 2 inch, good new, \$2.00 per 100.

ED. NIXON, Chattanooga, Tenn.

## GREENHOUSES and LAND.

## FOR SALE.

30,000 feet glass, well stocked; must be sold because of ill health. Only greenhouses in city, 1000 feet of glass, 2000 ft. of glass. For particulars, address: 214 W. 11th St., New York City.

## FOR SALE OR RENT.

3 greenhouses, 10 by 15 ft., 5000 feet glass, heated by hot water. Located in Hudson River Valley, near Newburgh, N. Y. For particulars, address: 214 W. 11th St., New York City.

## FOR SALE AT A BARGAIN!

A large and very complete greenhouse plant, 20,000 square feet of glass, modern steam heat, thoroughly well built and in first-class working order; also a complete Hudson River Valley, roses, etc.; a regular established and paying business, 4 acres or more A. L. land, with dwelling and abundant water. Just outside city limits. Other business chance of selling. Address: O. W. Doty, New York, Pa.

## TO LEASE.

On account of owner going abroad for a number of months, the owner of a 20,000 sq. ft. greenhouse will lease to a responsible party for their property. Inquire of Ed. Nixon, 214 W. 11th St., New York City.

JOHN HENDERSON CO., Flushing, N. Y.

## FOR SALE.

A new greenhouse property of nearly 6000 feet of glass, double thick, in the center of a beautiful 20-acre tract, located in Hudson River Valley, near Newburgh, N. Y. For particulars, address: 214 W. 11th St., New York City.

JOHN HENDERSON CO., Flushing, N. Y.

## FOR SALE.

A new greenhouse property of nearly 6000 feet of glass, double thick, in the center of a beautiful 20-acre tract, located in Hudson River Valley, near Newburgh, N. Y. For particulars, address: 214 W. 11th St., New York City.

JOHN HENDERSON CO., Flushing, N. Y.

JOHN HENDERSON CO., Flushing, N. Y.

JOHN HENDERSON CO., Flushing, N. Y.

JOHN HENDERSON CO., Flushing, N. Y.

JOHN HENDERSON CO., Flushing, N. Y.

JOHN HENDERSON CO., Flushing, N. Y.

JOHN HENDERSON CO., Flushing, N. Y.

JOHN HENDERSON CO., Flushing, N. Y.

JOHN HENDERSON CO., Flushing, N. Y.

JOHN HENDERSON CO., Flushing, N. Y.

## FOR SALE.

FLORIST ESTABLISHMENT and LAND.

Located at Elm Grove, Wis.

Consists of 15 acres of land, in some of the best soil, 20 acres well wooded and 20 acres well wooded. The buildings, including the main building, are in first-class condition. The land is well watered. The business is well established and profitable. For particulars, address: 214 W. 11th St., New York City.

JOHN HENDERSON CO., Flushing, N. Y.

JOHN HENDERSON CO., Flushing, N. Y.

JOHN HENDERSON CO., Flushing, N. Y.

JOHN HENDERSON CO., Flushing, N. Y.

## Providence.

## The Market.

During the past week it has been almost impossible to get around on account of the immense amount of snow that has fallen all day, and it has been the worst that has been experienced here for 30 years, and interfered materially with the business of the florists. The general business in cut flowers has fallen off, but the great demand for funeral work is still very large. The florists' work in the stores have been very busy. The only social event of the week was the press reception given to the florists by the association, the extensive floral and table decorations being furnished by E. J. Johnson.

Carriages have so far been in sufficient supply to fill all demands, and have been made up among whites and Daybreak on account of funeral work, there has been a scarcity, and for the first time in many weeks a requisition has been made on the hire.

Roses continue to sell well, but there is a great dearth of first grade stock. There is an increasing improvement in this respect, however, and prices are stiffening up to a corresponding extent.

Violas remain in good quality, and are well sold. The demand for this stock of violets has been very large, and prices are 10 per cent. higher than last week. The demand for this stock of violets has been very large, and prices are 10 per cent. higher than last week.

Mr. Sullivan has removed from 270 to 70 Westmain street. He reports excellent run of business since biweekly.

George CAMPBELL, wire worker, has removed from 270 Westmain street to 113 Union street.

ROBERT HOOB has returned from a three months' trip through England and Scotland.

Eugene McCarron, the East avenue florist, has returned with an addition to his family. It's a boy.

Mr. Buswell, with Walter A. Potter & Co., is a very proud father of a boy, born the past week.

Charles Jordan has entered the employ of John Johnson as assistant bookkeeper and collector.

Walter Mot, M. Renkoff of H. Byers, and John and L. B. Manda were with the past week.

W. H. MASON.

## Sharon, Pa.

JOHN MURCHIE'S new creation, a "port of Tidal Wave, promises to attract some attention for its manifold merits. It is a bright scarlet, being a shade lighter than Portia; a strong and vigorous blooming with full foliage, a perfect double flower and a very large and heavy measuring 12 inches in diameter. It is Mr. Murchie's intention to give it in February, but he is not putting it on the market.

As an orchid grower, Mr. Murchie is very successful, and his collection comprises, among others, *Corymbium cristatum*, *Dendrobium spectabile*, *Dendrobium Phalaenopsis*, *Phajus grandiflorus* and *Phalaenopsis Schilleriana*. He has a very nice collection of Pithia orchids, though now and then he can sell all he cuts in Sharon, as well.

Enslaved is unusual, but the snow blizzards and the extremely low temperature of the past few days being no doubt, in a measure, accountable for its temporary stagnation.

ITINERANT.

## Sandusky, Ohio.

A marked change for the better is noticeable all along the line, the volume of business transacted by the florists during the past week or two surpassing that of any previous season. The improved market conditions at this season of the year certainly point to a very successful and a good general property and that the hard times will soon become a thing of the past. It is very remarkable that the corresponding is not the only one to "indulge" in such radiant views. I have during the past week seen a number of florists, choosing for the purpose the most conservative element, who signed their names to the fact, that we will all soon be "on our feet again."

Mr. J. C. Gooding, Jr., for a number of years connected with the B. A. Elliott Co.

of Pittsburgh, who about a year and a half ago started a business here, has ample cause to congratulate himself upon the success of his venture. He has been in the floristry short space of time. Besides his flower store and adjoining conservatory on the corner of the main and 11th streets, he has five houses, each covering 100x20 feet, for roses and carnations, and one for violets, and another for geraniums and other plants, and west, with the short span to the south, being well built and equipped with the best material and the most modern feature introduced, and one which is likely to mark a new departure in the arrangement of the florist's houses. The plan is described. Unlike the generally adopted way of joining the side benches to the main benches, the side benches are separated from the latter by a space 2 feet wide, the idea of this innovation being the introduction of two paths in a house instead of the usual two, thereby enabling his men to work to better advantage about the plants. Mr. Gooding also thinks that the plants themselves, by being kept from close proximity to the walls, will gain vastly by it.

Mr. Gooding intends to tear down his Columbus avenue conservatory immediately and build a new one, which will be a heated modern 75x40 structure, with its dined roof, stained glass doors, etc. It is to be very bright and airy, and will contain houses in the spring for palms and ferns.

Mr. Mator, the veteran florist, has been on the road for some time. He is reported at last reports, he is said to be slowly improving.

ITINERANT.

**Buffalo.**

Business hints.

A morning report of weather from the previous cold snap has helped business somewhat. There was a fair demand last week for flowers by nurseries. But the line of entertainments and decorations trade is at a standstill.

Some of our retail men are complaining early about collections this Winter, which has a depressing effect upon any otherwise promising business.

Flowers are quite plentiful for the demand. Roses, carnations, violets, etc., are abundant and cheap. The demand for all lines, giving the buyer full scope as regards variety; even orchids are beginning to appear in the market.

Stringent times, with moderate business, constrains to reduce prices to the consumer. The price of carnations is 20c per dozen, "daffodils, 50c per dozen," are not an uncommon sight in the market.

On Thursday last week a trial consisting of Professor Cowell, William Scott and George Long made a visit to the florist's son's extensive place at Lancaster. The gentleman there was found in high spirits, being in excellent health. From the general appearance of his new noted high-colored La Reine tulips and the good quality of his Broomsticks. Beauty also showed up well.

While, of course, the extra character of Palmer's Daybreak has become local history.

Mr. Palmer's Daybreak has become local history.

Mr. Palmer's Daybreak has become local history.

Mr. Palmer's Daybreak has become local history.

Mr. Palmer's Daybreak has become local history.

Mr. Palmer's Daybreak has become local history.

Mr. Palmer's Daybreak has become local history.

Mr. Palmer's Daybreak has become local history.

Mr. Palmer's Daybreak has become local history.

Mr. Palmer's Daybreak has become local history.

Mr. Palmer's Daybreak has become local history.

Mr. Palmer's Daybreak has become local history.

Mr. Palmer's Daybreak has become local history.

Mr. Palmer's Daybreak has become local history.

Mr. Palmer's Daybreak has become local history.

Mr. Palmer's Daybreak has become local history.

Mr. Palmer's Daybreak has become local history.

Mr. Palmer's Daybreak has become local history.

# NEW

## Chrysanthemums

Our Descriptive TRADE LIST has been mailed.

If it has not been received THE ASKING will place it on your desk.

**Carnations**  
**Violets**  
**Roses**

**N. B.—200 SOUV. DU PRESIDENT**  
**CARNOT** Roses, from 2 1/2 to 3 in., in the best of condition, ready to shift. Price for immediate delivery on application.

**NATHAN SMITH & SON,**  
ADRIAN, MICHIGAN.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

## New Chrysanthemums

FOR 1897.

- Elainora \$3.50 per doz.
- Loantika \$25.00 per doz.
- Leonidas 25.00
- Elvena \$5.00 per doz.
- Symphonia \$35.00 per 100.
- Evangeline \$6.00 per doz.
- \$40.00 per 100.

**JOHN N. MAY, Summit, N. J.**

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

## DEFENDER

## NEW CHRYSANTHEMUMS

**DEFENDER.** Bright Dark Crimson, reflexed, does not show under side of petals. 3 1/2 ft. size, 9 inches stout stem, good foliage up to the bloom, easy to grow. Best Crimson to date, N. C. S. Certificate. 50c. each; \$5.00 per doz.; \$35.00 per 100.

**GEO. S. KALB.** Early White, Oct. 2d. Slightly reflexed, 3 ft. size, 6 to 7 inches stout stem, good foliage to the bloom. We have grown this 3 years and find it best all around Early White we have seen, N. C. S. Certificate. A money maker for you. 35c. each; \$3.50 per doz.; \$25.00 per 100. Distribution March 1.

CASH OR SATISFACTORY REFERENCE.

**Fisher & Ekas, Toll Gate, Belair Ave., Baltimore, Md.**

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

## GOOD STOCK

	Per doz.	Per 100
ADIANTUM CUNEATUM, 3 in. pots.....	\$1.00	\$8.00
CHRYSANTHEMUM FRUTESCENS HALBERTI AUREA, the new yellow Fern Daisy. Fine color, free bloomer; a grand seller. Strong plants from 2 1/2 inch pots.....	1.00	8.00
CYCLAMEN PERSICUM, 3 in. pots.....	0.75	5.50
DRACENA FRAGRANS, 5 in. pots.....	2.00	20.00
LATONIA BORBONICA, 4 in. pots, 12 inches high, 5 to 6 leaves.....	2.00	15.00
LATONIA BORBONICA, 4 in. pots, 4 to 5 ".....	1.25	10.00
LIBONIA PENNSYLVANICA, 4 in. pots.....	1.25	10.00
FRISULA OBSCURA, 3 in. pots.....	1.75	5.00

### COLEUS OUR SPECIALTY.

We will have 100,000 extra strong clean rooted cuttings of Coleus, Golden Bedder, and Verschaffelti, good for 2 1/2 or 3 in. pots during the months of February, March and April at \$1.00 per 100, \$7.50 per 1000, \$5.00 per 1000 in 5000 lots and over; 2 1/2 in. pots, \$2.00 per 100.

### 20,000 CANNAS.

Alphonse Bouvier, Capt. F. de Saxeval, Chas. Henderson, Explorator Crampbell, Florence Vaughan, Mme. Crozy, Miss Sarah Hill, Eldorado, Queen Charlotte, Admiral Avellan, Souvenir d'Atouine Crozy, Comte de Bouchard, Mme. Montefiore, Helen Gould, Sunbeam, Sunbeam, J. R. Pierson, Oriole, Mme. Alphonse Bouvier, Columbia, Van der Berg, Miss Chas. Mollin, Ekemann and Professor.

### BEDDING PLANTS,

Orders booked now for rooted cuttings of all kinds of bedding plants. Write for prices.

### ASPARAGUS PLUMOSUS,

Strong 3 year old plants from bed, \$5.00 per doz., \$50.00 per 100.

Stock is in good condition. CASH with order from new customers or C. O. D.

Orders amounting to \$5.00 and over F. O. B. N. Y. City.

Special Trade List Free on Application.

**SEAWANHAKA GREENHOUSES, Oyster Bay, Queens Co., N. Y.**

JAS. C. CLARK, Supt. P. O. BOX 34 WM. J. SWAN, Proprietor

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

## CHRYSANTHEMUMS.

MARCH 1st.

All the Leading Novelties, also strong sturdy Rooted Cuttings of following splendid varieties of 898.  
Mosses, Mrs. Perrin, Glory of the Pacific, Pink Ivory, Wm. Simpson, Ruth Ellis, Liberty, Helen Wright, Yonoma, Voiescent, Benj. Girard and others. All the standard commercial sorts, in the healthy condition.

### CARNATIONS.

March 1st. All the Leading Novelties. Ready now. 10,000 Alaska, at \$2.00 per 100 \$15.00 per 1000. 10,000 Wm. Scott, at \$1.50 per 100 \$10.00 per 1000. These are nice sturdy cuttings. Cash with order.

**THEO. F. BECKERT,**  
NEWELL ISLAND, GREENFIELD, PA.  
WHEN WRITING MENTION THE FLORIST'S EXCHANGE



I am again ready to quote prices and book orders.

NOVELTIES AND STANDARDS in great variety. Prices lower and stock better than ever. Try our tender—John Ehrlich, CATALOGUE FREE.

W. W. WILMORE, Box 382, Denver, Colo.  
WHEN WRITING MENTION THE FLORIST'S EXCHANGE

## ...NEW GIANT...

**CALIFORNIAN DAISY.**  
Very strong rooted cuttings (now ready), \$1.00 per dozen; \$5.00 per 100.

**RUDOLPH FISCHER, Great Neck, L. I.**  
WHEN WRITING MENTION THE FLORIST'S EXCHANGE

## 100,000 VERBENAS.

THE CHOICEST VARIETIES IN CULTIVATION.

Fine pot plants, \$2.50 per 100; \$20 per 1000. Rooted Cuttings, 75c. per 100; \$5.00 per 1000. \$50.00 per 10,000.

\* NO RUST OR MILDEW \*  
Packed light and satisfaction guaranteed. Send for circular.

We are the largest growers of Verbenas in the country. Our plants cannot be surpassed. Mention paper.  
..... J. L. DILLON, Bloomsburg, Pa.

# PANSIES! PANSIES!!

Being the largest grower of Pansies in Europe, I can offer carefully selected seed of my choice strains at a very moderate rate. The quality is quite equal if not superior to that of any other European house.

**BATH'S EMPRESS.** My own strain of Fancy Pansies, comprising the magnificent varieties specially selected for the Queen, the flowers are large, of good substance, and the colors very bright and varied. In sealed packets 6c. 9c. and 15c. per doz.; (retail, 1c., 1s. 6d. and 2s. 6d.)

**BATH'S MONARCH.** The largest Pansies grown, in a variety of rich colors. In sealed packets, 6c. 9c. and 15c. per doz.; (retail, 1c., 1s. 6d. and 2s. 6d.)

**BATH'S FANCY EXHIBITION PANSY.** Saved from named exhibition dovers only. In sealed packets, 6c., 9c. and 15c. per doz.; (retail, 1c., 1s. 6d. and 2s. 6d.)

**BATH'S IMPROVED GIANT YELLOW.** Large flowers of good substance. 4s. per oz.; 50s. per lb.

**LORD BEACONFIELD.** Purple, top petals shading to white, splendid. 1s. 6d. per oz.; 25s. per lb.

**GIANT PURPLE.** Large velvety purple. 3s. per oz.; 40s. per lb.

**CLEVEDON YELLOW.** Golden yellow, slightly rayed black, a splendid bedding variety. 2s. per oz.; 25s. per lb.

Cash with order or satisfactory reference.

**R. H. BATH, THE FLORAL FARMS, WISBECH, ENG.**

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

❖ BIGGER THAN EVER ❖

## The Grand New Giant Californian Daisy

(*Chrysanthemum frutescens giganteum*) CERTIFICATED.



LIFE SIZE CUT (4 1/2 inches in diameter.)

2-in. Pots, 20c. Each; \$1.75 Per Doz.; \$12.00 Per 100.

Price List of Best Varieties of Chrysanthemums, Roses, Carnations, Etc., Forwarded on Application.

**CARRETT & ROSE,**

200 WEST SIDE AVENUE, JERSEY CITY, N. J.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**Grand Rapids, Mich.**

At the last meeting of the Florists' Club the entire evening was devoted to carnations. The attendance was large, every member being present. Many growers responded to the invitation of the secretary to exhibit their new varieties of carnations.

George Hancock & Son of Grand Haven, Mich., exhibited the following: 'F. P. Fish', 'L. Hubbe', 'D. Bredemaid', 'Armadillo', 'Ivanhoe', red seedling very large. C. A. Dana was also exhibited by being having traveled all the way from New York, and although it had been in storage seven days before the meeting it was still in fresh and crisp condition and was cut. Mr. Hancock also had on exhibition a yellow seedling which promises to be very fine variety, and is believed to a clear golden yellow yet seen here. He gave the Club a very interesting talk on all the varieties which he received with applause.

E. O. Hill & Co., Richmond, Ind., exhibited their new white, Flora Hill; there were fifty blooms which were remarkable for their size. This is a perfect flower, having long calyx, good stiff stem, and is claimed by the introducer to be the most profuse carnation grown.

James Hunt of South Co., Lafayette, Ind., exhibited a pink variety, Mrs. C. H. Duhme. This is a very fine, large flower and the color is that of the most delicate pink, good stem and very fragrant. They also sent Mrs. George M. Bradl, which as a variegated carnation, seems to be the finest striped thus far introduced. It is a large flower, having a good stem and was admired by all present.

Hoppe & Lemke, East Grand Rapids, had fifty blooms of their new scarlet 'Corolla'; the flowers were very good and being a Grand Rapids variety, of course, we think it the best scarlet in carnations.

Bredimere & Smith, Grand Rapids, exhibited their new yellow 'Mayor Pingree'. Crab & Hunter of Grand Rapids, had several varieties of red, pink and variegated, being first year seedlings; they were very good and promise excellent results. Mrs. Crab had a paper on new carnations, naming the varieties which he thought best adapted for Grand Rapids growers. His paper brought out an extensive discussion, which was very profitable and interesting.

Henry Smith and the Grand Rapids Florists' Club had a good display of Rose Queen, Bredimere's, Scott and other varieties.

All the exhibits were fine and the Florists' Club took it as a compliment that florists from other cities went to the trouble and expense of sending their productions to the meeting.

James Hancock tendered the club an invitation, which was accepted, and the club will hold its first meeting in March at Grand Haven.

The Stover Floral Company have traded their city place for six acres of land, and 15,000 feet of glass at Grandville, Mich., and will take possession on or about July 1. They expect to do a wholesale business, principally in carnations, violets, and ranunculus.

The next meeting of the club will be a violet meeting. WENCIL CUCIERSKI.

The annual banquet of the club was held in the Eagle Hotel Jan. 28. There were 120 guests present and the affair was one of the happiest ever enjoyed by the club. The table decorations were, of course, all that good taste and artistic profession of the choicest of flowers could make them. Charles W. Garfield was toastmaster and performed the duties in his happiest manner. Henry Smith, the president of the club, responded to "Catching the Train," "The City Parks," "Benjamin's Flying Ball," "George F. Crab," "I Never Remembered It Pours," Wencil Cucierski, "The City Parks," "Hills to Pleasant," "The Boys," Henry Van Velden, "How to Boss the Boys," James Schlos, "Night Fishing," F. A. Chapman, "Hills to Pleasant," "The Ladies," Jean Goble, "The Fortune in Selling Plants," N. B. Stover, "Who Composed the Florists' Club," C. C. Cushman, "Fun in Working All Night," J. K. Johnson, "How to Beat a Board Bill," Mrs. Sarah Smith, "Woman as a Florist," Mrs. Evelyn Arnold, "Pleasure in Reporting," Fred North, "When the Wind Whirls Down," Miss Lena Belle Bridgman sang and recited; Miss Jessie Gibbs gave two humorous recitations; Professor Cornelius played a piano selection; Little Gracie Hogan, a beautiful little five-year-old mulatto girl, gave a series of Delsarte postures.

**TUFF STUFF ON GREENFLY IS TOBAC-OIL.**

**DELAWARE COLLEGE AGRICULTURAL EXPERIMENT STATION.**

DEPARTMENT OF HORTICULTURE AND ENTOMOLOGY.  
 U. HAROLD POWELL,  
 HORTICULTURIST AND ENTOMOLOGIST.  
 NEWARK, DE., Dec. 15, 1896.  
 M. A. PULLEN, Milford, Delaware.  
 Dear Sir: This is to certify that I have examined a large number of trees and plants in your nursery and find that you have selected and raised a fine peach variety, peach called 'Red Boy' and have been successful in doing any of the above activities or any other injurious insects or diseases.  
 Yours very truly,  
 U. HAROLD POWELL,  
 HORTICULTURIST AND ENTOMOLOGIST.  
 Delaware College Agricultural Experiment Station.

**PEACH & PLUM TREES FOR SPRING DELIVERY, 1897.**

Reliable and clean stock in low wholesale prices. SEND FOR NURSERY CATALOGUE.

**ASPARAGUS ROOTS.**

3 and 5 Years, strong.

ALEXANDER PULLEN, Milford Nurseries, MIL FORD, DEL.

**GRAPEVINES**

All old and new varieties. Extra quality. Vines and fruit. *Zinfandel, Small Fruit, Concord, Catawpa, Delaware, Foxglove, Hubbard Co., KRONKA, LA.*  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

**THE MONEY MAKER.**

WORTH \$100.00 a year and more to all who cultivate Land, a Garden, Orchard or Greenhouse; covers, in plain language, by practical men, the raising of Fruits, Vegetables, and Plants generally, for table and market purposes, and tells how to make Home Grounds attractive.

**AMERICAN GARDENING**

An Illustrated Weekly Journal devoted to Gardening and Fruit Culture in the Open and under Glass, and Record of Current Events in Horticulture. Established Fifty Years. Every Saturday. 16 to 24 Pages. \$1.00 a Year.

**WITH HANDSOME PREMIUM.**

Offices: Rhinelander Building, 2 to 8 Duane St., New York.

THERE is no paper published which so systematically teaches how to make money in working the soil, explaining all methods that make it yield freely, and render its products of extra value on the markets. AMERICAN GARDENING fills all wants in this direction and includes all that is worth knowing. It shows the profits to be obtained from

**Fruits, Vegetables and Plants**

**Under Intensive Cultivation By Glass and In The Open.**

The man who tills the soil for a living must now look to the close and careful cultivation of Choice Fruits and Vegetables on small areas of ground—intensive cultivation as against extensive cultivation.

AMERICAN GARDENING is the only paper published which is exclusively devoted to Intensive Cultivation.

**FREE Read Our Unsurpassed Offer:**

To introduce it to NEW readers we will send AMERICAN GARDENING for three months (12 numbers) to any address on receipt of TEN CENTS in stamps or coin. Sample free.

Subscriptions to be discontinued at the expiration of that time unless you notify the publishers to the contrary. This offer is open only to those who are not PRESENT SUBSCRIBERS to this Journal.

AMERICAN GARDENING, - P. O. Box 1697, NEW YORK.

NOTE: We will allow 25 per cent. discount on yearly subscriptions at \$1.00 forwarded by subscribers to the FLORISTS' EXCHANGE.

**COMMONWEALTH OF PENNSYLVANIA. DEPARTMENT OF AGRICULTURE.**

FLORADALE, PA., Oct. 17, 1896.  
 TO WHOM IT MAY CONCERN: This is to certify that I have seen the 12th day of October, 1896, and inspected the nursery stock of C. L. LONGDORF, grown at Floradale, County of Adams, State of Pennsylvania, and found no indication of the presence of 'Black Knot Disease', 'Rosette', 'Yellowing', or other injurious insects or diseases; that might be transmitted to nursery stock from the nursery to the orchard or garden.  
 (Signed) G. W. GROFF, Special Agent.

**50,000 PEACH** to offer at lowest prices.

C. L. LONGDORF, Floradale, Pa.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

**IF YOU IMPORT ANY FLORIST OR NURSERY STOCK,**

Don't forget to ask for Van Pelterson and Kerbsner's (Hoskoc's, Holland) price list.

LOUIS VAN KOERT, General Agent, 295 Dorchester Street. - So. Boston, Mass.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

**STRAWBERRY PLANTS** Thirty best varieties.

No. 1 plants, cheap. Golden Queen Raspberry, extra strong, \$5.00 per 100; \$2.00 per 500. Moore's Early Grape, No. 1, \$1.50 per 100; \$5.00 per 500. Moore's Early, No. 2, year, No. 1; extra at \$1.50 per 100; \$5.00 per 500. Raspberry plants, small fruit, best quality, at low prices. For price list address CHAS. BLACK, Hightstown, N. J.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

**Palms & Flowering Plants**

Just what YOU WANT!  
 Kestler, Apple, Lettuce, Cucumbers, Armarucos, Cress, and white. Rhubarb, Asparagus, Celery, and other. H. B. Fox, Thos. J. Princes, and other.  
 JOHN SCHULTEIS, College Point, L. I.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

**LARGEST STOCK OF PEACH TREES**

In the State of Delaware.

For the spring trade our new bud, Sa. Jose Scale and Yellows have never been known to hurt this part of the State.  
 R. S. JOHNSON, Box 50, Stockley, Del.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

**DEUTZIA GRACILIS.**

Extra strong, for Easter forcing. 16 for 6 and 7 in. pot, \$12.00 per 100; \$1.50 per doz.

Cypress Alternifolia Gracilis, from 25c. in pot, cash with order.

Address, JOHN C. EISEL, PHILADELPHIA, PA.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE.



**CLEAN CITY Strawberry**

Purest flavor; large and solid. Four seasons. Donald's Elmira Asparagus Root is a new production of fine root. Greenhouse Peach, Japan new production of fine root. Plants, Japan, Florida, etc. Each Seed. Catalogue FREE. HARRISON'S 318 HICKMAN, N. J.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

**JACKMAN'S CELESTIAS.**

Strong Plants for Express Orders. Also Plants. From 3 inch Pots, Fine for Mailing.

WRITE FOR PRICES.

GEORGE BROS., - East Penfield, N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

10,000 California Privel, one year old, 15 to 20 inch branches, at \$1.50 per 100; \$10 per 1000.

Double Pearl Tuberose Bulbs, No. 1-4 to 6 inch, \$7.00 per 1000. No. 5-8 in. good flowering bulb, 50c. per 100; \$5.00 per 1000, all packed to carry without extra charge.

CHAS. BLACK, Hightstown, N. J.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

**FOR EASTER**

FOR EASTER FLOWERING SHRUBS: Lilacs, Staphyleas, Deutzias, Snowballs, Kalmias.

ROSES, H. P. and others. Tree-roses, Clematis, Paeonias, Hydrangeas, Hardy Azaleas.

L. C. BOBBINK, Rutherford, N. J. Branch Horticultural Co., Boskoop, Holland.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

**P. OUWERKERK,**

1123 Summit Ave., Jersey City, N. J.

Just received from our Holland Nurseries:

RHOODENDRONS, AZALEAS, SPIRAEA JAPONICA, LILUM SPECIOSUM, PAEONIES, BLEEDING HEART.

POT GROWN LILACS, HYDRANGEA IN SORTS.

CLEMATIS and H. P. ROSES, in the best sort.

PRICES MODERATE.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE.



Cut - Flower - Commission - Dealers.

J. K. ALLEN, Wholesale Commission Dealer in CUT FLOWERS, 57 W. 28th St., New York.

FITZGERALD & HAMMOND, Wholesale Commission Dealers in CUT FLOWERS, 115 West 30th Street, New York.

FORD BROS. WHOLESALE FLORISTS, 111 West 30th Street, NEW YORK.

WM. H. CUNTER, Wholesale Florist, VIOLETS and CARNATIONS a SPECIALTY, 30 West 29th St., New York.

MICHAEL A. HART, Wholesale & Commission Florist, 118 W. 80th St., New York.

H. A. HOFFMANN, Wholesale Florist, 54 W. 28th St., NEW YORK.

EDWARD C. HORAN, Wholesale Florist, No. 34 W. 29th St., New York.

JULIUS LANG, Wholesale Florist, 53 WEST 30th St., New York.

FRANK HILLANG, Wholesale Commission Dealer ...in Cut Flowers..., 408 East 34th St., New York City.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

W. E. LYNCH, Wholesale Dealer in Cut Flowers. Send us your name for our Semi-Monthly Price List. We are Headquarters for FINEST CARNATIONS and ROSES.

BASSETT & WASHBURN, Growers and Wholesale Dealers in CUT FLOWERS.

We grow the finest of American Beauties and other Roses. Also choice selected Valley all the year round. Carnations, Smilax, Adiantum, etc., fresh cut. Long Distance Telephone, Main 223-88, 90, 92 Wabash Avenue, CHICAGO, III.

WHOLESALE FLORISTS' EXCHANGE. TABLE with columns for New York, Boston, Philadelphia, Chicago, and St. Louis, listing various flower varieties and prices.

Table with columns: NAMES AND VARIETIES, NEW YORK, BOSTON, PHILADELPHIA, CHICAGO, ST. LOUIS. Lists various flower types like Beauty, extra, No. 1, etc., with prices for each city.

For Prices of Fancy and Special Stock see our Correspondence Columns. Prices quoted above are given only after very careful inquiry and while we do not guarantee their accuracy, they will be found practically correct up to the date mentioned.

REINBERG BROS., Wholesale Growers of Cut Flowers... 500,000 Feet of Glass... We can fill all orders on short notice with all leading varieties of ROSES and CARNATIONS.

SAMUEL S. PENNOCK, Wholesale Florist. WELL FLOWERED MIGNONETTE, Long Spikes Extra Good, MYOSOTIS. We are still headquarters for finest and best varieties of CARNATIONS.

KENNICOTT BROS. COMPANY, Wholesale - Cut - Flowers, 88 Wabash Avenue, CHICAGO, ILL. WIRE WORK A SPECIALTY.

CHARLES W. MCKELLAR, 89 Wabash Ave., CHICAGO, Wholesale Commission Florist. All consignments and orders entrusted to our care will be given prompt and careful attention.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Cut - Flower - Commission - Dealers.

THE NEW YORK CUT FLOWER CO., 110-121 West 23d Street, 112-114 West 24th Street, Telephone 723, 123d St., NEW YORK.

PURDY & BLAUVELT, Wholesale and Commission Dealers in CUT FLOWERS, 57 WEST 30th STREET, Bet. Broadway & 6th Ave. NEW YORK.

A. & F. ROLKER, Wholesale Dealers in CUT FLOWERS, 53 West 28th St., Telephone 2379 38th St. NEW YORK.

W. F. SHERIDAN, Wholesale Commission Dealer in CUT FLOWERS, 39 West 25th St., New York, Telephone, 214-38th St.

FRANK H. BRANDLEY, CHARLES SCHENCK, TRAENDLY & SCHENCK, Wholesale Florists, 38 W. 28th St., and CUT FLOWER EXCHANGE, NEW YORK.

JOHN YOUNG, Wholesale Florist, 51 WEST 28th St., NEW YORK.

WM. J. BAKER, Wholesale Florist, 1432 So. Penn Square, Philadelphia, Pa.

DUMONT & CO., Wholesale Florists, CARNATIONS a SPECIALTY, No. 1305 Filbert St., Philadelphia.

EDWARD REID, Wholesale Florist, Finest Varieties, Roses, Carnations, Violets and Chrysanthemums, No. 40 South Sixth Street, Local and Long Distance PHOEN. Philadelphia.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE



**Indispensable.**

The Florists' Exchange continues all the time to be indispensable in a florist's business, especially for its advertisements.

ARTHUR DOYLE,  
Saville Pl., New Mexico, Jan. 7, '97.

**Many Good Hints.**

I find many good hints in the Florists' Exchange which it pays to follow, and besides it gives one an idea why others are doing.

WM. H. SEIBENHELLER,  
Port Richmond, N. Y., June 8, 1896.

**Standard Flower Pots.**

Send for our New Price List with extra discounts. All our Pots, from 7 in. and upwards, have our Patent Escalator Bottoms, which is a great advantage, as it insures perfect drainage.

A FULL LINE OF BULB PANS.

THE WHELLIDN POTTERY CO., 713 to 715 Wharton Street, PHILADELPHIA.

BRANCH HOUSES: ; Kearney and Wondale Aves., Jersey City, N. J.  
; Jackson and Madison Sts., Long Island City, N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**FLOWER POTS**

We are Manufacturing a Full Line of  
**STANDARD FLOWER POTS and HANGING BASKETS**  
OF THE BEST QUALITY.

Shipping Facilities First-Class, thereby Securing Lowest Freight Rates.  
Our goods are well packed, and breakage is nominal. Give us a trial. Send for Price List.

Address THE SYRACUSE POTTERY CO., 403 N. SALINA ST., SYRACUSE, N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**THE JOHN J. PETERS COMPANY**

(INCORPORATED.)

**PULVERIZED**  
A Quick Germinator  
and Crop Forcer.



**Beats Every Chemical Fertilizer on Earth.**

FACTORY:  
Little Ferry, New Jersey.

OFFICE:  
Long Island City, New York.

Pure Sheep Fertilizer permanently improves the soil.  
Matures the largest and best crops. Quick and lasting in its action.

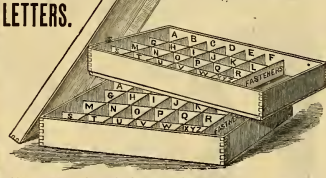
**NATURAL. ODORLESS. CLEAN TO HANDLE.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**THE BOSTON FLORIST LETTER CO**

Manufacturers  
**FLORISTS' LETTERS.**

Dimensions of this box.  
2 1/2 inches by 1 1/2 inches wide and 1 1/2 inches high. Two sections.



This wooden box nicely stained and varnished, 15x30x12 made in two sections, one for each side letter, given with first order of 500 letters.

Block Letters, 14 or 2 inch sets, per 100, \$2.00. Script Letters, \$4.00.

Patent Fastener with each letter or word.

Write for a list of letters and for sale by all wholesale florists and supply dealers.

**N. F. MCCARTHY, Treasurer and Manager,**  
Factory, 18 Green Street, BOSTON, MASS. Office, 84 Hawley Street.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Beware of Him.**

A customer wrote us on Dec. 10th, 1896, as follows:  
"What is the trouble with you and \_\_\_\_\_ of \_\_\_\_\_.  
He claims credit of having turned about a dozen contracts from you. Your lumber is too good to be worked against that way."

The person referred to grows flowers. He also manufactures and sells a specialty that other florists use. You are likely to hear from him at any time. When we sold him our Building Material on credit he recommended it, but when we found it necessary to ask him for cash or security his attitude toward us and our material changed. Our

**Clear Cypress Greenhouse Material**  
is superior to any greenhouse woodwork furnished by others, and we will be glad to back up this claim by the testimony of many Growers in all parts of the country.

Write for our booklet, "Quality."  
**Lockland Lumber Co.**  
Lockland, Ohio.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CATALOGUES RECEIVED.**

WEGGINS' FLOWER EXCHANGE, Milwaukee, -Price List of Plants, etc.  
E. Y. TEAR, Irving, Ind. -Price List of Fruit Trees and Plants, etc.

HILTINGER BROS., Fort Edward, N. Y. -Price List of Standard Flower Pots.  
WILLIAM BULL, Chelsea, London, Eng. -Catalogue of Seeds. (Illustrated.)

NORMAN COLE, Glen Falls, N. Y. -Price List of New Hybrid Gladioli.

R. H. BATH, Wiesbeck, England. -Catalogue of Caranations, Dahlias, Roses, etc.

Mrs EDNA V. WHITE, Minneapolis, Minn. -Catalogue of Choice Flower Seeds.

NANZ & NEYNER, Louisville, Ky. -Illustrated and Descriptive General Catalogue.

J. J. MCMAH, Olney, Va. -Price List of Strawberry Plants, Fruit Trees, etc.

J. ROSCOE FULLER & CO., Floral Park, N. Y. Catalogue of Seeds, Bulbs and Plants.

C. HUMFELD, City Center, Kan. -Wholesale Price List of Plants and Rooted Cuttings.

POPE MANUFACTURING CO., Hartford, Conn. -Illustrated Catalogue of Bicycles, etc.

O. DICKINSON SEED CO., Salem, Oregon. -Price List of Vegetable and other Seeds.

O. A. E. BALDWIN, Bridgman, Mich. -Price List of Strawberry, Raspberry Plants, etc.

J. E. JACKSON, Gainesville, Ga. -Catalogue of Useful Greenhouse and Bedding Plants.

INGLESIDE FLORAL CO., Alhambra, Cal. -Price List of Fruit and Flowering Plants.

FRANK H. BATTLES, Rochester, N. Y. -Catalogue of Garden and Farm Seeds, illustrated.

WILLIAM G. MCFAR, Princeton, N. J. -Descriptive Price List of Fine Chrysanthemums.

THE GOLDS MANUFACTURING CO., Seneca Falls, N. Y. -Catalogue of Spraying Pumps, etc.

THOMPSON'S SONS, Rio Vista, Va. -Wholesale Price List of Strawberries, Grapes, etc. (Illustrated.)

SCHMIGEL & FOTTLER, Boston, Mass. -Illustrated Descriptive Catalogue of Seeds, Plants and Bulbs.

QUAILLET & CO., Colma, Cal. -Wholesale Price List of Carnations, Chrysanthemums, Pelargoniums, etc.

HENRY F. MICHELL, Philadelphia. -Illustrated Descriptive Catalogue of Highest Quality Seeds.

BARBER BROS., Orleans, France. -Price List of Yellow-flowered Hardy Chrysanthemums, Leocadie Gentils.

JOHN C. MORNINGER CO., Chicago, Ill. -Catalogue of Greenhouse Lumber, Ventilating Machinery, etc.

ELIZABETH NUNSEY CO., Elizabeth, N. J. -Illustrated Descriptive Catalogue of Trees, Shrubs and Plants.

THE CLEVELAND SEED CO., Cape Vincent, N. Y. -Wholesale Price List of Peas, Beans, Corn and Vegetable Seeds.

W. N. SCARF, New Carlisle, O. -Catalogue of Small Fruits, etc. contains a handsome colored plate of the Burke's raspberry.

E. E. BURWELL, New Haven, Conn. -Price List of Choice, Select Vegetable Seeds; Burwell's Extra Fine Dutch cabbage a specialty.

R. J. FARQUHAR & CO., Boston, Mass. -Illustrated Descriptive Catalogue of Reliable and Choice Plants, Bulbs, Flowering Shrubs.

THOMAS S. WARE, Tottenham, Eng. -Catalogue of Chrysanthemums, Lilies, Begonias, Gladioli, etc. also Catalogue of Flower Seeds.

ROYAL PALM NURSERY (Resonator Bros.), Glenside, Fla. -A Very Complete and Illustrated Descriptive Catalogue of Tropical Plants, Orchids, Cacti and Miscellaneous Stock.

WAGNER & DEW, 12 Chambers St., New York. -Illustrated and Descriptive Catalogue of Flower and Vegetable Seeds, Plants, etc. a full list of novelties is given for best quality being selected. A colored plate of canna John White accompanies the catalogue.

SUNSET SEED & PLANT CO., San Francisco, Cal. -An Attractive Catalogue of Seeds, Plants, and Fruit. Includes the photographic reproductions of plants from life. There is a full list of novelties, particularly of sweet pea novelties, and a very good illustration is a beautiful conception.

THE DRYGAL & CONARD CO., West Grove, Pa. -A Guide to the grower, a very interesting catalogue of roses and other plants, the list of novelties is former being especially valuable. The covers are handsome, artistic, representative of the products themselves. "Coronet," and of "Princess Bonnie" and "Pink Souper." "Charming colored plates of canna Flamingo, etc. accompany the guide."

JOHNSON & STOKES, Philadelphia. -Garden and Farm Manual. This is a handsomely gotten up catalogue of vegetable and flower seeds, etc., especially attractive are the photographic reproductions of the products which embrace among others the Black Boulder watermelon, New Wonder green cucumber and the new branching asters and fringed tuliplocks. The list of novelties is very complete.

**Hot-Bed Sash**

Tenons white-lacquered. Corners secured with iron dovetail pins. Every detail of construction perfect. Made of Clear Cypress Lumber.

**Quick Shipments.**

We have in stock and can ship immediately:  
3 ft. 3 in. x 6 ft., 8 in. x 8 in.  
4 ft. x 6 ft., 5 in. x 8 in.  
Not glazed, 1 1/2 in. thick.

**Delivered Prices**

Quoted on application. State size and quantity wanted. No order too small to receive careful attention, and none too large for our facilities.

**LOCKLAND LUMBER CO.,**  
Lockland, Ohio.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Standard Pots** MADE BY...

Good Railroad Facilities **KELLER BROS.**  
For Shipping - Norristown, Pa.  
Special Attention Given to Mail Orders.  
Price Lists Furnished on Application.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**STANDARD POTS.**

We are now ready to supply a superior quality of Pots in unlimited quantities. Catalogues and price lists furnished on application.

**A. H. HEWES & CO.,**  
NORTH CAMBRIDGE, MASS.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**STANDARD FLOWER POTS**

In any quantity, and of the best quality.  
Get my price list before ordering elsewhere.

**W. H. ERNEST,**  
Station M, N. E., WASHINGTON, D. C.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Neponset Flower Pots**

of Waterproof Paper, are sold as follows:  
Terms - Not cash with order. If forwarded shipped by freight, add 10 cents extra.

Packed in Gross Weight

Size	Crates of per 1000 Pots	Per 1000 Pots	Per 1000 Pots
2 1/2 in. x 4 in. x 10 in.	about 20 crates	\$1.25	\$1.00
3 in. x 4 in. x 10 in.	..... 1000	..... 25	..... 2.00
3 1/2 in. x 4 in. x 10 in.	..... 1000	..... 34	..... 2.50
4 in. x 4 in. x 10 in.	..... 1000	..... 45	..... 3.00
4 1/2 in. x 4 in. x 10 in.	..... 1000	..... 55	..... 3.50
5 in. x 4 in. x 10 in.	..... 1000	..... 65	..... 4.00
5 1/2 in. x 4 in. x 10 in.	..... 1000	..... 75	..... 4.50
6 in. x 4 in. x 10 in.	..... 1000	..... 85	..... 5.00
6 1/2 in. x 4 in. x 10 in.	..... 1000	..... 95	..... 5.50

Less quantity than above, on application.  
Standard Pot Measure.  
Less quantity than above, on application.

**F. W. HIRD & SONS, Manufacturers.**  
Address orders to our General Agents,  
**August Röler & Sons**  
New York, P. O. Station E.

17 & 19 J. F. FARQUHAR & CO., Boston, Mass. Eastern Agent  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

LORD & BURNHAM CO., HORTICULTURAL ARCHITECTS AND BUILDERS, STEAM AND HOT WATER HEATING ENGINEERS.

Plans and Estimates furnished on application.



Largest Builders of Greenhouse Structures. Six Highest Awards at the World's Fair. Send four cents postage for Illustrated Catalogue.

LORD & BURNHAM CO., ARCHITECTURAL OFFICE, 160 FIFTH AVE., COR. 21st STREET, NEW YORK, Factory: Irvington-on-Hudson, New York. Mention paper.

EVERY FLORIST OUGHT TO INSURE HIS GLASS AGAINST MAIL.

For particulars address JOHN G. ENLER, Sec'y, Saddle River, N. J. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

MASTICA

For Glazing Greenhouses. A substitute for putty. Superior to every way. MASTICA and MASTICA GLAZING MACHINES were given Highest Award of S. A. F. at Pittsburg. Address for circular, F. O. PIERCE CO., 170 Fulton St., N. Y. Sole Manufacturers.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

SUMMER IN WINTER

By Using Standard Greenhouse Boilers

One cent gets our Catalogue, GIBLIN & CO., - Utica, N. Y. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Simple Enough.

If water is needed for any purpose on a farm, (other ordinary, stock or dairy), in a country residence, on a plantation or ranch, for a green house, Pot house or nursery, the most simple appliance is a

DELMATER-RIDER or a DELMATER-ERISSON Hot-Air Pumping Engine.

Any other method of securing a supply of water, such as by rams, steam pumps, hand pumps and windmills, do not give entire satisfaction, and Hot-Air Pumping Engines possess advantages over all of them. They will pump water and send it wherever needed in the house, barn, stable, dairy, garden, green house or nursery, and to any height and distance. They are so safe they can be run by a child, so economical that a shovelful of coal will run one for hours, and so reliable that a scarcity of water is impossible. They will pump water from any source and will burn any kind of fuel.

If interested, send for catalogue to THE DELMATER IRON WORKS, 467 West Broadway, N. Y. City. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

GLASS! For Greenhouses, Conservatories, Graperies, Hotbeds and all other purposes, at Lowest Rates. GLASS! GLASS!

N. COWEN'S SON 392 & 394 West Broadway, New York. Telephone 154 and 156 So. Fifth Avenue. Get our Figures before buying Glass. Estimates Free Green.

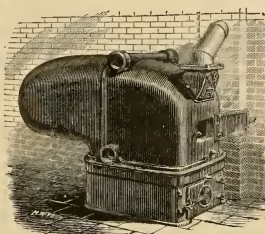
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

CALIFORNIA RED CEDAR Never Decays.

A. DIETSCH & CO., 619 Sheffield Avenue, CHICAGO. MANUFACTURERS OF RED CEDAR AND CYPRESS GREENHOUSE MATERIAL.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

GREENHOUSE HEATING AND VENTILATING, Horticultural Architecture and Building.



Mention paper.

SEND 4c. POSTAGE FOR ILLUSTRATED CATALOGUE.

Hitchings & Co

ESTABLISHED 1844. 233 Marcor Street, NEW YORK

FIVE PATTERNS OF BOILERS. NINETEEN SIZES.

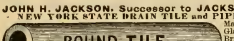
Perfect Sash Raising Apparatus. Roschouse, Greenhouses, Etc., of Iron Frame Construction erected complete or the Structural Iron Work shipped ready for erection.

Iron Frame Fences with the "Perfect Drainage Bench Type" or Site Foot. WHEN WRITING MENTION THE FLORISTS' EXCHANGE



VALVES, FITTINGS AND VENTILATING APPARATUS.

COLDWELL-WILCOX CO., Newburgh, N. Y. Mention paper.



ROUND TILE

JOHN H. JACKSON, Successor to JACKSON BROS. NEW YORK, STATE DEAIN TILE and PIPE WORKS. Wholesale Office, 11 THREE AVE., MANHATTAN, N. Y. Manufacturer of and Dealer in Agricultural Drain Tile, San Glazed Sewer Pipe, Lead Fenced Pipe, Water Cisterns, Fire Brick, Fire Clay, Laundry and Fire Lining, Chimney, Fire Clay Store Pipe, Fire Clay Kettle, Enamined Sidewalk Tile, Household and Portland Cement, Lime, Plaster, etc.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

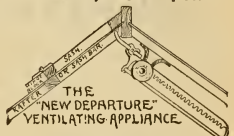


Evans' Improved Challenge.

Roller-bearing, self-oiling device, automatic stop, solid link chain, makes the EMPOYER CHALLENGE the most perfect apparatus in the market. Write for catalogue and prices before placing your orders elsewhere. Quaker City Machine Co., RICHMOND, IND.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

IF YOU WANT A GOOD SASH LIFT For a Very Little Money Get

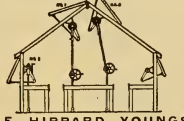


THE NEW DEPARTURE VENTILATING APPLIANCE

For Descriptive Catalogue Send to J. D. CARMODY, Evansville, Ind. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

STANDARD VENTILATING MACHINE.

NONE EQUAL IT IN Strength AND Durability



NOTHING Flimsy OR Complicated about it.

Send for Catalogue. E. HIPPARD, YOUNGSTOWN, OHIO. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

ATTENTION, FLORISTS!

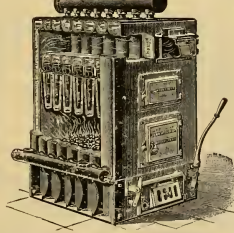
It will be to your advantage to look into the merits of the Scollay "Invincible" Hot Water Boiler.

It is all that its name implies, and don't forget it.

Cuts and full information mailed on application.

JOHN A. SCOLLAY, 74 & 76 MYRTLE AVE., BROOKLYN, NEW YORK.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE



WHEN WRITING MENTION THE FLORISTS' EXCHANGE

One of the Family. I consider the Florists' Exchange one of the family and cannot do without it. Alvin, Tex., Oct. 12, '96. J. S. WHITTEN.

FOR GREENHOUSES, CONSERVATORIES, GRAPERIES, HOTBEDS AND AND FLORISTS' USE GENERALLY, AT LOWEST RATES. L. HARRIS & SON, 487 W. BROADWAY, NEW YORK, 89 LIBERTY ST., NEW YORK

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

SEND FOR OUR NEW CATALOGUE, WHICH SHOWS

The New Automatic Cable Ventilator

As it is put up in the house complete. We also give you prices with a guarantee that each machine must out will operate in your house successfully. Soil machines now made in two sizes. A. Q. WOLF & BRO., Dayton, Ohio.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

"GOLDEN BEAUTY."

New Yellow Canna, clear, bright color, massive flower, continuous bloomer, vigorous grower, dwarf habit. As good as the best. 50c. each; \$4.00 per doz.; \$25.00 per 100. READY NOW.

NEW CANNAS

decorative purposes produced in years. Stock in superb condition and READY NOW. 75c. each; \$7.50 per doz.; \$50.00 per 100.

"JOHN WHITE."

The beautiful new variegated leaf variety. Finest plant for all year. Stock in superb condition and READY NOW. 75c. each; \$7.50 per doz.; \$50.00 per 100.

Also QUEEN CHARLOTTE, ALPHONSE BOUVIER, MME. CROZY, J. C. VAUGHAN, J. D. CABOS, EX. CRAMPBEL. \$1.00 per doz.; \$8.00 per 100. All from 4 inch pots. Cash or reference with orders. Circular and colored plant for the asking.

JOHN WHITE, Elizabeth, New Jersey.

ROOTED CUTTINGS. Cash prices.

All transplanted in soil, as good as pot-grown plants. Perfectly rooted.
Verbenas, Mammoth - \$1.00 per 100, by mail \$6.00 per 1000, by express. Mammoth seedlings, 2% per 100, by mail \$1.00 per 1000, by express.
Carnations, Queen - \$1.00 per 100, by mail \$6.00 per 1000, by express.
Violets, Lady El Combelli - \$1.00 per 100, by mail \$6.00 per 1000, by express.
Chrysanthemums - Finest standard varieties, \$1.00 per 100.
Violes Variegata, Glebeoma Variegata, \$1.00 per 100.
Feverfew, Dwarf Gem Seed Alyssum, Goshin mammoth, \$1.00 per 100.
Clematis, Florence Yagham - \$1.00 per 100.
Clematis, Florence Yagham in 4 in. pots \$1.00 per 100.
E. FRYER, Railroad Ave. and Hill St., Brooklyn, N. Y.

SIEBRECHT & SON, The Largest and Finest Collection of PALMS, DRACENAS, FICUS and FERNS, ARACIARIAS, etc., in all sizes. Prices to suit all. One visit and you will always come here. STOCK HOME-GROWN. WIRE, TELEGRAPH or TELEPHONE, AND OUR CATALOGUE WILL MEET YOU. Rose Hill Nurseries, New Rochelle, N. Y., New York City, 400 Fifth Avenue.

CHEAP PALMS! FERNS! FERNS!! inch inch inch. Areca Lutescens, 8-10 2.3 \$0.06 18.50. Corchorus aversaria, 10-12 2.3 0.06 20.00.
Cecropia peltata, 12-14 2.3 0.06 20.00.
Livistona rotundifolia, 14-16 2.3 0.06 20.00.
Livistona rotundifolia, 16-18 2.3 0.06 20.00.
Livistona rotundifolia, 18-20 2.3 0.06 20.00.
Livistona rotundifolia, 20-22 2.3 0.06 20.00.
Livistona rotundifolia, 22-24 2.3 0.06 20.00.
Livistona rotundifolia, 24-26 2.3 0.06 20.00.
Livistona rotundifolia, 26-28 2.3 0.06 20.00.
Livistona rotundifolia, 28-30 2.3 0.06 20.00.
Livistona rotundifolia, 30-32 2.3 0.06 20.00.
Livistona rotundifolia, 32-34 2.3 0.06 20.00.
Livistona rotundifolia, 34-36 2.3 0.06 20.00.
Livistona rotundifolia, 36-38 2.3 0.06 20.00.
Livistona rotundifolia, 38-40 2.3 0.06 20.00.
Livistona rotundifolia, 40-42 2.3 0.06 20.00.
Livistona rotundifolia, 42-44 2.3 0.06 20.00.
Livistona rotundifolia, 44-46 2.3 0.06 20.00.
Livistona rotundifolia, 46-48 2.3 0.06 20.00.
Livistona rotundifolia, 48-50 2.3 0.06 20.00.
Livistona rotundifolia, 50-52 2.3 0.06 20.00.
Livistona rotundifolia, 52-54 2.3 0.06 20.00.
Livistona rotundifolia, 54-56 2.3 0.06 20.00.
Livistona rotundifolia, 56-58 2.3 0.06 20.00.
Livistona rotundifolia, 58-60 2.3 0.06 20.00.
Livistona rotundifolia, 60-62 2.3 0.06 20.00.
Livistona rotundifolia, 62-64 2.3 0.06 20.00.
Livistona rotundifolia, 64-66 2.3 0.06 20.00.
Livistona rotundifolia, 66-68 2.3 0.06 20.00.
Livistona rotundifolia, 68-70 2.3 0.06 20.00.
Livistona rotundifolia, 70-72 2.3 0.06 20.00.
Livistona rotundifolia, 72-74 2.3 0.06 20.00.
Livistona rotundifolia, 74-76 2.3 0.06 20.00.
Livistona rotundifolia, 76-78 2.3 0.06 20.00.
Livistona rotundifolia, 78-80 2.3 0.06 20.00.
Livistona rotundifolia, 80-82 2.3 0.06 20.00.
Livistona rotundifolia, 82-84 2.3 0.06 20.00.
Livistona rotundifolia, 84-86 2.3 0.06 20.00.
Livistona rotundifolia, 86-88 2.3 0.06 20.00.
Livistona rotundifolia, 88-90 2.3 0.06 20.00.
Livistona rotundifolia, 90-92 2.3 0.06 20.00.
Livistona rotundifolia, 92-94 2.3 0.06 20.00.
Livistona rotundifolia, 94-96 2.3 0.06 20.00.
Livistona rotundifolia, 96-98 2.3 0.06 20.00.
Livistona rotundifolia, 98-100 2.3 0.06 20.00.

A fine stock of mixed Ferns, from 3/4 in. roots, ready for immediate use; all good quality and good plants, \$3.50 per doz.; \$30.00 per doz. Large plants from flats, ready to pot, \$1.50 per doz.; \$12 per 100. Express paid to N. Y. City. H. WESTON, Hempstead, N. Y. WHEN WRITING MENTION THE FLORISTS' EXCHANGE. CLEMATIS CARNATIONS CHRYSANTHEMUMS For special prices address G. EISEL, 11th & Jefferson Sts., Phila Pa. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

LOOK HERE!

Gladioli bulbs; California Privet, cuttings and plants; Lemon Lily; Japanese quince, grand; Spotted Iris from Holland; Double Iris from Holland; sum; Russian Violets; Plants Golden Honeysuckle; Bellonia, in variety; Veronica species; Ampelopsis roots; Oregon and Calliostylis Raspberries. Also, some fine Belgian Hares. S. J. GALLOWAY, Eaton, Ohio. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

Largest Stock in the Country. All goods up to date, and of superior quality. Send for illustrated Catalogue. H. BAYERSDORFER & CO., PHILADELPHIA, PA. 56 N. FOURTH STREET. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

MY BUSINESS is gaining every year. Because you cannot buy better or cheaper than of A. HERRMANN, 404-412 E. 34th St., New York, near Ferry MANUFACTURER OF METAL FLORAL DESIGNS, IMPORTER AND DEALER IN FLORISTS' SUPPLIES. Write for Catalogue. Free to the trade. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

GERANIUMS...

Extra fine double varieties, Grant, S. A. Nutt, La Favorite and others at \$2 per doz.; \$20 per 100, out of a 3 in. pot.
Fragrantissimus, best varieties, \$3.00 per doz.
Ivy Geraniums, \$2.00 per doz.
The Faugiaris Hybrid plants, true and perfectly healthy, 2 in. pots, \$5.00 per doz.; \$50.00 per 100.
GEO. BENEDICT, Yorkville, N. Y. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

WE MEET THE PRICES OF ALL COMPETITORS ON NEW CANNAS "Italia" and "Austria."

500 DOLLARS WORTH FOR 25 CENTS. Two years ago when we offered the originator of these CANNAS 1000 DOLLARS for our plant of ITALIA and one of AUSTRIA. The offer was refused - \$2,500 asked for a part of the stock. That the plants were fully worth the price asked was proved by the enormous sales made subsequently at \$5.00 each, even up to six months ago. Owing to rapid propagation we can now make our price on...

GERANIUMS!

ROOVED CUTTINGS. Brunet, La Pilote, S. A. Nutt, White Swan. Named assortment, \$1.50 per 100; \$15.00 per 1000. Pyrethrum Little Gem per 100, \$1.50. Cash with order. W. M. J. CHINNICK, Trenton, N. J. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

500 DOLLARS WORTH FOR 25 CENTS. Two years ago when we offered the originator of these CANNAS 1000 DOLLARS for our plant of ITALIA and one of AUSTRIA. The offer was refused - \$2,500 asked for a part of the stock. That the plants were fully worth the price asked was proved by the enormous sales made subsequently at \$5.00 each, even up to six months ago. Owing to rapid propagation we can now make our price on...

10,000 COLEUS.

Rooted cuttings. Verachalotti, Golden Bedding, in other sorts, 75 cts. per 100, by mail \$5.00 per 1000, by express.
8000 HELIOTROPE - Rooted cuttings, 12 best sorts, labeled, \$1.00 per 100, postpaid; \$8.00 per 1000.
8000 EMPRESS OF CHINA, well-rooted cuttings. The new everblooming hardy, apple blossom pink CLIMBING ROSE. Immensely popular rose for the retail trade. \$2.00 per 100, by mail, postpaid; \$15.00 per 1000, by express.
20,000 FLOWERING GERANIUMS, rooted cuttings.
Alyssum Cuttings, \$1.00 per 100, by express.
Cora, Alba Flota, Brunet, Margerita, Diadem and all other good sorts. \$1.50 per 100, by mail, postpaid; \$15.00 per 1000, by express. SATISFACTION GUARANTEED.

500 DOLLARS WORTH FOR 25 CENTS. Two years ago when we offered the originator of these CANNAS 1000 DOLLARS for our plant of ITALIA and one of AUSTRIA. The offer was refused - \$2,500 asked for a part of the stock. That the plants were fully worth the price asked was proved by the enormous sales made subsequently at \$5.00 each, even up to six months ago. Owing to rapid propagation we can now make our price on...

ITALIA, at 35c. each; \$3.50 per doz.; \$25.00 per 100; \$200.00 per 1000. AUSTRIA, at 60c. each; \$6.00 per doz.; \$45.00 per 100; \$400.00 per 1000. The prices for immediate delivery and fine, large, home-grown roots. Send for list of ALL THE NEWEST CANNAS at popular prices. ALL SOLD. Our entire stock of ASPERAGUS SPRENGERI, consisting of nearly 10,000 plants, was sold to Mr. Robert Craig - he knows a good thing when he sees it. NEW ROSES, CLIMBING WOODRIG, GARMINE PHILLAR, \$2.00 per doz.; \$10.00 per 100. Send for catalogue of roses. A. BLANC & CO., 314 and 316 N. 11th Street, PHILADELPHIA. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

A. H. DAVIS & SON, (Near Washington, D. C.) PURCELLVILLE, Va. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

Rooted Cuttings.

GERANIUMS, named, - - - \$1.50 \$12.50
VERBENAS, " " " " .30 8.00
COLEUS, 30 varieties, - .60 5.00
HELIOTROPE, 3 " " - 1.00 8.00
CYCLAMEN GIGANTEUM, - - - 3 in. pots, 6.00
TERMS: Cash with order. CHAS. E. SMITH, Cor. Jefferson and Jackson Aves., YORK, Pa. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

THE BEST FOR ALL Florists. ROSE LEAF EXTRACT OF TOBACCO INSECTION. FOR SALE BY Store Steers. For Free Pamphlet, write to LOUISVILLE, KY. SHERIDAN GREENHOUSE Co., South Point P. O., Md. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

WELCH BROTHERS, DEALERS IN FLORISTS' SUPPLIES, No. 2 Beacon Street, - BOSTON. Wire Designs, Wheat Showers, Baskets, Importations, Caps, Flowers, Cut Flowers, Boxes, and all other supplies at prices for prompt competition. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

SEASON 1897. Trade List of Select FLOWER SEEDS, SPRING BULBS and SUPPLIES. Just issued and mailed to subscribers; send business card. Address August Rolker & Sons, 156 and 158 N. 5th Street, NEW YORK. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

# THE FLORISTS' EXCHANGE

We are a straight shoot and aim to grow into a vigorous plant.

A WEEKLY MEDIUM OF INTERCHANGE FOR FLORISTS, NURSERYMEN, SEEDSMEN AND THE TRADE IN GENERAL.

VOL. IX. NO. 8.

NEW YORK, FEBRUARY 20, 1897.

One Dollar Per Year.

## NEW CALIFORNIA GIANT MARGUERITE (GIANT PEARL.)

This variety is truly a giant in size, the individual flowers often measuring 3 inches and over in diameter. The snow white petals are arranged in two rows around a dazzling yellow center, and are of good substance. Habit of plant is strong and compact, in every way superior in size and beauty to any other varieties introduced up to the present time. The originator writes us that he has in his garden all varieties of Marguerites in cultivation, and there are none which can equal the Giant Pearl in size of flower and profusion of bloom. No Florist growing cut flowers should be without it.

Young Stock, 2 inch pots, \$1.75 per dozen; \$12.00 per 100.

## "Every Bulb's a Pearl."

**EXCELSIOR DWARF PEARL TUBEROSES.** Selected, 4 to 6 inches in circumference, \$7.50 per 1000. Of course: Quantity effects the Price. If you wish 5000 or more, write for sample and special quotation.

**JAPANESE LILIES.** New importation. Re-packed—Bulbs guaranteed in perfect condition. Note: Japanese Lilies will be scarce this Spring, owing to the enormous proportion of bulbs arriving worthless.

	Per 100	Per 1000
Lilium Auratum, 7 to 9 inches in circumference.....	\$4.50	\$49.00
" 9 to 11 inches in circumference.....	5.00	55.00
Lilium Speciosum Rubrum, 7 to 9 inches in circumference.....	5.50	50.00
" 9 to 11 inches in circumference.....	6.00	75.00
Lilium Speciosum Album, 7 to 9 inches in circumference.....	6.50	80.00
" 9 to 11 inches in circumference.....	11.00	100.00

## PITCHER & MANDA, Short Hills, N. J.

JOHN N. MAY, Receiver.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## We Have an Exceptionally Fine Stock of LARGE SIZED ARECAS.

Very bushy plants, 9 in. pots, 3 1/2 ft. high above pot, \$4 each; larger plants, 9 in. pots, 4 1/2 ft. high above pot, \$5 each. These plants are in perfect shape, very bushy, and are exceptionally good value for the price.

LARGE SIZED ARECAS ARE SCARCE.

For price of smaller sized Arcas and other

## Palms and Decorative Plants

See our wholesale list, which will be mailed free on application.

## TUBEROUS BEGONIAS

VERY FINEST STRAINS OF BOTH.

Separate colors, white, pink, scarlet, and yellow.  
SINGLE, \$3 per 100; DOUBLE, \$8 per 100.

## GLOXINIAS

Finest strain, Crassifolia Erecta Hybrida Grandiflora, \$4 per 100.

## Tuberose Pearl

Extra quality, very fine bulbs, \$1 per 100; \$7.50 per 1000.

## F. R. PIERSON CO., TARRYTOWN-ON-HUDSON, NEW YORK.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## SEND FOR OUR PRICE LIST OF HIGH GRADE SEEDS AND BULBS

If You Have Not Received One.

FLOWER AND VEGETABLE SEEDS IN PACKETS.

**We Do Not "Commission" or Place Seeds Out "On Sale."**  
Here we supply Florists with seeds put up in handsome colored packets for retailing at \$1.25 per 100, or \$10.00 per 1000. These packets, besides having a lithograph of the flower the common and botanical name on the front, have a description of the flower and outline directions on the back and a blank space for name and address, which will be printed as if ordered in 1000 lots or more. SEND FOR SAMPLE.

Price of Peas, Beans and Corn in Packets, \$4.00 Per 100.

**DWARF PEARL TUBEROSE BULBS,** 4 to 6 inches in circumference, \$7.50 per 1000.

**TUBEROUS ROOTED BEGONIAS,** sound stock, 6 colors, separate, \$3.00 per 100.

**GLOXINIAS,** named varieties, \$5.00 per 100.

In Making Up Your Order for Florists' Flower Seeds, Don't Fail to Include Some **ALLEN'S DEFIANCE MIGNONETTE**

Offered this season at \$1.50 per oz., and 35 cts. per packet, containing 8 ounces.

## F. E. McALLISTER CO. Seed and Bulb Merchants, 69 Cortlandt St. N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## Rose Hill Nurseries.

THE LARGEST AND FINEST STOCK IN AMERICA.

**ARECA LUTESCENS.** 3 1/2 in. pots, bushy, 12 to 15 in. high, \$3.00 \$30.00  
5 " " " 18 to 20 in. high, 4.00 40.00  
8 " " " 20 to 25 in. high, 6.00 60.00  
8-9 " " " 2 to 5 ft. \$4, \$5 and \$6 each.

**COCOS WEDDELIANA.** 3 1/2 in. pots, extra fine, 5 and 8 leaves, \$2.00 \$15.00  
5 in. pots, extra fine, strong, 5.00 50.00  
8 in. pots, extra fine, very strong, selected, 8.00 80.00  
3 1/2 in. pots, extra fine, very strong, selected, 4.00

**KENTIA BELMOREANA.** EACH DOZ.  
5 in. pots, extra strong, bushy, 5 to 6 leaves, 18 to 20 inches high, \$4.75 \$5.00  
6 in. pots, heavy, 2 to 2 1/2 ft. high, 1.50 18.00  
7 in. pots, heavy, 2 to 2 1/2 ft. high, 2.00 21.00  
8 in. pots, 36 to 60 in., decorative size, \$3.50 to \$6.00 each.

**KENTIA FORSTERIANA.** EACH DOZ.  
3 in. pots, 12 to 15 inches high, \$2.00 15.00  
4 " " 15 to 18 " 2.50 33.00  
6 " " 2 to 2 1/2 ft. high, \$1.25 each.  
7 " " 2 to 2 1/2 " \$2 to \$2.50.

**LATANIA HORNBOLTA.** 5 in. pots, 2 ft. specimens, \$10.00 doz.; \$15.00 doz.  
6 " " " perfect specimens, 7 to 8 leaves, 18.00 " 7

**LIVISTONA ROTUNDFOLIA.** 4 in. pots, 10 to 12 in. high, \$1.50 each; \$15.00 doz.  
5 " " 12 to 15 " 1.50 " 15.00 "

**PHENIX RECINATA.** 6 in. pots, 16 to 18 in. high, \$10.00 doz.

**BRACENAS.** (In variety.) Without doubt or exception we have the grandest lot in the country. Open for inspection.

4 in. pots, \$4.00 per doz. \$6.00 (colored and coloring).

**FERNS. FERNS. FERNS.**

If you are going to buy, it will pay you to get a sample of our grand stock.

2 1/2 in. pots, 15 vars., \$4.00 per 100; \$35.00 per 1000.

**Nephrolepis cordata compacta.** The largest stock of this grand variety.

3 in. pots, 250 stock, \$16.00 per 100.

5 in. pots, 15-18 in. high, \$4.00 per doz.; \$30.00 per 100.

**Pteris Ubroena Giganteum.** 4 in. pots, \$35.00 per 100

5 " " " 5.00 per doz.

6 " " " 6.00 each.

**FICUS ELASTICA.** 5 in. pots, \$50.00 per 100

7 " " " 75.00 "

All measurements taken from top of pots. The above is a brief list of our specialties. Our new wholesale list, giving description of all new novelties, will be ready soon. Do not order till you see it.

Write, Telegraph or Telephone us and our Carriage will meet you.

\*Address all communications to the Nurseries.

## SIEBRECHT & SON, NEW ROCHELLE, N. Y.

N. Y. Office: 409 S. Ave.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# A FEBRUARY TRADITION



Says the ground hog comes out to see his shadow and then if the sun shines he gets frightened at his formal crawl back for six weeks. Now do not wait that length of time but order at once the following:

	Trade Pk.	Co.
ASTER, Queen of the Market, White.....	\$0 15	\$0 65
" Victoria, separate colors.....	50	3 00
" Tradition, separate colors.....	25	2 00
CARNATION Marguerite, Mixed.....	25	1 50
DRACENA Indivisa.....	15	30
PETUNIA, choice Blotched and Striped.....	25	1 00
SALVIA splendens.....	25	1 50
PHILOX Nana Compacia.....	25	1 50
VERBENA, extra choice Mixed.....	35	1 25

WM. ELLIOTT & SONS, NEW YORK.

WHEN WRITING, MENTION THE FLORISTS' EXCHANGE

# CANNAS

BURBANK each 7c; 6 for \$4.00.  
 YELLOW CROWN each \$1.00.  
 ITALIA per doz. \$8.00 per 100, \$4.00.  
 ALPINE per doz. \$8.00 per 100, \$4.00.  
 All standard varieties at bottom prices. Send for Flower Catalogue (sent out). Tells you what Flower Seeds to grow for profit.  
**TUBEROSES**, True Dwarf Pearl, \$1.00 per 100.  
**GLADIOLUS**, x x x Florist Mixtures, \$7.00 per 100.  
**CALADIUM ESCULENTUM** 7-9 in., \$5.00 per 100.  
**ROSE**, President Carnot, \$1.00 per 100.  
 14 Barclay Street, New York, \$100 per 100.  
 July 1890, \$100 per 100.

**VAUGHAN'S SEED STORE, NEW YORK, CHICAGO.**  
 14 Barclay Street, P. O. Box 628.  
 SHEEP MARKER \$25 per 10 lb.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# CHEAP WITH ORDER.

**1500 DWARF PEARL TUBEROSES,**  
 3-4 INCHES, \$5.00.  
**150 CHINESE NARCISSUS,** \$1.50.

For Spring delivery. If P. David and Standard Roses. Send an estimate of your wants.  
 C. H. JOOSTEN, Importer, 169 Greenwich St. N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# Prize-Winning DAHLIAS

AN UNPRECEDENTED RECORD.

23 First Prizes, Certificate of Merit, 2 Diplomas, and highest mention everywhere.  
 Our 1897 Descriptive Trade List will be ready about February 1st, and will be mailed to all who received our last year's list without objection. If you want the very best Dahlias that bloom, address

**W. P. PEACOCK,**  
 Dahlia Specialist, ATCO, N. J.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# PALM Seed.

**FRESH ON HAND**

Coron Weddeliana.....	Per 100	3000	3000
Dracopis rubra.....	100	20.00	207.20
Nana Emeric.....	100	15.00	150.00
Blanc process.....	100	15.00	150.00
Redia Arabica.....	100	15.00	150.00
Appenzel's glaucosa (small form).....	100	15.00	150.00
Pyramis latifolia (small form).....	100	15.00	150.00
Pyramis latifolia (large form).....	100	15.00	150.00
Pyramis latifolia (medium form).....	100	15.00	150.00
Pyramis latifolia (small form).....	100	15.00	150.00
Pyramis latifolia (medium form).....	100	15.00	150.00
Pyramis latifolia (large form).....	100	15.00	150.00
Pyramis latifolia (small form).....	100	15.00	150.00
Pyramis latifolia (medium form).....	100	15.00	150.00
Pyramis latifolia (large form).....	100	15.00	150.00
Pyramis latifolia (small form).....	100	15.00	150.00
Pyramis latifolia (medium form).....	100	15.00	150.00
Pyramis latifolia (large form).....	100	15.00	150.00

Pyramis latifolia (small form)..... \$1.25 per 100, \$100.00 per 1000.  
 Pyramis latifolia (medium form)..... \$1.25 per 100, \$100.00 per 1000.  
 Pyramis latifolia (large form)..... \$1.25 per 100, \$100.00 per 1000.  
 J. L. SCHILLER, Rutherford, N. J.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**ORDER YOUR GOODS FOR SUMMER DELIVERY IN TIME**  
**Early Orders are the BEST, get the BEST STOCK, get the BEST PRICES**  
 Delivery from MARCH to JUNE.

**Iris Kämpferi, Japan Maples, Aspidistra lurida clumps**  
**Lygodium Japonicum, Phylis Franchetti, Japan Bulbs.**

We quote you now for delivery in JULY to SEPTEMBER.  
**Freesia refracta alba, Tree Fern Stems, Calla Ethiopica, Palm Seeds, L. Longiflorum, California Forcing Chinese Narcissus, California Forcing Bulbs.**

ROOTED CUTTINGS OF ALL THE CHOICEST AND RAREST  
**CHRYSANthemums, PRIZE WINNERS IN JAPAN.**  
 Write for prices and information. Address all communications to  
**H. H. BERGER & CO., (Established 1878) San Francisco, Cal.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**GET THE BEST ASTER SEED**  
 of the celebrated **Simple Aster**, separate colors, pink and white, also mixed. Seed well cleaned, plump and good. Crop of 1896. For sale in any desired quantity by  
**JAMES SEMPLE, Box 2, BELLEVUE, PA.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**BEGONIAS, TUBEROSES AND GLADIOLI.**  
 Have to offer an Extra Choice lot of Tuberos Rooted Begonias. Single, large sizes, in 4 separate colors—white, pink, yellow and scarlet—at the following prices—100 for \$2.00; 500 for \$10.00; 1,000 for \$20.00.  
**EXCELIOR PEARL TUBEROSE BULBS**—Large size at \$1.00 per 100; 500 for \$5.00; 1,000 for \$10.00. Second size at 50 cents per 100, 500 for \$2.50; 1,000 for \$5.00.  
**GLADIOLI**—Finest mixed colors on the market. Large size, \$1.00 for 100; 500 for \$5.00; 1,000 for \$10.00. Second size, 50 cents per 100; 500 for \$2.50; 1,000 for \$5.00.  
 All these Bulbs are the best on the market, and I guarantee satisfaction. Prices quoted are for bulbs to be sent by express or freight. If larger quantities are wanted, ask for special quotations. Stock limited, but all orders will be filled promptly as long as it remains unshipped. Address  
**F. H. WILLS, Secularian, Box 200, Rose Hill, New York**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Gladiolus Shakespeare**  
 For Forcing. \$5.00 per 100; \$40.00 per 1000.  
**CHAS. H. ALLEN, Floral Park, N. Y.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**SPECIAL LOW PRICES ON ALL... Spring Bulbs...PLANTS**  
**F. W. O. SCHMITZ, ETC., ETC. JERSEY CITY, N. J.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**50,000 COPIES OF AMERICAN GARDENING**  
 WILL BE MAILED TO

**50,000 Buyers of Seeds and Plants SATURDAY, MARCH 13, 1897.**

We believe advertisers generally will recognize the value of a thorough representation in this Special Edition, and he herewith solicit your patronage.  
 Advertising Pays  
 But Advertising in American Gardening Pays Best.  
 No advance in rates over our regular charge of 25 cents per agate line will be made. Copy for your advt. in this issue must be in our hands not later than March 6th.  
**AMERICAN GARDENING, P. O. Box 1697, NEW YORK.**

**RELIABLE HOLLAND CABBAGE AND OTHER VEGETABLE SEEDS.**  
 Grown by VAN NAMEN BROS., HOLLAND. Contracts for future delivery booked. For catalogue address  
**C. H. JOOSTEN, Sole Agent, 193 Greenwich St., New York.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Single Begonia Bulbs**  
 in separate colors. Per 100, \$2.00; per 1000, \$20.00.  
**Tuberoses** in separate colors. Per 100, \$2.00; per 1000, \$20.00. All other seasons. Ask for price list.  
**HULSEBOSCH BROS., Englewood, N. J.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**PALM SEED.**  
 Washington-Sonora, Per 100, \$1.00; per 500, \$5.00; per 1000, \$5.00.  
**CALIFORNIA NURSERY CO., Milas, Cal.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**WE ARE NOW OPENING ON BULBS FOR FORCING, FLOWER SEEDS FOR FLORISTS, ENGLISH MUSHROOM SPAWN.**  
**SPECIAL PRICES ON APPLICATION.**  
**JOHN GARDNER & CO., Seedsmen, Box 1306, Philadelphia, Pa.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# Free Seed Distribution Must be Abolished.

The Senate's amendments to the Agricultural Bill (incorporating a provision for the expenditure of \$150,000 for the purchase of seeds for free distribution) will not be agreed to, if at all, until approved by the Conference Committee to which it must be referred. Meantime, there is fair opportunity for making assaults upon the whole system of gratuities.

## Free Seed Distribution.

Through the courtesy of Mr. Burpee, we are enabled to publish some further communications which have passed between him and the Secretary of Agriculture, of course, that is, the subject of free seed distribution by the Government.

United States Department of Agriculture, Office of the Secretary, Washington, D. C.

W. Atlee Burpee, Esq., Philadelphia, Pa., Feb. 10, 1897.

Dear Sir: It is not possible to unite the seed growers and dealers of the United States in a demand for the extension of gratuitous distribution of seed through Governmental agencies. Can they not be induced to make such a demand to the National Treasury, which belongs to all of the American people, for the purpose of carrying out a policy which is so obviously for the benefit of the American people? Why should not such a protest plainly state the fact that the seed purchased with public money and distributed at great carrying cost to the Government, comes in competition with people who are already in the market with seed thus bought at wholesale and given away and delivered throughout the country at retail.

Why not show that the distribution by Government gives the farmer about 25-35¢ per 264 packets, which at 5 cents a packet (retail price) would be more than a million seeds for the farmer. The number of packets there are many which at retail sell for 10 cents or more, each. Therefore, it is a waste of money to make the Government of the United States beaten by this economy-y dissemination out of something like one million dollars a year made in a single year. And the evil is growing.

The American people like fair play. Yours respectfully,  
(Signed) J. STERLING MORTON, Secretary.

Editor Florists' Exchange: I have the honor to thank you most heartily for the admirable editorial in to-day's (Saturday, February 13) "Exchange," which I read with much interest. I enclose herewith, with letter, as per copy inclosed.

I think we should keep hammering on this question, until the Government of Wilson, who is to become the new Secretary of Agriculture, whatever may be his present views, will realize that this measure is deserving of the condemnation which Secretary Morton has so continuously and vigorously expressed.

I have pleasure in inclosing you a copy of a letter of Feb. 13, received to-day from Secretary Morton. I have no doubt you will publish in next week's "Exchange." I also inclose copy of my letter to Secretary Morton, and a copy from Secretary Morton, also a copy of my letter of yesterday, which crossed the Secretary's.

Hon. J. Sterling Morton, Secretary of Agriculture, Office of the Secretary, Washington, D. C., Feb. 12, 1897.  
Dear Sir—It was very much pleased to receive your favor of the 10th inst. Unfortunately, the Secretary of Agriculture holds its annual meeting in June, and it would be impossible to now secure consideration of this matter.

W. Atlee Burpee, Esq., Philadelphia, Pa., Feb. 11, 1897.  
Hon. J. Sterling Morton, Secretary of Agriculture, Washington, D. C.

Dear Sir—When I saw your yesterday I was really in hopes that the Senate of the United States, having had so much data before them, would be induced to repeal the Agricultural bill again, containing the appropriation for the purchase of seeds. You are, of course, right, then, when I find that this bill had already been passed, even with an increased appropriation for the purchase of seeds.

While I regret extremely that you cannot see the fruit of your work to abolish the gratuitous distribution of seeds, I am sorry for leaving your office, and while I have no means of knowing what position Mr. Morton will take in the matter, yet I

really think that if properly followed up your efforts can yet meet with success.

It is my present intention during the summer to prepare matter for the press, which, by mailing to probably 10,000 papers in the United States, will, I think, result in getting thousands of protests from the readers of these papers addressed to their members of Congress.

I know, of course, that all leading horticulturists, as well as seedsmen, will gladly co-operate to present a solid front against a further continuance of this promiscuous distribution of seeds.

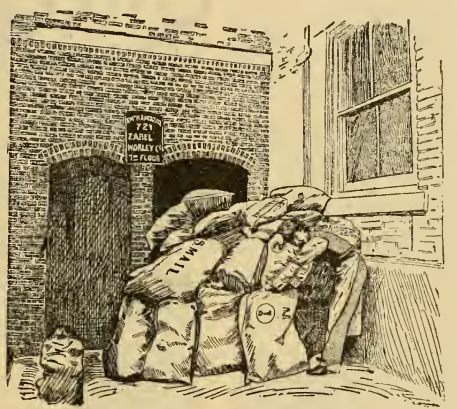
I am convinced that the strength of the advocate of free seed in the House of Representatives rests largely upon a misconception—that is, that the members of Congress think their rural constituents are flattered and honored by the receipt of a package of seeds. Now, from our own knowledge in filling the Government contract this year, I believe the majority of recipients, instead of being pleased, will

ending June 30, 1897, will compactly load 77 of the largest United States mail cars. The Senate has now determined that there must be \$150,000 invested in seeds for the next distribution, and if the same quantity of the same sort of seeds is bought for next year's distribution, at the same price, they will fill nearly eighty-nine cars.

In 1892, \$1,000 were appropriated for the purchase of "rare, valuable and improved" seeds, not common to the country, to be distributed for experimental purposes among intelligent gardeners and farmers, with the instructions to report their individual successes in the cultivation thereof. But the law as now amended ignores the original purpose of its inception and enactment. Only common varieties are distributed. Instead of \$1,000, there is appropriated in the year 1897, \$150,000. If, during the next fifty-eight years, the sum increases in the same arithmetical proportion as it has since that first \$1,000 was invested in seeds for gratuitous distribution, it will aggregate the enormous sum of \$2,500,000.

(Signed) J. STERLING MORTON, Secretary.

Hon. J. Sterling Morton, Secretary of Agriculture, Washington, D. C.  
Dear Sir—Enclosed find with thanks receipt of your favor of the 12th inst. As stated in my letter of yesterday, I feel quite confident that by thorough publicity in your papers throughout the United States next winter, the promiscuous distribution of



## ONE MEMBER'S QUOTA.

(Reproduced from the "Philadelphia Ledger.")

be disappointed, because they will in many cases obtain seeds of varieties which they do not care to grow in their gardens.

W. ATLEE BURPEE, Philadelphia, Feb. 12, 1897.  
United States Department of Agriculture, Office of the Secretary, Washington, D. C.

W. A. Burpee, Esq., Philadelphia, Pa.  
Dear Sir—I have yours of the 11th with enclosures. The action of the Senate seems for the time to perpetuate and increase the disbursement of public funds for the gratuitous and promiscuous distribution of garden and flower seeds through Governmental agencies in the United States. However, this does not change my views of the duties of men in public and private life who desire the return of the Government to something of the frugality and economy which was practiced by its founders. They never believed it the duty of the Government to give to the citizen anything for which he has not paid, or to maintain and economical administration.

Unless a full stop can soon be put to this gratuitous distribution of seeds, it will grow to an enormity, which will eventually destroy the retail seed trade of the United States. No branch of industry can succeed financially as a competitor with gratuities.  
The seeds distributed for the fiscal year

seeds can be made so unpopular that members of Congress will begin to realize that the Government is expending money for the paper class who desire something for nothing. Inclosed I hand you editorial from the "Florists' Exchange," today, and think you will agree with me that the editor has "niced" up the whole situation admirably in the sentences: "The only good thing it is a good thing, accomplished by the seed distributors, is the possible capture of votes by Congressmen from country districts."  
W. ATLEE BURPEE, Philadelphia, Feb. 13, 1897.

United States Department of Agriculture, Office of the Secretary, Washington, D. C., February 13, 1897.

W. Atlee Burpee, Esq., Philadelphia, Pa.  
Dear Sir—I have your of the 12th inclosed herewith from the "Philadelphia Times" of that date, and also copies of telegrams and letters.

The Agricultural bill will have to be referred to your conference committee. The Senate's amendments will not be agreed to, except after that committee's action is known. There is no opportunity for making assaults upon the whole system of gratuities. Yours respectfully,  
(Signed) J. STERLING MORTON, Secretary.

Mr. T. W. Wood, President American Seed Trade Association, Richmond, Va.  
Dear Sir—You have doubtless seen al-

ready by the trade papers that I am trying to use several vigorous letters received for free seed distribution. I am confident that the Seed Clause of the Agricultural Appropriation bill may yet be defeated, and I am glad to see that the "Philadelphia Times," and an quite sure that a number of papers this week will have articles on the subject.

Now, as this work was only begun after the bill had passed Congress this year, I fear it may possibly fail of immediate result.

I am, however, convinced that with proper executive cooperation we can make an appeal so popular that the first year of the new Administration will be the last year of the Governmental distribution of seeds promiscuously.

As I was unable to meet you with the Executive Committee in New York, I will write now to ask if it would be agreeable to you, in the event of the bill passing this year for me to take a paper before the meeting of the American Trade Association in June, 1897, when I think we could secure the cooperation of all seedsmen in a determined effort to defeat this form of Governmental paternalism.

I am, however, convinced that with proper executive cooperation we can make an appeal so popular that the first year of the new Administration will be the last year of the Governmental distribution of seeds promiscuously.

(Signed) T. W. WOOD, Secretary.

W. ATLEE BURPEE, Esq., Philadelphia, Pa., Feb. 17, 1897.

W. ATLEE BURPEE, Esq., Phila. Pa., Feb. 17, 1897.  
Dear Sir—I received yours of the 15th inst. We regret that we did not have you at our executive committee meeting. We made a program, and in it we allowed time for the consideration of the government seed distribution and you were inclined to think it would be desirable to have another paper; so, as you have so kindly offered to supply it, I am quite sure that the Association will be glad to hear you upon the subject indicated; that is, in your opinion, to the free distribution of seeds by the Government. I have been thinking of writing you several articles before the convention opens in Washington, inviting the large number of our countrymen to attend, as well as others, to join and co-operate with us, with a view of killing the Governmental distribution of seeds.

I think that probably this could be accomplished by the employment of an energetic man to copy and distribute the appropriation, by co-operation with the seedsmen, and in inducing all the members of Congress to write to their congressmen, opposing the appropriation, as unquestionably it pertains to the property of the people, as well as the larger seedsmen. These petitions would undoubtedly have their effect, in addition to the work that can be done through newspapers. I do not fear but that if we make a getting message to get to the matter, the appropriations will cease.

Should be glad to have any views from you in reference to the matter, and hope you will prepare the paper, which I will advise Mr. Don to have announced in the program.  
T. W. WOOD.

It is highly encouraging to notice that many of our countrymen are beginning to feel that cities have already taken up the fight against the continuance of Free Seed Distribution. I have been thinking of writing you several articles before the convention opens in Massachusetts, a banner State in all that tends to the development of agriculture. I am confident that you will nobly by refusing their sanction to the measure. Denounce it with vigor of life, and do not allow it to pass unopposed. Spread the facts broadcast, around the people, and show them that this bill threatens to every business man, and it will be stamped out as an would a plague.

The subjoined editorial from the "Mail and Express" (New York), of Feb. 17, is a fair expression of the manner in which free seed distribution is looked upon by those leading papers whose editors have given it attention:

## STOP THE FREE SEED BUSINESS.

It is sincerely to be hoped that the Agricultural Appropriation bill, which has just passed both houses of Congress, will be the last to contain an appropriation for the free distribution of seeds. The sum of \$150,000 of the people's money for any such purpose is a mistake and extravagance. It is a waste of money. The Congressmen with vast quantities of garden and flower seeds at Government expense for gratuitous distribution mope in their

constituents has developed into an abuse of confidence, and it is sooner it is abolished the better for all reputable interests.

Whoever plans to provide free seeds for those who cannot afford to buy them, or whose crops have been destroyed by fire or insect, or whose crops are all right, but practically it is all wrong. The distribution is inefficient and frequently unjust. The seed is too often sent to those who neither need nor deserve it, while those to whom it would be of real assistance get but a paltry allowance. The practice is generally regarded by him as a part of his working campaign material, and he rarely gives it to those who are in the most good for his own political interests, without considering the real needs of his constituents. It is a little more than a virtual gift, and it is a little more than a political machinery, and the appropriation which supports it is a little more than a campaign fund under Congressional direction.

This free seed custom is a species of petty paternalism of the worst kind. Its entire benefit would be indicated by an overwhelming majority of the farmers and other persons who buy seeds from year to year, and who are opposed by nobody but a few persons here and there, who are opposed by their favoritism. The system is unbusinesslike, it is demoralizing, and it should be crushed once for all by the incoming Congress.

Free Seed Distribution.

In view of the pressing importance of the subject we reprint editorial from the Florists' Exchange, issue of 13th inst.:

"We append here a question as to the fact that the free distribution of seeds by the United States Government is a direct violation of the principles of the American people, and the principal object of the doctrine of protection and development of the land and deserving industries. The seed-growing industry in this country is one of its swaddling clothes, so to speak. It is a healthy, honest and honorable business. The free distribution of seeds is necessarily fairly intelligent and should be discontinued as a matter of course."

"It may be said that persons with a prohibitive tariff on seeds, those distributed by the Government will necessarily be put out on our own and our own growers will have the benefit and profit of a home market. This might be an argument if it were not for the fact that the free growers or wholesale dealers at market prices, but when the contract is given to the lowest bidder it leaves the growers at the mercy of the contractors.

"The fact is the free seed distributed degrades the seed and plant, and it hurts otherwise connected with it. As an evidence of how the seed trade is affected, it may be stated that the Government ease into its very vitals by distributing those seeds which, during times such as the present, form the mainstay of the business, those from which culinary products are obtained. Vegetable seeds form the bulk of the output by the Government, and at times luxuries are dispensed with, and only bare necessities are purchased. Flower seeds are considered luxuries, and in times like these are not in request, and the seedsmen must look to a trade being done in vegetable or farm seeds to which they can carry on his business; and here the Government steps in and frustrates him in the attempt.

"The American farmer or gardener is not a pauper. He would be abundantly able to buy what seeds he needs, and he would be barely compensated for his produce. "At this time thousands of planters are holding off, waiting to see what they may get from Washington before placing their orders with the florist or seedsmen. In fact, we are not sure but that there is more harm done to the seed trade in this way than from the actual competition from the free distribution. It is a fact that last year many country people made up a list of the seeds they required and sent it to their Congressmen, and when they received the fully assorted packets it was too late to purchase and plant many of the vegetables, etc., actually needed in the family garden.

"I only need think, if it is a good thing, that the free seed distribution is a necessary and possible capture of votes by Congressmen from country districts. The had results are the demoralization of the seed and infant home industry, the degradation of the seed and the forms of American labor and the placing of the seed class of other wise independent citizens to one of the worst forms of paternalism—the assumption of pauperism—and the practical forcing of alms upon those who neither need nor

desire them. What farmers, florists, gardeners, fruit growers, etc., need is a free, free, advice and the assistance of the Government in developing profitable markets for their surplus products."

European Notes.

Hardly had last week's notes been dispatched before a complete and most disagreeable change set in, and with the exception of the north of Scotland, where the thermometer has just touched zero, we are enveloped in continuous warm and drenching rain. In England the Thames has already risen 42 inches above its proper height, while many of the growers report the land containing their plants for next season's crops as completely submerged. While this primarily affects the European seedsmen, it will also affect some of the large growers of peas on your side. It is well within the mark to say that it has not realized, possibly to sow peas with any reasonable prospect of success since the beginning of last October; it is now too late to sow first early varieties, and the surplus of these to be carried over is very large. In view of existing conditions growing conditions are not so favorable for such sorts as Telegraph, Cooper's Goliath and Filibuster, for all of which the demand is still considerable.

The anticipated rise in the value of blue holling peas and haricot beans has not been realized, owing to the return of milder weather. Judging by the prices realized here, the Wisconsin growers must be losing money fast.

In market seeds clovers have gone down with a rush. Rape and mustard, that will have to be relied upon for winter crops, have risen in value, and in bird seeds sainfoin is fetching a rather better price. Hemp is practically unmarketable. Turned and Canterbury are in good demand at fairly remunerative prices.

Following the example set by the Florists' Exchange, the Gardeners' Chronicle, which is the leading trade paper in Western Europe, has started a new column of American notes, embracing all matters of interest to the plant and seed trade. This is undoubtedly a step in the right direction.

Despite the unprofitable conditions of the seed trade, the horticultural press, led by the leading retail houses have been more elegant and elaborate than ever; and the Horticultural Catalogue, published by the jubilee catalogue just received from Peter Henderson & Co. A fac-simile reprint of the Horticultural Catalogue, published by the jubilee catalogue just received from Peter Henderson & Co. A fac-simile reprint of the Horticultural Catalogue, published by the jubilee catalogue just received from Peter Henderson & Co. A fac-simile reprint of the Horticultural Catalogue, published by the jubilee catalogue just received from Peter Henderson & Co.

An account of the death of William Elliott is sad reading to the writer.

EUROPEAN SEEDS.

**KOSA WICHERAIANA** (Memorial Rose) extra, heavy Japanese running rose, open grand plant, well rooted, 4 to 5 inches, 2¢ per 100. **GIADOLI'S**, 2¢ choice plants, well rooted, all colors, 10¢ per 100. **OXALIS**, for Summer bedding, 4 distinct colors, well rooted, all colors, 10¢ per 100. **ST. PETERSBURG**, 4 distinct colors, well rooted, all colors, 10¢ per 100. **HIBISCUS**, Crimson Eye, hardy, barbedose, 10¢ per 100. **ST. PETERSBURG**, 4 distinct colors, well rooted, all colors, 10¢ per 100.

**E. Y. TEAS**, Seedsmen, Irvington, Ind. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**PEARL BESEES**. Good 3 to 4 inch Pearl Escalator, \$3.00 per 100; 2500 for \$25.00 cash. S. S. Raitt, New York, 87c, per 100 lbs.

**CULF CAST FLORISTS**, Dickinson, New York City. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**POPPERS**. Large, white-flowering, fine, large, strong roots, \$1.50 per doz.; \$3.00 per 100. Address, **C. L. HAGAR**, Florist and Gardener, Lock Box 52, RANDOLPH, MASS.

**ANTERS**, Giant White Comet, pkt., 25¢. oz., \$2.00. Tall Victoria, mixed, pkt., 15¢. oz., \$1.50. Queen of the Market, mixed, 15¢. oz., 75¢. Queen of the Market, mixed, 15¢. oz., 75¢. (Separate colors all sold.) **Danils**, 15¢. oz., 75¢. **Gypsophila**, White, pkt., 10¢. **Agave**, Carnation, trade pkt., 10¢. **Phlox**, mixed, 15¢. oz., 75¢. **Cauliflow**, Bellise, novel, pkt., 15¢. Write for sample and get your orders in before the period of distribution closes.

**H. BEAULIEU**, Woodhaven, N. Y. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

CHOICE CELERY SEED.

Having a surplus of White Plume, Golden Self Blanching, New Giant, French, and Dwarf Golden Heart, I will mail at \$1.00 per bushel, in lots of 100 bushels or more. These are strictly first-class, 1895 crop and tested for purity. Get some at 25¢ each in exchange.

**ISAAC F. TILLINGHAST, Ag't., La Plume, Pa.** WHEN WRITING MENTION THE FLORISTS' EXCHANGE

FROSTED PEACH SEED.

I am prepared to supply No. 1 Natural Sweet Peas, Ready for sowing, at \$1.50 per bushel; one barrel of 3 bushels for \$1.00. Sample by mail to those who wish to purchase. Also Jersey Yellow and Red Sweet Potato Seeds in their season at \$1.50 per bushel of full 3 bushels. Packed to carry safely. All in first-class condition. Address

**CHARLES BLACK, Hightstown, N. J.** WHEN WRITING MENTION THE FLORISTS' EXCHANGE

A MONEY MAKER!

Our New Flower Seed Box, in compartments containing 20 packets. Flower Seeds, Asters, Narcissus, Zinnia, Petunia, Sweet Alysium, Sweet Peas, etc., in attractive packets for retailing, delivered by mail, at retail value. The new special order to introduce them boxes. 20 full size packets, 10¢ per packet, to send for \$1.00.

**H. G. FAUST & CO.**, 64 & 66 West Street, PHILADELPHIA, PA. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WOMEN'S SEEDS FOR PASTURE

In same size packets, the Seven Superb Sweet Peas described below would have cost \$3.10 in 1894, but are sold now for only 25 cents.

25 Cts. buys these Seven Superb Sweet Peas:

- CROWN JEWEL**. Fine standards, tinted and veined with violet-red; the wings are creamy, slightly tinted with rose; a most profuse bloomer.
- GRAY FRIAR**. Entirely unlike any other Sweet Pea. A most beautiful variety, on a strong growth, the hoaviest colored and largest, are born 3 and four on a stem.
- LITTLE DORRIT**. Cream-colored pink; standard of finest form, large white wing, slightly tinted, the colors beautifully blended. A superb variety, on a superbly lovely raceme.
- METEOR**. Truly an exquisite variety. Standards bright orange-salmon, wings delicate pink, with slight veins of purple.
- DRS. JES. CHARBRELAIN**. The flowers are truly monstrous, and produced generally three to four on a stem. The color is very effective—white ground heavily striped and flaked bright rose; of the form, very striking.
- RAMONA**. Grand flowers of very large size, born three or four to the stem; color creamy-white, daintily splashed with pink.

"1897" Special Superfine Mix. This mixture is composed of Twenty-three of the finest New-Flax-Plowed Sweet Peas, which is a choice blending of each separately and mixed by ourselves, which can be easily recognized when in flower.

25 Cts. Superb Sweet Peas, each in full-size, separate packet, true to name as described, and mailed, postpaid, to any address.

For ONE DOLLAR we will send five complete sets (30 pkts.), and give FREE as a premium one full-size packet each of **CLIPPER** and **BOKRA**. The flowers are truly monstrous, and produced generally to get up a couple of Five for One Dollar.

With every collection we enclose a copy of "How to Grow High-Grade Sweet Peas at the HAMPTON MEYDING." This plainly justifies its name, and is one of the best and most practical treatises on the Great High-Grade Sweet Peas, which are contained in this unequalled collection.

BURPEE'S SEEDS GROW!

We will mail FREE to any address

BURPEE'S Farm Annual

For 1897. The Leading American Seed Catalogue. A handsome new book written at Fordhook Farm, tells all about the BEST SEEDS That Grow. Contains full particulars on all the best vegetables and beautiful rare flowers planted from Nature.

Send a postal card for IT TO-DAY! **W. ATLEE BURPEE & CO.**, Seed Growers, PHILADELPHIA.

Tree in Nature and in Mind. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

JUST EXACTLY HOW TO FORCE VEGETABLES UNDER GLASS

is Fully Explained, with Illustrations in

THE FORCING BOOK

By Prof. L. H. BAILEY, IN THE GARDEN-CRAFT SERIES

The results of extended experiments at Cornell are worked out to the experience of successful growers.

THE FORCING-BOOK tells in plain language—

- How to build, heat, light, ventilate, and manage Forcing-houses economically.
How to pollinate, water, fertilize or use electric light for "hurry" crops.
How to successfully force for early market Lettuce, Radishes, Cauliflower, Asparagus, Tomatoes, Cucumbers, Melons, etc.

Bound in flexible cloth, for pocket use, 566 pp. 16mo. Will be mailed by the publishers on receipt of price, \$1.00. Send for a circular of other volumes in this series.

THE MACMILLAN COMPANY, 66 Fifth Ave., New York

GERANIUMS AND VIOLETS.

Geraniums.—Best single, double and semi-double varieties for forcing under glass.
Violas.—Best for forcing under glass.
When writing mention the Florists' Exchange.

M. B. WEAVER & BRO., Wheatland Mills, Pa.

When writing mention the Florists' Exchange.
Selaginella Emilitana. 3 1/2 inch pots, extra fine, bushy, 5/6c.
2 1/2 inch, ready for sale, 2/6c.

Nephrolepis davallodes, ferns.

Standard 4 inch stalks at 25c. Full extra fine, full pans, 8 and 10 inch, at 75c., \$1.00 and \$1.25.

N. exaltata Bostonensis, etc. 6 inch pans, 10c.
N. Hill crest, all kinds, stiff, cheap for acre. Careful packers.

R. G. HANFORD, Norwalk, Conn.

HAVE YOUR COLLECTIONS MADE UP THROUGH THE NATIONAL FLORISTS' BOARD OF TRADE, 271 BROADWAY, NEW YORK.

When writing mention the Florists' Exchange.

EVERY FLORIST OUGHT TO INSURE HIS GLASS AGAINST HAIL.

For particulars address JOHN G. ENLER, Secy, Middle River, N. J.

TOBACCO STEMS

Large Bales (800 lbs.), \$1.50.
Tobacco Dust, 2c. per lb.
Kaffia, the best material for tying, does not injure the plants; it goes farthest and is cheapest; first quality long fibre at 1c. a lb.; 2c. for 1 1/2 lb.

H. G. FAUST & CO., 64 & 66 N. Front St., Philadelphia, Pa.

When writing mention the Florists' Exchange.

MUST SELL OR EXCHANGE.

Aster Seed, Viek's Branching, pink and white, etc.
Rotted Coleus, Alternantheras, etc.
New Yellow Daisies \$2.00 per 100.
Geraniums, rooted and potted, \$1.00 and \$2.00 per 100.

Chrysanthemums, Pansies and Palmettes, etc.
W. W. HODDGE, Florist, 112 E. 11th St., N. Y.
When writing mention the Florists' Exchange.

VEGETABLE PLANTS.

LETTUCE, Big Boston and Grand Rapids, etc.
CABBAGE, Jersey Wakefield and other varieties.
TOMATOES, No. ready, small plants for cultivation; blooming from 30 to 45 days earlier than the old variety; producing four or five different sized and shaped blooms; fruit to seven inches in diameter. The flowers are pure white.

Plants now ready to sell from 3/4c plants up, at \$1.00 per doz.; \$7.00 per 100. No less than 50 plants at 100 rates. Cash with order. Order for May will be booked now.

R. V. VINCENT JR. & SON, White Marsh, Md.

When writing mention the Florists' Exchange.

Indispensable.
The Florists' Exchange continues all the time to be indispensable in a florist's business, especially for its developments.
ARTHUR BOYLE, Santa Fe, New Mexico, Jan. 7, '97.

American Carnation Society

SIXTH ANNUAL MEETING,

CINCINNATI, FEB. 18th and 19th 1897.

The Exhibition.

At the exhibition, held in College Hall, on Thursday forenoon, there was a large attendance, and almost as great vitality as the parent association. He referred to the criticism in carnation culture as surpassing that of growers in larger centers and thanked the visitors' hosts for their hospitality.

The Nomenclature Committee reported forty varieties had been registered during the past year, but complained of their work having been much hampered by many varieties being registered but not registered, and advised the society not to recognize such.

This Committee also recommended that originators obtain consent before naming a variety after individuals.

The President's address was discussed by Messrs. Ward, Scott, Hill, Michel and Dornier. Recommendations were made by Messrs. Ward, Scott, Hill, Michel and Dornier. Recommendations were made by Messrs. Ward, Scott, Hill, Michel and Dornier.

Wm. Murphy took the Witterstaetter prize for best 100 blooms of exhibition with Flora Hill.

Wm. Murphy took the Witterstaetter prize for best 100 blooms of exhibition with Flora Hill.

Wm. Murphy took the Witterstaetter prize for best 100 blooms of exhibition with Flora Hill.

Wm. Murphy took the Witterstaetter prize for best 100 blooms of exhibition with Flora Hill.

Wm. Murphy took the Witterstaetter prize for best 100 blooms of exhibition with Flora Hill.

Wm. Murphy took the Witterstaetter prize for best 100 blooms of exhibition with Flora Hill.

Wm. Murphy took the Witterstaetter prize for best 100 blooms of exhibition with Flora Hill.

Wm. Murphy took the Witterstaetter prize for best 100 blooms of exhibition with Flora Hill.

Wm. Murphy took the Witterstaetter prize for best 100 blooms of exhibition with Flora Hill.

Wm. Murphy took the Witterstaetter prize for best 100 blooms of exhibition with Flora Hill.

Wm. Murphy took the Witterstaetter prize for best 100 blooms of exhibition with Flora Hill.

Wm. Murphy took the Witterstaetter prize for best 100 blooms of exhibition with Flora Hill.

Wm. Murphy took the Witterstaetter prize for best 100 blooms of exhibition with Flora Hill.

Wm. Murphy took the Witterstaetter prize for best 100 blooms of exhibition with Flora Hill.

Wm. Murphy took the Witterstaetter prize for best 100 blooms of exhibition with Flora Hill.

Wm. Murphy took the Witterstaetter prize for best 100 blooms of exhibition with Flora Hill.

Wm. Murphy took the Witterstaetter prize for best 100 blooms of exhibition with Flora Hill.

Wm. Murphy took the Witterstaetter prize for best 100 blooms of exhibition with Flora Hill.

Wm. Murphy took the Witterstaetter prize for best 100 blooms of exhibition with Flora Hill.

Wm. Murphy took the Witterstaetter prize for best 100 blooms of exhibition with Flora Hill.

Wm. Murphy took the Witterstaetter prize for best 100 blooms of exhibition with Flora Hill.

Wm. Murphy took the Witterstaetter prize for best 100 blooms of exhibition with Flora Hill.

Wm. Murphy took the Witterstaetter prize for best 100 blooms of exhibition with Flora Hill.

Wm. Murphy took the Witterstaetter prize for best 100 blooms of exhibition with Flora Hill.

THE BARGAIN

We have the following Rooted Cuttings Carnations from flats, strong, healthy and no rust:

Table listing various carnation varieties and their prices, such as 1500 Little McGowan, 1000 Red Wood, 2000 Pariah, etc.

When writing mention the Florists' Exchange.

MORRIS FLORAL CO., MORRIS, ILL.

When writing mention the Florists' Exchange.

Rooted Cuttings.

GERANIUMS, choice named, \$1.00 per 1000.
VERBENAS, - - - - - 75 6.00
COLEUS, 30 varieties, - - - - - 6.00 5.00
HELIOTROPE, 3, - - - - - 1.00 8.00
AGERATUM, white, pink and blue 75 6.00
When writing mention the Florists' Exchange.

TERMS: Cash with order.

CHAS. E. SMITH, Cor Jefferson and Jackson Aves., YORK, PA.

...ROOTED... ROSE CUTTINGS.

Healthily, well-rooted cuttings from the best flowering wood.

Metee, Siebrecht, Wootton, Sunset, Perle, Hyde, Bridemaid, \$1.50 per 100.
Trotton, \$2.00 per 100. Beauty, \$2.50 per 100.

CARNATIONS.

Strong, healthy, well-rooted cuttings, \$1.50 per 100.
Tidal Wave, Scott, Rose Queen, \$2.00 per 100.

L. L. MAY & CO., St. Paul, Minn.

When writing mention the Florists' Exchange.

WE MAKE A SPECIALTY OF GROWING A. W. SMITH'S HYBRID VIOLETS

(Iponaea Noctiflora).

The above are strictly the best Moonflowers in cultivation; blooming from 30 to 45 days earlier than the old variety; producing four or five different sized and shaped blooms; fruit to seven inches in diameter. The flowers are pure white.

Plants now ready to sell from 3/4c plants up, at \$1.00 per doz.; \$7.00 per 100. No less than 50 plants at 100 rates. Cash with order. Order for May will be booked now.

CODREY ASCHMANN, 105 Ontario St., St. Louis, Philadelphia, Pa.

form, pointing out the progress of the Carnation Society, which had grown to be of great importance and almost as great vitality as the parent association. He referred to the criticism in carnation culture as surpassing that of growers in larger centers and thanked the visitors' hosts for their hospitality.

Secretary Albert M. Herr, of Lancaster, Pa., reported little change in membership. He endorsed the suggestion of the Executive Committee that the society should be open to members, which has been done.

Treasurer Charles H. Allen was unavoidably detained from the meeting, owing to the illness of Mrs. Hill.

The Nomenclature Committee reported forty varieties had been registered during the past year, but complained of their work having been much hampered by many varieties being registered but not registered, and advised the society not to recognize such.

This Committee also recommended that originators obtain consent before naming a variety after individuals.

The President's address was discussed by Messrs. Ward, Scott, Hill, Michel and Dornier. Recommendations were made by Messrs. Ward, Scott, Hill, Michel and Dornier.

Wm. Murphy took the Witterstaetter prize for best 100 blooms of exhibition with Flora Hill.

Wm. Murphy took the Witterstaetter prize for best 100 blooms of exhibition with Flora Hill.

Wm. Murphy took the Witterstaetter prize for best 100 blooms of exhibition with Flora Hill.

Wm. Murphy took the Witterstaetter prize for best 100 blooms of exhibition with Flora Hill.

Wm. Murphy took the Witterstaetter prize for best 100 blooms of exhibition with Flora Hill.

Wm. Murphy took the Witterstaetter prize for best 100 blooms of exhibition with Flora Hill.

Wm. Murphy took the Witterstaetter prize for best 100 blooms of exhibition with Flora Hill.

Wm. Murphy took the Witterstaetter prize for best 100 blooms of exhibition with Flora Hill.

Wm. Murphy took the Witterstaetter prize for best 100 blooms of exhibition with Flora Hill.

Wm. Murphy took the Witterstaetter prize for best 100 blooms of exhibition with Flora Hill.

Wm. Murphy took the Witterstaetter prize for best 100 blooms of exhibition with Flora Hill.

Wm. Murphy took the Witterstaetter prize for best 100 blooms of exhibition with Flora Hill.

Wm. Murphy took the Witterstaetter prize for best 100 blooms of exhibition with Flora Hill.

Wm. Murphy took the Witterstaetter prize for best 100 blooms of exhibition with Flora Hill.

Wm. Murphy took the Witterstaetter prize for best 100 blooms of exhibition with Flora Hill.

Wm. Murphy took the Witterstaetter prize for best 100 blooms of exhibition with Flora Hill.

Wm. Murphy took the Witterstaetter prize for best 100 blooms of exhibition with Flora Hill.

Wm. Murphy took the Witterstaetter prize for best 100 blooms of exhibition with Flora Hill.

Wm. Murphy took the Witterstaetter prize for best 100 blooms of exhibition with Flora Hill.

Wm. Murphy took the Witterstaetter prize for best 100 blooms of exhibition with Flora Hill.

Wm. Murphy took the Witterstaetter prize for best 100 blooms of exhibition with Flora Hill.

Wm. Murphy took the Witterstaetter prize for best 100 blooms of exhibition with Flora Hill.

Wm. Murphy took the Witterstaetter prize for best 100 blooms of exhibition with Flora Hill.

Wm. Murphy took the Witterstaetter prize for best 100 blooms of exhibition with Flora Hill.

Wm. Murphy took the Witterstaetter prize for best 100 blooms of exhibition with Flora Hill.

cross-fertilization, and these, in time, make their appearance at our annual exhibitions to compete for the society's certificate of merit.

At our meeting in Cleveland last August we adopted a scale of points to be given to each variety, and to the different varieties that come in competition for this certificate. It remains to be seen whether this scale will be of any value in determining which commercial varieties than heretofore.

Should we not also adopt another scale to be given to certain varieties of carnations? I would include first class blooms, but sparingly; I would include Mrs. Diaz, Mrs. Deane, Mrs. Deane, Mrs. Deane, etc. There are not generally cultivated as commercial varieties.

Our society has not used the same scale at two successive meetings. Should this scale prove satisfactory let it remain in force; should the contrary be the case, let us have your opinions freely as to wherein lies its weak points. This should be given your most careful consideration. Have it as perfect as possible and then adopt it permanently. We certainly should adopt a scale to be used in judging our standard varieties, which we call for annually. It would be more satisfactory to have a scale that would be used in judging exhibits more intelligently; it would probably increase the number of our exhibitors, and it would be a more desirable request committees, who have the management of our Fall exhibitions, to use our scale in making their selections. We should schedule a call for them, for a certificate or special prize, and report the results to our members in force; should we not do so at our annual report, and by this means members would be enabled to become better acquainted with the merits of the flowers in the early Winter months.

The action of the Florists' Society in Boston, in requesting the different societies' clubs to appoint committees to pass on all new carnations in their vicinity, was a fine idea. It would be desirable to encourage special carnation exhibits at the December meetings, by continuing to send exhibitors a certificate not only for the annual report more valuable, but would increase the demand for high grade blooms in the market. Those in charge, in general, where these exhibitions are held. Here, in Cincinnati, we held our carnation exhibits in the display in the winter, and if those interested could but realize what a fine advertisement they would be, they would hesitate to undertake them at that time in their own cities.

At our meeting at New York your president, in his address, touched upon the subject of registration, and the number that are retained in the hands of the exhibitor beyond their place of birth, and most of which are now entirely extinct.

In our last report we had eighty new carnation registers of which seven have been disseminated and six more are offered; and if we add twelve more it will amount to about all that list of eighty that will ever be heard from. Of what value is so large a list of names when we have no one to refer to? The only benefit derived is that it will prevent the duplication of names. But of what benefit is it to have a list of names when we have a view to finding those in cultivation?

It has been the custom of growers of new carnations to send in their names with each year seedlings. When the time arrives for its dissemination something comes to light that is not in the list, and is worthless. It is then consigned to the rubbish heap, respect, variety and all. Nothing new is sent in, and the name is never indicated that such a variety really existed. Why should this name be left there? If we cannot by any means prevent these names from multiplying, let us at least prevent them from our circulation. Let us have a roll we shall use to inform our members. We are not growing as fast as we are in the past. It is a pity that so many have been named the "Rooted Cutting Society." If such impressions still exist, we should not so much insist on the name in convention but what they transmit more or less business. Let us show by our conduct our attention to the members who are prompt at the opening of our meetings and invite non-members to come with us to see the carnations. Let us have an enthusiasm that is possessed by ourselves.

Another opportunity would be at the exhibitions of the different Florists' Clubs, and a name should be given to each variety that will come to our annual exhibition. All those who are engaged in the cultivation of the carnation should be given a name, the duty of becoming members and of sharing the burdens of this society, for they are the ones who bear the burden of the carnation, which can justly be attributed to this society.

Do not let us become over-confident in our strength, as therein lies our danger. Let us be active in collecting new members. Let each one of us be very careful, which requires constant care and watchfulness to develop it into a vigorous plant. Let us be very careful to do something for the welfare of this association, no matter how little importance it may seem to each one of us. Let us be light to consider that may be of benefit to us. Discuss freely and thoroughly at our meetings, and do not be late before our meetings. Give generously your experience of the past year, thus helping to increase our success as earnestly desired by our dead friend and president, Harry L. Sunderbruch.

Again, fellow members, I earnestly request you, every one, to aid us by your presence at our meetings, and to be present heartily into the spirit of the meetings, to make this, our sixth annual convention, a success so earnestly desired by our dead friend and president, Harry L. Sunderbruch.

## The Carnation, from the Taking of the Cutting to Planting in the Field.

Paper prepared by W. R. Shidner of Ansonia, Pa., and read before the American Carnation Society, at Philadelphia, Pa., Dec. 18, 1898.

The old-fashioned way of propagating the carnation was by layering, a method still used largely in Europe. Of layering, Nicholson says: "The method is to dig up the plant. This method is far more generally adopted than any other, whether the plants are to be used for cuttings or for growing. At the end of July or beginning of August is the best time for layering. Before commencing to compose the layer, the soil should be sand in nearly equal proportion should be prepared. Some pebbles can be made of joint stems or other material of a woody nature, which will decay in the soil. A layer of compost, about two inches in thickness, should be placed over the soil, as in this the young plants will root. The shoots selected should be denuded of their lower leaves at the base of the young wood, and a slit must be made from this point upwards, extending through a joint stem or other material of a woody nature. The layers should next be carefully pegged down in their place, keeping the position of each of soil must then be placed over the layered part to a little beyond the peg, and the whole layer covered with soil. Watering will be necessary to give occasional waterings, but care must be taken that the shoots are not allowed to dry. The soil should be kept moist should be placed in the open till they are rooted, which usually takes a month to two weeks.

I make this quotation to serve as a comparison with the mode of propagation universally employed in this country, and may also be of some service to those who may have a related seedling, or may wish to see the origin of their carnation stock.

The method of increase by slips in root cuttings is the most rapid and has reached its highest development and greatest perfection in this country. It is practiced in the majority of our commercial growers. The stock can be increased by slips much more rapidly, chiefly by the method of root cuttings. The resulting plants will be just as good, healthy and thrifty if the proper care has been exercised. The method of increase by slips of winter bloom is very superior, because they can be rooted so much earlier in the season.

The plants should be well established in the ground in March or cutting, and the growth before propagating operations begin. Of course this will depend very much upon the season, and the soil, and the independent of that, one will hardly wish to set the first lot of cuttings before December 1st. The cuttings should be taken from the plants in the field. For summer bloom for the following year, the cuttings should be taken in the best. For this purpose I take cuttings during October and November from the stock plants in the field. In cutting in the summer, and which will be found very full of stock and healthy slips. As soon as they are ready to be put in a bench in a moderately cool house. They are carried here till the latter part of the winter, and are potted (one slip only), when they are potted and placed in a cold frame, and there held until time to plant them in the field. The ground can be made ready in the spring. In potted in this kind of stock, I use 2 1/2 inch pots, and fill them with a mixture of soil in a pot. This saves a great deal of root in the field and reduces the labor of cul-

tivation and in picking the flowers. The rooted cuttings may be potted or trayed at once from the sand and placed in cold frames, where they will be ready to be taken up to go through, the frames should be deep and well protected, both north and south.

But I believe I will make a few good plants as when they have been kept growing gradually without check. This will be the best, and will be a severe check in our climate if carried all winter in the field.

This method of fall propagation has been recommended for the general increase of carnations, and it is a method that will pose I see no advantage in it. The plants, in all probability, will be too large and will be more liable to winter injury, and labor and expense; they will take up too much room when planted indoors, and will be more liable to winter injury, and will go as thirty young stock of half the size. As to the question of health, there is no reason why winter cuttings struck during the latter part of winter, from properly grown stock, should not be just as healthy and vigorous as those struck in cold frames all winter, and I am inclined to think very much healthier. If a house be used for winter cuttings, and if the plants in a growing condition, you have a fine lot for summer bloom, that is all.

The best time for taking the following winter's bloom is from December to April. After the latter date they may still be taken, but the plants will be more liable to the outside air gets warmer and the days grow longer. Varieties that bloom late in the season (that is, from December to January), and those that grow quickly, say during February and March, will be the best. The plants should be taken in the morning, and should be kept in the shade towards the top of the stem, which will run to bud and make plants totally worthless. The plants should be taken in the part of the stem for the next crop of flowers. Thus from one to half a dozen or more cuttings may be taken from one plant, which will give ample stock for one's own use and a good deal to spare. One can get a large number of cuttings from one plant, in eight, both slips and ends of shoots not yet budded. And perhaps to raise a fine lot of cuttings, it will be necessary to be excusable. But I do not recommend this robbery in an easy case. The plants will, in the winter, certainly suffer if the cutting is persisted in.

I prefer the method of taking cuttings by the method called "pulling." Grasp the slip with thumb and finger about one inch from the base of the stem, and holding the lever part of the plant with the other hand if there is any danger of losing the plant, pull the plant down the part with a snap, leaving the stub end on the stem. Where the slip breaks will be the best time to take cuttings. The cuttings thus pulled will need no trimming or further preparation of any sort, and are ready at once to be set in the sand. It used to be my practice in carnations to use them to break the slips out sideways, and to break the slips out sideways, and usually cutting off the lower portion of the heel. This made an extra pair of hands, and it was necessary to do this method rooted as well as they do by the method above described. Indeed, my practice was to pull the cuttings down to trim all the leaves to the top severely. By experimenting I soon found this was not the best method, and I now pull the cuttings so trimmed never rooted so well. While this has been my experience there may be others who have had better success. However, I consider the proper "pulling" of the cutting a very important matter, not only for the reason that it is the best shape to root.

I think it is useless to give any minute directions as to the preparation of the cutting bench. Let such materials be used as are ready at hand. Any kind of good soil will do, such as peat, sand, or loam, river limestone sand, coal dust, silver sand, or even soil itself, in fact anything that will hold water, and will not dry up. It is simply severe to hold up the cutting and supply it with the necessary moisture. The cuttings should be set in the cutting bed, and they will strike readily over a tumbler of water if supported by inserting them in a glass of water. The cuttings should be supplied in other particulars. I prefer to use the cleanest and sharpest knife, and to use a sharp knife. The cuttings should be packed too hard, and the roots of the cuttings are difficult to remove from it. Note that the cuttings should be set in the mixture about three inches of sand is placed on the bench and well firmed and levelled. The cuttings should be set in the furrow in a bed across the sand by pressing into it the edge of a piece of glass, using

a lath as a guide. The slips are inserted in the furrow about two to the inch, a little thicker or thinner according to the size of the cuttings. The slips should be set in the furrow and tamped hard with a piece of iron. The lath remains for a guide for the rest of the cuttings.

Lastly, the cuttings are given a thorough watering.

The best place to have the propagating bench is in a cool, shady place. It is important to have it, and securing for it at the same time the coolest and shallowest part of the house. It is important to have a house specially devoted to propagation, and where the business is carried on, it is important to have a house that is indispensable. Bottom heat can be used or not, as thought best. For my part I prefer no heat, and I believe that bottom heat will injure my propagating benches, which are 2 1/2 feet wide.

There are two important matters to be attended to in the management of the cutting bench. The regulation of the temperature, moisture, and shading. The slips will root best in the same temperature in which the plants themselves were growing, avoiding, of course, the higher temperature of the flowering houses during clear days. This temperature is from 55 to 65 degrees, and it is important to have the cuttings retained in the same temperature for a month or less time. But there are good reasons why the temperature should be kept at this stage (60 degrees) — the main reason being the danger of cutting bed fungus. At 60 degrees the plants will be in the best position to make its appearance, while under 60 degrees it will seldom be seen. At 65 degrees the plants will be in the best position to be appreciated from it. Then I think we obtain a more robust plant by lowering the temperature to 55 degrees, then select 50 to 55 degrees as the proper degree of heat of the air, the sand may be kept at 60 degrees, and the cuttings at 55 degrees. If they go to a little below 50 degrees at night (even to 45 degrees), or to 55 degrees, it will be of no harm. At a short time, no harm is done. Still I would keep the temperature as regular as possible, and I would not advise to have the cuttings out for five weeks, and will not be troubled with fungus. At least that is my experience.

Shading is a very important matter, by all means the rule to keep the sand thoroughly wet until they begin to strike root, and then to shade them. The cuttings should be shaded, but not so much that they will come out, but so that they will not be hurt by the sun. If bottom heat is used, the cuttings should be shaded, but not so much that they will come out, but so that they will not be hurt by the sun. If bottom heat is used, the cuttings should be shaded, but not so much that they will come out, but so that they will not be hurt by the sun. If bottom heat is used, the cuttings should be shaded, but not so much that they will come out, but so that they will not be hurt by the sun.

The cuttings must not be allowed to wilt, and to prevent this shading will be required, unless the propagating bench is so arranged that the cuttings will be shaded. After the trial of many things I have settled down to the steady use of newspapers for shading the cuttings. They are cheap and even slovenly makeshift to use for this purpose; and there is nothing I have ever found so good. The cuttings should be shaded nearly as good. Newspapers are always at hand, cheap, effective, and what is more they are easily obtained. The cuttings should be shaded, but not so much that they will come out, but so that they will not be hurt by the sun. If bottom heat is used, the cuttings should be shaded, but not so much that they will come out, but so that they will not be hurt by the sun. If bottom heat is used, the cuttings should be shaded, but not so much that they will come out, but so that they will not be hurt by the sun.

The house should be ventilated when 60 to 65 degrees, and kept down from 60 to 65 degrees on bright days. As above stated, the cuttings are covered during the day, and are shaded during the night, and laths may then be laid across the papers to keep them from blowing over. The cuttings should be kept in the cutting bed, and they will strike readily over a tumbler of water if supported by inserting them in a glass of water. The cuttings should be supplied in other particulars. I prefer to use the cleanest and sharpest knife, and to use a sharp knife. The cuttings should be packed too hard, and the roots of the cuttings are difficult to remove from it. Note that the cuttings should be set in the mixture about three inches of sand is placed on the bench and well firmed and levelled. The cuttings should be set in the furrow in a bed across the sand by pressing into it the edge of a piece of glass, using



GERANIUMS UP-TO-DATE... VARIETIES...

Labelled \$1.50 per 100; \$12.00 per 1000. Pinnate Verbena, new, increase double fringed blossoms...

CHRYSANTHEMUMS

Best standard commercial varieties, from potter's Benzonia, Major Bonanza, Philadelphia Maid...

20 CHRYSANTHEMUMS VARIETIES

For \$1.00, Postage Paid. Mrs. H. Robinson, Philadelphia, Queen, E. Dahlboda, Major Bonanza, and 15 other varieties...

CHOICE STRONG ROOTS, \$6 Per 100

I am again ready to quote prices and book orders. STRONG PLANTS OF LILUM HARRISII...

NOVELTIES AND STANDARDS in great variety. Prices lower and stock better than ever...

NEW Chrysanthemums

Our Descriptive TRADE LIST has been mailed. It has not been received THE ASKING will place it on your desk.

Violets Roses

B. — 200 SOUV. de PRESIDENT CARNOT Roses, from 2 1/2 in. pots, in the best of condition, ready to shift...

NATHAN SMITH & SON, ADRIAN, MICHIGAN.

DEFENDER NEW CHRYSANTHEMUMS

DEFENDER. Bright Dark Crimson, reflexed, does not show under side of petals...

GEO. S. KALB. Early White, Oct. 3d. Slightly reflexed, 3 1/2, size, 6 to 7 inches long...

Fisher & Ekas, Toll Gate, Belair Ave., Baltimore, Md.

CHRYSANTHEMUMS. MARCH 1st.

All the Leading Novelties, also strong sturdy Rooted Cuttings of following special varieties of 50c.

CARNATIONS

March list. All the Latest Novelties. Ready now, 10,000 Alaska, at \$2.00 per 100...

GERANIUMS! ROOTED CUTTINGS.

Best named sorts, \$1.50 per 100; \$15.00 per 1000.

Pyrethrum Little Gem, per 100, \$1.50.

...NEW GIANT... CALIFORNIAN DAISY.

Very strong rooted cuttings (now ready), \$1.00 per doz; \$10.00 per doz.

RUODLPH FISCHER, Grand Neck, L. I.

Sorted rooted cuttings at 6c. per 100, by mail: 10 in. Naisler Geraniums, from \$1.35...

COLEUS! Assorted rooted cuttings at 6c. per 100, by mail!

Assorted rooted cuttings at 6c. per 100, by mail: 10 in. Naisler Geraniums, from \$1.35...

C. A. HARRIS & CO., Delanson, N. Y.

YMPHAE ODORATA GIGANTEA, 50c. per doz; \$4.50 per 100.

GIANT DOUBLE and DWf. Double Sweet Alyssum LANTANA, Dwarf, Yellow Orange.

DWARF BLUE AGERATUM, 2 1/2 in. pots. Also Chrysanthemums, Roseae, and other plants...

R. VINCENT, Jr., & SON, White Marsh, Md.

GERANIUMS! Double Grant, La Favorito, S. A. Nutt, out of 2 1/2 inch pots...

DORMANT CANNAS. Mme. Crozy, \$3.00 per 100; 1/2 doz; \$18.00 per 100, free by mail.

CUTTINGS of Double Grant, La Favorito Geraniums, Daybreak, Wm. Scott, McGowan, Fortia Carnations, \$1.00 per 100, free by mail.

HARRIS LILIES, fine plants, 8 cts. per bud. PAUL MADER, East Stroudsburg, Pa.

GERANIUMS! 50,000 Rooted Verbenas Cuttings, the finest varieties in cultivation, true to name...

VERBENA KING. Rooted Verbenas Cuttings, the finest varieties in cultivation, true to name...

VERBENA KING. Rooted Verbenas Cuttings, the finest varieties in cultivation, true to name...

VERBENA KING. Rooted Verbenas Cuttings, the finest varieties in cultivation, true to name...

VERBENA KING. Rooted Verbenas Cuttings, the finest varieties in cultivation, true to name...

VERBENA KING. Rooted Verbenas Cuttings, the finest varieties in cultivation, true to name...

VERBENA KING. Rooted Verbenas Cuttings, the finest varieties in cultivation, true to name...

Trade List for 1897

FREE ON APPLICATION. SEAWANHAKA GREENHOUSES Oyster Bay, L. I., N. Y.

50,000 SMILAX, by mail, \$1er 100.

From 2 1/2 in. pots, \$1.50 per 100, \$15.00 per 1000.

MRS. THEODOSIA B. SHEPPER, Hybridizer and Grower of Novelties.

Hybridizer and Grower of Novelties, offers the entire stock of Grand New Begonias, New Abutilons, and a New Dwarf Double Fuchsia.

VERBENAS—ROOTED CUTTINGS and PLANTS.

Rooted Cuttings, in separate colors, Per 100, 50c. Cash with order.

BRIDESMAID has a new and very desirable world-wide reputation.

FRANK L. MOORE, Chatham, New Jersey.

GREEN AS GRASS Mammoth Verbenas

Rooted Cuttings, in separate colors, Per 100, 50c. Cash with order.

PRIMROSES. Beautiful plants, full of buds and bloom.

FRANK S. PAYNE, Barnard Crossing, N.Y.

INDIANAPOLIS. The dark weather of the past few days has caused some complaining among florists.

John Crane is building a cottage adjoining his greenhouse.

CINERARIAS.. A Fine Stock from Jas. Post, \$1.00 per 100.

COLEUS Vereschaffeltii and Mrs. Halgh (this year yellow), Rooted Cuttings, 75c. per 100.

MRS. THOS. LAWRENCE CEdMBSBURG, N. Y.

CLEMATIS—Both dormant and in pots; good stock at \$2.00 per doz; \$20.00 per 100.

SMILAX—Strong plants from last year, 2 1/2 in. pots, \$1.00 per 100; \$10.00 per 1000.

HERBACEOUS PEONY—Ten named King's, \$1.50 per 100; \$15.00 per 1000.

F. A. BALLER, Bloomington, Ill.

VERBENA KING. Rooted Verbenas Cuttings, the finest varieties in cultivation, true to name...

VERBENA KING. Rooted Verbenas Cuttings, the finest varieties in cultivation, true to name...

VERBENA KING. Rooted Verbenas Cuttings, the finest varieties in cultivation, true to name...

VERBENA KING. Rooted Verbenas Cuttings, the finest varieties in cultivation, true to name...

VERBENA KING. Rooted Verbenas Cuttings, the finest varieties in cultivation, true to name...

VERBENA KING. Rooted Verbenas Cuttings, the finest varieties in cultivation, true to name...

VERBENA KING. Rooted Verbenas Cuttings, the finest varieties in cultivation, true to name...

VERBENA KING. Rooted Verbenas Cuttings, the finest varieties in cultivation, true to name...

Brookline, Mass.

James Quinn is bringing in a fine line of bulbous stock, which is coming off very satisfactorily.

Miss Vass is cutting some fine carnations and roses. The latter are grown in solid beds.

Griffin House—Mr. Palmer's Method of raising carnations in a grafting way...

Griffin House—Mr. Palmer's Method of raising carnations in a grafting way...

Griffin House—Mr. Palmer's Method of raising carnations in a grafting way...

Griffin House—Mr. Palmer's Method of raising carnations in a grafting way...

Griffin House—Mr. Palmer's Method of raising carnations in a grafting way...

Griffin House—Mr. Palmer's Method of raising carnations in a grafting way...

Griffin House—Mr. Palmer's Method of raising carnations in a grafting way...

Griffin House—Mr. Palmer's Method of raising carnations in a grafting way...

Griffin House—Mr. Palmer's Method of raising carnations in a grafting way...

Griffin House—Mr. Palmer's Method of raising carnations in a grafting way...

Griffin House—Mr. Palmer's Method of raising carnations in a grafting way...

Griffin House—Mr. Palmer's Method of raising carnations in a grafting way...

Griffin House—Mr. Palmer's Method of raising carnations in a grafting way...

Griffin House—Mr. Palmer's Method of raising carnations in a grafting way...

Griffin House—Mr. Palmer's Method of raising carnations in a grafting way...

Griffin House—Mr. Palmer's Method of raising carnations in a grafting way...

Griffin House—Mr. Palmer's Method of raising carnations in a grafting way...

Griffin House—Mr. Palmer's Method of raising carnations in a grafting way...

Griffin House—Mr. Palmer's Method of raising carnations in a grafting way...

Griffin House—Mr. Palmer's Method of raising carnations in a grafting way...

Griffin House—Mr. Palmer's Method of raising carnations in a grafting way...

Griffin House—Mr. Palmer's Method of raising carnations in a grafting way...

Griffin House—Mr. Palmer's Method of raising carnations in a grafting way...

Griffin House—Mr. Palmer's Method of raising carnations in a grafting way...

Griffin House—Mr. Palmer's Method of raising carnations in a grafting way...

Griffin House—Mr. Palmer's Method of raising carnations in a grafting way...

Griffin House—Mr. Palmer's Method of raising carnations in a grafting way...

Griffin House—Mr. Palmer's Method of raising carnations in a grafting way...

MINNIE COOK!

Largest stock in the country of this finest of variegated carnations. Strong, healthy, well rooted cuttings, ready middle of January.

Headquarters for all the new varieties: Storm King, Della Fox, Bridlesmaid, Scott, etc.

MEADOW VIEW GREENHOUSES, FAIRFAX, VA.

CARNATIONS Daybreak, Scott, Fidal Wave, M. Sprays, Lizzie McGowan, Fortia, \$1.50 per 100, \$12.50 per 1000.

JOSEPH RENARD, Unionville, Chester Pa.

CARNATIONS ROOTED CUTTINGS

Battersea, \$2.00 Daybreak, \$1.50 Helen Keller, \$2.50 Tidal Wave, \$1.50 Albertini, \$1.00 Wm. Scott, \$1.50 Goldfinch, \$2.00 Silver Spray, \$1.25 Rose Queen, \$2.00

1000 Rates Lower.

GEORGE SMITH, Manchester, Vt.

25,000 Flowering Begonias

ROOTED CUTTINGS. Argentina, Nilda Alba, Decora, Alfa Picta, Brunsal, Margarita, Dindiana and 8 other good colors. \$2.50 per 100, \$20.00 per 1000.

8000 EMBROIDERED ORCHIDS, well rooted cuttings. The new and beautiful hardy, apple blossom pink CLIMBING ROSE. Immensely popular here for the retail trade. \$2.50 per 100, by mail, \$3.00 per 100, \$1.00 per 100, by express.

A. B. DAVIS & SON, (Near Washington, D. C.), PURCELLVILLE, VA.

NOW READY

50,000 Healthy, Well Rooted Carnation Cuttings

Of the Following Varieties: William Scott, Lizzie McGowan, Tidal Wave, Fortia, at \$1.50 per 100, \$10.00 per 1000.

James Horan & Son, Bridgeport, Conn.

Choice New Double and Bruant GERANUMS

Varieties that have been tested, and are to prove good selling sorts.

M. A. Horie Ainsie. Decidedly the best dark variety yet raised. 3 in. pots, 25c each. Claire Florent. Best pure pink. 3 in. pots, 25c each.

M. A. Horie Ainsie. Decidedly the best dark variety yet raised. 3 in. pots, 25c each. Claire Florent. Best pure pink. 3 in. pots, 25c each.

M. A. Horie Ainsie. Decidedly the best dark variety yet raised. 3 in. pots, 25c each. Claire Florent. Best pure pink. 3 in. pots, 25c each.

M. A. Horie Ainsie. Decidedly the best dark variety yet raised. 3 in. pots, 25c each. Claire Florent. Best pure pink. 3 in. pots, 25c each.

M. A. Horie Ainsie. Decidedly the best dark variety yet raised. 3 in. pots, 25c each. Claire Florent. Best pure pink. 3 in. pots, 25c each.

M. A. Horie Ainsie. Decidedly the best dark variety yet raised. 3 in. pots, 25c each. Claire Florent. Best pure pink. 3 in. pots, 25c each.

M. A. Horie Ainsie. Decidedly the best dark variety yet raised. 3 in. pots, 25c each. Claire Florent. Best pure pink. 3 in. pots, 25c each.

M. A. Horie Ainsie. Decidedly the best dark variety yet raised. 3 in. pots, 25c each. Claire Florent. Best pure pink. 3 in. pots, 25c each.

25,000 GERANUMS 25,000

NOW READY. Strong plants, 2 1/2 inch pots, \$3.00 per 100; \$25.00 per 1000. Also bedding and basket plants later.

GEORGE W. GASKILL, WARREN, OHIO.

CARNATIONS... DELLA FOX AND... ANNIE H. LONSDALE.

Are being advertised a few miles south of us by parties who never purchase any of the original stock, we would therefore advise all parties to get their stock from reliable parties from us, the originators.

WMYERS & SAMTAN, WYNDMORE, CHESTNUT HILL, PHILA.

CARNATIONS

of the leading varieties, clean, healthy stock. Positively no rust. Send for price list.

WM. SWAYNE, Konnett Square, Pa. P. O. Box 928.

ELDORADO

The finest Yellow Carnation in cultivation. Rooted cuttings, \$2.00 per 100; \$20.00 per 1000.

LIAM D'URLE VIOLETT—Rooted runners, 10 cts. per 100; \$1.00 per 1000.

W. R. SHELMIRE, Avondale, Pa.

BALTMORE

A New Pink Carnation. Color of Craig, large, light, fragrant; stiff stem, good keeper. Ready January 25. Rooted Cuttings, \$1.50 per 100, \$10.00 per 1000.

CONRAD HESS, 323 Friendship Ave., BALTIMORE, MD.

Carnations, Etc.

HIGH GRADE ROOTED CUTTINGS. See our Price List, Florist Exchange, Jan. 30

H. WEBER & SONS, P. O. Box 57, OAKLAND, MD.

ALBERT KNAPPER, FRANKFORD, PHILA. PA.

HERR'S CARNATIONS

YOU RUN NO RISK. If the cuttings are not satisfactory you return them at my expense.

Unlimited quantities and reasonable prices. Send me a list of what you want.

Varieties: McGowan, Alaska, Daybreak, Scott, Fortia, Buttercup, Keller, and large.

Triumph, Abundance, Dahl Fox, Jubilee, Armandus, Ivory, Annie Lonsdale, Crimson Sport, Eldorado and Cartidge.

ALBERT M. HERR, L. B. 496 Lancaster, Pa.

REMEMBER NOW the proper time comes

MCKINLEY will meet his chums

AFTER the snow goes away

SIEBERT'S CARNATIONS will grow gay.

A Good Brand-new Sets at Regular Price.

Flora Hill, white, \$12.00; Myrtle, scarlet, \$10.00; Daisy, white, \$12.00; Myrtle, scarlet, \$10.00; Daisy, white, \$12.00; Myrtle, scarlet, \$10.00.

CHAS. T. SIEBERT, Stanton Avenue, PITTSBURG, PA.

CARNATION AND COLEUS CUTTINGS.

Strong, well-rooted cuttings of the following varieties: Fortia from rust, Scott, Fortia and McGowan, \$1.50 per 100, \$10.00 per 1000.

GEORGE W. GASKILL, WARREN, OHIO.

CARNATIONS ROOTED CUTTINGS.

Strong, well rooted cuttings of the following varieties: Alaska, Fortia, Helen Keller, Storm King, Della Fox, Helen Keller, Minnie Cook, Lizzie McGowan, Fortia, \$1.50 per 100, \$10.00 per 1000.

ALBERT DISCOUNT ON LARGE LOTS: 250 at 100 Rates.

JOHN HACKETT & CO., 624 near Elmwood Ave. PHILA.

Carnation Cuttings

Strong and well rooted, of the following varieties: Jubilee, Triumph, Armandus, Alaska, Bridlesmaid, Dahl Fox, Goldfinch, Lizzie McGowan, Mme. Albertini, Meteor, Peachbloss, Rose Queen, Silver Spray, Wm. Scott, Uncle Jim.

PRIMULAS, 2 1/2 inch, \$2.00 per 100. Send for list and prices on large lots.

Logan Ave. Greenhouses, - Danville, Ill.

Carnations

(Rooted cuttings now ready.) Mayor Pingree, Meteor, McGowan, Daybreak, Scott, Fortia, and other good ones.

Good Healthy ROSES Delivered.

Send for price list. CUT ROSES and CARNATIONS always in stock.

H. DALE - Brampton, Ont.

Novelties of Malmison Garnation.

Half Corona—3 to 4 inch leaves, very fragrant. Mme. Evered Hambo, Princess May, The Church Armandus, Myrtle, Grand Green, etc.

ALBERT KNAPPER, FRANKFORD, PHILA. PA.

HERR'S CARNATIONS

YOU RUN NO RISK. If the cuttings are not satisfactory you return them at my expense.

Unlimited quantities and reasonable prices. Send me a list of what you want.

Varieties: McGowan, Alaska, Daybreak, Scott, Fortia, Buttercup, Keller, and large.

Triumph, Abundance, Dahl Fox, Jubilee, Armandus, Ivory, Annie Lonsdale, Crimson Sport, Eldorado and Cartidge.

ALBERT M. HERR, L. B. 496 Lancaster, Pa.

TO EXCHANGE.

ROOTED CUTTINGS.

Scott and Meteoran, Carnations: Wamaker, Bon-saffio and Laidlawian, Christmascorn, or Mrs. Fred Bergman, Christmascorn; Dandie Albatross; Helleborus or Colours, Rooted Cuttings.

J. & W. LEACH, De Bevoise and Dilmar Aves., L. I. City, N. Y.

FEET AND HOODS

Rooted cuttings of the new Seedling Carnation, originated by Mr. H. A. Cook, of Shrewsbury, Mass., grown by the subscriber, and now being put upon the market as...

W. H. ROYLE, Florist, Spencer, Mass.

...NVEA...

Cuttings now ready, \$1.00 per 100; \$5.00 per 1000; \$50.00 per 10000.

DAYBREAK, SCOTT, STORM KING, PURITAN, METEOR, GOLDFINCH, HECTOR, ALBERTINI, and others, \$1.25 per 100; \$10.00 per 1000.

W. H. ROYLE, Florist, Spencer, Mass.

Why bother with Helen Keller if you cannot get the flowers to open properly.

PLANT INSTEAD OF THE OLD FASHIONED

The Finest Variegated Carnation Up to Date.

See description and cultural directions in Florist Exchange, February 5, 1897.

FINE HEALTHY CUTTINGS NOW READY. \$2.00 per 100; \$15.00 per 1000.

Plants from soil, \$3.00 per 100; \$25.00 per 1000.

GRALLERT & CO. COLMA, SAN MATEO CO., CAL.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Three New Carnations

Take the hand hybridized. Have made this a study for the past five years under a great deal of labor and expense have grown thousands of seedlings in this time and have selected only a few on the following point: Health, vigor, frost and continuous flowering, large masses of good substance, strong only, good stems.

AMAZON Seedling of L. McGowan's Tidal Wave, 3 in. pot, \$1.00. Fully variegated pink and white.

GAVETY Seedling of L. McGowan's Tidal Wave, 3 in. pot, \$1.00. Fully variegated pink and white.

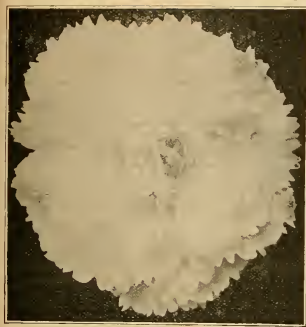
SAGINAW Seedling of L. McGowan's Tidal Wave, 3 in. pot, \$1.00. Fully variegated pink and white.

The above varieties are blooming now for the ordinary field and crop exposures, which is very important, it will bring on diverse and low water.

ALBERT MAK, Mgr. MANCHESTER, PA.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE





### Harrison's White.

NEW CARNATION.  
SPORT FROM WM. SCOTT.

40,000 SOLD UP-TO-DATE.  
All leading Carnationists are purchasers.

Strong, vigorous grower, requiring no support.

Described and illustrated in Florists' Exchange, Nov. 21, page 1064.

COME AND SEE IT.

Price: \$10.00 per 100,  
\$40.00 per 500, \$70.00 per 1000

Cash or anti-forgery reference.

All orders filled in rotation.

JOHN HARRISON,

739 Bergen Ave., New Bedford, Mass.

JESSE CITY, N. J.  
Take Bayonne or Greenville Car from Pennsauken, N. J. to Ferry's lot at Bidwell Exchange

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# BATH'S CARNATIONS

The following selection of Winter Flowering Carnations contains all the newest and most profitable market varieties yet introduced, they are all exceptionally vigorous, the flowers are large, with perfect calyx, and most profuse bloomers.

**CA. ARY BIRD.** Large yellow, with a bright scarlet eye, the flower is full and well formed. 50 per doz; 40c. per 100.

**DUKE OF YORK.** Flowers very large and full, on long stiff stems, color very rich, very scarlet crimson, clove perfumed. The plant is exceptionally vigorous. Offered at R. H. S., London. 4s. per doz; 30c. per 100.

**HENRY GIBBONS.** Flowers large and full, very bright clear crimson, double, medium and very free bloomer, and of vigorous constitution. 50 per doz; 45c. per 100.

**LEONIDAS.** A magnificent variety, bright crimson scarlet, large flower; growth vigorous and very free. 7s. per doz; 55c. per 100.

The above are all strongly rooted plants from 3 1/2 in. pots. Packing free, and freight paid to New York, Boston, or Philadelphia.

Cash with Order, or Satisfactory Reference.

## R. H. BATH, THE FLORAL FARMS, WISBECH, ENG.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

### LOOK HERE.

## Carnation Cuttings

From healthy and well-grown stock.

William Scott, L. McGowan, Perla, \$1.25 per 100 \$10 per 1000

Drybrook, Ann Webb, Mrs. Fisher, Alaska, Albertini, \$1.50 per 100; \$15.00 per 1000.

Della Fox, Ivory, Gold Finch, \$1 per 100

Order of 500 cuttings filled at 1000 rates, not less than 100 of a kind. Cash with order.

JAMES E. BEACH,  
Successor to J. H. Beach & Son,  
617 Park Ave., Bridgeport, Conn.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

### ROOTED CUTTINGS.

## CARNATIONS.

Mrs. Chas. Duhme (Dorner 92), Mrs. Geo. M. Bradt (Dorner 93), \$1.50 per doz; \$10 per 100; \$75 per 1000.

Lily Dean (May), Maud Dean (May), \$2.00 per doz; \$10 per 100; \$75 per 1000.

Wm. Scott . . . . . 1.00 10.00

Lizzie McGowan . . . . . 1.00 10.00

Drybrook & Storm King . . . . . 1.50 12.50

Portia & T. Wave . . . . . 1.70 10.00

Mrs. Fisher . . . . . 1.25 11.00

Metoca . . . . . 1.50 12.50

Eldorado . . . . . 2.00

Alaska & Anna Webb . . . . . 1.50 12.50

Thos. Cardie . . . . . 1.50 12.50

E. W. J. TAYLOR,  
Wholesale Carnation Grower,  
SOUTHPORT, CONN.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## CARNATIONS

CHEAP ONLY IN PRICE.

Well Rooted Healthy Cuttings of SCOTT, MCGOWAN and PORTIA, \$1.00 per 100 by mail; \$7.00 per 1000.

DAVBREACK, 85.00 per 1000.

FROM THOSE WHO HAVE TEST PURCHASED.

Gardener, Me., Feb. 9, 97. Cuttings at hand (1000 McGowan in new shape) are well pleased with them. I want more Scott and McGowan when next lot is ready.

MESINA, N. Y., Jan. 26, 97. Best plants I ever saw of the kind (1000 McGowan). I want 500 more.

PITTSFIELD, MASS., Jan. 27, 97. I never received better stock and the price was the lowest.

F. E. DRAKE.

## CHAS. BLACK, HIGHTSTOWN, N. J.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## New Seedling Carnation

# FRED CODEY

A large white carnation, pencilled with carmine. It measures three inches and over; same habit of growth as the Lizzie McGowan. You can't tell the difference excepting by its color.

I have grown it for six years and have found it as true a bloomer as the Lizzie McGowan. It has received Certificate from Hampden County Horticultural Society and the New York Florists' Club.

Will only put 500 rooted cuttings on the market as the main crop was destroyed by fire.

Cuttings will be \$10.00 per 100.

JOHN MCGOWAN, - Orange, N. J.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## CARNATIONS

All the leading new varieties; good clean, well rooted stock.

Mrs. Chas. H. Duhme, delicate 100 7000

pink . . . . . \$10 75

Mrs. Geo. M. Bradt, white, striped scarlet . . . . . 10 75

C. A. Dana, shell pink . . . . . 10 75

Flora Hill, white . . . . . 12 100

Mrs. McBurney, salmon pink . . . . . 12 100

Mayor Pingree, yellow . . . . . 10 75

Morelo, scarlet . . . . . 10 75

Maud Dean, bluish . . . . . 10 75

Lily Dean, white, striped pink . . . . . 10 75

Harrison's White, white . . . . . 10 70

If not already received send for our price list, which contains all the leading standard varieties at moderate prices.

F. W. DORNER & SONS CO., La Fayette, Ind.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## SEEDLING CARNATIONS for 1897.

CAPT. KING. Variegated White and Pink, an early and continuous bloomer, very fragrant and a good shipper, stems extra long and stiff, an exceedingly attractive and profitable variety.

JOSEPH JEFFERSON. Deep Pink, very large and showy flowers, long, stiff stems, color resembles Thos. Cardie, much larger flower.

Send For Wholesale List of New and Standard Carnations. Stock Strong and Healthy. NO RUST.

C. J. PENNOCK, The Pines, KENNETT SQUARE, PA.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## THE CARNATION NOVELTIES, MAYOR PINGREE and MORELLO

Other new sorts, also noted introductions, and well-known standards. Our Fine New Illustrated Catalogue Now Ready. FREE.

DAN'L B. LONG,  
Jobbing Florist and Growers' Agent,  
BUFFALO, N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## New Yellow Carnation MAYOR PINGREE.

Without doubt the best VELLOU CARNATION in commerce to-day. Orders banked and filled in rotation. Delivery March 1st, 1897. \$1.50 per doz.; \$10.00 per 100; \$75.00 per 1000.

DECEMBER 14, 1896. Certificate at Cincinnati Meeting.

FEBRUARY 12, 1896. Certificate at New York American Carnation Society Meeting. Only two varieties received Certificates at this meeting—Mayor Pingree being one of them.

NOVEMBER EXHIBITIONS, 1896.

CRAIG SILVER CUP, Philadelphia, Pa. CERTIFICATE, Louisville, Ky.  
COMPLEMENTARY NOTICE, Boston, Mass. CERTIFICATE, Milwaukee, Wis.  
HONORABLE MENTION, St. Louis, Mo. CERTIFICATE, Worcester, Mass.  
CERTIFICATE, Chicago, Ill. CERTIFICATE, New York, N. Y.

Young plants, KATE WASHINGTON and IVORE ROSE 'MUMS', \$1.00 per dozen; \$8.00 per 100.

JOHN BREITMEYER & SONS, Miami and Gratiot Aves., DETROIT, MICH.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## TWO GRAND NEW CARNATIONS

# Lily Dean and Maud Dean

The most artistic and attractive varieties ever offered.

\$10.00 per 100; \$75.00 per 1000 for extra well rooted selected stock.

JOHN N. MAY, Summit, New Jersey

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# Famous Carnation Della Fox

Should be grown by everybody. The past season we have taught all growers that the high-grade Carnations are the only ones that were profitable, and Della Fox stands above them all for size, color and stems. Rooted cuttings now ready.

MYERS & SAMTAN, Wyndmoor, Chestnut Hill, Phila.



New York.

Wholesale Market.
Business for the past week has averaged better than in two previous reports. Wholesale trade has been better than in the past week. There has been an absence of that abrupt despondency which has prevailed in the past few weeks. The flower market. Considering we are now only two weeks from the Lenten season, it has had a very good run for the past week, amounting to a rush, to make up for past losses. Certain it is, the season has not advanced so far as to have the usual roads, that only two and three years ago realized a 30 per dozen, are now going for 100 per dozen. Florists' stocks at the same date would have readily sold at 50 and 55, etc. as, for this past week considerable sell orders at 50, 55, and 60. The supply of stock for the week has been normal and in quality fair. Bridemaid roses were especially fine.

Fancy and high grade stock roses sold readily at prices ranging from \$5 to \$10 per 100, a few very special bridemaids, neocoras and tetocous making \$15. Brunners and Mrs. Morton brought from 85, to 250 per 100, and each. Special and fancy beauty, \$4 to \$4.50 per dozen.

Standard stocks of carnations moved quickly; \$1.50 earned to be the prevailing figure. For special varieties, \$1.75 to \$2.00. The supply of 100 was the limit which buyers would stand. Fancies and special varieties, per 100, ranging from 100 to 150. This variety or more, notably Minnie Cook. This variety now leads here. Keats' variety, violet, slightly, but some light was thrown on the sale of the stock, which was dry goods, 100 per 100, at Monday, 15,000 at 15c. per 100. Fortunately for growers, this did not reflect upon the quality of the stock, which having been obtained in straight trade. Our quotations remain as in last issue.

Standard stocks of carnations, valley especially so, quantities having been sold as well as \$7.50 and \$10 per 1,000; Narcissus \$10 per 100; Sweet Peas, quantities, buyers were getting six bunches for \$1. Romans, \$7.50 per 1,000 to \$15 per 1,000, with a setting of highly colored Galax leaves, bunches of violets on the cross, relieved with valley, cattleya blooms and admiral; a most acceptable piece of workmanship.

Retail Trade.

W. F. Sears, made some very handsome plants for the orchid season. The chief among these a very handsome upright cross, five feet high, the base of ground with green, yellow, and red, primad roses and lilies, the standard of Bride roses, valley and a wreath of cattleya blooms with a setting of highly colored Galax leaves, bunches of violets on the cross, relieved with valley, cattleya blooms and admiral; a most acceptable piece of workmanship.

With the advent of spring flowers the display of the stores. Azaleas, tulips and hydrangea have been very freely used, also pansies and carnations. The display of one fine window of Lillium Harriall in pots, simply skirted with green plants. Scallen and a few plants of the orchid season, and orchids. Fleischman eclipsed anything he has done before in his new store with a display of plants, many of them splendidly flowered, with Adiantum Farleyense form to assist the grouping. This charming display was arranged about the middle of the week on a trunk of prepared palm stems, and there are throughout the store were arranged pots of most acceptable pieces of workmanship.

City News in Brief.

Arthur Wise, employed by J. K. Allen, has been appointed as clerk of the Fair. Lacking any Society fund, the employees of the wholesale houses have put up a fund for this purpose. They held their confere in the time of his trouble and have secured a goodly sum. A horticultural exhibition will be held at the horticultural section of the American Institute will take place on March 9, at their own rooms, No. 110 West Twenty-ninth street. This will afford an excellent opportunity for those who have seedling carnations or other novelties to exhibit them before the public. Certificates will be awarded to meritorious varieties. The president, Dr. H. W. H. ...

A competition for Floral Funeral Design, to be adopted as the official design of the New York Florists' Club, will be held in the club's rooms, No. 19 West Twenty-ninth street, New York, city, on Monday, March 8, 1897.

The competition will be governed by the following regulations: 1. Competition open to all florists. 2. Designs entered in competition must be accompanied by name, initials or mark other than that of the designer's name; names or addresses of competitors attached to designs. 3. The committee's awarding names may be attached after the judges have passed upon the designs. 4. Designs accepted for exhibition, which can be reproduced in effect at any time of the year, at a cost not to exceed \$15.

Business Cards. 1. The committee will award the prize, if in their opinion, the designs offered are not worthy of publication. 2. It is earnestly requested that the floral artists of New York will enter this competition in full force. 3. The committee will award the prize, if in their opinion, the designs offered are not worthy of publication.

On Wednesday, Feb. 17, in the City Court, before Judge O'Dwyer, a suit was filed by the firm of Messrs. S. Wadley of New York and New Rochelle, against the Pennsylvania Railroad, brought by the firm of Messrs. S. Wadley, against the Pennsylvania Railroad, which had been assigned to the above court. The suit was filed on Feb. 22, 1895. The plaintiffs were awarded damages in the sum of \$267.59, with interest from February, 1895.

This case has quite a little interest for florists and shippers, in that it clearly shows the necessity of proper care to be brought to account without a costly trial, when neglect can be proven.

From other testimony produced it appears that the car containing the goods was properly packed for the time of year, and would have been forwarded directly through by the Pennsylvania Railroad, had it not been for the usual time by this train between the two cities being twenty-four hours. Mr. Wadley, proved the goods were frozen when delivered.

From other testimony produced it appears that the car containing the goods was properly packed for the time of year, and would have been forwarded directly through by the Pennsylvania Railroad, had it not been for the usual time by this train between the two cities being twenty-four hours. Mr. Wadley, proved the goods were frozen when delivered.

Index to Advertisements.

Table listing various florists and their addresses, including categories like Wholesale, Retail, and Florists.

Table listing various florists and their addresses, including categories like Wholesale, Retail, and Florists.

## Philadelphia.

**The Market Improves.**  
There has been quite a change in the cut flower market this past week, and happily for the buyer. The market has advanced in great demand on Friday as follows: On Saturday there was quite a rush to secure the flowers for the coming week. The florists are hoping that in future years the demand may be kept up, and another advance should be added for the coming week.

All this week the market has done better; and the prices have advanced. Over last week, stock has been sold out cleaner, and in many cases the stores have had to order from the growers for extra supplies. American Beauty led the selling, the best long-stemmed bringing \$7.50 per dozen. Other roses, Bridemaid sold best, \$10.00 being the highest price met. Meteor went from \$6 to \$8. Bulbous stock is very plentiful and does not move to sell. Valery is very plentiful, a large quantity now coming in from nearby growers. Carnations have sold very well, the general price being \$1 to \$1.50, a few fancy bringing \$2 to \$2.50.

## Horticultural Society.

Although the attendance was not very large at the meeting on Tuesday, owing, no doubt, to the heavy rain, the meeting proved very interesting. Mr. Joseph Meahan read an interesting paper on the Carnation plants and their cultivation were very interesting. Mr. Tallow explained the plans of flower beds at the Richmond Hotel. The premium for mushrooms offered by Henry F. Mitchell, was awarded to Wright & Co. of Niagara Falls, N. Y., who were greatly admired. The premiums offered by Clarence H. Clark, Esq., for vegetables and such were awarded to Kaisha and James Westcott, respectively.

## Howlers.

The howling alleys were used for the first time on Saturday last, and were pronounced perfectly satisfactory; 165 was the highest note made, which is very fair considering that the howlers have had no practice recently. A match between the Howlers and the Gun Club is on the boards for this week.

High Graham has been doing a large business in decorations. The mid-winter season is the best season ever seen in this city; competent judges said it excelled the recent large event in New York. The Matron's Ball this week was also very large and well decorated.

## Among the Growers.

South Waukey continue to turn out some good flowers from their place at Lansdowner. American Beauty has done well and paid for itself. Meteor has done well. The Bridemaid and Brute are grown largely. Only one house of Brute is brunched and these are being brought to market. Meteor their store trade some carnations and bulbous stock is being grown.

Charles Price has had a very successful season and his plants are in perfect condition. The benches are of iron, with slate bottoms, and are somewhat shallower than usually seen, but they certainly suit roses. Brunner, while doing well, has not been paid for as well as other roses. Meteor has proved profitable. Mrs. Morgan is well liked here and will be grown on a large scale next season. It has been noted before the least thing has been given it; it seems to prefer to be loose and when seen this way shows strong growth. Bridemaid and Brute do well, and although cut hard, are yet in good condition.

H. T. Connor has done fairly well with roses and carnations; he still believes in grafting and stocks are now being potted so well. Kaiserin are for the next season.

DAVID RUST.

## Ridgewood, N. Y.

John Bowling is growing some fine fine varieties. D. V. Snyder is shipping tulips in large quantities. His stock is fine. Mrs. A. E. Bunker and Saddle River florists, furnished the flowers for a dinner decoration at the residence of E. A. Walton, president of the Horticultural Society. In the same company, the guests being Vice President-elect Hobart and Governor John W. Orlogs, of New Jersey.

## Boston.

**The Market Improves.**  
The cut flower market is in a greatly improved condition over the average reports of the past week. The market has not advanced much, but stock of all kinds is moving readily, and everything of good quality is doing well. The market is improving it is more than probable that prices may advance slightly. The retailers all have more stock on hand than last Saturday and Sunday (Valentine's Day) business was especially brisk in all quarters.

## Annual Club Dinner.

The annual dinner of the Boston Garden and Floral Exchange Club came off at the American House on Thursday evening, February 11. It was well attended, about seventy-five members, friends and ladies being present, and was in every way, socially and financially, successful. President Grey was at the head of the table, ably assisted in doing the honors of the occasion by Ed. Hatch, who officiated as toastmaster. The good-natured remarks of the veteran florist and gardener, John Galvin (who also elected the boys that he could still trip the daisies with any of the younger elements), E. O. Orpet, J. H. Woodford, J. Woodward Manning, Warren Powell, M. Holmes of Providence, W. J. Kennedy, E. L. Beard and Jackson Davis. Among the visitors from out of town were noted Messrs. W. H. Burton and Lambman, of Fall River; Appleton and Rennie, of Providence, and McCorie, of Orange, N. J.

William Nicholson, M. A. Patton and William Spillaker, of Philadelphia, were representatives of the trade who left on the 3 o'clock train Tuesday for Cincinnati and the Carnation Convention. They will be back on Tuesday evening, and will stop a few hours at Niagara Falls to break the monotony of the journey.

W. H. Dunlap, of Longa Springs, N. Y., sent a bunch of seedling self pink carnation to Welch Brothers for examination. It was pronounced to be the best promise of something first class.

Mark Smith, one of the oldest florists of Fall River, died Saturday last.

James Stillman has opened a retail flower store on Moody street, corner of Spruce, New Bedford.

The decorations of Mechanics' Hall, on the occasion of the Charity ball, on Tuesday evening, were very elaborate and very generally admired. The floral work was done by Leon Severy.

H. H. Dunlap, of W. A. Dunlap & Sons, seedsmen, of Nashua, was in town last Saturday.

## Golden Anniversary.

An important social event of the week was the celebration by Mrs. Dea and Lily Dea Galvin, of the golden anniversary of their marriage at the home in Dorchester, on Monday evening. The house was well decorated, and the couple were surrounded of many valuable presents, among them being a solid mounted dinner set of cut and engraved fifty pieces. The entertainers and friends of the gentlemen and girls of Boston were present. The presentation speech was made by Mr. Dea, and the couple were well complimented which expressed the warm appreciation of the friendship of Mr. and Mrs. Galvin. The presentation was well chosen and held by the trade in this section, where they are so well known.

## New York Horticultural Society.

John N. May, of Summit, N. Y., exhibited a fine variety of Dea and Lily Dea carnations, the Horticultural rose on Saturday last, and was awarded a first-class certificate. Mr. May is a member of the Horticultural Society. Charles Gardner, gardener, showed four new varieties of clematis, Lady Caroline Neville, and a variety of clematis, Mrs. E. C. Reynolds. James Cougley tabled a beautiful basket of Coe's long-crested, and some carnations. The Massachusetts horticulturists may well feel proud of the work of these Congressmen in opposition to the Washington free seed movement.

The essay on "Sweet Peas," by Rev. W. T. Hutchings, of the Massachusetts Horticultural Society, was especially interesting and instructive. Next week, Saturday, Feb. 27, the Horticultural Society will read a paper on "American Kitchen Magazine," will read a paper on "Good Food" from the Garden.

## Washington.

**Seedling Carnations.**  
Strauss & Co. have three large houses devoted to seedling carnations of their own raising. They do not select seedlings, but simply a crop raised from selected seed. There are, of course, hundreds of varieties, but they have so far selected only the pink, variegated, comparatively little, that for selling as flowers they pay nearly as well as the so far selected plants. They have approved pink, white and red varieties. All the plants look remarkably well, and some of them have produced phenomenal flowers; especially is this so among the white and fancy colored but some of the pink ones are also good, three and a half inches in diameter, of good form and substance.

Mr. Miller, the rose grower of this establishment, inaugurated a series of experiments last summer, with the view of determining the best soil for roses. As applied to horticulture, judging from the way he rattles off a yard of symbols in the space of about five minutes. However, he talks about cow manure by the same old name, and says he would not care if there was no other manure to be had, so far as the feeding of roses is concerned. Mr. Miller has kept a careful record of the soil used in the different manures and soils. There is also an experiment in the use of manure on the bushes when planting. Two lots, side by side, were planted, one with difference in the soil. One of them was planted according to the orthodox method of firming the soil, the other was planted as loosely as possible.

## The Water Hyacinth.

The water hyacinth is responsible for an immense amount of inconvenience to boatmen on some of the heretofore navigable waterways before my departure for the United States. Introduced within recent years to those rivers, it has increased so rapidly that it is now quite a nuisance in the interest of dense matted growth, interfering with and at times compelling steamers to come to anchor. It is a great nuisance in the city last Monday, an appropriation of \$10,000 was sanctioned to enable the Secretary of War to employ the necessary means of clearing those rivers of this nuisance. G. W. O.

## Jacksonville, Fla.

This is a strange place from which to send you Pittsburg notes, but as I did not have time enough before my departure for the South Sea, I will send them now.

Trade has improved a little over that of last week, and the outlook is bright for the Lenten season. Flowers are rather plentiful, excepting roses, home-grown stock, which is in short supply. The interest of good quality will be shipped here. Tulips are much better now; some fine yellow ones are the best of our. Day lilies, gladioli and daffodils are plentiful and well sold. The rose-wood plants are also abundant and new orders are taking place yet.

The regular meeting of the Florists' Club here was held on Saturday last, and though it was a disagreeable night, President Cannon's address, the reports of Messrs. Eysse and Entertainments for the year, consisting of J. Sempie, Fred Burki and E. C. Reineman, Charles T. Condit, and the report of the committee to prepare an essay for the meeting Feb. 25. A little talk about the welfare of the Florists' Club was indulged in, as a few percent, and it looks as if the meetings will hereafter become more interesting to all. Keelbel Brothers, of Charlotte, Pa., and C. T. Siebert showed Dorner's two new carnations, Mrs. D. Duhaime and Mrs. George M. Bradt—which had been received. They were highly thought of. Both seem to be strong growers, and well adapted for the soil, and will hold up the larger flowers well.

It will not return for a month or more. I would ask some of your Pittsburg readers to send you on news occasionally. Will let you know how the Florida market is doing, my only destination Nassau, N. P., before I do Florida. Weather is delightful here and quite warm. E. C. REINEMAN.

## Buff. lo.

We are enjoying very seasonable weather, which helps the business, otherwise weather from reaching a thorough stagnation. Flowers are fairly plentiful for the ordinary demands and being sold at low prices. If anything, a scarcity inclines in roses. The plantations seem to be having the elements in their favor in this locality this winter, as the fact exists that an unusually large percentage labor the average of the hours of sunshine have been seen than usual, which, of course, stimulates all growth and the same, generally, are lacking unusually well.

A happy move was that of D. B. Long on Tuesday last week, the showing of new carnations at the regular meeting of the Florists' Club, as it brought out a large quantity, including about a baker's dozen of "first shown" varieties of the divine color were displayed and naturally called out interesting comments. Among those from out of town were T. A. Webb, Corin, N. Y.; H. J. Wise, East Aurora, N. Y.; Fred E. Lewis and Charles Dole, of Lockport, N. Y.; W. C. Strub, of Attica, N. Y., and Fred Schlegel, of Rochester.

At the club meeting routine business was disposed of and the nomination of candidates for office for the next year, beginning March 1, took place. A good number of eligible material was duly honored, with promise of an active contest at the polls on the second Tuesday in March. On occasion, the details of which were put into was decided also to hold a banquet on that the hands of Charles Kottisch, S. A. Anderson and W. A. Adams, which signifies that there will be nothing left undone that would be to the advantage of the club. Some bowling games were indulged in later by local men and visitors.

W. J. Palmer, last week rather suddenly and unexpectedly, at the advice of his physician, hid himself to some Pennsylvania resort or sanitarium, in the interest of his rheumatic troubles.

William Scott and D. B. Long will attend the District Society's meeting at Buffalo, N. Y. They will probably be the only, but of course able, representatives of this locality at that meeting.

## Patterson, N. J.

Ed. Seery decorated the armory on the occasion of the Charity Ball. He also secured the DeVan-Morrisse wedding decoration.

One of the flower stores here is selling carnations at 10 cents per pair.

## Sault Ste. Marie, Mich.

The date of the meeting that Grohman Brothers of Saginaw will build greenhouses here.

TObAC-OIL

## Vaporizing Tobacco Extracts made

easy and sure by using the TObAC-OIL VAPORIZER—\$3.50 each. Money back if not satisfactory. Particulars by writing

H. A. STOOFFHOFF, 313 MADISON AVE., N. Y. C.

**GREEN** **2000**  
**Q. O. FT.**

OF FLOOR SPACE, EXTERMINATES AT ONE APPLICATION ALL GREEN FLIES, IS NON-INJURIOUS TO MOST DEER AND BLOOD, DRIES TO A FINE, WHITE IN COLOR, VAPORIZES COMPLETELY, LEAVING NO STICKY, DIRTY MASS TO BURN AND SMOKE. IT IS OIL OF NICOTINE. IF NOT PERFECTLY SATISFACTORY, YOUR MONEY BACK, BOOKLET FREE.

Mention paper cases.

H. A. STOOFFHOFF, 313 Madison Ave., N. Y.

**NEW ROSE**

**SOUV. DU PRESIDENT CARNOT**

Admired by everyone wherever seen. A strong, healthy grower, free bloomer, and a good all the year around rose, both for in and out of door culture. Should be grown by every LIVE FLORIST throughout the country as it will surely prove a money maker. Read what some of our Floral Artists and others from different parts of the country say about the blooms.

WM. H. BROWER & SON,

Floral Artists, 535 Broadway, N. Y.  
We think your new rose, Pres. Carnot, is one of the best roses that we have ever handled. It has a very fine color, good stiff stems, and as for keeping it is the best rose on the market. Our customers say they keep from six to ten days.  
We remain, cordially,  
WM. H. BROWER & SONS.

ALEX. MCCONNELL,

Fifth ave. and 45th st., New York.  
I consider your new rose, Pres. Carnot, a very valuable acquisition, supplying a light pink shade in color entirely distinct from any other rose cultivated for cut flower trade. Its strong and vigorous growing qualities and beautiful foliage are commendable, also a superb keeping rose, retaining its color for days. A very desirable variety.  
Yours,  
ALEX. MCCONNELL.

J. M. GASSER,

101 Euclid ave., Cleveland, Ohio.  
Your blooms of Pres. Carnot came to hand in good order, notwithstanding the long journey. They showed up in good shape, and were the admiration of all who saw them, especially of those who know a good thing when they see it. We think it will prove quite popular in the future.  
Respectfully,  
J. M. GASSER.

WM. SCOTT, Florist,

Cor. Main and Balcom sts., Buffalo, N. Y.  
The rose, Pres. Carnot, was received in good shape. The color I consider beautiful, and lasting qualities all that can be asked. After the third day they opened out beautifully and hung well.  
Respectfully,  
WM. SCOTT.

P. L. BOGART,

Sixth ave., New York.  
In regard to the new rose, Souv. du Pres. Carnot, it has a good stiff stem and a large flower. It is certainly a beautiful thing, and more particularly when flowers are full blown, showing its beautiful pink center. Its keeping qualities are excellent. I had a vase of them standing in my window from Tuesday afternoon until Saturday night, and even then they did not fall apart.  
Yours very truly,  
P. L. BOGART.



DAVID CLARKE'S SONS,

Boulevard, 75th and 79th sts., N. Y.  
We find the new rose, Pres. Carnot to be all that is claimed for it. Its delicate color and strong stiff stems, together with its excellent keeping qualities, make it one of the best roses on the market to-day.  
Yours truly,  
DAVID CLARKE'S SONS.

JOHN V. PHILLIPS,

372 Fulton st. & 7 Chitwood St., Brooklyn, N. Y.  
The Pres. Carnot roses sent me I distributed among my best customers for their approval, and being so exceedingly satisfactory for its keeping qualities, beauty of color, form, foliage and stiff stems, I received more orders for them than I could fill. The demand for them far exceeded your shipments.  
Respectfully,  
JOHN V. PHILLIPS.

Mrs. E. MILLER, Florist,

Inglton, Ohio.  
The Pres. Carnot roses were received by me in excellent condition on the afternoon of January 14. We have many visitors to see them. They were very much admired and talked about. The last one fell to pieces yesterday, January 24, showing it to be an excellent keeper.  
J. THIRKELDSEN, Manager.

PENNOCK BROS.,

134 Chestnut st., Philadelphia, Pa.  
We have handled our Souv. du Pres. Carnot roses since early last Fall, and have had no better selling rose. Have lost but very few flowers, as we find it to be one of the best roses to keep. It has brought double the price of about the same class of roses. Think it will be one of our staple roses when it can be had in quantity. Good strong stems and foliage, and large pointed bud of delicate pink, it has been quite a favorite this Winter.  
Very truly,  
PENNOCK BROS.

NORTON BROS., Florists,

Hotel Berkeley, Boston, Mass.  
Its delicate color, shading to pink and its long, strong stems, its fragrance and remarkable keeping qualities should place the new rose, Souv. du Pres. Carnot, with our most desirable roses.  
Very truly,  
NORTON BROS.

Plants of strong, healthy, guaranteed stock, out of 2 1-2 inch pots, ready for delivery March 15th, can be had of the undersigned at

**\$3.00 PER DOZ.; \$15.00 PER 100; \$125.00 PER 1000.**

50 at 100 Rates.

500 at 1000 Rates.

**STRAUSS & CO., ROBT. SCOTT & SON, E. C. HILL & CO.,**  
WASHINGTON, D. C. PHILA., PA. RICHMOND, IND.

**ROBT. CRAIG,**  
PHILA., PA.

**ERNST ASMUS,**  
WEST HOBOKEN, N. J.

Mention paper.





Chicago.

State of Trade.

There is no mistake about the condition of the market for carnations the past week. Everything was cleared off in fine shape, and the cry all along the line was that dealers should get in their orders. If this was not to a great extent caused by a shortage of cut among most growers, still it is a fact that everything might be considered very encouraging. But the cut was undeniably small for the season; a average however, not far off from the second week of March, if not before. It is astonishing how little the sun does itself this time of year, and until it brightens a similar condition of things will prevail. Prices, however, have not been so advanced as they were, and the sellers, and boxes of tea roses, sell at an average of from \$4 to \$6, with a few extra long stems, of those fortunately having them, from \$7 to \$8.

The Hoppers' Park folks seem to have had quite a fair cut of long-stemmed Beauties, going from \$4 to \$5 per doz. Bossert & Washburn's cut ran more to shorts and mediums, but prospects for long stems in a short time are good. Hartshill have sold in quantity lately at \$5 per doz. Indeed all white stock, on account of funeral, has been in great demand. The general drop of bulbous stock. Carnations have risen to \$2 for anything like fair stock, and the fact that has been so far, as to the past week, is that there is not much real fancy given in just now, and \$3 is about the figure for that. But the fact that carnations are still cutting fine California varieties; price for double or single, 75c to \$1; none too plenty.

Florists' Club Meeting.

The date of the next meeting might have been changed from February 25 to March 4. An extra large hall has been obtained for the fifth floor of the Masonic Temple. The date of the next meeting every accommodation will be supplied for exhibitions. Messrs. Stollery, McKellar and Wilson were appointed a committee to take charge of the exhibition. Flowers intended for exhibition, and forwarded from outside points, should be addressed to the care of Messrs. Kellar and Hartshorne, in the care of C. H. McKellar, 59 Wabash street, Chicago.

Another will be given at the regular dinner, March 25, consisting of a musical evening with refreshments, and your correspondent has been requested to give the boys reminiscences of the early days of the trade in this city. The committee in charge consists of Messrs. Baldwin, Kellar and Hartshorne.

The essay of the evening was by Joseph Reeves on "The Growing of the Chinese Primula." This gentleman is a very successful grower of this stock, having expended in each pot, with a spread of foliage from 20 to 24 inches, admirably flowered. Mr. Reeves is foreman for Mr. Andrew McLean, 218 33d st.

In the discussion which ensued Mr. N. Neillick objected to the use of bone meal as a fertilizer for pot plants, except for such as stayed in the pots a longer time. He preferred horn shavings, one-third of a pound to each pot, this being much quicker in action than bone meal. Mr. C. W. Johnson prefers Clay's fertilizer, a large proportion of which he has used in England, as well as here, with the best results, whether in pot plants or on the carnation beds.

Mr. Baldwin spoke very highly of Albert's horticultural manure, which is very good for act. in the soil. The latter cannot be used in obtaining it, as well as the necessity of using care in its use, as the company's motto is far too powerful, and has the means of disseminating its use in some hands.

Mr. Reeves maintained that the primula needs a cool, moist atmosphere to reach its highest perfection, and believed most growers due to improper handling during hot months. Seed is sown from the 1st to the 15th of June for early blooming plants, and a compost of peat moss and leaf-mould being the best when obtainable.

Clay's seed sowing lightly and do not press the soil very firm. The latter cannot be allowed to become dry and should be kept moist. Mr. Reeves said that seed germinates in from 10 to 15 days, and from beginning to end everything should be kept cool and moist. Mr. Johnson said that seed should be sown in three-inch pots, the soil to be a light rotted soil, rather rough, with a liberal proportion of rotted manure and sand.

At this stage plenty of light and syringing overhead will be found beneficial. In shifting to the four-inch pots use soil somewhat rougher and heavier and add a proportion of bone meal. He does not put firm and plants should never be allowed to get pot bound long. Keep the plants as close to the glass as possible, but not too close together. Carnations should be covered with all shade as soon as practicable. When plants have been shifted for the last time feed with nitrate of soda once a week until the flowers appear, using a four-inch pot of the nitrate to forty gallons of water. When in bloom feed occasionally with weak manure water, increasing the strength as the plants mature. Those wanted in batches by the young plants under 10 degrees, but they can be kept in good condition at 40 degrees.

Notes About Town. P. J. Hauswirth has been busy with receptions at the Auditorium, two of which were in honor of Lyman J. Gage, the new Secretary of the Treasury. The Pioneer Floral Company has also been successful with three receptions and one wedding, all at clubhouses of Jewish people. The late Mrs. J. C. Beck has the position of general superintendent of the West Side Park.

The Viator Brothers of Rogers Park are going largely into Jubilee, Triumph and Armatzany carnations this year. Stock in this market is not so good as it was in evidence as a seller as heretofore. EDGAR SANDERS.

ROOTED CUTTINGS. Cash prices.

All transplanted in soil; as good as pot-grown.

- Verbenas, Mammoth—\$1.00 per 100, but \$6.00 per doz. for 100.
Armatzany, Ivory, Della Fox, etc., 1.00 per doz. by mail \$5.00 per 100 by express.
Carnations, double and single, 1.00 per doz. by mail \$5.00 per 100 by express.
Carnations, double and single, 1.00 per doz. by mail \$5.00 per 100 by express.
Carnations, double and single, 1.00 per doz. by mail \$5.00 per 100 by express.
Carnations, double and single, 1.00 per doz. by mail \$5.00 per 100 by express.

THE BEAUTY FUCHSIA.

The best seller ever introduced. Has no equal as a money maker; begins to bloom profusely in February. Strong plants from 2 1/2 in. pots, \$5.00 per 100.

CERAMNUS.

- Silver Cloud, McElhannon, Happy Thought, 25c. pots, \$4.00 per 100.
Mrs. Pollock, from 2 1/2 in. pots, \$4.00 per 100.
La Favorite, throny good white, 2 1/2 in. pots, \$4.00 per 100.

BEONIAS.

- Rev. C. L. Erdosy, 2 1/2 in. pots, \$7.00 per 100.
In variety, 2 1/2 in. pots, \$5.00 per 100.
Good and reliable, from 2 1/2 in. and 3 and 4 in. pots. Strictly cash with order.

LINGOLIN I. NEFF, FLORIST,

4010 Butler St., PITTSBURG, PA.

FUCHSIA'S FUCHSIA'S.

Rooted cuttings, in flats, all the latest and best varieties, at least ten varieties, \$15.00 per 100. Strong, 2 1/2 in. pots, \$2.00 per 100.

CERAMNUS.

- AGERTUM—Dwarf blue and white, \$1.00 per 100.
PERFEVERE—Little Gem, in flats, \$15.00 per 100.

HEADQUARTERS FOR CRISSEUM COLEUS.

Crisseum Verechabottii and Golden Queen, \$5.00 per 100.
Caledonia, \$5.00 per 100.

Correspondence solicited on large orders. 200 to 300 per set; for the 100 add 15 cts. Cash with the order. Selection of sorts to remain with us. J. E. FELTHOUSEN, Schenectady, N. Y.

LARGEST AND FINEST FLOWERS

- BEST MAMMOTH, rooted cuttings..... per 100, \$1.25; per 1000, \$10.00
OLDEST MAMMOTH, rooted cuttings..... 1.00 8.00
BEST MAMMOTH, strong pot plants..... 3.00 25.00
OLDEST MAMMOTH, strong pot plants..... 2.50 20.00

STRONG CARNATIONS ROOTED CUTTINGS

- Jubilee..... \$5.00 \$50.00
Armatzany, Ivory, Della Fox, etc..... 2.00 20.00
umph..... 5.00 40.00
Buttercup, M. H. Stanley..... 3.00 30.00
Bridesmaid, Meteor, Storm King, Eldorado, Albertini, Alaska, Day-breck, Puritan..... 2.00 15.00
Dawn Hole, Boston 9'00..... 2.00
Dawn Cartledge, E. A. Wood..... 2.00
Lizzie McGowan, Fortia, Wm. Scott..... 1.50 12.50

STRONG ROOTED CUTTINGS.

- Ageratum, blue and white..... per 100, 100.00
Armatzany, Ivory, Della Fox, etc..... \$1.25 \$10.00
Coles, all leading sorts..... 1.00 8.00
Fuchsias, double and single..... 2.00 15.00
Geraniums, double and single..... 2.00 15.00
Hellebores, light and dark..... 1.25 10.00
New Flower, true..... 2.00 15.00
Salvia, Splendens and Wm. Beaman 12 100.00

WOOD BROS., Fishkill, N. Y.

THE STRANGE GARDENS, Queens, N. Y.

Carnations, Cannas, Chrysanthemums, Geraniums and Dahlias.

MENTION PAPER. SEND FOR OUR PRICE LIST.

100,000 VERBENAS.

Finest pot plants, \$2.50 per 100; \$20 per 1000. Rooted Cuttings, 75c. per 100; \$6.00 per 1000.

\* NO RUST OF MILDWEY.

Packed light and satisfaction guaranteed. Send for circular. We are the largest growers of Verbenas in the country. Our plants cannot be surpassed.

J. L. DILLON, Bloomsburg, Pa.

CANNAS AND CRATONS.

1000 Cannas for March delivery, in strong double crates for \$30.00.
Alba Rose, Bouvier, Chas. Henderson, Capt. S. S. Sutherland, Mrs. Elizabeth Rufus, de Rhone, F. Neuvessis, Florence Vaughan, Gifford, St. Helier, Jacquemont-Bonnefont, Maurice Myles, Madame Crozy, J. Beckmann, Paul Barent, Queen Charlotte.

P. J. BERCKMANS, Fruiland

When writing mention the florist's exchange.

DOUBLE PENUNIAS.

The Best. The Newest. Over 60 Named Varieties.

60 varieties including Pink Beauty and De-mander, per 100, \$125. 10 new Varieties, per 100, \$150.

PETUNIA GRANDIFLORA.

Whites, reds and variegated, separate, per 100, \$10.00.

Geraniums, 23 choice double and single, per 100, \$15.00.

George J. Hughes, Berlin, N. J.

HEALTHY VIGOROUS STOCK

Polyantha, strong plants, 7 varieties..... per 100 \$4.00
Hybrid Perpetual, strong plants, avars. 6.00
H. P. Magna Charta, Paul Neyron, 16.00
[Jacquemint, Ulrich Brunner, 5.00]

FIELD GROWN ROSES

Princess of Wales, 1.00 per 100
Dorothy Tuler, J. H. Starib, Pitcher & Manda, 1.00 per 100
Rooted Cuttings, \$2.00 per 100; \$17.50 per 1000.

CHRYSANTHEMUMS

Rooted Cuttings, POTTED PLANTS.
Ada Spaulding, Mme. Fruch, Bismarck, Helen Bloodgood, Elmer D. Smith, Jerry Man, Oakland, Olympia, M. M. Johnson, Henry Falkner, St. Richards, Louis, Gladys Stewart, Henry Robinson, Nemesis, Pink Froxy, Mrs. McK. Twombly, Myrtles, Foster, Palmer Mrs. S. Humphreys, J. E. Lacer, J. H. Troy, Harry May, Mrs. J. E. Carran, Frank Thompson, Dorothy Tuler, J. H. Starib, Pitcher & Manda, 1.00 per 100
Rooted Cuttings, \$2.00 per 100; \$17.50 per 1000.

WOOD BROS., Fishkill, N. Y.

THE STRANGE GARDENS, Queens, N. Y.

Carnations, Cannas, Chrysanthemums, Geraniums and Dahlias.

MENTION PAPER. SEND FOR OUR PRICE LIST.

THE CHOICEST VARIETIES IN CULTIVATION.

Finest pot plants, \$2.50 per 100; \$20 per 1000. Rooted Cuttings, 75c. per 100; \$6.00 per 1000.

\* NO RUST OF MILDWEY.

Packed light and satisfaction guaranteed. Send for circular. We are the largest growers of Verbenas in the country. Our plants cannot be surpassed.

J. L. DILLON, Bloomsburg, Pa.

CANNAS AND CRATONS.

1000 Cannas for March delivery, in strong double crates for \$30.00.
Alba Rose, Bouvier, Chas. Henderson, Capt. S. S. Sutherland, Mrs. Elizabeth Rufus, de Rhone, F. Neuvessis, Florence Vaughan, Gifford, St. Helier, Jacquemont-Bonnefont, Maurice Myles, Madame Crozy, J. Beckmann, Paul Barent, Queen Charlotte.

P. J. BERCKMANS, Fruiland

When writing mention the florist's exchange.

DOUBLE PENUNIAS.

The Best. The Newest. Over 60 Named Varieties.

60 varieties including Pink Beauty and De-mander, per 100, \$125. 10 new Varieties, per 100, \$150.

PETUNIA GRANDIFLORA.

Whites, reds and variegated, separate, per 100, \$10.00.

Geraniums, 23 choice double and single, per 100, \$15.00.

George J. Hughes, Berlin, N. J.

TUFF STUFF ON GREEN FLY IS TOBAC-OIL

J. E. FELTHOUSEN, Schenectady, N. Y.

When writing mention the florist's exchange

When writing mention the florist's exchange

# SIPIOT THE WEEKING

Offers the following varieties of Violets for March delivery. All plants are in perfect health, having been grown cold.

Princess of Wales (Princesse de Galles), introduced by me from France four years ago, \$3.00 per doz; \$24.00 per 100.

Princess Beatrice, new, \$1.00 per doz; \$7.00 per 100.

Admiral Alcock, new, \$1.00 per doz; \$7.00 per 100.

Little Blue, 75c. per doz; \$5.00 per 100. Also a large stock of older varieties, such as *Charming* and *Princess of Wales*. Cash with all orders.

FRANCIS SIPIOT, 57th St. and Lancaster Ave., PHILADELPHIA, PA.

## 50,000 VIOLETS 50,000

LADY CAMPBELL  
Rooted Cuttings, Strong Stock,  
6c. per doz; \$5.00 per 100.

BEACH & CO., Richmond, Ind.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## 100,000 Pansy Plants

Bugnet, Cassier, Franconia, Vase, Maudslayi, etc. \$1.00 per 100.  
Ladies' Yellow, \$1.00 per 100. Queen Charlotte, \$2.00 per 100.  
Wanted in Exchange—Pansies, double Heliotrope, Germanium, double P'box Drummond, V. Verona, Iowa, etc.

SHELLROAD GREENHOUSE CO., North Pearl P. O., Md.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## President Carnot Rose.

We was First Premium with this rose at the great Indianapolis 'Man show last November, with some from 8y to 4 ft. long. We have a fine stock on hand of this grand plant.

Write for prices.

W. W. COLES, KOKOMO, IND.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## MARIE LOUISE VIOLETS

ROOED & ROOTED RUNNERS  
LOOK HERE! This Stock Must be Healthy. Picked in October 2,000 flowers in November, 150,000; in December, 150,000; in January, 150,000. For the combination never will more than twice double this before Easter. \$4.00 per 100; cash with order.

GEO. T. SCHEMAM, Blue Point, N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## New Rose, Yellow Rambler

(AGL. I.A.)  
The only hardy yellow rose. A splendid companion to Crimson Rambler. Bound to become popular. Buy while the stock lasts. Five 2y in. plants, \$15.00 per 100.

THE DINGEE & CONARD CO.

Rose Growers, West Grove, Pa.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## LOOK HERE!

The following plants are in A1 condition.  
ROSES—out of 4y. pots, Bridemaid and Bride, \$2.50 per 100; \$20.00 per 1000; Meteor and Prince \$1.00 per 100.

Asparagus Plumosa Young, 3-year-old, \$1.50 per doz. All per 100. \$12.50 per 1000.

C. MERKEL & SON, Morton, Ohio.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## ROSES

From 2y in. pots, strong and in excellent shape.  
Bride, Bridemaid, M. W. Stanley, M. Nini, Marie Cloutier, Mary Washington, Louis Richman, Pink and White, French Rambler and Clatland Souper.

EMERSON'S CHIMNEY—The new extraordinary hardy pink climbing rose grows as rapidly as a bush and is bound to become popular. \$3.00 per 100; \$25.00 per 1000.

## GERANIUMS

The very best varieties, some from 7y in. pots, ready to ship in lots. \$1.50 per 100; \$15.00 per 1000.  
Herald, B. B. Perry, J. W. Merriam, Grand Chaucer, L. Favorite, Mrs. C. C. Perry, etc.

Our New Seedling Geranium, John A. Doyle—Brought to the place in 1895, it presents an appearance that can be seen in no other geranium that has ever been raised. It is a true breeding habit in so far as it has the good qualities of the best of the best bedding Geranium. \$4.00 per 100; \$35.00 per 1000.

J. A. DOYLE, - Springfield, Ohio.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## PANSIES.

THE JENNINGS STRAIN OF FINEST AMERICAN GROWN PANSIES. Fine plants from cold frames. 75 cts. per 100 by mail; \$4.00 per 1000 by express. \$1.00 per doz; \$10.00 per 100. E. B. JENNINGS, Lock Box 52, Southport, Conn. GROWER OF THE FINEST PANSIES.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## ROSES.

ALBISUS and GERANIUMS.  
Roses, Strong plants, 75c. in pot, \$2.50 per 100; \$20.00 per 1000. \$1.00 per 100; \$10.00 per 1000 additional.

- Arrippina Marie Van Heertel
- Barb. Charles
- Bon Silence
- Cherry
- Bridemaid
- Cherry
- Dr. Giff
- Eden
- Ernest Wilson
- John A. Lyon
- Pink
- Polka
- Henry M. Stanley
- In Princess Vase
- White
- Wanda Corbett
- White

TERMS CASH WITH ORDER.

R. H. MURPHY, Urbana, Ohio.

## THREE NEW RAMBLERS

Companions to Grimson Rambler.

## AGLAI, or YELLOW RAMBLER.

The only hardy yellow climbing rose. Has without 2 degrees below zero unprotected.

## EUPHROSINE, or PINK RAMBLER.

A clear light red.

## THALIA, or WHITE RAMBLER.

Pure white.

Send for free color by post and descriptive circular of Aglail. Every florist should handle these three important novelties. Strong plants from 2y inch pots, ready March 1st. \$2.00 per 10; \$15.00 per 100.

Send for Trade List of hardy, field-grown, Roses, Shrubs, Ornamental and Fruit Trees, and all things.

ROBERT & PERKINS CO., NEWARK, NEW YORK.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## VIOLET CLUMPS

MADE IN EUROPE. Per 100, \$3.00.

## ROOTED CUTTINGS

GERANIUMS, Double White, Pink and Red, \$1.00 per 100; \$10.00 per 1000.  
Lemon Verbena, Vinca Var., \$1.00 per 100; \$10.00 per 1000.

MRS. DOLLOU GERANIUM, 12.00 per 100.

ROSE BEGONIA, 2.00 per 100.

STREPTANTIS, 15.00 per 100.

ALTERNANTHA, VIOLETS, 5.00 per 100.

SWEET ALYSIUM, 1.00 per 100.

SALVIA, scarlet, HELIOTROPE, 1.00 per 100.

CARTIANS, 10.00 per 100.

COLEUS, various varieties, 6.00 per 100.

ROSE, Mamez, Bride, Woolton, 2.00 per 100.

BRIDEMOID QUEEN FUCHSIA, 1.50 per 100.

Double White, 2.00 per 100.

Write for prices on other rooted cuttings. Stock true to name and guaranteed.

TERMS, Cash or O. O. D.

GREENE & UNDERHILL, Watertown, N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## Pansies Worth Raising - LADY CAMPBELL VIOLETS

We can still furnish good plants, full grown, and which may bloom in April, at \$4.00 per 100, Cash express. Write for the time to buy if QUICK RETURNS are wanted.

Cash with Order.

C. Soltan & Co., 129 Grand Avenue, Jersey City, N. J.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## THE FARQUHAR QUEEN OF VIOLETS

HEADQUARTERS STOCK. TRUE AND PERFECTLY HEALTHY.

Earliest, Freest, Darkest and most Double. Planted now will flower and give a quantity of runners for stock. From 2y in. pots, in bud, \$4.00 per 100. Strong Rooted Runners, \$2.50 per 100, by mail; \$20.00 per 1000.

C. E. WELD, VIOLET SPECIALIST, ROSLINDALE, MASS.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## CLOU'S Carnations, Violets, Coleus and Giant Alyssum.

HEALTHY STOCK. NO RUST.

Carnation Cuttings—New and old, 25 varieties. Colorado, the most profitable variety to grow, \$1.00 per 100; \$10.00 per 1000. Some of our varieties also at \$1.00 per 100. Violets—Cassiope, root of runner, 60c. per 100; 2y in. pots, \$1.00 per 100. Violets—Cassiope, root of runner, 60c. per 100; 2y in. pots, \$1.00 per 100. Violets—Cassiope, root of runner, 60c. per 100; 2y in. pots, \$1.00 per 100. Violets—Cassiope, root of runner, 60c. per 100; 2y in. pots, \$1.00 per 100.

Lock Box 32

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## REINBERG BROS.

Strong, Healthy ROSES From 2 to 4 inch pots.

AMERICAN BEAUTY and TESTOUT..... \$5.00 per 100; \$40.00 per 1000  
GOLDEN GATE, PEARL, BELLE SIBERIQUE, BRIDE, BRIDEMOID, KAISERIN and LAFRANCE, \$3.00 per 100; \$25.00 per 1000. No orders for less than 100 of any variety accepted. We are the largest rose growers in the United States, and can fill all orders with the very best stock.

ROSE Cuttings upon application.

## CARNATIONS—Rooted Cuttings.

NOVOT and BELLA FOX..... \$3.00 per 100; \$25.00 per 1000.  
ROSE QUEEN..... 2.00 " 20.00 "

WM. SCOTT, DAYBREAK, NANCY NANKS, TIDAL WAVE, ALBERTINI, PORTIA, LIZZIE GILBERT, CORNAIL, LIZZIE MOGDAN, STORM KING and SILVER SPRAY, \$1.00 per 100; \$8.00 per 1000. No orders for less than 100 of any variety accepted.

The above stock is well rooted and free from rust. Send orders to

## 51 WABASH AVE., CHICAGO, ILLS.

## VIOLETS SPECIALLY

On and after March 1st I will be ready to supply, in any quantity, stock of the following varieties:

PRINCESS DE GALLEZ, THE QUEEN Prices of single Violets. The largest and most fragrant, strong rooted and productive.

LUXONNE..... application.

CALIFORNIA..... per 100, \$1.00; per 1000, \$8.00.

MARIE LOUISE..... " 50 " 4.00.

LADY CAMPBELL..... " 50 " 4.00.

FARQUHAR..... 1.50 " 15.00.

All from good plants, rooted runners.

Five French Medals; two American Medals; three Diplomas.

First Premium, Grand Central Palace, New York, under the auspices of New York Florists.

Send in your orders early. Cash with order or satisfactory reference.

## FERD. BOULON, Sea Cliff, L., N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## PANSIES!! PANSIES!!

Being the largest grower of Pansies in Europe, I can offer carefully selected seed of my choicest strains at a very moderate rate. The quality is quite equal if not superior to that of any other European house.

BATH'S EMPRESS. My own strain of Fancy Pansies, comprising the most numerous varieties specially selected for the Queen, the flowers are large, of good substance, and the colors very bright and varied. In sealed packets, 6c. 2y. and 10c. per doz; (retail, 1s. 10c. and 2s. 6d.)

BATH'S MONARCH. The largest and most productive colors. In sealed packets, 6c. 2y. and 10c. per doz; (retail, 1s. 10c. and 2s. 6d.)

BATH'S FANCY EXHIBITION PANZY. Saved from the choicest named exhibition flowers only. In sealed packets, 6c. 2y. and 10c. per doz; (retail, 1s. 10c. and 2s. 6d.)

BATH'S IMPROVED GIANT YELLOW. Large flowers of good substance. 6c. per doz; 50c. per lb.

LORD BEAUFIELD. Purple, top petals shading to white, splendid. 1s. 10c. per doz; 25c. per lb.

GIANT PANSY. Large velvety purple. 3s. per doz; 40s. per lb.

CLEVDON YELLOW. Golden yellow, slightly crumpled, a splendid bedding variety. 2s. per doz; 25c. per lb.

Cash with order or satisfactory reference.

R. H. BATH, THE FLORAL FARMS, WISEBECH, ENG.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

ut - Flower - Commission - Dealers.

J. K. ALLEN, Wholesale Commission Dealer in CUT FLOWERS, 57 W. 28th St., New York.

FITZGERALD & HAMMOND, Wholesale Commission Dealers in CUT FLOWERS, 115 West 30th Street, New York.

FORD BROS. WHOLESALE FLORISTS, 111 West 30th Street, New York.

WM. H. CUNTHOR, Wholesale Florist, VIOLETS and CARNATIONS A SPECIALTY.

MICHAEL A. HART, Wholesale & Commission Florist, 118 W. 40th St., New York.

H. A. HOFFMANN, Wholesale Florist, 54 W. 28th St., New York.

EDWARD C. HORAN, WHOLESALE FLORIST, No. 34 W. 29th St., New York.

JULIUS LANG, Wholesale Florist, 53 WEST 30th ST., NEW YORK.

FRANK FILLANG, Wholesale Commission Dealer in Cut Flowers, 408 East 34th St., New York City.

W. E. LYNCH, Wholesale Dealer in Cut Flowers. We are Headquarters for FINEST CARNATIONS and ROSES, VIOLETS, VALLEY, ROMANS, SMILAX, ADIANTUM.

BASSETT & WASHBURN, Grocers and Wholesale Dealers in CUT FLOWERS. We grow the finest of American Beauties and other Roses.

88, 90, 92 Wabash Avenue, CHICAGO, Ill.



Table with columns: NAMES AND VARIETIES, NEW YORK, BOSTON, PHILADELPHIA, CHICAGO, ST. LOUIS. Lists prices for various flower varieties.

For Prices of Fancy and Special Stock see our Correspondence Columns. Prices are for quantities of one hundred unless otherwise noted.

REINBERG BROS., Wholesale Growers of Cut Flowers. 500,000 Feet of Glass.

SALESROOM 51 Wabash Avenue, CHICAGO, Ill. WHEN WRITING MENTION THE FLORIST'S EXCHANGE

SAMUEL S. PENNOCK, WHOLESALE FLORIST. Long Spikes Extra Good.

WELL FLOWERED MIGNONE \$1.50 per 100, MYOSOTIS \$1.50 per 100.

We are still headquarters for finest and best varieties of CARNATIONS. 1612-1614 Barker St. St. Det. Chestnut & Market Sts. Philadelphia, Pa.

KENNICOTT BROS. COMPANY, Wholesale - Cut - Flowers, 88 Wabash Avenue, CHICAGO, ILL.

WIRE WORK A SPECIALTY. All commitments and orders entrusted to our cut garden will be given prompt and careful attention.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

Cut - Flower - Commission - Dealers.

THE NEW YORK CUT FLOWER CO. 119-121 West 23rd Street, 112-114 West 24th Street.

PURDY & BLAUVELT, Wholesale and Commission Dealers in CUT FLOWERS. MAIDENHAIR FEET FRONDS A SPECIALTY.

A. & F. ROLKER, WHOLESALE DEALERS IN CUT FLOWERS, 53 West 25th St., New York.

W. F. SHERIDAN, Wholesale Commission Dealer in CUT FLOWERS, 39 West 25th St., New York.

TRAENDLY & SCRENC, Wholesale Florists, 38 W. 28th St., and CUT FLOWER EXCHANGE, NEW YORK.

JOHN YOUNG, Wholesale Florist, 51 WEST 28th ST., NEW YORK.

WM. J. BAKER, Wholesale Florist, 1432 So. Penn Square, Philadelphia, Pa.

DUMONT & CO., WHOLESALE FLORISTS, CARNATIONS A SPECIALTY. No. 1305 Filbert St., Philadelphia.

EDWARD REID, Wholesale Florist - FINEST VARIETIES - Roses, Carnations, Violets. No. 40 South Sixth Street, Camden, N. J.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

Feb. 20, 1897.

**WHOLESALE FLORISTS**  
*N. S. Wharthy, Jr.*  
 JOBBERS IN FLORISTS' SUPPLIES.  
 JARDINIERES, UMBRELLAS, BASKETS, BAZAARS, TABLES, SPECIALLY. Horticultural accessories. Always on hand.  
 84 BAWLEY STREET, BOSTON, MASS.

**GEORGE MULLEN,**  
 Wholesale and Commission Dealer in  
**Cut Flowers.**  
 Best stock and lowest prices. Orders by mail, express, telephone, or tele-transfer promptly attended to.  
 GEORGE MULLEN 18 Chapman Place, Boston.

**GEO. A. SUTHERLAND,**  
 Successor to WM. J. STEWART,  
**CUT FLOWERS and FLORISTS' SUPPLIES**  
 WHOLESALE.  
 67 Bromfield St., Boston, Mass.

**City Hall Cut Flower Market**  
 WELCH BROS., Props.  
 Regular Consigners Given Space Free of Charge. Space left to growers willing to sell their own plants.  
 Flowers Shipped to all Points.  
 ...SEND FOR PRICE LIST...

**W. ELLISON,**  
 Wholesale Cut Flowers,  
 Florist Supplies. Wire Designs.  
 2744 Franklin Ave., ST. LOUIS, MO.

**CHAS. G. FLECKENSTEIN,**  
 Wholesale Flowers,  
 1232 PINE STREET,  
 ... ST. LOUIS, MO.

**C. A. KUEHN,**  
 Successor to ELLISON & KUEHN,  
**WHOLESALE FLORIST,**  
 1122 Pine St., St. Louis, Mo.  
 A COMPLETE LINE OF WIRE DESIGNS.

**C. W. WORS,**  
 Wholesale Florist,  
 313 N. LEFFINGWELL AVENUE,  
 ST. LOUIS, MO.  
 FINE ROSES—Shipped centrally to all parts of the country.

**HEADQUARTERS** In Western New York.  
 TRY US  
 ROSES, CARNATIONS,  
 AND VIOLETS.  
**WM. F. KASTING** Wholesale Commission Florist.  
 493 Washington Street,  
 BUFFALO, N. Y.

**ROGERS PARK FLORAL CO.,**  
 Wholesale Growers of Cut Flowers  
 OFFICE AND SALEM ROOM,  
 41 WASH AVENUE, CHICAGO.  
 Headquarters for AMERICAN BRADIES.

**TRABAGO STEPS**  
 75 Cts. per 100 lbs.  
 Holds water about 60 lbs.  
 THE BEST AND FAVORITE BUT BE FRUITFUL.  
 NOT ONLY USEFUL TO THE VASCULAR SYSTEM OF H. A. STITCHER, 315 Madison Ave., N. Y.

**"THERE ARE OTHERS"**  
 But  
 Can Supply —  
 E. H. HUNT, 100 N. CHICAGO  
**CUT FLOWERS ALL WANTS IN**  
**CUT FLOWERS SUPPLIES**  
 AND ALL FLORISTS' SUPPLIES  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CUT SMILAX**  
 10 cts. per String.  
**THE NATIONAL PLANT CO.**  
 DAYTON, O.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**E. G. HILL & CO.,**  
 Wholesale Florists,  
 RICHMOND, INDIANA.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**The Cultivation of Phalaenopsis.**  
 Paper read by F. McDonald before the New York Gardeners' Society, Feb. 15, 1896.

In early boyhood I made up my mind to study the nature of the phalaenopsis, and believe it was fairly common with the collection which was under my care at Summit, N. J.

I venture to say that it is only a question of a very short time when we will have the phalaenopsis on the cut flower market of the United States, as plentiful as is the cattleya to-day. Who of us would have thought, ten years ago, that the demand for cattleya blooms would have reached the proportion it has assumed at the present time? Fifteen—yes, or even ten—years ago there was little indication that the love for orchids and orchid flowers would grow so rapidly.

I do not deem it expedient to go into the history of the phalaenopsis, in this or any other country, for the simple reason that it is not yet well known to have a really authentic history. There is now, I believe, only one noteworthy collection of this orchid the world over, and that is the one and ultimately ending of Mr. G. Amesick's collection at Summit, N. J., which was the highlight over seen, according to the unanimous opinion of orchid experts on both continents.

In treating of the cultivation of any plant grown under glass, we must begin with the house in which we are to grow the plants, never to put air, or a house especially built for phalaenopsis; any ordinary stove house will do. Neither does it make much difference whether the house is built north, south, east or west, providing you have the desired temperature, which is 65 degrees, and there is more or less variation from that in the winter.

The next thing necessary about the house is a full supply of pure air, and ventilation is one of the greatest essentials to their well being. I have often been told by orchid growers never to put air on the phalaenopsis when it was freezing hard outside. Well, contrary to advice, I have put it on, and kept the ventilators open, whether the temperature was above or below zero; but when the weather was damp or cloudy, down came the ventilators tight, to remain so until the outside at-

mosphere became purified, when I would put on air again very gradually.

Heating is another factor which is too often omitted with regard to phalaenopsis. It is absolutely necessary to have a little fire heat in summer to keep the inside atmosphere purified. The first thing to be considered is to be allowed to go out during the summer months; so that when the day is damp or cloudy, you are living in a house that get the best of the fungi which are sure to accompany on the compost in such weather—disease which will follow to grow and reach the roots or foliage of the plants, is bound to bring dire results. An excessive increase in the house will bring black or yellow spot on the foliage—the worst disease of all to get rid of. In this case, a kind of only contact, perfume, and that is a continual wash over every individual plant. When this trouble is discovered, the remedy is simple. As soon as observed on the leaf, take your knife and cut off that portion of it where the disease is located. Be careful in cutting at least half an inch below the spot, though it may be the top of it. It seems hard to do this, but you will find by continuing this course right along in every case, and then using plenty of sulfur on the part of the leaf you have cut through, that you will have no more trouble with spot.

Another thing which brings about a great deal of vexation, and proves a great drawback to this magnificent orchid, is the yellow caterpillar, a small, but little insect that I have ever had to contend with. To get rid of him, as usual, keep the house in a state of cleanliness at all times. Have some fresh stems on your pipes, and always keep a little fresh stems in water to sponge with, give a light fumigation three times a week. If this is done regularly, it will keep the thrip within bounds. Phalaenopsis requires to be shaded from the direct rays of the sun at all times.

Watering is another of the most essential duties connected with the raising of an orchid. I seldom use any other than rain water, and that always of the same temperature as the house, or the water in the pan or pipe (the plants are generally grown in such), the best way is to have a barrel or cask in the house, and to draw the water as you can get it, and dip your plants at least once a week. By this I don't mean the foliage or the stem, but the compost and roots and up as far as the bottom leaf. This done, they require to be looked after with the watering gun every morning. They require this treatment only when growing.

When resting, i. e., drying them off a little, in order to get their flower spikes through the hard skin in their natural way, one has to be very careful, because on this depends principally general results. You have to study and know at what time your plants are ready to flower, and whether it is wise to get them into flower. To stop a plant from growing in order to get it into flower, you should lessen the water gradually, and when you see the flower spikes appear, increase the amount of water very slowly until the flower spikes are fully expanded.

Do they need to be fed? Well, yes, they do. I don't know what they get at their native home, but I do know that under cultivation they will take a good meal once a week while growing. Fresh cow manure diluted in water about one peck to the barrel, is what I used; and although I have also used several fertilizers I have found this liquid manure to be the best. But they should never be fed while in flower. The same course should be observed when they are through flowering, for at least two months. It is bad policy to let them flower too early, and to have a good point to pinch out all flower spikes from weak plants, and prevent them flowering at all this year, and to have the next year you will get a flower spike twice as strong and the plant will almost be double in size as a result of stopping its growth.

Now there are a great many little details which I do not consider necessary to mention here, and I refer you to some of our orchid books. Suffice it to say that you have in this paper the principal points necessary to the raising of an orchid, to obtain best results with phalaenopsis.

**ASPARAGUS PLUMOSUS**  
 Cut Strips, 5 to 10 feet long, 50 cts. each.  
 Shipped to any part of the country.  
**W. H. ELLIOTT,** - Brighton, Mass.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**JOHN CONLEY & SON,**  
 MANUFACTURERS OF  
**TIN FOIL,**  
 2 and 4 Dominick Street,  
 NEW YORK.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE  
**GARDEN, ETC., HOSE.** Mineralized Standard Hose, 1 1/2 in. dia. 3/4 in. thick. 100 ft. coiled, is the best hose made at any price. Flakes of a black leather. Leases wanted. MINERALIZED RUBBER CO. 12 CHURCH ST., NEW YORK.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE  
**M. RICE & CO.,**  
 Importers and Manufacturers of  
**FLORISTS' SUPPLIES,**  
 25 N. 4th St., Philadelphia, Pa.  
 NEW FALL CATALOGUE NOW READY.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE  
**BUY BOSTON LETTERS.**  
 Best and Cheapest in the Market.  
 1 1/2 and 2 inch. ... \$2.00 per 100.  
 Fine Script Letter in the World. \$3 a Doz.  
 See out of 1 wooden letter box we give away, to the first week's exchange.  
**BOSTON FLORIST LETTER CO.**  
 84 Newbury Street, BOSTON, MASS.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**BEED & CO.**  
 Wholesale Florists  
 1232 PINE ST. ST. LOUIS, MO.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE  
**STANDARD POTS.**  
 We are now ready to supply a superior quality of Pots in unlimited quantities. Catalogues and price lists furnished on application.

**A. H. HEWS & CO.,**  
 407H CAMBRIDGE, - MASS.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Standard Pots** MADE BY ...  
 Good Railroad Facilities **K'LLER BROS.**  
 For Shipping. Special Attention Given to Mail Orders. **Norristown, - Pa.**  
 Price Lists Furnished on Application.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**STANDARD FLOWERS**  
 In any quantity, and of the best quality.  
 Get my price list before ordering elsewhere.  
**W. H. ERNEST,**  
 Station M, N. E., WASHINGTON, D. C.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**STANDARD FLOWER POTS.**  
 Our Speciality is ready packed crates of Florists' Standard Flower Pots of all sizes. We can send you by railroad or by express, and you will get a hardy ready for shipment at any order is received. Price per 100.  
 1 1/2 inch. .... \$1.00 1 inch. .... \$1.00  
 2 1/2 inch. .... 2.00 2 inch. .... 2.00  
 3 1/2 inch. .... 3.00 3 inch. .... 3.00  
 4 1/2 inch. .... 4.00 4 inch. .... 4.00  
 5 1/2 inch. .... 5.00 5 inch. .... 5.00  
 6 1/2 inch. .... 6.00 6 inch. .... 6.00  
 7 1/2 inch. .... 7.00 7 inch. .... 7.00  
 8 1/2 inch. .... 8.00 8 inch. .... 8.00  
 9 1/2 inch. .... 9.00 9 inch. .... 9.00  
 10 1/2 inch. .... 10.00 10 inch. .... 10.00  
 11 1/2 inch. .... 11.00 11 inch. .... 11.00  
 12 1/2 inch. .... 12.00 12 inch. .... 12.00  
 13 1/2 inch. .... 13.00 13 inch. .... 13.00  
 14 1/2 inch. .... 14.00 14 inch. .... 14.00  
 15 1/2 inch. .... 15.00 15 inch. .... 15.00  
 16 1/2 inch. .... 16.00 16 inch. .... 16.00  
 17 1/2 inch. .... 17.00 17 inch. .... 17.00  
 18 1/2 inch. .... 18.00 18 inch. .... 18.00  
 19 1/2 inch. .... 19.00 19 inch. .... 19.00  
 20 1/2 inch. .... 20.00 20 inch. .... 20.00  
 21 1/2 inch. .... 21.00 21 inch. .... 21.00  
 22 1/2 inch. .... 22.00 22 inch. .... 22.00  
 23 1/2 inch. .... 23.00 23 inch. .... 23.00  
 24 1/2 inch. .... 24.00 24 inch. .... 24.00  
 25 1/2 inch. .... 25.00 25 inch. .... 25.00  
 26 1/2 inch. .... 26.00 26 inch. .... 26.00  
 27 1/2 inch. .... 27.00 27 inch. .... 27.00  
 28 1/2 inch. .... 28.00 28 inch. .... 28.00  
 29 1/2 inch. .... 29.00 29 inch. .... 29.00  
 30 1/2 inch. .... 30.00 30 inch. .... 30.00  
 31 1/2 inch. .... 31.00 31 inch. .... 31.00  
 32 1/2 inch. .... 32.00 32 inch. .... 32.00  
 33 1/2 inch. .... 33.00 33 inch. .... 33.00  
 34 1/2 inch. .... 34.00 34 inch. .... 34.00  
 35 1/2 inch. .... 35.00 35 inch. .... 35.00  
 36 1/2 inch. .... 36.00 36 inch. .... 36.00  
 37 1/2 inch. .... 37.00 37 inch. .... 37.00  
 38 1/2 inch. .... 38.00 38 inch. .... 38.00  
 39 1/2 inch. .... 39.00 39 inch. .... 39.00  
 40 1/2 inch. .... 40.00 40 inch. .... 40.00  
 41 1/2 inch. .... 41.00 41 inch. .... 41.00  
 42 1/2 inch. .... 42.00 42 inch. .... 42.00  
 43 1/2 inch. .... 43.00 43 inch. .... 43.00  
 44 1/2 inch. .... 44.00 44 inch. .... 44.00  
 45 1/2 inch. .... 45.00 45 inch. .... 45.00  
 46 1/2 inch. .... 46.00 46 inch. .... 46.00  
 47 1/2 inch. .... 47.00 47 inch. .... 47.00  
 48 1/2 inch. .... 48.00 48 inch. .... 48.00  
 49 1/2 inch. .... 49.00 49 inch. .... 49.00  
 50 1/2 inch. .... 50.00 50 inch. .... 50.00  
 51 1/2 inch. .... 51.00 51 inch. .... 51.00  
 52 1/2 inch. .... 52.00 52 inch. .... 52.00  
 53 1/2 inch. .... 53.00 53 inch. .... 53.00  
 54 1/2 inch. .... 54.00 54 inch. .... 54.00  
 55 1/2 inch. .... 55.00 55 inch. .... 55.00  
 56 1/2 inch. .... 56.00 56 inch. .... 56.00  
 57 1/2 inch. .... 57.00 57 inch. .... 57.00  
 58 1/2 inch. .... 58.00 58 inch. .... 58.00  
 59 1/2 inch. .... 59.00 59 inch. .... 59.00  
 60 1/2 inch. .... 60.00 60 inch. .... 60.00  
 61 1/2 inch. .... 61.00 61 inch. .... 61.00  
 62 1/2 inch. .... 62.00 62 inch. .... 62.00  
 63 1/2 inch. .... 63.00 63 inch. .... 63.00  
 64 1/2 inch. .... 64.00 64 inch. .... 64.00  
 65 1/2 inch. .... 65.00 65 inch. .... 65.00  
 66 1/2 inch. .... 66.00 66 inch. .... 66.00  
 67 1/2 inch. .... 67.00 67 inch. .... 67.00  
 68 1/2 inch. .... 68.00 68 inch. .... 68.00  
 69 1/2 inch. .... 69.00 69 inch. .... 69.00  
 70 1/2 inch. .... 70.00 70 inch. .... 70.00  
 71 1/2 inch. .... 71.00 71 inch. .... 71.00  
 72 1/2 inch. .... 72.00 72 inch. .... 72.00  
 73 1/2 inch. .... 73.00 73 inch. .... 73.00  
 74 1/2 inch. .... 74.00 74 inch. .... 74.00  
 75 1/2 inch. .... 75.00 75 inch. .... 75.00  
 76 1/2 inch. .... 76.00 76 inch. .... 76.00  
 77 1/2 inch. .... 77.00 77 inch. .... 77.00  
 78 1/2 inch. .... 78.00 78 inch. .... 78.00  
 79 1/2 inch. .... 79.00 79 inch. .... 79.00  
 80 1/2 inch. .... 80.00 80 inch. .... 80.00  
 81 1/2 inch. .... 81.00 81 inch. .... 81.00  
 82 1/2 inch. .... 82.00 82 inch. .... 82.00  
 83 1/2 inch. .... 83.00 83 inch. .... 83.00  
 84 1/2 inch. .... 84.00 84 inch. .... 84.00  
 85 1/2 inch. .... 85.00 85 inch. .... 85.00  
 86 1/2 inch. .... 86.00 86 inch. .... 86.00  
 87 1/2 inch. .... 87.00 87 inch. .... 87.00  
 88 1/2 inch. .... 88.00 88 inch. .... 88.00  
 89 1/2 inch. .... 89.00 89 inch. .... 89.00  
 90 1/2 inch. .... 90.00 90 inch. .... 90.00  
 91 1/2 inch. .... 91.00 91 inch. .... 91.00  
 92 1/2 inch. .... 92.00 92 inch. .... 92.00  
 93 1/2 inch. .... 93.00 93 inch. .... 93.00  
 94 1/2 inch. .... 94.00 94 inch. .... 94.00  
 95 1/2 inch. .... 95.00 95 inch. .... 95.00  
 96 1/2 inch. .... 96.00 96 inch. .... 96.00  
 97 1/2 inch. .... 97.00 97 inch. .... 97.00  
 98 1/2 inch. .... 98.00 98 inch. .... 98.00  
 99 1/2 inch. .... 99.00 99 inch. .... 99.00  
 100 1/2 inch. .... 100.00 100 inch. .... 100.00

100 plants off for each with order \$5.00 at Port Edward. Send for price list of planting and growing. We have a large stock of glazed cylinders with handles for holding water. **Hilliger Bros., Man'rs, Port Edward, N. Y.**  
**AUGUST ROLKER & SONS, New York or**  
 130 & 132 W. 24th St., NEW YORK CITY.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# GET OUR BULBS GUIDE

**CUT FLOWERS** **WIRE** **GENIILE**  
**FLORISTS** **EVERYWHERE** **FLORISTS** **FLORISTS**  
**SHEAVES** **DOVES** **BULBS** **TIN** **FOIL** **GREEN** **HOUSE** **STOCK** **ETC.**

**ALL SUPPLIES** **ETC.**  
**FERTILIZERS.**  
**FLORISTS & POTTERY CO. WIS.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Exhausted.** Can't Keep House Without It.  
 Your paper sets a good advertising medium that may be the lack of Florists and Wood men have been exhausted. Elizabeth N. J., July 1, '96.

I want the FLORISTS' EXCHANGE every week; can't keep house without it. E. P. DANIELSON, Danleisonville, Conn., Oct. 15, 1896.

**GLASS!** For Greenhouses, Conservatories, Graperies, Hotbeds and all other purposes, at Lowest Rates. **GLASS!**  
**N. COWEN'S SON** 392 & 394 West Broadway, New York.  
 Formerly 154 and 136 St., Fifth Avenue.  
 Get our Figures before buying Glass. • • • Estimates Freely Given.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Standard Flower Pots.**  
 Send for our New Price List with extra discounts. All our Pots, from 7 in. and upwards, have our Patent Elastolite Bottom, which is a great advantage, as it insures perfect drainage.

A FULL LINE OF BULB PANS.  
**THE WILLIAMS POTTERY CO.** 712 to 718 Walton Street, PHILADELPHIA.  
 BRANCH HOUSES: 1 Kenney and Westside Aves., Jersey City, N. J.  
 1 Jackson Ave. and Pearson St., Long Island City, N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**FLOWER POTS**  
 We are Manufacturing a Full Line of  
**STANDARD FLOWER POTS and HANGING BASKETS**  
 OF THE BEST QUALITY.  
 Shipping Facilities First-Class, thereby Securing Lowest Freight Rates!  
 Our goods are well packed, and breakage is nominal. Give us a trial. Send for Price List.

Address: **THE SYRACUSE POTTERY CO., 403 N. SALINA ST., SYRACUSE, N. Y.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**THE JOHN J. PETERS COMPANY**  
 (INCORPORATED)  
**PULVERIZED** **COMPRESSED**  
 A Quick Germinator and Crop Forcer.

**SHEEP FERTILIZER**  
 Pure Sheep Fertilizer permanently improves the soil.  
 Matures the largest and best crops. Quick and lasting in its action.

**NATURAL. ODORLESS** **CLEAN TO HANDLE.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Fall River, Mass.**  
 Mark Smith is reported very ill, and his friends fear that he cannot recover.

**Orange, N. J.**  
 John McGowan informs us that the information in a recent item regarding the fire at his place is erroneous. He uses hot water heating, and not stoves. In his greenhouse, the origin of the fire is unknown, but is supposed to be incendiary. One large bush, containing carnations, was completely destroyed. The damage he sustained amounts to between \$1,000 and \$1,500.

**New Orleans.**  
**A Cold Spell.**  
 We have experienced a very cold spell of weather the past two weeks—rain, snow and frost; and the thermometer going down to 22 degrees. The sleet froze as it fell, covering the palms with a mass of ice. For three days they were black and stiff. Fortunately none was injured. It is remarkable the degree of cold these palms will stand when once established. Phoenix reclinate is a very soft palm here, and a degree of frost will very quickly upon it. Very few are planted now. P. canariensis is a grand palm planted out, but does not succeed in pots.

Roses have got a setback for a time; we always get better roses after a good frost; they then get their much needed rest. Canines have suffered most, but few were killed. After all the cold weather does us lots of good. If we did not get it now and again we would be overrun with insects of every description.

Caninas are of no use here now, on account of the worm. We have tried many things for it, but what will kill the worm will kill the plant. Business is picking up a little now. Some of the large carnival balls are on.

Henry A. Dreer Inc. has made a donation of several thousand bulbs to Audubon Park.

J. Muller is on the road to recovery. H. FAWCOTT.

**Toronto.**  
**Annual Supper.**

The annual supper of the Toronto Gardeners' and Florists' Association was held in Webb's parlors on Tuesday, the 24th inst., and it was a very successful affair; I think the best we have had yet. Nearly one hundred members and friends were present. The dining room was artistically decorated with plants, azaleas in bloom, cinerarias, narcissus, anemones, palms and begonias. The tables were decorated with small plants and cut flowers, the latter being the Meteor roses, narcissus and anemones. Some of the latter being blooms of very fine seedlings. At the head of the table were some grand blooms of cattleyas and a few sprays of Coelogyne cristata.

President J. H. Dunlop was chairman. The most of the annual songs and stories were of the best. Several members of the City Council and the District Councillors were present as guests of the Association. Mr. Gammage of London, F. Foster, Jr., and Sam A'Heit of Hamilton were the members of the profession from outside points. (We would have liked to have seen more.)

After the supper the usual loyal and patriotic toasts were proposed and responded to. Some very fine songs were given by Messrs. Gammage, Herrick, Hinton, Kingston and Tidy. The president gave the toast of the Toronto Horticultural Society, coupled with the names of H. Simmons and B. Utley, president and vice-president. Mr. Simmons, in responding, spoke of the work the society intended doing, and asked all the gentlemen present who were not already members to join. Several signified their intention of doing so on the spot. The toast of the "Seed Trade" was responded to by Messrs. S. E. Briggs and H. Simmons; that of "The Growers," by T. Manton; "The Retailers," by C. J. Tidy. Both these gentlemen said there was less friction between the different sections of the profession here than ever before, and both agreed that the trade is all right. The toast of the "Past Presidents" was responded to by John Chambers and George Reeve, who each congratulated the society on its success. Messrs. Ayles and Gammage spoke as "Our Guests." Songs were also rendered by Walter Munton, John Chambers, George Manton, Alf Babbs and others. THOS. MANTON.

**TUFF STUFF ON GREEN FLY IS TOBAC-OIL.**

**Hot Bed**  
**Sash**  
 Tenons white-leaded. Corners secured with iron dovetail pins. Every detail of construction perfect. Made of Clear Cypress Lumber.

**Quick Shipments.**  
 We have in stock and can ship immediately:

3	ft. x 6 ft., 3 rows 10 in. glass.
3	ft. 3 in. x 6 ft., " 8 in.
4	ft. x 6 ft., " 8 in.

Not glazed, 1 1/2 in. thick.

**Delivered Prices**  
 Quoted on application. State size and quantity wanted. No order too small. We receive careful attention, and none too large for our facilities.

**LOCKLAND LUMBER CO.,**  
 Lockland, Ohio.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CHOCOLATE COOLER CO.,**  
 GRAND RAPIDS, MICH.  
 Manufacturers of  
**FLORISTS' REFRIGERATORS.**  
 Send for Circular.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**WATER FOR**  
 Your Stock  
 Your Crops  
 Your Garden  
 Your House  
 Your Lawn  
 Your Stable  
 Your Dairy  
 Your Hot-House

**EVERYTHING**  
 Dependent Upon Water.

Whether means so safe, simple, economical and free from caveats.

**THE DELAMATER-HIDER AND THE DELAMATER-ERICHSOHN**  
**HOT-AIR PUMPING ENGINES**  
 Will pump water from power, and force it to any height or distance. Will burn any kind of fuel. These engines are completely self-contained means of supplying water on farms, country and city residences, dairy and stock raising, and all other uses.

Will Save Property from Loss by Fire.  
 Send for catalogue to  
**THE DELAMATER IRON WORKS,**  
 467 West Broadway, N. Y. City.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**PURE DRY**  
**SHEEP MANURE**  
 The best all around Fertilizer in use. Is safe to use on all kinds of plants. In the dry state, dusted on loose or Carnation beds, is better than Guano or Bone Dust. Does not grow fly or worms like other manures. Quick acting and reliable.

In Lump, per Sack (100 lbs.), \$1.00  
 Ton Lots, \$15.00.

On Sheep Manure Freight is 34 Class in Bags

**CRITCHELL'S SONS,**  
 CINCINNATI, OHIO.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

LORD & BURNHAM CO., HORTICULTURAL ARCHITECTS AND BUILDERS, STEAM AND HOT WATER HEATING ENGINEERS.

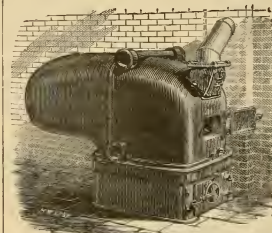
Plans and Estimates furnished on application.



Largest Builders of Greenhouse Structures. Six Highest Awards at the World's Fair. Send four cents postage for Illustrated Catalogue.

LORD & BURNHAM CO., ARCHITECTURAL OFFICE, 160 FIFTH AVE., COR. 21st STREET, NEW YORK. Factory: Irvington-on-Hudson, New York. Mention paper

GREENHOUSE HEATING AND VENTILATING, Horticultural Architecture and Building.



Mention paper.

SEND 4c. POSTAGE FOR ILLUSTRATED CATALOGUE.

Hitchings & Co

ESTABLISHED 1844.

233 Mercer Street, NEW YORK

FIVE PATTERNS OF BOILERS. NINETEEN SIZES.

Perfect Sash Raising Apparatus, Greenhouses, Etc., of Iron Frame Construction erected complete or the Structural Iron Work shipped ready for erection.

Iron Frame Beches with the "Perfect Drainage Bench Tile" or Slate Tops.

Evans' Improved Challenge. Roller bearing, self-lifting device, automatic stop, solid iron chain, makes the IMPROVED CHALLENGE the most perfect and approved in the market. Write for catalogue and prices before placing your orders elsewhere. Quaker City Machine Co., RICHMOND, IND.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

VALVES, FITTINGS, AND VENTILATING APPARATUS. COLDWELL-WILCOX CO., Newburgh, N. Y. Mention paper.

FOR SALE BY Seed Stores. For Free Pamphlet, Write to LOUISVILLE SPIRIT CURED TOBACCO CO., Louisville, Ky. THE BEST FOR ALL Florists.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Kill the Bugs! AND THE CAMELIONS. Does not injure the most sensitive plants. Endorsed by prominent Florists. Used for fumigation or spraying indoors or out. 200 pounds of tobacco in one pint of Nikoteen. Sold by seedsmen. Circulars free. BRACOURA DEP. CO., CHICAGO.

Quickly Does It. MEYER GREEN SILKALINE. Used for Dipping BENTLAYS and APPARATUS.

SILKALINE. Used for Dipping BENTLAYS and APPARATUS.

Will not fade, or rot like other colors. Made also in fancy colors for tying purposes. Send for samples and prices. JOHN C. MEYER & CO., 87 Summer Street, BOSTON, MASS., U. S. A. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

PIPE VALVES GLASS

Wrought Iron Pipe, Valves, Cooks, Fittings, etc., for Steam and Hot Water; Rubber Hose, Pumps and Well Points. WM. H. KAY, 42 Day St., New York. FOR GREENHOUSES, CONSERVATORIES, GRAPERIES, HOTBEDS AND AND FLORISTS' USE GENERALLY, AT LOWEST RATES. L. HARRIS & SON, 497 N. BROADWAY, NEW YORK, 89 LIBERTY ST., NEW YORK. Tel. Broadway and Church Bks.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

CALIFORNIA RED CEDAR Never Decays. A. DIETSCH & CO., 619 Sheffield Avenue, CHICAGO. MANUFACTURERS OF RED CEDAR AND CYPRESS GREENHOUSE MATERIAL. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

SEND FOR OUR NEW CATALOGUE, WHICH SHOWS The New Automatic Cable Ventilator. As it is put up in the house complete. We also give you prices with a guarantee that each machine sent out will operate your house successfully. Soil machines now made in two sizes. A. G. WOLF & BRO., Dayton, Ohio. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

STANDARD VENTILATING MACHINE. NOTHING EQUAL IT IN Strength AND Durability. SEND FOR CATALOGUE. E. HIPPARD, YOUNGSTOWN, OHIO. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Cypress Greenhouse Material. We are the pioneers in Clear Cypress Greenhouse Material. We discovered that Cypress is better than any other wood for greenhouses from top of posts up and we introduced it, and fought for it against many prejudices, and finally succeeded in bringing it into general use. Others have attempted to follow where we lead, others are trying to reap what we sowed, but we have the experience and are recognized as experts in greenhouse construction. Write for Circulars or Estimates. Lockland Lumber Co. LOCKLAND, OHIO.

SUMMER IN WINTER By Using Standard Greenhouse Boilers

One cent goes into Catalogue. GIBLIN & CO., - Utica, N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

MASTICA For Glazing Greenhouses. A substitute for putty superior in every way. MASTICA and MASTICA GLAZING MACHINES were given High Award of S. A. F. at Pittsburgh. Applications for Circular, F. O. PIERCE GO., 170 Fulton St., N. Y. Sole Manufacturers. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

CYPRESS GREENHOUSE MATERIAL OF ANY DESCRIPTION. SEND FOR CATALOGUE. JOHN C. MONINGER 412 to 422 WASHINGTON AV. CHICAGO, ILL. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

IF YOU WANT A GOOD SASH LIFT For a Very Little Money Get THE 'NEW DEPARTMENT' VENTILATING APPLIANCE. For Descriptive Catalogue Send to J. D. CARMODY, Evansville, Ind. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

SCOLLAY'S IMPROVED PUTTY BULB For Glazing Sash, Etc., PATENT PLANT SPRINKLER For sale by your Seedsmen, or sent, postpaid for \$1.00. JOHN A. SCOLLAY, 74 & 76 Myrtle Ave., BROOKLYN, - N. Y. SEND STAMP FOR CATALOGUE WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# SPECIAL NOTICE TO THE TRADE!!

The new seedling variegated leaf Canna, "JOHN WHITE," was originated by me and is controlled by **ME ONLY**. No one else has any right to use the name, and the **ORIGINAL STOCK** can be obtained **ONLY** from **ME** or my **AUTHORIZED AGENTS, WEEBER & DON**, 114 Chambers Street, New York, and the **ELIZABETH NURSERY CO.**, Elizabeth, New Jersey.

**"JOHN WHITE,"** the beautiful new variegated leaf Canna. Finest plant for all decorative purposes produced in years. **READY NOW.** From 4 inch pots, 75 cents each; \$7.50 per dozen; \$30.00 per 100.

CASH OR REFERENCE WITH ORDERS. CIRCULAR AND COLORED PLATE FOR THE ASKING. Address the Originator, **JOHN WHITE, Elizabeth, N. J.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## Florists' Supplies.

Largest Stock in the Country.

All goods up to date, and of superior quality. Send for Illustrated Catalogue.

**H. BAYERSDORFER & CO.,**  
56 N. FOURTH STREET, PHILADELPHIA, PA.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## NEW CAPE FLOWERS.

**A. HERRMANN,**  
404-412 E. 34th St., New York,  
Near Ferry.

Manufacturer of Floral Designs. Importer and Dealer in Florists' Supplies.

Write for Catalogue. Free to the trade.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Gleheis.** Camerlensis, in bud and bloom, is to 24 inches high, \$1.50 per doz., \$10.00 per 100.  
**Hex and Flowering Begonias,** 3 and 4 inch pots, \$1.00 and \$1.50 per doz.  
**Geraniums,** 40 leading varieties, 2 inch pots, strong plants, \$2.00 per 100.  
**Fuchsias,** 8 best varieties; Heliotrope, 3 varieties; Flowering Begonias, 10 varieties. Also Carnations, Dahis, Fuchsia, Salvia, etc., nice plants, 2 inch pots, \$2.00 per 100.  
Lots of other **FLORISTS' STOCK** at accordingly low prices.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**BRECKE COUNTY FLORAL NURSERY,**  
White Hall, Ill.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## Galax Leaves.

**CHAS. H. RICKSECKER,** Linville, N. C.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**FERNS! FERNS!**  
Eight million hardy cut Ferns, fancy or decorative. Just think of 14 60 cts a thousand, cash, first quality. All orders by mail or dispatch promptly attended to.

THOMAS COLLINS, Hinsdale, Mass.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## HARDY CUT FERNS



**\$1.00 per 1000.** Discount on large orders.  
**L. B. BRAGGE,** Hinsdale, Mass.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## GALAX AND LEUCOTHOE

Write the **INTRODUCER** of these two most beautiful new Decorative Greens for samples and information. Address

**HIGHLANDS NURSERY,**  
Kawana, N. C.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Live Sphagnum Moss and Orchid Peat**  
**BEST QUALITY.**

For Prices, etc., address,  
**Bernhard Lapp,** New Providence, N. J.

**WELCH BROTHERS,**  
DEALERS IN  
**FLORISTS' SUPPLIES,**  
No. 3 Beacon Street. - BOSTON.

Wire Designs, Wheat Sheaves, Baskets, Immortelles, Cape Flowers, Cut Flowers, Boxes, and all other supplies, at prices to meet competition.

**CLEMATIS** \*  
**CARNATIONS**  
**CHRYSANTHEMUMS**

For special prices address  
**C. EISELE,** 111th & Jefferson Sts., Phila. Pa.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WE MEET THE PRICES OF ALL COMPETITORS  
ON NEW  
**CANNAS "Italia" and "Austria."**



**500 DOLLARS WORTH FOR 25 CENTS**

Two years ago we offered the originator of these Cannas.

**1000 DOLLARS**

For one plant of **ITALIA** and one of **AUSTRIA**.

The offer was refused—\$5000 asked for a part of the stock. That the plants were fully worth the price asked was proved by the enormous sales made subsequently at \$5.00 each, even up to six months ago. Owing to rapid procreation we can now take our price on

(Flower One-half Size.)  
**AUSTRIA,** at 25c. each; \$3.50 per doz.; \$26.00 per 100; \$200.00 per 1000.  
**ITALIA,** at 60c. each; \$6.00 per doz.; \$45.00 per 100; \$400.00 per 1000.

The prices for immediate delivery and the finest, large, home-grown roots. Send for list of **ALL THE NEWEST CANNAS** at popular prices.

**ALL SOLD.** Our entire stock of **ASPARAGUS SPRENGERI**, consisting of nearly 10,000 plants, was sold to Mr. Robert Craig—he knows a good thing when he sees it.  
**NEW ROSES, CLIMBER WOOLTON, GARDNER PILKAR,** \$5.00 per doz.; \$10.00 per 100.  
\*Send for catalogue of novelties.

**A. BLANC & CO.,** 314 AND 316 N. 10th STREET, PHILADELPHIA.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## RÖLKERS' SOLUBLE CEDAR OIL INSECTICIDE



The price of any foreign soluble insecticide oil thus far introduced; it dissolves readily in any water, soft water preferred.

**Specially Prepared for AUGUST RÖLKER & SONS, New York.**

Who offer it to the American Horticulturists as the **BEST AMERICAN REMEDY** for destroying scale, aphid, thrip, fly, spider, mealy bug, and other insect pests. Does not injure a healthy skin. **Once Tried Always Used.**

**Directions:** For scale, plants dissolve one pint in fifty gallons of water; for hardwood plants and hard-shell insects increase up to a quart in thirty gallons of water, ganging by experience and by obscurity of each case; stir well, then dip, or spray with a fine rose-greenhouse syringe, or with the knapsack sprayer (capacity six gallons).

For dipping purposes, well to always keep a ready lotion handy in a cask or tub.  
**Send \$2.50 the gallon tin; \$1.00 the quart tin.**

Sold by **SEEDSMEN AND FLORISTS.**

**To Florists:** We sell the Oil for \$1.50 per gallon; 60 cents per quart. The soap for 90 cents a pound tin; \$12.50 the 50 lb. tub.  
**Trial Tins** of soap sent by mail on receipt of 50 cents for pound tins; 25 cents for half pound tins. Address

**AUGUST RÖLKER & SONS, 136 and 138 West 24th St., New York.**  
Importers of and Dealers in **FLORISTS' SEEDS, BULBS AND SUPPLIES.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

the best all around insecticide for house or greenhouse use. An antidote for all plants and animals. Keeps the foliage bright and healthy. For all insects, including the most troublesome ones, scale and thrip, mealy bug, and others. Put up in half pound tins and 50 lb. tubs. Sold by Seedsmen and Florists.

W.P. GALE  
231 Main  
\$3.00

# THE FLORISTS' EXCHANGE

We are a straight shoot and aim to grow into a vigorous plant.

A WEEKLY MEDIUM OF INTERCHANGE FOR FLORISTS, NURSERYMEN, SEEDSMEN AND THE TRADE IN GENERAL.

VOL. IX. NO. 9.

NEW YORK, FEBRUARY 27, 1897.

One Dollar Per Year.

## NEW CALIFORNIAN GIANT MARGUERITE (GIANT PEARL.)

This variety is truly a giant in size, the individual flowers often measuring 3 inches and over in diameter. The snow white petals are arranged in two rows around a dazzling yellow center, and are of good substance. Habit of plant is strong and compact, in every way superior in size and beauty to any other varieties introduced up to the present time. The originator writes us that he has in his garden all varieties of Marguerites in cultivation, and there are none which can equal the Giant Pearl in size of flower and profusion of bloom. No Frost growing cut flowers should be without it.

Young Stock, 2 inch pots, \$1.75 per dozen; \$12.00 per 100.

## "Every Bulb's a Pearl."

**EXCELSIOR DWARF PEARL TUBEROSES.** Selected, 4 to 6 inches in circumference, \$7.50 per 100. Of course: Quantity affects the Price. If you wish 5000 or more, write for sample and special quotation.

**JAPANESE LILIES.** New Importation. Re-packed—Bulbs guaranteed in perfect condition. Note: Japanese Lilies will scarce this Spring, owing to the enormous proportion of bulbs arriving worthless.

	Per 100	Per 1000
Lilium Auratum, 7 to 9 inches in circumference.....	\$4.50	\$49.00
Lilium Speciosum Rubrum, 7 to 9 inches in circumference.....	5.50	55.00
Lilium Speciosum Album, 7 to 9 inches in circumference.....	8.50	80.00
" 9 to 11 inches in circumference.....	8.50	100.00

**PITCHER & MANDA, Short Hills, N. J.**  
JOHN N. MAY, Receiver.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## We Have an Exceptionally Fine Stock of LARGE SIZED ARECAS.

Very bushy plants, 9 in. pots, 34 ft. high above pot, \$4 each; larger plants, 9 in. pots, 4 ft. high above pot, 25 each. These plants are in perfect shape, very bushy, and are exceptionally good value for the price.

LARGE SIZED ARECAS ARE SCARCE.

For price of smaller sized Arcas and other

## Palms and Decorative Plants

See our wholesale list, which will be mailed free on application.

## TUBEROUS BEGONIAS

VERY FINEST STRAINS OF BOTH.

Separate colors, white, pink, scarlet, and yellow; SINGLE, \$5 per 100; DOUBLE, \$8 per 100.

## GLOXINIAS

Finest strain, Crasseifolia Erecta Hybrida Grandiflora, \$4 per 100.

**Tuberose Pearl** Extra quality, very fine bulbs, \$1 per 100; \$7.50 per 1000.

**F. R. PIERSON CO.,**  
TARRYTOWN-ON-HUDSON, NEW YORK.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## SEND FOR OUR PRICE LIST OF HIGH GRADE SEEDS AND BULBS

If You Have Not Received One, FLOWER AND VEGETABLE SEEDS IN PACKETS.

## We Do Not "Commission" or Place Seeds Out "On Sale."

But we supply Florists with seeds put up in handsome colored packets for retailing at \$1.25 per 100, or \$10.00 per 1000. These Packets, besides having a lithograph of the flower the common and botanical name on the front, have a description of the flower and outline directions on the back and a blank space for name and address, which will be printed on same if ordered in 100 lots or more. SEND FOR SAMPLE.

Price of Peas, Beans and Corn in Packets, \$4.00 Per 100.

**DWARF PEARL TUBEROSE BULBS,** 4 to 6 inches in circumference, \$7.50 per 1000.

**TUBEROUS ROOTED BECONIAS,** sound stock, 6 colors, separate, \$3.00 per 100.

**GLOXINIAS,** named varieties, \$5.00 per 100.

In Making Up Your Order for Florists' Flower Seeds, Don't Fail to Include Some **ALLEN'S DEFIANCE MIGNONETTE** Offered this Season at \$1.50 per oz., and 35 cts. per packet, containing 1-8 ounce.

**F. E. McALLISTER CO.** Seed and Bulb Merchants, 69 Cortlandt St. N. Y.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## LILIUM HARRISII.

We control by contract nearly

half a million of the best bulbs grown on the Island of Bermuda.

Growers whose stock has proven relatively free from disease.

PRICES ON APPLICATION.

**VAUGHAN'S SEED STORE,**  
14 Barclay St., NEW YORK. 84 & 86 Randolph St., CHICAGO.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

NEW CANNAS. The Two Best "Yellow Fellows."

# DO NOT JUMP

to hasty conclusions before comparing our figures . . .



- Tuberose, 4 to 5 . . . . . 1000, \$7.25
- Caladium Esculentum med. 100, 8 00
- Gladiolus, red and scarlet mixed. . . . . 1000, 8 00
- Cinnamon Vines. . . . . 100, 3 00
- Madera Vines. . . . . 100, 1 50
- Bamboo Canes. . . . . 1000, 7 00
- Clay's Fertilizer. . . . . 50 lbs., 3 50

## WM. ELLIOTT & SONS

NEW YORK.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**WE ARE HEADQUARTERS ON**  
**BULBS FOR FORCING,**  
**FLOWER SEEDS FOR FLORISTS,**  
**ENGLISH MUSHROOM SPAWN.**  
 SPECIAL PRICES ON APPLICATION.  
**JOHN GARDINER & CO., Seedsmen,**  
 Box 1896, Philadelphia, Pa.  
 Wholesale and Retail Dealers in  
 all kinds of Horticultural Goods.  
 WHEN WRITING MENTION THE FLORIST'S EXCHANGE

- Asters, Giant White Comet, pkt., 25c; oz. \$2.00. Full Victoria, mixed, pkt., 15c; oz. \$1.00. Trifidum's Fancy Perfection, pkt., 15c; oz. 75c. Queen of the Market, mixed, all colors, oz. 75c. (Separate colors all sold.)
- Dahlia, Double Cactus, pkt., 10c.
- Cysoophila, White, pkt., 10c.
- Marguerite Carnations, trade pkt., 10c.
- Phlox Drummondii, Dwarf, mixed, pkt., 10c; 1/2 oz., 20c.
- Verbena, Mammoth, oz. 40c.
- Cauliflower, Eclipse, novelty, pkt., 15c. Write for sample and get your orders in before the 90 cent. order date is forced.
- H. BEAULIEU, Woodhaven, N. Y.

WORLD'S FAIR, CHICAGO, 1892.  
**The Only Diploma and Medal**  
 Awarded by the Committee  
 was given to us for  
**SWEET PEAS**  
 (In Variety)  
**GROWN AROUND**  
**THE WOODED ISLAND**  
**SUNSET SEED AND PLANT CO.,**  
 (SUNSET HALL NURSERY CO.)  
 Tuley, Hoquiam, Ore.  
 ..Pioneer Sweet Pea Specialists..  
**San Francisco, California.**  
 Send in estimate of next season's prices NOW so that we may quote you favorable prices for prime stock.  
 WHEN WRITING MENTION THE FLORIST'S EXCHANGE

# A FEW SENSATIONS

**Asparagus Sprengeri.** Just received advises from the disseminators of this grand perennal plants from the open ground, for March delivery, as follows:  
 1 year old, strong plants, \$5 per 100 | Special Prices for 1 1/2 year old, strong plants, \$15 per 100  
 Larger Quantities, 1/4 . . . . . 25

**Cannas, Austria and Italia.** Seed \$1.00 and get a large sample bulb of each by mail. Austria, \$5.00 per 100; Italia, \$50.00 per 100. When buying from us you get the best original bulbs, which has not been over propagated and forced to its full limit, but sound field-grown bulbs containing numerous eyes.  
 Special prices for larger quantities.  
**Cocos Weddelliana Seed.** Fresh seed just arrived. \$.50 per 1000. Box containing 1000 seeds, \$30.00.

**Lily of the Valley.** Choose selected forcing pips. \$7.50 per 1000, or box of 2500 pips, \$17.00.

**Tuberose Bulbs.** "Dwarf Pearl." As fine a sample as ever seen. Hard packed, 900 in a box. \$5.00 per box, or 5 lbs. for \$25.00.

**Caladium Esculentum.** "Elephant's Ear." Any size bulb you want from 5 to 9 inches in circumference; clean and sound. \$5.50 per box.

**Gladiolus, Begonia, Gloxinia, Cannas and Lilies.** Equally low in proportion.

**Asparagus Plumosus Nanus Seed.** \$10.00 per 1000 seed.

**Sweet Peas.** Emily Henderson. 25c Seed. A. Porter, white, pink, all mixed, per lb.; 5 lbs. for \$1.00. True and good. \$1 per oz.

**GLUCAS & BODDINGTON CO., PLANTS, SEEDS AND BULBS,**  
 Imparers, Exporters and Growers' Agents of  
 Telephone Call, 463-14th St. 501 and 503 W. 13th St., New York City.  
 WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**FROSTED PEACH SEED. GLADIOLUS BULBS.**  
 I am prepared to supply No. 1 Natural Snow Seed, ready for spring planting. \$1.50 per bushel; one barrel of bushels for \$4.00. Sample by mail to those who want to purchase. Also Jersey Yellow and Red Sweet Potato Seed in their seasons, at \$1.50 per barrel of full bushels. Packed to carry safely. All in first class condition. Address  
**CHARLES BLACK, Hightstown, N. J.**  
 WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**JOHN FAY KENNEL, Grower,**  
 Box 405, Rochester, N. Y.  
 WHEN WRITING MENTION THE FLORIST'S EXCHANGE

## Gladiolus Shakespeare

For Forcing. \$5.00 per 100; \$40.00 per 1000.

CHAS. H. ALLEN, Floral Park, N. Y.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**BEGONIAS, TUBEROSES AND GLADIOLI.**  
 I have to offer an Extra Choice lot of Tuberose Rooted Begonias. Single, large ones, 4 for \$8.00; 10 for \$12.00. Pink and scarlet—45 the following prices—100 for \$2.00; 500 for \$8.00; 1000 for \$12.00.  
**EXCELSEUR PINK TUBEROSE BULBS.** Large size \$1.00 per 100; \$10.00 per 1000; for \$2.00. Second size 40 cents per 100; \$4.00 per 1000; for \$1.00 per 100; \$10.00 per 1000.  
**GLADIOLI.** Finest quality. Large size \$1.00 per 100; \$10.00 per 1000; for \$1.00 per 100; \$10.00 per 1000. Second size 40 cents per 100; \$4.00 per 1000; for \$1.00 per 100; \$10.00 per 1000.  
 All these bulbs are guaranteed to flower the summer, all extra for 100; \$10.00 per 1000. For details see for bulbs to be sent by express or freight. If larger quantities are wanted, ask for special quotations Stock limited, but all orders filled.  
**F. B. MILLS, Seedsmen, Box 200, Rose Hill, New York**  
 WHEN WRITING MENTION THE FLORIST'S EXCHANGE

## GET THE BEST ASTER SEED

of the celebrated Simple Aster, separate colors, pink and white, also mixed. Seed well cleaned, plump and good. Crop of 1896. For sale in any desired quantity by  
**JAMES SEMPLE, Box 2, BELLEVUE, PA.**  
 WHEN WRITING MENTION THE FLORIST'S EXCHANGE

ORDER YOUR GOODS FOR SUMMER DELIVERY IN TIME

**Early Orders are the BEST, the BEST GET, the BEST PRICES**  
 Delivery from MARCH to JUNE.

- Iris Kæmpferi, Lygodium Japonicum,
- Japan Maples, Pysalis Franchetti,
- Aspidistra lurida clumps, Japan Bulbs.

We quote you now for delivery in JULY to SEPTEMBER.

- Freesia refracta alba, Tree Fern Stems,
- Calla Ethiopica, Palm Seeds,
- Li. Longiflorum, California Forcing
- Chinese Narcissus, Bulbs.

ROOTED CUTTINGS OF ALL THE CHOICEST AND RAREST

CHRYSANTHEMUMS, PRIZE WINNERS IN JAPAN.

Write for prices and information. Address all communications to  
**H. H. BERGER & CO., (Established) San Francisco, Cal.**  
 WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**BURDEE'S SEEDS**  
 PHILADELPHIA  
 WHOLESALE PRICELIST  
 TOP FLORISTS AND MARKET GARDENERS  
 WHEN WRITING MENTION THE FLORIST'S EXCHANGE

## ASTER SEED

Vick's Branching White and Simple's White and Pink. \$1.50 per doz. Snowball, \$1.00 per doz. Seed well cleaned. Crop of 1896. Pound rates on application.  
**J. G. KEELER, 357 Monroe Ave., Rochester, N. Y.**  
 WHEN WRITING MENTION THE FLORIST'S EXCHANGE

## SEEDS for Profit Sweet Peas

Wholesale Catalogue on application.  
**WEBER & DON,** Seed Merchants,  
 114 Chambers St., New York City.  
 WHEN WRITING MENTION THE FLORIST'S EXCHANGE

## ASTER SEED!

White Branching and Simple's White and Pink, \$1.25 per oz.  
 Seed Well Cleaned Crop of 1896.  
**HENRY WINDHEIM, Avondale, N. J.**  
 WHEN WRITING MENTION THE FLORIST'S EXCHANGE

## Single Begonia Bulbs

in separate colors. Per 100, \$4.00; per 1000, \$30.00. —the Pearl, A. Per 100, \$1.00; per 1000, \$8.00. All other seasonable bulbs on hand. Ask for price list.  
**HULSEBOSCH BROS., Englewood, N. J.**  
 WHEN WRITING MENTION THE FLORIST'S EXCHANGE

## PALM SEED.

Washingtonia Sonora, Per 100, \$1.00; per 500, \$5.00; per 1000, \$5.00.  
**CALIFORNIA NURSERY CO., Niles, Cal.**  
 WHEN WRITING MENTION THE FLORIST'S EXCHANGE

## Prize-Winning DAHLIAS

AN UNPRECEDENTED RECORD.

23 First Prizes, Certificate of Merit, 2 Diplomas, and highest mention everywhere.

If you want the Very Best Dahlias that bloom, send for our 1897 descriptive trade list now ready. Address  
**W. P. PEACOCK,**  
 Dahlia Specialist, ATCO, N. J.  
 WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**PALM**  
 Seed. FRESH ON HAND  
 Per 100 1000 5000  
 Cocos Weddelliana . . . . . \$1.25 \$12.50 \$37.50  
 Dracaena rubra . . . . . 1.25 12.50 37.50  
 Musa Cavata . . . . . 1.25 12.50 37.50  
 Cycas revoluta . . . . . 1.25 12.50 37.50  
 Cordyline Alluaudiana . . . . . 1.25 12.50 37.50  
 Asparagus Sprengeri . . . . . 1.25 12.50 37.50  
 Dracaena Indian Hibernica, per 100, \$5.00; per 1000, \$50.00  
 Yucca maculifolia . . . . . 1.25 12.50 37.50  
 Yucca elephantica . . . . . 1.25 12.50 37.50  
 Arethusa crenatifolia, \$1.25 per 100; \$14.00 per 1000.  
 Chamaecyparis and Thuja all various on stock.  
**J. L. SCHILLER, Rutherford, N. J.**  
 WHEN WRITING MENTION THE FLORIST'S EXCHANGE

## American Carnation Society, FIFTH ANNUAL MEETING.

HELD AT CINCINNATI, FEBRUARY 18 AND 19, 1897.

Our last week's number contained a list of the names of those who were present at the sixth annual meeting of the above society, held at Cincinnati. In this issue we will continue the list of the participants. A full account of the exhibition is also given. As mentioned in our last, the most important feature of the meeting was the display of the beautiful carnation blooms shown by Mrs. Barker & Sons, Bradt exhibited by Fred Dorner, & Mrs. Mayhew, Ind., and Jubilee by Mr. H. H. Lutz and E. G. Hill & Co., being marvellous of good cultivation.

All the meetings were well attended, and the business was conducted with a vim which was most gratifying, demonstrating the high esteem which pervaded the delegates.

At no time was there a lull in the proceedings, and the Cincinnati gathering will go down in history as one of the most successful in the annals of the American Carnation Society.

SESSION THURSDAY,  
EVENING, FEB. 18.

The sessions were held in a room in the Gibson House, and by a change in the mode of procedure from that adopted at previous meetings the first session occurred at 8 P. M. on Thursday, Feb. 18, and was presided over by Mr. L. W. Sauer, President Richard Witterstaetter occupying the chair.

The chairman introduced His Honor, Mayor Brant of Cincinnati, who spoke as follows:

"Mr. Chairman, Ladies and Gentlemen: I have never known a florist or one who was engaged in propagating the beautiful flowers, to be other than a good citizen; and I have never known one of those who are known of one of them being in trouble and having to be dealt with by the officers of the law, and that I might mention distinguished member of your society. (Great laughter.) I will explain his trouble—his name is— (Pause.)— (Applause.)— Those who are engaged in beautifying the world and making it better for every one, have a right and an obligation to the world's improvement, cannot be otherwise than good citizens, and I am glad to see that there is, at an exceeding great pleasure to me and welcome you to Cincinnati, as an official of the right hand fellowship. I want to say to you that our people feel complimented that you have selected this city as the site for one of their meetings. Now, you can guess why he asks that question."

"(Great applause.)— He has been in trouble before. (Renewed laughter.)"  
The Mayor, continuing: "If it not amusing to all of us here in Cincinnati, we have trouble always have to speak before they are accused of anything." (Roars of laughter.)

"But, gentlemen, I sincerely trust that you will have a pleasant and profitable time, and I want you to do it if you do not expect to make Cincinnati your future meeting place. Remember, gentlemen, that I am here to do nothing but to be of use to my house, the telephone in my office rings at any hour of the day, and the telephone in my apartment at night. (Renewed applause.)"

The chairman then introduced to the President of the American Carnation Society, in response to the Mayor's address. He said, in part:

"My dear Mr. Mayor, you will be tired of hearing generally. Twelve years ago, at the birth of our national society, known as the American Carnation Society, Cincinnati was chosen as its first meeting place, and I joyally were the florists treated. The society grew, and prospered, and prospered with best intentions, has prospered, and is still the association around which we all have gathered. I am glad to see that you have so cordially welcomed to-night, is an offshoot of the parent, and such has our growth been that we have throughout the country devote their entire time and

energy to the cultivation of the carnation flower, and the result has been that florists have produced varieties of this ever-popular flower, the attribute of which were its beauty and the great variety of its color.

I must leave to the able president of the society the pleasant duty to tell us of the progress and the ability of the general development of the carnation. And I can only say they are a cosmopolitan set of individuals, the strict rules of social etiquette were being entirely ignored. You will find Lily Dean bringing with Charles A. Dana, Lizzie McGowan hobnobbing with the Rev. Dean Hole, even at the unbecomingly hour of Daybreak. Helen Keller sits meekly by and smiles with composure. Armazindy, Della Fox and Uncle John have gone off on a trip together; Mayor Pogue has looked out for reforms and will do his best that no unworthy aspirant enter the field, while Emma Worthey, Mrs. Bradt and Mrs. H. H. Lutz, and our famous ladies, consider this occasion a regular Jubilee.

It was with feelings of the most sincere gratification that the sad tidings of the death of the president of this society and my beloved citizen, Harry L. Sunderbruch, passed over the country. Modest, unassuming, hard-hearted man, respected and loved by all who had the pleasure to know him, he was really a man of great worth. His tidings, and was always ready to help a good cause. We sympathize with the florists of Cincinnati at this juncture, and I can only look forward to this date, when the fierce face and beaming good nature of the great and good man, who has made this was not to be, and all too soon he was taken from us.

"My dear Mr. Mayor, that your florist visitors are a barones and well-behaved lot of men. It is impossible that a florist can be other than a well-to-do, well-bred man. Their business is elevating in both mind and body; many of them are covetous, and it is a pleasure to see them as a by-product of genius since the dawn of history. Many of them are philanthropists in their own right, and they are a credit to our Honor that if my memory serves me right, I do not remember a prominent gardener or florist, who was not a good citizen."

These conventions are productive of the greatest good; we learn to know each other, and to know ourselves. This we may see an exchange of ideas with your intelligent fellow man. Conventions have brought to me a right man, who is like my light under a bushel. Though so universally known, how can this be so expressed as by Grey's immortal lines:

"Full many a gem of purest ray serene,  
The deep-veined earth's self had hid away,  
Till my full flower was born to blush unseen,  
And waste its sweetness on the desert air."

The chairman next introduced the president of the Cincinnati Florists' Society, E. G. Hill, who said in response to the Mayor's address as follows:—"Mr. President, Ladies and Gentlemen of the American Carnation Society: I have a very little pretension in me, after the eloquent address of welcome which you have rendered me. I am a florist, and I am proud of it. (Applause.) We only wish that the Cincinnati Florists' Society were what you are, and that I could be a great honor to have the pleasure of entertaining this society—a society so respected as you are, and which has been a society which, though only a few years old, has made more progress than any other society of florists. I am proud of it. (Applause.) We only wish that the Cincinnati Florists' Society were what you are, and that I could be a great honor to have the pleasure of entertaining this society—a society so respected as you are, and which has been a society which, though only a few years old, has made more progress than any other society of florists. I am proud of it. (Applause.)"

The chairman next introduced E. H. Michel, Secretary of the Cincinnati Florists' Society, who responded to President Hill's address of welcome. He said, in part:

"The florists who are here, of course, chiefly for business reasons. But our friends have not forgotten this in their coming to-night, which, when touched, will respond most quickly and bring pleasure as well as profit to all who are present, and to which I have already referred. And while our busi-

ness is the principal cause of our presence here, it is not our only reason. For instance this short vacation is the only one we take throughout the busy winter season, and it is our only outlet of recreation, and the entertainment which you provide for us here, I assure you, gentlemen, is most thoroughly enjoyed."

To hold these annual gatherings in places where good attendance and favorable surroundings could be secured, and the greatest care, and upon the proper selection of such places depends also the success of our meetings, and consequently the prosperity of the society. Meetings in the past have been held in many different sections of the city, and I can only say that it was very satisfactory to such a degree that the society, once looked upon as merely a local branch of the great national society of florists, has now grown to be of equal importance and is possessed of greater vitality than the member organization. This year's meeting place I am sure, has been selected with great judgment. Cincinnati is not only centrally located, but we find it a most fitting place for the meeting of the Carnation Society because the roll of its florists contains the names of so many who have done important work in the advancement of the divine flower, and it is a pleasure to see them so well organized and conducted to encourage improvement and increased popularity of our flower. Some of the florists of the West, Chicago and St. Louis, have more growers in their immediate vicinity than any other place in the country. I would think it most natural that these places should present such a marked advance in far market cultivation; Cincinnati; and the experience of the past few years has shown that the large cities, where they may supply the largest market, have not within their spheres such a number of enthusiasts who are ardently devoted to the propagation of the divine flower, and the welfare of the society, as Cincinnati; therefore, I feel that the most fitting place for the meeting of this society in Cincinnati will mark another step forward.

Again referring to your hospitality, I can only say that I feel that I believe I voice the sentiments of most of those here assembled, have anticipated just such an opportunity to be afforded to me by one who has known the members of the craft here in Cincinnati since its beginning, and who has seen them do things of this kind by halves. We know, when you invited us to come, that we could expect to find a most generous reception; that there would be no flaw in the arrangements for our entertainment here; that we should be met by the society. If we had not personally met, then we knew by reputation, and by the fact that we had known of the presence of Huntsman, Walk, and that peer of all good floss, whose laudable and all-aiming efforts, the terrible push forward the interests of this society, and have worked so energetically for its behalf since its inception, the Carnation Society and the florists of Cincinnati have suffered to see the society. His memory and the hospitality of his recent co-laborers in this field, and his devotion to the welfare of the society, that it may be known as a banner year, can be no other means by which we can show our appreciation in a manner that should be most gratefully received by you, and call for careful attention to the interests and welfare of the Society at this meeting, and to the same end, we have made such thorough and unselfish preparations. (Applause.)"

### Secretary's Report.

Secretary Herr read his report, as follows:—"Mr. President and Gentlemen: Your report on the business of the Cincinnati Florists' Society at our last meeting in the time and having mailed them to a member of the society, and to a member of the list of membership. There are a few whom it is impossible to find."

Following the suggestion of the Executive Committee, a number of circular bulletins have been sent to all the members of the society, and an important feature with the co-operation of the members

"There were few delinquents in the list change in the membership. There is room for a little work in this, and a number of growers we have interested in carnations in the United States."

"We will refrain from adding to this report the fact that our lamented president did noble work for this meeting, and to the present day. Respectfully submitted,

A. ALBERT M. HERR, Secretary.

Treasurer Allen's report showed a balance in the treasury of the society's credit of \$141.18.

**Discussion of President's Address.**  
(See pages 165 and 166 of last week's issue for a preliminary address.)

**A Fixed Scale of Points.**  
C. W. Ward, Queens, N. Y., considered the suggestion to have a stable scale of points a most important one. Intending to take the preliminary certificate for next year, ahead, what rules and regulations for exhibitors were to be enforced, each of the preliminary certificates to be awarded to a dozen dozens of seedlings, and last fall he bunched his seedlings, and the results of the preliminary certificate were disseminated, after his plants were all touched, the number of blooms had increased from a dozen to twenty-five. With many varieties he did not have the number of plants from which he could pick twenty-five blooms, and was therefore unable to exhibit for a preliminary certificate. If the society adopted its rules and scale of points to be accepted by the Judges at Fall exhibitions, the scale has got to be fixed, and the preliminary certificates for next year should arise necessitating that being done. He suggested a committee be appointed to take up the subject, and a scale should be adopted by the society.

William Scott thought the suggestion to have a fixed scale of points for commercial and exhibition varieties a most valuable one. He said: "We know very well the responsibility of the preliminary certificate is simply marvellous; something not dreamed of ten or a dozen years ago. We would not touch the number of exhibitors, having overestimated a certain number of growers to produce such flowers; that the preliminary certificate is a most important one. At the same time there was no doubt that the blooms had been grown for the preliminary certificate. The preliminary certificate, say twice a year, to visit the houses where the different varieties are grown, and to see the habit of the plant and the number of flowers each was producing, and to see the growth of the plants. It is undesirable to buy a variety, specimens of which had been seen before, and to buy them as a specimen, and then find, after they have been one year under your care, that they are not what you expected. I suggested it would be possible to learn, reliably, what were really good market cars."

E. H. Michel, St. Louis, said Mr. Scott had proposed something that left room for a great deal of profit, and he was unable that an organization, with the object in view to pass judgment on fancy stock exhibitors, and to see the results of the representatives around to the various farms to inspect the stock at different times when they are in the hands of the growers; and if the committee were to visit the grower at times which he would designate in his report, and to see the results of the impression with a variety would be even better than when he had to grow it for an exhibition. He suggested that the society would not be any better informed as to the variety's merits than under present conditions, and he suggested that records of particular horses or cattle was to judge them on the circuit, at the various points, and to see the results of the best way to ascertain the merits of a carnation is to watch it wherever the flowers are grown, and to see the results of the carnation in Chicago, New York, before the American Carnation Society, or wherever they are grown. He suggested that the carnation bloom wins laurels wherever it is a sure evidence that they are worthy. One reason for the present state of affairs is the profusion of it. He thought the words of those who were in close contact with the preliminary certificate, and the preliminary scheme as suggested by Mr. Scott, the speaker considered impractical.

Mr. W. Ward, that there should be established a fixed programme or line of work in regard to the preliminary certificate, and a number of flowers of different varieties required. He considered it a mistake that the preliminary certificate be given in connection with a preliminary certificate because a great many growers of second year plants have not time to produce and grow a sufficient number of plants to produce 25 blooms at one time, from the fact that the preliminary certificate is considered 12 flowers sufficient for all purposes.

As regards a scale of points for judging, and to see the results of the preliminary certificate, the florists' clubs throughout the country to adopt these points at the meetings, when each grower is given a preliminary certificate, the method of judging would thus be established which would be very valuable.



better which could not be generally obtained until the following year. A mortality among growing plants was also effected that it was the sense of the meeting that the committee in preparing the premiums should make some provision for varieties in commerce and standard varieties exclusively; that is, those varieties seedlings be raised from these classes.

A vote of thanks was tendered to Messrs. Charles Weber and Wm. H. Hill.

**Stem Rot and Overhead Watering.** Mr. Beucher said he would like to hear from Mr. Ward, Mr. Hill and other veteran carnation growers in regard to stem rot, and whether they syringed their plants over the foliage.

Mr. Hill stated he had found that deep planting increased this trouble. Sometimes cuttings put in cold frames and watered there until started, he found that deep planting increased this trouble. Sometimes cuttings put in cold frames and watered there until started, he found that deep planting increased this trouble. Sometimes cuttings put in cold frames and watered there until started, he found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble. Sometimes cuttings put in cold frames and watered there until started, he found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble. Sometimes cuttings put in cold frames and watered there until started, he found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble. Sometimes cuttings put in cold frames and watered there until started, he found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble. Sometimes cuttings put in cold frames and watered there until started, he found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble. Sometimes cuttings put in cold frames and watered there until started, he found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble. Sometimes cuttings put in cold frames and watered there until started, he found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble. Sometimes cuttings put in cold frames and watered there until started, he found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble. Sometimes cuttings put in cold frames and watered there until started, he found that deep planting increased this trouble.

dark scarlet and crimson varieties, but he made it a point to pick his flowers before they were fully open, and also variegated kinds, it did not hurt.

Mr. Henry Kreder remarked he had seen a scarlet carnation in England. He had seen a scarlet carnation in England. He had seen a scarlet carnation in England.

Mr. Ward had used salt solution through Mr. Nicholson's directions and was sprayed by means of a force pump having 10 to 50 pounds of pressure. This was very efficacious for red spider, but he had discontinued using the solution as it was very sticky and the plants were spraying stiffened up the stem greatly, and the foliage became much darker green in color.

Mr. Nicholson had never seen spot result from the use of the salt solution, which he considered the best safeguard against fungus.

**Afternoon Session, Friday, Feb. 19.**

**Scales of Points for Judging.**

The committee appointed to revise the scale of points for judging seedling recommended that five points be taken from color and three from shape. The new scale became, stem, leaving the scale to read now:

Color ..... 10  
Shape ..... 10  
Stem ..... 10

The committee recommended that only 12 blooms be required in competitions for carnations.

Also that the scale for general competitions now read as follows:

Color ..... 15  
Stem ..... 15  
Shape ..... 15

Thus dropping the points for calyx entirely. It was explained that the points for stem were not really of value, as they are not good, the calyx would not be good.

Mr. Dorner submitted, in view of the fact that the petals are improved by cultivation, while fragrance could not, the points given to these should be reversed.

Mr. Dorner's proposition was, stated that he had considered the scale of points from the standpoint of the seller of the flowers. The committee recommended that only 12 blooms be required in competitions for carnations. Also that the scale for general competitions now read as follows.

Color ..... 15  
Stem ..... 15  
Shape ..... 15

Thus dropping the points for calyx entirely. It was explained that the points for stem were not really of value, as they are not good, the calyx would not be good.

Mr. Dorner submitted, in view of the fact that the petals are improved by cultivation, while fragrance could not, the points given to these should be reversed.

Mr. Dorner's proposition was, stated that he had considered the scale of points from the standpoint of the seller of the flowers. The committee recommended that only 12 blooms be required in competitions for carnations.

Also that the scale for general competitions now read as follows.

Color ..... 15  
Stem ..... 15  
Shape ..... 15

Thus dropping the points for calyx entirely. It was explained that the points for stem were not really of value, as they are not good, the calyx would not be good.

Mr. Dorner submitted, in view of the fact that the petals are improved by cultivation, while fragrance could not, the points given to these should be reversed.

Mr. Dorner's proposition was, stated that he had considered the scale of points from the standpoint of the seller of the flowers.

straggling growers like Daybreak. If one row of string was not sufficient for all the plants, a second row should be put on inches above the first. By this means he could get an strong stem and a big flower.

William Nicholson also recommended the Dorner system; he had seen a scarlet carnation in England. He had seen a scarlet carnation in England.

Mr. Ward had used salt solution through Mr. Nicholson's directions and was sprayed by means of a force pump having 10 to 50 pounds of pressure. This was very efficacious for red spider, but he had discontinued using the solution as it was very sticky and the plants were spraying stiffened up the stem greatly, and the foliage became much darker green in color.

Mr. Nicholson had never seen spot result from the use of the salt solution, which he considered the best safeguard against fungus.

**Afternoon Session, Friday, Feb. 19.**

**Scales of Points for Judging.**

The committee appointed to revise the scale of points for judging seedling recommended that five points be taken from color and three from shape. The new scale became, stem, leaving the scale to read now:

Color ..... 10  
Shape ..... 10  
Stem ..... 10

The committee recommended that only 12 blooms be required in competitions for carnations.

Also that the scale for general competitions now read as follows:

Color ..... 15  
Stem ..... 15  
Shape ..... 15

Thus dropping the points for calyx entirely. It was explained that the points for stem were not really of value, as they are not good, the calyx would not be good.

Mr. Dorner submitted, in view of the fact that the petals are improved by cultivation, while fragrance could not, the points given to these should be reversed.

Mr. Dorner's proposition was, stated that he had considered the scale of points from the standpoint of the seller of the flowers. The committee recommended that only 12 blooms be required in competitions for carnations.

Also that the scale for general competitions now read as follows.

Color ..... 15  
Stem ..... 15  
Shape ..... 15

Thus dropping the points for calyx entirely. It was explained that the points for stem were not really of value, as they are not good, the calyx would not be good.

Mr. Dorner submitted, in view of the fact that the petals are improved by cultivation, while fragrance could not, the points given to these should be reversed.

Mr. Dorner's proposition was, stated that he had considered the scale of points from the standpoint of the seller of the flowers.

Also that the scale for general competitions now read as follows.

Color ..... 15  
Stem ..... 15  
Shape ..... 15

Thus dropping the points for calyx entirely. It was explained that the points for stem were not really of value, as they are not good, the calyx would not be good.

Mr. Dorner submitted, in view of the fact that the petals are improved by cultivation, while fragrance could not, the points given to these should be reversed.

Mr. Dorner's proposition was, stated that he had considered the scale of points from the standpoint of the seller of the flowers.

scarlet, were also well packed, and Armadillo was very fine. I think there is also a place for Yellow Jacket.

John N. May's exhibit arrived in a glass case. It was a very fine collection, of course, did not have a show.

In C. W. Ward's collection were noted Scarlet, White and Pink Grand. Mrs. James Dean. These flowers arrived in splendid shape and held their faces well on the public all during the exhibition.

J. Bretmeier & Son of Detroit made a glass case for the exhibition.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

Mr. Hill stated he had found that deep planting increased this trouble.

generously donated flowers upon this occasion to help us out.

In conclusion I will say that all who missed this the first annual Convention of the Carnation Society missed the greatest opportunity ever presented to the growers of America and especially to the flowerer.

E. G. GILLET.

### Rare and Novel Varieties

**Mad. McNurney (Hill & Co.),** a very pale pink, showed up in good size and form.

**Flora Hill (Hill & Co.),** as displayed, this proved to be nearly what might be called monstrous in size. Stood up fine and looked all right in every way. It bids fair to be a prominent fancy variety in white, being quite double and a fine shaped flower; without question a good keeper.

**Jubilee (Hill & Co.),** showed up fine in every respect, and easily carried over established honors as a fine large red. It seems to be grown this year entirely free from rust.

**Armadindy** held up its head in fine style, and apparently will be a favorite in its class. Keeping qualities fair.

**White Ruby (Hill & Co.),** of style similar to Armadindy, is a fine white, with carmine-edged petals, but decidedly improved in character of firm, fine stem. It is very handsome and shows durable keeping qualities.

**Painted Lady (Hill & Co.),** kept quite well a large flower, slightly darker than Tidal Wave in color. Style of flower similar to Jubilee.

**President Sunderbruch,** shown by Witter-maetter, is light red, of good shape and form, that has every appearance of becoming a standard.

**Emma Woehner's** Emma Woehner variety showed up in most excellent style in all respects and is one of these bright, clean-looking flowers that takes the eye and one's fancy, and a color decidedly attractive. Unless signs change, this will become a standard in its color, which is a light pink with a tinge of blue.

**President-elect Budd of Chicago** showed the results of commendable efforts in the character of the Rose Queen displayed, which were really fine, as also were the Della Fox, of which as much may be said.

Of the varieties to which a comparison of large size is applicable, it occurred to us that Mrs. George M. Bradt (Dorner) readily took the lead, being unusually large and strong. A flower of the Keller style of color, but evidently a fine improvement on it in every respect, for a fancy variety.

This concern really covers itself with plenty of examples of their new varieties, among them being:

**"White Cloud,"** a fine large white, which grows in every way and showed good keeping qualities.

**No. 38 (95),** a lemon yellow of a Jubilee type flower, but a rather slender stem, looked quite attractively.

**No. 67 (94),** an unusually fine large white flower, but a rather slender stem, looked quite attractive.

**No. 18 (94),** a large fine built, many-petaled red, with a good stem. Upper portion of rays yellow. Keeping qualities fair.

**Storm Queen,** a fine large full-centered white, with nice, clean Emma Woehner style of stem. The petals of the bloom looked soft, but, nevertheless, it showed good keeping qualities.

**No. 18 (94),** a fine large red that looked attractive and decidedly pleasing in every way.

**C. W. Ward, of the Cottage Gardens,** has

**Glaizer,** a fine white, firm stem, Jubilee style of flower, with fair calyx. Keeping qualities fairly good.

**Chas. A. Dana,** delicate peachy pink, petals somewhat irregular and whorled, fair stem and calyx.

**Daybreak,** a fine large pink, light soft pink shade, full centered petals, numerous and somewhat irregular, almost whorled, good stem and calyx.

**No. 18 (96),** a very full large white, with good stem and calyx.

**C. S. Swayne's Sweetheart,** a flower after the Keller style, full, numerous petalled, quite nice. Truly it is a fine flower, a light soft pink shade, fringed, glaucous foliage, with good stem. Flowers set in fair calyx.

**The new sport from Daybreak** called after the Jubilee style, but of darker shade. A fine looking flower.

**Edith Foster,** an enlarged type of flower after Emma Woehner style, but lighter in color, with a firmer, heavy stem, and wide, very dome whether there is a florist, in the Central West at least, who was not on familiar terms with our dear friend, Harry Sunderbruch, for we could all approach him, and all felt the touch of his kindly spirit.

We have met, pursuant to our plans and purposes, on this, the anniversary of our carnation festival, in order to carry out and discuss the plans which have been arranged by our officers. We are indebted in great measure at least for the two days of our meeting to the untiring energy and spent to the wise forethought and enthusiastic earnestness of our lamented president, Mr. Wittermaetter, in making arrangements to the task of properly responding to the toast proposed, not from unwillingness to do so, but from a desire to be able to do so properly and fittingly, true the name and character of Mr. Sunderbruch. A wave of grief has swept over us, and a great cloud has rested over us, as we have missed the presence and many form of our dear friend, and we are all gathered here at this meeting; yet, in the midst of the activities of life we verily live in death. So we have met to do as was planned and intended for our comfort and entertainment.

**Jack Frost (Edw. Swayne)** is a large, white and almost almost after the style of a hollyhock. It is rather flat faced, with the petals fringed. A three-petaled flower, with a fine stem and a good looking flower, but small in size for an exhibition bloom.

**Harnon & Burr, of Savans, N. Y.,** showed a white seedling, which gives some promise of being a fine flower, but small in size for a commercial flower, but small in size for an exhibition bloom.

**Major Pingree** looks fine and all right, and destined to occupy a place among yellow.

**Edith Foster** and the red Morello (Hoppe & Lerneke) arrived too late for judging. It showed up to the satisfaction of many of our friends, but the stem was rather heavy for so large and heavy a bloom a heavier and stronger stem may be desirable.

### The Banquet.

One hundred and twenty-three sat down to the banquet provided by the Cincinnati Flower Society, and the occasion was a most worthy one. It was strictly temperance, and on that account contrasted favorably with others that have gone before. There was as much real fun, perhaps more than we have witnessed on similar occasions, with no after results to be regretted. The happy dinner and the most enjoyable social gathering can be provided without the costly concomitants which are erroneously considered indispensable to create good fellowship or to make such things a "go." Cincinnati has set an example which other cities would well do to follow in the future; it remained, in this manner, for the society the prestige that it lost through newspaper accounts, exaggerated no doubt, of hangings in connection with its previous meeting, and of this we are heartily glad.

**President E. G. Gillet** acted as chairman and Mr. G. W. Ward, of the Cottage Gardens Company proved a very acceptable toastmaster, his ready wit and masterful handling of the toasts bringing him many congratulations. **Mr. G. W. Ward** was the first to speak. He said: "The time we have all been looking forward to—the time for merry-making and the enjoyment of each other's happiness will not be unloved. There will be a current of sadness in our hearts as we look back to the time when we were still. One of our choicest flowers is not here. There is a vacant chair to-night. There is a vacant place in the ranks of the American Carnation Society and prominent in everything of interest to the American florists, it is but fitting that we

should first remember him—Harry L. Sunderbruch. The one whom I will call upon to respond needs no introduction. You all know him as well as I—him—Mr. E. G. Hill of Richmond, Ind."

**Mr. Hill** was received with great applause by a voice tremulous with emotion he said:

In January I was traveling one of the great thoroughfares of the world, New York when I was accosted very unexpectedly by a gentleman in our business. He called me by name and said: "I know your face." "Do you know the sad news that has just reached New York?" "And I looked up at him and said: 'No, I do not know you.' He could not speak. Then he said: 'Harry Sunderbruch is dead.' My heart sank within me and I said: 'I do not know you.' And I do not know every florist in this broad land felt as I did, for Harry was known far and wide, very dome whether there is a florist, in the Central West at least, who was not on familiar terms with our dear friend, Harry Sunderbruch, for we could all approach him, and all felt the touch of his kindly spirit.

We have met, pursuant to our plans and purposes, on this, the anniversary of our carnation festival, in order to carry out and discuss the plans which have been arranged by our officers. We are indebted in great measure at least for the two days of our meeting to the untiring energy and spent to the wise forethought and enthusiastic earnestness of our lamented president, Mr. Wittermaetter, in making arrangements to the task of properly responding to the toast proposed, not from unwillingness to do so, but from a desire to be able to do so properly and fittingly, true the name and character of Mr. Sunderbruch. A wave of grief has swept over us, and a great cloud has rested over us, as we have missed the presence and many form of our dear friend, and we are all gathered here at this meeting; yet, in the midst of the activities of life we verily live in death. So we have met to do as was planned and intended for our comfort and entertainment.

**Ben George** recited "Buttery Dick," a pathetic, strange and wonderful, full my mind to-night as I ponder over the untimely death. Though profound in their grief, they all had expressions of sympathy and questions deep and mighty regarding the possibilities of existence, hereafter, the coming of a new world, and other questions pertaining to life, thoughts which have compassed the minds of thinking men of all ages and of all nations.

**Mr. Wittermaetter** responded to the toast, "Seedlings," and pointed out what a great factor they were in maintaining established standards.

**Ben George** recited "Buttery Dick," which was well received.

**Mr. Wittermaetter** responded to the toast, "The Future of the S. A. F." He traced the society's past history in a most interesting and instructive manner, and handed over by one city to another. It was now the parent of at least three societies, and he said that the future of the society these have begun to develop a great deal of the American nature, viz: to jump upon the high ground, to protect against anything doing this. Each and every one should consider it a duty to support and encourage the work of the S. A. F.

**W. Weber of Oakland, Md.,** replied to the toast, "The Probability of a Golden Yellow." He said that he had seen a golden yellow in his store for the persevering hybridist.

**Mr. Wittermaetter** spoke a few words, stating the pleasure the meeting and entertainment afforded him, and commending the president of the society for the fact that which the society had asked him to accept.

**Mr. Wittermaetter** then spoke a few words, stating that he thought in view of the amount of work done by the society, and the many things it has done, it was well that the vice-president should be resident near to the seat of action.

**Mr. Wittermaetter** then spoke a few words, stating that he thought in view of the amount of work done by the society, and the many things it has done, it was well that the vice-president should be resident near to the seat of action.

**Mr. Wittermaetter** then spoke a few words, stating that he thought in view of the amount of work done by the society, and the many things it has done, it was well that the vice-president should be resident near to the seat of action.

**Mr. Wittermaetter** then spoke a few words, stating that he thought in view of the amount of work done by the society, and the many things it has done, it was well that the vice-president should be resident near to the seat of action.

**Mr. Wittermaetter** then spoke a few words, stating that he thought in view of the amount of work done by the society, and the many things it has done, it was well that the vice-president should be resident near to the seat of action.

**Mr. Wittermaetter** then spoke a few words, stating that he thought in view of the amount of work done by the society, and the many things it has done, it was well that the vice-president should be resident near to the seat of action.

He joyfully stated that the New York Club enjoyed certain privileges from law makers and law officers, that when certain laws were passed, the club was in a close place of their having, they got pulled.

**Mr. Wittermaetter** then spoke a few words, stating that he thought in view of the amount of work done by the society, and the many things it has done, it was well that the vice-president should be resident near to the seat of action.

**Mr. Wittermaetter** then spoke a few words, stating that he thought in view of the amount of work done by the society, and the many things it has done, it was well that the vice-president should be resident near to the seat of action.

**Mr. Wittermaetter** then spoke a few words, stating that he thought in view of the amount of work done by the society, and the many things it has done, it was well that the vice-president should be resident near to the seat of action.

**Mr. Wittermaetter** then spoke a few words, stating that he thought in view of the amount of work done by the society, and the many things it has done, it was well that the vice-president should be resident near to the seat of action.

**Mr. Wittermaetter** then spoke a few words, stating that he thought in view of the amount of work done by the society, and the many things it has done, it was well that the vice-president should be resident near to the seat of action.

**Mr. Wittermaetter** then spoke a few words, stating that he thought in view of the amount of work done by the society, and the many things it has done, it was well that the vice-president should be resident near to the seat of action.

**Mr. Wittermaetter** then spoke a few words, stating that he thought in view of the amount of work done by the society, and the many things it has done, it was well that the vice-president should be resident near to the seat of action.

**Mr. Wittermaetter** then spoke a few words, stating that he thought in view of the amount of work done by the society, and the many things it has done, it was well that the vice-president should be resident near to the seat of action.

**Mr. Wittermaetter** then spoke a few words, stating that he thought in view of the amount of work done by the society, and the many things it has done, it was well that the vice-president should be resident near to the seat of action.

**Mr. Wittermaetter** then spoke a few words, stating that he thought in view of the amount of work done by the society, and the many things it has done, it was well that the vice-president should be resident near to the seat of action.

**Mr. Wittermaetter** then spoke a few words, stating that he thought in view of the amount of work done by the society, and the many things it has done, it was well that the vice-president should be resident near to the seat of action.

**Mr. Wittermaetter** then spoke a few words, stating that he thought in view of the amount of work done by the society, and the many things it has done, it was well that the vice-president should be resident near to the seat of action.

**Mr. Wittermaetter** then spoke a few words, stating that he thought in view of the amount of work done by the society, and the many things it has done, it was well that the vice-president should be resident near to the seat of action.

**Mr. Wittermaetter** then spoke a few words, stating that he thought in view of the amount of work done by the society, and the many things it has done, it was well that the vice-president should be resident near to the seat of action.

**Mr. Wittermaetter** then spoke a few words, stating that he thought in view of the amount of work done by the society, and the many things it has done, it was well that the vice-president should be resident near to the seat of action.

**Mr. Wittermaetter** then spoke a few words, stating that he thought in view of the amount of work done by the society, and the many things it has done, it was well that the vice-president should be resident near to the seat of action.

**Mr. Wittermaetter** then spoke a few words, stating that he thought in view of the amount of work done by the society, and the many things it has done, it was well that the vice-president should be resident near to the seat of action.

**Mr. Wittermaetter** then spoke a few words, stating that he thought in view of the amount of work done by the society, and the many things it has done, it was well that the vice-president should be resident near to the seat of action.

**Mr. Wittermaetter** then spoke a few words, stating that he thought in view of the amount of work done by the society, and the many things it has done, it was well that the vice-president should be resident near to the seat of action.

**Mr. Wittermaetter** then spoke a few words, stating that he thought in view of the amount of work done by the society, and the many things it has done, it was well that the vice-president should be resident near to the seat of action.

**Mr. Wittermaetter** then spoke a few words, stating that he thought in view of the amount of work done by the society, and the many things it has done, it was well that the vice-president should be resident near to the seat of action.

# SEEDLING CARNATIONS for 1897.

**CAPT. KING.** Variegated White and Pink, an early and continuous bloomer, very fragrant and a good shipper, stems extra long and stiff, an exceedingly attractive and profitable variety.  
**JOSEPH JEFFERSON.** Deep Pink, very large and showy flowers, on long, stiff stems, color resembling "The Centinel," buds larger than "The Centinel."  
 Send for Wholesale List of New and Standard Carnations. Stock Strong and Ready. **NO RUST.**  
**C. J. PENNOCK, The Pines, KENNETT SQUARE, PA.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# NEW WHITE "ONTARIO" CARNATION.

A money maker; prolific in bloom; good grower, and free from disease.  
**\$8.00 per 100; \$50.00 per 1000.**

# New Rose WHITE BOUGERE,

a sport from the old variety "Bougere," a prolific bloomer, good grower and clear white in color. Just the thing where a florist needs a good supply of white roses.  
**Per dozen, \$3.00; per 100, \$12.00; per 1000, \$100.**

**JOHN H. DUNLOP, - - Toronto, Canada.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## REMEMBER

THE proper time comes

**McKINLEY** will meet his chums

**AFTER** the snow goes away

# SIEBERT'S CARNATIONS will grow gay.

A Good Brand-new Sets at Regular Price.

Flora Hill, white.	Per 100	Morello, scarlet.	Per 100
Mrs. McBurney, pink.	\$11.00	Mayor Pingree, yellow.	\$10.00
Mrs. Chas. DeLime, pink.	12.00	Harrison's White	10.00
Mrs. Geo. Brand, variegated.	9.00	Liberty, scarlet.	10.00
Della Fox, pink.	5.00	Triumph, pink.	5.00

**CHAS. T. SIEBERT, Stanton Avenue, PITTSBURG, PA.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# New Yellow Carnation MAYOR PINGREE.

Without doubt the best YELLOW CARNATION in commerce to-day. Orders booked and filled in rotation. Delivery March 1st, 1897.  
**\$1.50 per doz.; \$10.00 per 100; \$75.00 per 1000.**

## AWARDS.

DECEMBER 14, 1895, Certificate at Cincinnati Meeting.  
 DECEMBER 21, 1896, Certificate at New York American Carnation Society Meeting. Only two varieties received Certificates at the meeting—Mayor Pingree being one of them.

## NOVEMBER EXHIBITIONS, 1896.

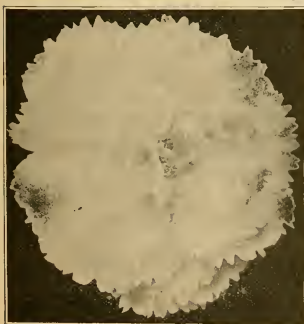
**CRAIG SILVER CUP,** Philadelphia, Pa. CERTIFICATE, Louisville, Ky.  
**COMPLEMENTARY NOTICE** Boston, Mass. CERTIFICATE, Milwaukee, W. Y.  
**HONORABLE MENTION** St. Louis, Mo. CERTIFICATE, Poughkeepsie, N. Y.  
**CERTIFICATE** Indianapolis, Ind. CERTIFICATE, Worcester, Mass.  
**CERTIFICATE** Chicago, Ill. CERTIFICATE, Toronto, Ont.

Young plants, **KATE WASHINGTON** and **IVOIRE ROSE** "MUMS," \$1.00 per dozen; \$6.00 per 100.  
**March Delivery.**

# JOHN BREITMEYER & SONS,

Miami and Great Aves.,  
**DETROIT, MICH.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE



# Harrison's White.

NEW CARNATION.  
 SPORT FROM WM. SCOTT.

40,000 SOLD UP-TO-DATE.  
 All leading Carnationists are purchasers.  
 Strong, vigorous grower, requiring no support.

Described and Illustrated in *Florists' Exchange*, Nov. 27, page 1046.

COME AND SEE IT.  
 Price: \$10.00 per 100,  
 \$40.00 per 500, \$70.00 per 1000  
 Cash or satisfactory reference.  
 All orders filled in rotation.

**JOHN HARRISON,**  
 739 Bergen Ave., Near Edgewood Ave., Jersey City, N. J.

Take Bayonne or Greenville Pk. Ferry from Pennsylvania St. R. R. Ferry at end of Edgewood Ave.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

...THE JUDGES' DECISION OF...

# MISS EMMA WOCHER CARNATION

At the A. C. S. Show was that it was the best case of light pink at the Exhibition, WINNING BY "11 POINTS," SCORING "94 POINTS," out of a possible 100. The popularity of this variety assured. Price for strong, well-rooted cuttings, per 100, \$5.00; per 1000, \$40.00. Terms Cash, or satisfactory reference must accompany all orders.

Address **R. WITTEKSTÄTTER, Sedamsville, O.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# THE CARNATION NOVELTIES, MAYOR PINGREE AND MORELLO

Other new sorts, also noted introductions, and well-known standards.  
 Our Fine New Illustrated Catalogue Now Ready. **FREE.**

# DAN'L B. LONG,

Jobbing Florist and Growers' Agent, **BUFFALO, N. Y.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# THE BEST COMMERCIAL WHITE CARNATION ON THE MARKET.

# NIVEA

Trade Mark.

# CLEAN AND HEALTHY.

The originator, Mr. H. A. Cook, Shrewsbury, Mass., has a large stock of Nivea, and it has never been overpropagated.

Nivea has received First Class Certificate of Merit from the Massachusetts Horticultural Society.

It has all the necessary qualifications of a standard commercial white carnation:

**SELLS WELL. KEEPS WELL. SHIPS WELL.**

The undersigned have handled the entire output of cut blooms of Nivea, and they have sold readily at an advance over other white carnations in the Boston market.

Rooted Cuttings Ready for Delivery March 1st.  
**Per 100, \$10. Per 500, \$35. Per 1000, \$60.**

# WELCH BROS. Sole Agents,

City Hall Flower Market, **BOSTON, MASS.**  
 No. 15 Province Street.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# Famous Carnation Della Fox

Should be grown by everybody. The past season must have taught all growers that the high-grade Carnations are the only ones that were profitable, and **Della Fox** stands above them all for size, color and aroma. Rooted cuttings now ready. **MYERS & SANTMAN, Wyandom, Chestnut Hill, Phila.**

against its appearance. The rest we will have to leave to Nature. We cannot control the weather. If we do this much, however, we can be reasonably sure of but little trouble from stem rot.

The above is my opinion of cutting bench fungus and stem rot at the present time. I feel sure that I am in the main correct, but as we are never done learning, I may, perhaps, through further observation and study have reason to change my mind on this subject. H. WEBER.

**Carnation Dominion.**

The new white carnation, Dominion, which Dunlop, Toronto, is sending out this year, was raised by him five years ago. He has grown it steadily ever since and it has proved to be the most prolific variety he has had during all that time. I have seen it growing at his place several times every season and can confidently recommend it to my brother florists who are looking for a prolific white carnation that has been thoroughly tested, and which is free from disease. The calyx does not burst. The variety is a continuous bloomer all the season. The grass is something after the style of McGowan, but the plant is much more vigorous than that fine variety here, and was proved to be easy of propagation. The flowers are large and the plants are easily handled. I saw the house run after the potting in November, and I think it was even better than that the picture shows. I visited the house again in the spring and it was still apparently in the same good and as clean and free from disease as ever.

At the last meeting of the Toronto Gardeners' and Florists' Association the committee that was sent out by that body to Mr. Dunlop's reported that they considered his first-class variety and awarded it the society's certificate of merit. I may say that the committee made a very careful examination, and the stock was decided to give no certificates except to meritorious subjects. THOS. MANTON.

Bench of John H. Dunlop's New White Carnation Dominion.—Single bloom at right corner.

**Cutting Bench Fungus**

Now that propagating is at its height, a few words concerning what the average propagator regards as the most dangerous and destructive agent we have to deal with, will not be out of place. I mean, you will almost everybody else, have had my share of experience with this wholesale destroying disease, known generally as cutting bench fungus.

I have long since realized the fact that there is but one way to cure or eradicate any disease peculiar to the carnation, or to any disease the plant, life, and that is to first ascertain the source or conditions which cause its appearance, and for the cure, to reverse these conditions as far as possible. This rule will hold good for every disease to which the carnation is subject.

That this particular one is a fungus we all know; and, like many other forms of fungus, it revels in a close, moisture-laden atmosphere. Heat also aids very largely its formation and destructiveness. Proper ventilation is certain death to cutting bench fungus, and whenever the disease is present this most important life-giving principle (fresh air) has been withheld. The idea that carnation cuttings when first put in the sand are not able to stand any considerable amount of fresh air, is not worthy of serious consideration. True, they will resent cold or heavy draughts, but this is not what they want. Sufficient ventilation can be given at all times to keep the atmosphere dry, invigorating and sweet without jeopardizing their chances of rooting nicely; in fact, where these conditions are maintained, the result will be larger, finer and healthier roots and cuttings than can be produced by any other known method.

Various reasons have been assigned for the appearance of cutting bench fungus, among which are decayed benches, poor drainage, excessive heat, the continued use of the same sand, etc. All of which, with the exception of the latter, are responsible to a certain extent for bringing on this disease, excessive heat, more so than the others. Bottom heat, too, is responsible for its share of mischief, and should never be resorted to except for such varieties as prove difficult to root without it. Bottom heat does not include a high temperature overhead. Such varieties as need bottom heat must be kept just as cool overhead as they can be to succeed in it.

The temperature of the propagating house has been given in these columns often before, but it will doubtless bear repeating:

Nights, 50 to 55 degrees; day, 55 to 60 degrees. The weather must be so far off in maintaining it. These figures cannot always be adhered to, but will serve as a guide.

Of all the reasons advanced as assisting in the formation of cutting bench fungus, I regard that of the continued use of the same sand as the least worthy of consideration. Our sand lasts us for a whole season, and the last cuttings rooted are no more affected with fungus than the first ones. We would regard the frequent changing of sand as so much unnecessary labor. If the ventilation is properly looked after, there will not be one iota of trouble arising from this source.

Mr. Ward in giving his opinion on stem rot at the meeting of the American Carnation Society in Cincinnati, stated that under the microscope plants affected with stem rot showed traces of cutting bench fungus. If this is true and it seems very reasonable, stem rot and cutting bench fungus are identical to a certain extent. This sustains me in my claim that close and deep planting, excessive moisture and a lack of fresh air are the main factors in developing stem rot. These factors need not be all present at one time to induce stem rot. This is in line with Mr. Ward's idea that it is often generated in cold frames where young stock is being held. There are often many days in succession when no ventilation can be given, the sash may be covered with snow thus shutting out the light, in addition to this they are apt to be neglected, causing extremes in temperature and thus stunting the plants, causing, as Mr. Ward says, a hard, woody stem so common in cabbage and cauliflower plants that have been wintered over in cold frames, which is practically one and the same disease. This would seem to explain in part why some plants develop stem rot in the field, when to all appearances none of the conditions exist which are supposed to bring it on. The cold frame, however, is not the only place where young plants are liable to contract stem rot. Similar results can be brought about in any greenhouse, such as over watering, poor ventilation, putting the plants in dark out-of-the-way corners, under benches, etc.

Thus it appears that all of the practices which tend to induce cutting bench fungus and stem rot in direct contrast to the conditions we must maintain if we are to be free from either.

To banish cutting bench fungus is very simple. Good ventilation and a proper repair for congenial temperature will ac-

complish this without difficulty. Stem rot is more complex in its nature, and therefore more difficult to manage.

If proper care is exercised in selecting the cuttings, seeing so it that none are taken from plants already affected, the correct steps will have been taken to guard against it. The next is to root them in a cool, well ventilated house; from there, they must go to a light, cool house. Either box pot or plant on benches in soil fertile enough to induce a good growth keep firm and healthy by plenty of ventilation. If cuttings are not treated, I am satisfied that stem rot will not make its appearance during this time.

When this disease originates in the field, several causes may assist, either collectively or independently, to generate it. Of these, deep planting and poor drainage are the principals; either alone will suffice to bring it on, and, are, or are not, as the case may be, largely assisted by continued wet weather and a heavy murky or humid atmosphere. Stem rot, like all other diseases, is the result of irregularities; we can, if we will, control all these same one. Those which we can control, I might say, are selection of cuttings, watering, ventilation, quarters for the young plants, well drained land and planting in the field; where these have been looked after properly, we will, I believe, have done all in our power to guard against it.

**THE COTTAGE GARDENS, Queens, L. I.**  
SPECIALISTS IN  
**Carnations, Cannas, Chrysanthemums, Geraniums and Dahlias.** SEND FOR OUR PRICE LIST.

**ASPECIAL BARGAIN**  
Two Dollars Worth for One or Your Money Back. GUARANTEED CLEAN, HEALTHY STOCK, WELL-ROOTED, NO RUST.

**CARNATIONS, COLEUS, ALYSSUM, VIOLETS** (Swanley White and Campbell).

**CARNATIONS**. Eldorado, the best and most profitable white in date. *Buttercup, Scotch Rattle, Glover, Cardinal, Queen of Hearts, Portland, Grace Wilder, Louis J. Haeftel, Sweetheart, Wm. F. Decker, Strong King, Louise, McGowan, Robinson, Purple King, Clio, Hiawatha, Wm. S. Donnell, Florida, U.S.A., Alaska, Rose Queen, Bridgman, Swering, Globe, Gimp, Firebird, Queen of Hearts, Orange Blossom.* Also Captain King and Joseph Jefferson, introduced by C. J. Pennock.

to write for price list, send money order or money.  
**E. J. CROUCH, Lock Box 32, Avondale, Pa.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

**CARNATIONS ...DELLA FOX AND... ANNIE H. LONSDALE.**  
Are being advertised a few miles south of us by parties who are not the originators of the original stock. We would therefore advise all buyers to get their stock from reliable parties or from us, the originators.

**MYERS & SAMPSON, PHILA**  
**WYNDOMER, CHESTNUT HILL,** PHILA  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

The New Scarlet Carnation  
**MORFO**  
will be disseminated March 1, 1897. Get your orders in now. \$1.00 per doz., \$10.00 per 100, \$75.00 per 1000.

**HOPP & LENKE,** East Grand Rapids, Mich.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

IT'S A GOOD THING  
**MINNIE COOK**  
Get your stock now at home, where you know you are getting selected stock.

**FRANK B. WELLS,** Philadelphia, Pa. 1000.  
Meadow View Greenhouses, PARADEPOT, N. J.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

TO EXCHANGE.

ROOED CUTTINGS. Scott and McGowan, Carnations, Wannerker, Bonadon...

CARNATIONS

ROOED CUTTINGS of the leading varieties, clean, healthy stock. Positively no rust. Send for price list.

WM. SWAYNE, Kennell Square, Pa. P. O. Box 236.

ELDORADO

The finest Yellow Carnation in cultivation. Rooted cuttings, \$5.00 per 100; \$1.00 per 500.

W. R. SHELMIER, Avondale, Pa. WHEN WRITING MENTION THE FLORIST'S EXCHANGE

BALTMORE

A New Pink Carnation, Color of Oriole. Rooted cuttings, \$5.00 per 100; \$1.00 per 500.

CONRAD HESS, 329 Friendship Ave., BALTIMORE, Md. WHEN WRITING MENTION THE FLORIST'S EXCHANGE

Carnations, Etc.

HIGH GRADE ROOTED CUTTINGS. See our Price List, Florists' Exchange, Jan. 20.

H. WEBER & SONS, P. O. Box 57, OAKLAND, Md. WHEN WRITING MENTION THE FLORIST'S EXCHANGE

Carnation Cuttings

Strong and well rooted, of the following varieties: Jubilee, Trumpet, Armasindy, Alaska, etc.

PRIMULAS, 25¢ each, \$2.00 per 100. Send for list and prices on large lots.

Logan Ave. Greenhouses, - Danville, Ill. WHEN WRITING MENTION THE FLORIST'S EXCHANGE

CARNATIONS

YOU RUN NO RISK. If the cuttings are not satisfactory you return them at my expense.

Albert M. Weir, L. B. 496, Lancaster, Pa. WHEN WRITING MENTION THE FLORIST'S EXCHANGE

CARNATIONS

Well Rooted Healthy Cuttings of SCOTT, MCGOWAN AND PORTIA, \$1.00 per 100; \$2.00 per 500.

Best plants I ever saw of the kind (from McGowan), I was never misled. PITTSBURGH, Mass., Jan. 27, '97.

CHAR. BLACK, HIGHTSTOWN, N. J. WHEN WRITING MENTION THE FLORIST'S EXCHANGE

CARNATION AND COLEUS CUTTINGS.

Strong, well-rooted cuttings of the following varieties: from root, Scott, Portia and McGowan...

CARNATIONS

Healthy, strong and well rooted, the following varieties: Anna Webb, Helen Keller, Daybreak, etc.

JOHN WACKETT & CO., 672 near Elmwood Ave. PHILA

LILY DEAN AND

THE TWO MOST BEAUTIFUL CARNATIONS EVER INTRODUCED.

These are indispensable to all growers who want the best flowers.

JOHN N. MAY, Summit, N. J. WHEN WRITING MENTION THE FLORIST'S EXCHANGE

LOOK HERE.

COME AND SEE THEM FOR YOURSELF. \$2.00 per doz.; \$10.00 per 100; \$75.00 per 1000.

JOHN N. MAY, Summit, N. J. WHEN WRITING MENTION THE FLORIST'S EXCHANGE

Carnation Cuttings

From healthy and well-grown stock. Witham Scott, L. McGowan, Portia, \$1.25 per 100.

JAMES E. BEACH, Successor to J. H. Beach & Son, 617 Park Ave., Bridgeport, Conn.

ABARGAN.

We have the following Rooted Cuttings Carnations from flats, strong, healthy and no rust:

- 1500 Lizzie McGowan, \$1.00 per 100
1500 Anna Webb, 1.00
2000 Portia, 1.00
600 Robin Hood, new scarlet, 1.00
500 Florida, 1.00
500 Joseph, 1.00
300 Armasindy, 1.00
300 Abundance, 1.00
300 Florida, 1.00
300 Bridemaid, 1.00

MORRIS FLORAL CO., MORRIS, ILL. WHEN WRITING MENTION THE FLORIST'S EXCHANGE

THE NEW Administration

Will soon begin. Why not have a new order of things in your greenhouse also. Throw out the plants that have not done you for their keeping...

MORRIS FLORAL CO., MORRIS, ILL. WHEN WRITING MENTION THE FLORIST'S EXCHANGE

CARNATIONS

Morello, the new scarlet. \$10.00 per 100. Flora Hill, white, large and free. 12.00 per 100.

W. M. SCOTT, 1100 N. 1st St., Philadelphia, Pa. WHEN WRITING MENTION THE FLORIST'S EXCHANGE

CARNATIONS ROOTED CUTTINGS

Buttercup, \$2.00 per 100. Daybreak, \$1.00 per 100. Helen Keller, 2.50. Tidal Wave, 1.50.

CARNATIONS

ROOED CUTTINGS. Mrs. Chas. Duane (Dorner '92), Mrs. Geo. M. Bradt (Dorner '92).

EDW. J. TAYLOR, Wholesale Carnation Grower, Cash or Reference. SOFT FLIP CUTTINGS.

CARNATIONS

All the leading new varieties; good clean, well rooted stock. Mrs. Chas. H. Dulme, delicate pink.

CARNATIONS

Wm. Scott, 1.00 per 100. Lizzie McGowan, 1.00 per 100. Daybreak & Storm King, 1.50 per 100.

CARNATIONS

EDW. J. TAYLOR, Wholesale Carnation Grower, Cash or Reference. SOFT FLIP CUTTINGS.

CARNATIONS

All the leading new varieties; good clean, well rooted stock. Mrs. Chas. H. Dulme, delicate pink.

CARNATIONS

F. DORNER & SONS CO., La Fayette, Ind. WHEN WRITING MENTION THE FLORIST'S EXCHANGE

Kitty Clover, Eulalie.

Three yellow varieties that fill the bill. We have a fine stock of these

SILVER OR GOLD.

Rooted Cuttings, \$2.00 per 100; \$15.00 per 1000. From Soil, - \$3.00 per 100; \$25.00 per 1000.

GRALLERT & CO.

COLMA, SAN MATEO CO., CAL. NO RUST. WHEN WRITING MENTION THE FLORIST'S EXCHANGE

CARNATIONS

Daybreak, Scott, Tidal Wave, S. Sprays, Lizzie McGowan, Portia, \$1.00 per 100.

NEW Seedling Carnation

FREEMAN COLEY. A large white carnation, pencilled with carmine. It measures three inches and covers some half of growth as the Lizzie McGowan.

JOHN MCGOWAN, - Orange, J. WHEN WRITING MENTION THE FLORIST'S EXCHANGE

FIFTY THOUSAND

Rooted cuttings of the new Seedling Carnation, originated by Mr. H. A. Cook of Shrewsbury, Mass., grown by the subscriber, and now being put upon the market as...

...E.A...

Daybreak, Scott, Storm King, Puritan, Meteor, Goldfinch, Hector, Albertini, and others, \$1.25 per 100; \$10.00 per 1000.

A. W. HOYLE, Spencer, Mass.

And 81 Willington St., Sta. O., DORCHESTER, MASS. WHEN WRITING MENTION THE FLORIST'S EXCHANGE

Three New Carnations

Flake's had hybridized. Have made this a study for some time. I have secured thousands of seedlings in this line and have selected the best of the following points. Healthy, vigor, fresh, early and continuous flowering, large amount of substance, strong outline, good stems.

AMAZON

The most profitable white and pink. Seedling of Tidal Wave & Delta. A seedling of Tidal Wave very large, strong outline, stiff and long stems.

BAVETY

Flowers large, strong outline, stiff stems. In early stages of flowering, the flowers are very large. In addition, the flowers are very large, strong outline, stiff and long stems.

SAGINAW

Seedling of Illinois White x Tidal Wave. Flowers white, beautiful pencilled with bright rose. Makes a beautiful and long appearing variety.

ALBERT HAKE, Mgr., MANCHESTER, PA. WHEN WRITING MENTION THE FLORIST'S EXCHANGE

Storm Queen.

John Burton's Seedling.

Emma Wocher.

## CORRESPONDENCE.

Insertion will be given in this column to all communications free from animus, but the opinions expressed do not necessarily reflect our own.

## Seedsmen and the Tariff.

Editor Florists' Exchange:

"Protection gives us our market and enables us to pay our labor living wages," declares Charles Black, contributing to the "Tariff on Seeds" discussion in your issue of Feb. 12. Who are the other fellows in the pool with Mr. Black, to whom he refers as "us"? Are they workmen?

That a protective tariff which operates to give an exclusive market to "us" or to any other set of individuals is profitable, and "enables us to pay our labor living wages," there can be no manner of doubt; just as a crib full of corn in a farmer's dooryard "enables" him to feed his neighbor's hogs. But farmers are not feeding their neighbor's hogs, and by that same token gentlemen interested in special tariff legislation are not increasing wages simply because a protective tariff "enables" them to do so.

"We," Mr. Black, or any other combination of interests, never did and never will pay more than the market rate of wages, a rate which is determined by the same law recognized by Mr. Black when, referring to labor products, he says: "Competition will govern prices."

Workmen sell the only thing they have to sell—their labor—for the best possible price they can get, just as Mr. Black sells seeds. But the American workman sells his labor in an absolute free trade market, in open competition with the labor of the whole world. Not so with combinations of capital, who, protected by tariffs, strive to control American markets, and do control them, in limiting the output by clos-

ing mines, mills and factories, which in turn throws thousands of idle workmen into the free market to make more intense the competition among them for the remaining opportunities to labor left open, and down goes wages. Foreign pauper labor jostles and elbows American pauper labor in the bitter fight for "a job," and that workman, be he foreigner or American born, all else being equal, who will sell his labor cheapest gets the "job." Free trade in the sale of labor compels the lowest prices, while protection in commodities enables monopolists to compel the highest price, and thus we have the spectacle of American workmen burning their candle at both ends; paying a high price for what they consume and getting pauper prices for what they sell. The iron law of supply and demand fixes the price of wages, but pampered combinations of capital under a protecting tariff law fixes the price of commodities. By all means let "us" control the American seed market for the benefit of (us) the dear home workman. Pile on the duty, heap up the tax, there is no limit when the fool is in harness and he has no rights "we" are bound to respect.

Come again, brother Black, the subject needs all the airing we can give it.  
H. B. BUDDENBORG.

## Lady Hume Campbell Violet.

I have read with interest the words of your several writers on temperature for violets. Last year we tried Lady Campbell for the first time, M. Louise up to that time having been our standby. We planted a large house, one-half to each variety, using for all the same soil—a rich sandy loam virgin soil with no manure of any kind. The plant started out finely and showed great prospects until it came to the time to use

artificial heat. We gave a night temperature of 40 to 45 degrees. M. Louise bloomed freely and gave good flowers; Campbell stood still, but the plants were literally studded with buds, which would not open, and what few did open were of a pale, sickly color and not salable.

We were disgusted with Campbell and were ready to consign it to the dump. We said all the mean things we could about it and would have sold the whole pack for a "yaller dog," when all at once we noticed that the plants were throwing up buds in great shape, and a couple of days of good sunshine made that bench look covered with popcorn of a royal purple. What was the cause? Well, about that time we had found it necessary to hire a new night fireman, the old one being of a sleepy nature. The new man informed us, when we spoke to him of the improvement in Lady Campbell, that he had been running the house at night with a temperature of 50 to 55 degrees and allowing all the fresh air the weather would allow, leaving the ventilators up more or less all the time. The consequence was M. Louise went back and Lady Campbell came to the front, giving us a far larger cut of flowers than we had ever had from M. Louise, and, we think, a better flower.

This season we are growing Campbell, and we are free to confess we are delighted with it. Two houses have given us a profusion of good flowers, stem and color all that could be desired, and not one particle of disease has shown itself. We use no water on the foliage in dark, cloudy weather, but syring on bright days, leaving on all the air possible when the outside temperature will permit.

We are well pleased with Campbell as a violet for forcing, and we believe it will prove the best variety to all who give it the proper treatment. We trust these few

your readers who have failed with Campbell will give it another trial and follow our method of culture, and we know they will reap good results.

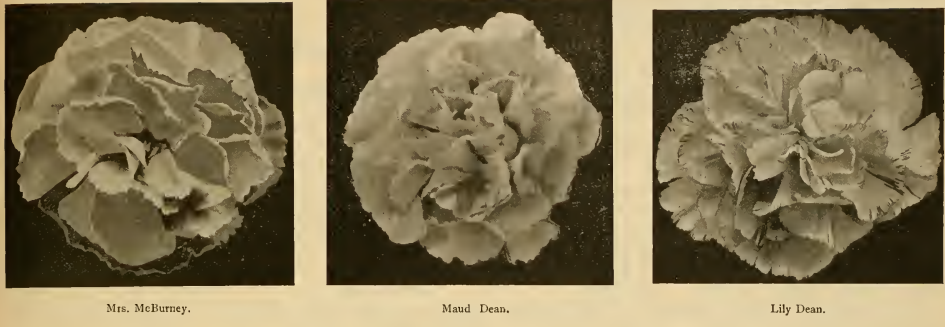
F. W. B., Richmond, Ind.

## Sweet Pea Sensationalism.

For fair play, even more than in self-interest, we wish you would be good enough to allow us to correct a false impression apt to be conveyed through statements made by a seedsman of some prominence to the effect that he "received the only award on sweet peas at the World's Fair." This is downright humbug and misrepresentation, which must have been written by some clerk unaware of the facts. It is time the world knew, if it does not already, that at considerable expense and with considerable foresight the writer made a special trip to Chicago to arrange with good friend Chief Thorpe for the planting of our California-grown sweet pea seed around the entire circuit of the Wooded Island, where they grew and were admired and were written of considerably in the horticultural and general press. As pioneers in sweet pea seed growing in the United States, we submit that in the early part of 1892 sweet pea seed was quite valuable, and that in addition to the "taking of time by the forelock" and "stealing a march" on the seed trade of the world, the expenditure of good money in the interest of the seed trade and our entire enthusiasm for sweet peas and improvement of these stocks deserve substantial recognition, of which we are sure your excellent paper would not see us robbed.

At my elbow hangs the World's Fair diploma, reading: "Metal for Special Merit, etc." \* \* \* Exhibit Collection of Sweet Peas. Consists of a fine collection of twenty varieties of sweet peas. They are remarkably vigorous in growth, have bloomed profusely, and are of excellent color." And on my desk stands the fine aluminum case containing the medal referred to. Yours, with thanks for courtesy,

JAMES SPROULE,  
Manager Sunset Seed and Plant Company.



Mrs. McCurney.

Maud Dean.

Lily Dean.

### Carnations at Richmond, Ind.

A number of the delegates who attended the carnation meeting at Cincinnati left the city Saturday morning by an early train for E. G. Hill & Co.'s place at Richmond, under the personal guidance of Mr. Hill. A sumptuous dinner was provided for the visitors at the Westcott Hotel, after which a trip was made to the greenhouse. The carnation plants in some cases yet showed that they were suffering from the recent deluge, but, generally speaking, everything was in good shape. Particular attention was paid to Jubilee, which had showed up in such elegant form at the carnation exhibition, and the cleanliness of the plants was a noticeable feature. These seen on the benches were rooted in June and planted out of thumb-pots Aug. 1. Mr. Hill says he will plant in this variety in future June 1, thus insuring flowers at an earlier date. Jubilee does best both with Mr. Rudd and Mr. Hill in a night temperature of 52 to 54; 60 on dull days and 60 to 63 on clear days. Mr. Hill advises those who would adopt his method to give plenty of ventilation and to put a watch of about three-quarters of an inch of old stable manure, not as a fertilizer, but as a screen from the sun.

Flora Hill was, of course, the great attraction. The admirable showing it had made at Cincinnati winning for it many admirers. Mr. Hill tells me that this variety commences to bloom very early in the season, even before it is lifted from the ground in the autumn. It is very prolific, and in freedom of bloom takes after its parent McGowan. As seen at this place, it is a strong rampant grower, with good constitution, making no useless growths, every shoot terminating with a flower bud. The blooms measure from 3 to 3½ inches in diameter, and their keeping qualities could be well judged at the show, where it was among the two or three varieties that stood out prominently at the close as being good keepers. It may be remembered it was

certificated at New York last year. All things considered, it takes a foremost place among the white carnations of to-day.

Whitecote Riley is a very pretty improved Armasindy, having a much stronger growth and a larger flower.

Salmon Gen is a Daybreak seedling with a flower as large as that of Mrs. George M. Brady. The color is a bright lively salmon, and the plant has the same general character as Daybreak.

Mars is the winner of the Weimar prize for best seedling, any color. It is a cross between Jubilee and Portia, seeded from the latter. It partakes of the general character of Portia in the production of its flower stems and blooms, the latter being larger. The color is a most intense, rich scarlet. This is the second year's trial, and the stock of the variety is limited as yet.

Triumph was sent out last year. It is a strong rampant grower. Mr. Hill says it must have good culture, rich soil and plenty of water in order to keep it in sufficient vigor to produce quantities of flowers. When its cultural requirements are understood it should come into general favor.

Mrs. McCurney is a pleasing salmon, carrying a good, strong stem; we think this variety has a future.

Psyche—Of this variety William Nicholson was heard to remark: "It comes as near being the ideal carnation in form, contour, arrangement of petals and general make-up of flower" as any he knows of. The color is a satiny white ground, with slight pencillings of carmine. It is the result of a cross between Armasindy and Helen Keller, but the flower comes a third larger than that of either of these two.

Mr. Hill says of it: "I look upon this as the most valuable seedling of this particular type thus far produced."

Among the new roses Souvenir du President Carnot was looking grand. Mr. Hill had an experience with this rose worth relating. Said he: "In the new craze for grafting plants, do not graft Carnot, or

any other variety, on the European dog rose, Rosa canina, unless you want them to go dormant all winter, despite heat, water and kind attention. Carnot, on own roots, continues to produce beautiful blossoms throughout the winter, but with our large house, where we worked on European imported stock, the plants went dormant in spite of all we could do. We allowed them to rest for a week then started them into heat, and have now nothing so beautiful in a rose house. In about three weeks' time we expect to have a most magnificent display of Carnot flowers again."

Muriel Grubane was also noticed in flower. This is Hugh Dickson's sport from Mermot. It received the gold medal from the National Rose Society of England. It is distinct from Catharine Mermot and evidently possesses all the good qualities of Bride and Bridemaid as it is size, substance and free flowering. Mr. Hill thinks it well worthy of trial.

The showing of geraniums was a grand one, a great improvement being noticed in color and size of the English round-flowered class. Notable among the varieties were Trilly, a reddish-crimson, with extra large flowers; General Washley, light scarlet; Phyllis, light salmon scarlet; Cecilia, white, with golden salmon center. Others of this class notable for size are Florence Farmer, salmon; John Forbes, scarlet; Lucrece, pink; Snowdrop, pure white; Midsummer, one of the finest, cream white, with a large salmon center.

Mr. Hill is endeavoring to raise varieties at Richmond that combine the large size of the English round-flowering varieties by crossing with the American bedding geraniums; and while progress has been very slow, the improvement is quite marked. A variety named Indiana is likely to come to the front as a bedding geranium on account of its large size, brilliant color and immense truss.

Another section seen here that is very

popular in Europe, especially on the Continent, in what the French call the "Croume" section. They are of the Mirande type and are strikingly beautiful. Of these Mme. Hoste and Marie Hoste, both of which originated at Lyons, are handsome varieties. Renonce and Menlek I., two of Lemoiné's productions, are also grand.

Among those of a new type after the style of the striped Mme. Brunt, are Le Vieux and Dr. Marmotek, two of Brunt's productions of last year, that are very pretty and great improvements over the first of this type.

Mr. Hill has tried the new calla, introduced by Godfrey, and named Devonian. The color is strikingly pure, size not too great nor too small, and it appears to be a free bloomer. It has given satisfaction here.

The general stock—palms, begonias, panzanus, ficus, etc.—was in excellent condition.

Cinders from locomotives are used here on the benches instead of sand, on which to stand the pots. This material is clean and has the advantage of being obnoxious to sow bugs and other vermin that do not relish crawling through the cinders.

Among the gentlemen of the party were Messrs. Ward, Scott, Long, Nicholson, Dornier, Brettmeyer, Betscher, Patten, Spillbury, Hoppe, Johnson, Hilze, W. Weber and the "Exchange" man.

The party then paid a visit to Quaker City Machine Works, where, under the guidance of the genial John A. Evans, they were initiated into the construction of the double steel linked chain, which for strength surely cannot be beaten, and the Challenge ventilating machine, generally. Evidently the firm anticipates or possesses many orders, judging from the number of machines in preparation.

This trip was enjoyed by all who participated in it, and was very entertaining and instructive.

St. Louis.

**MARIE LOUISE VIOLETS** ROOTED RUNNERS

LOOK HERE! This Stock Must Be Healthy. Picked in October 20,000 flowers; in November, 120,000; in December, 150,000; in January, 110,000. All prepared by my commission men. Will more than twice double this before Easter. \$4.00 per 100, cash with order.

**GEO. T. SCHUMANN, Blue Point, N.Y.**  
Largest grower of Marie Louise Violets in the world. Winner of the largest prizes ever offered for Violets.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

**VIOLET GLUMPS**

MARIE LOUISE. Per 100, \$3.00.

**ROOTED CUTTINGS**

GERANIUMS, Double White, Pink 15 00 2 0  
1125 BEGONIA 1 00  
GERANIUMS mixed, Miss Salerio, 1 00  
Lemon Verbena, Verbena Var., 12 50 1 00  
Val. Stevia, 12 50 1 00  
MRS. POLLOCK, GERANIUM 2 00  
SNOWDRIFT, 5 00 1 00  
STROBILANTHUS 15 00 2 00  
ALTERNANTHERA, VIOLETS 5 00 1 00  
SWEET ALYSSUM, double 1 00  
SALVIA, aquatic, HELOIPE, 2 00  
CARNATIONS 10 00 1 25  
COLEUS, separate varieties 7 50 1 00  
MISSED, 6 10 75  
ABUTILON, Souv. de Bonn. 2 00  
SNOWDRIFT DAIRY CYPERUS 2 00  
ALTERNIFOLIUS 2 00  
ROSE, Serenit, single, Wood, 1 50  
Bridlemaid, 1 50  
TRAILING QUEEN FUCHSIA 2 00  
VIOLET WHITE 2 00  
VINCA VARIEGATA, \$1.00, 50¢, \$1.00, per 100  
Write for prices on other rooted cuttings. Stock true to name and extra care in selection.  
Terms, Cash or O. D.

**GREENE & UNDERHILL, Waterloo, N.Y.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CHRYSANTHEMUMS.**

**MARCH 1st.**  
All the Leading Novelties, also strong sturdy Rooted Cuttings of following splendid varieties:  
Modesto, Mrs. Perrin, Glory of the Pacific, Parrot Foot of the Amazon, Smith, Elsie Lambert, Helen Wright, Yonoma, Volunteer, Beni, Parrot Foot of the Amazon. All the standard commercial sort, in fine healthy condition.

**CARNATIONS.**

March 1st. All the Leading Novelties. Ready now, 10,000 Alaska, at \$2.00 per 100 \$1.50 per 100, 10,000 Wm. Scott, at \$1.50 per 100 \$1.00 per 100. These are nice sturdy cuttings Cash with order.

**THEO. F. BECKETT, NEVILLE ISLAND, 1 Miles S.W. Pittsburgh, Pa. GLENFIELD, PA**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**WE EGOTER**

Not "Snakes," but **LADY CAMPBELL VIOLETS.**

50,000 Orders Wanted for 50,000 Rooted Cuttings. Orders booked for April 1st. Price \$1.00 per 100. Cash with order. Stock Guaranteed Free of Disease.

Note.—This seed will not appear again.

**BEACH & CO., Richmond, Ind.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**NEW Chrysanthemums**

Our Descriptive Catalogues TRADE LIST Carnations has been mailed.

If it has not been received **Violets THE ASKING** will place it on your desk. **Roses**

**N. B.—200 Souv. du PRESIDENT CAROL ROSE, from 2 1/2 in. pots, in the best condition, ready to ship. Price for immediate delivery on application.**

**NATHAN SMITH & SON, ADRIAN, MICHIGAN.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**GERANIUMS AND VIOLETS.**

Geraniums.—Best single, double and semi-double varieties for bedding purposes: our select root cuttings \$1.50 per 100. Violets.—Mrs. Louise, good healthy transplantable stock at \$1.25 per 100, or from Cash. Best weeks at \$1.00 per 100.

**H. B. WEAVER & BROS., Wheatland Mills, Pa.**

Money Order Office, Lancaster, Pa.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CHRYSANTHEMUMS.**

Best standard commercial varieties, from pot to Mrs. Robinson, 2 1/2 in. Pots, a Philadelphia Best of Show, Pink Ivory, M. Wasmann, a Cannes E. Dandberg, a J. B. Koster, The Queen, J. G. Childs, John W. Cramer, Fryer, Iowa, at \$1.25 per dozen, at \$1.00 per dozen, Cash with order.

**JOHN C. EISELE, PHILADELPHIA Pa. 20th & Ontario Sts.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**20 CHRYSANTHEMUMS VARIETIES**

For \$1.00, Postage Paid.

Mrs. H. Robinson, Philadelphia, Queen, E. Dandberg, Major Bonaffon, and 15 other varieties. Send for list.

Double and Single Geraniums, \$3.50 per 100.

**HARVEY B. SNOW, Camden, New York**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CHOICE STRONG ROOTS, \$6 Per 100.**

I am again ready to quote prices and book orders

**NOVELTIES AND STANDARDS** in great variety. Prices lower and stock better than ever. Try my leader—John Eisele.

**W. W. MOORE, Box 382, Denver, Colo.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CHRYSANTHEMUMS.**

Miss Agnes Dalskov, (Pink Ivory), good strong plants, from 2-inch pots, \$3.00 per 100.

Major Bonaffon, fine strong plants, from small pots, \$3.00 per 100.

CARNATION—Lizzie McGowan, from date, \$1.50 per 100.

ABUTILON Souv. de Bonn, fine strong plants, from 3 and 2 1/2-inch pots, \$2.50 per 100.

DRACÆNA Indivisa, nice strong plants from 2 1/2-inch pots, \$3.00 per 100.

**H. L. RAGAN, Box 166, Philadelphia, Pa.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Grand Results. Your paper gave grand results from its use last season. O. E. WELLS, Roslindale, Mass., Sept. 7, '98.

**THE FARQUHAR-QUEEN OF VIOLETS**

HEADQUARTERS STOCK. TRUE AND PERFECTLY HEALTHY.

Earliest, Finest, Darkest and most Double. Planted now will flower and give a quantity of runners for stock. From 2 1/2-inch pots in bud, \$3.00 per 100. Strong Rooted Runners, \$1.50 per 100, by mail; \$1.00 per 100, by express.

**C. E. WELD, VIOLET SPECIALIST, ROSLINDALE, MASS.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**SEND FOR THE KING**

Offers the following varieties of Violets for March delivery. All plants are in perfect health, having been grown under the most favorable conditions. None of my Violet houses are heated, thus insuring perfect health and vigorous growth. Princess of Wales (Princesse de Galles), introduced by me from France four years ago. \$1.00 per dozen; \$1.00 per 100.

Princess Beatrice, new. \$1.00 per dozen; \$1.00 per 100.

Admiral & Admiral, new. \$1.00 per dozen; \$1.00 per 100.

Luximo, 75¢ per dozen; \$1.00 per 100.

Feitic Blue, 75¢ per dozen; \$1.00 per 100.

Write for prices on other rooted cuttings. Cash with all orders. Chamberlun, etc. Prices on application.

**FRANCIS SPUOT, 57th St. and Lancaster Ave., PHILADELPHIA, PA.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**NEW SINGLE VIOLET PRINCESS OF WALES**

The Queen of all the Violets.

2 inch plants (grown cold) \$6.00 per 100. WE ARE HEADQUARTERS.

Cash with Order. **JNO. G. HEINL & SON, Terre Haute, Ind.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**PLANTS "SPECIALTY!"**

On and after March 1st I will be ready to supply, in any quantity, stock of the following varieties: PRINCESS OF GALLES, The Queen } Prices of Gemma Violets. The largest and most fine. } these two plants strong grower and productive. } on LUXIMO, new. \$1.00 per dozen; \$1.00 per 100. } application. CALIFORNIA ..... per 100, \$1.00; per 1000, \$5.00. MARIE LOUISE ..... " " 50¢ " 4.00. ADY ..... " " 50¢ " 4.00. FARQUHAR ..... " " 1.00¢ " 10.00.

All from good plants, rooted runners. Five French Medals; two American Medals; three Diplomas. First Premium, Grand Central Palace, New York, under the auspices of New York Florists' Club.

Send in your orders now. Cash with order or satisfactory reference.

**FERD. BOULON, Sea Cliff, L. I., N.Y.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Market News.**

The recent revival of the flower business is a good deal of a novelty. Nothing of the kind has happened before for almost a year. There have been during that period a number of indications of a languor to partial liveliness, but they have been unimportant and disappeared so quickly that they were not noticed.

Business is good now and prospects are that the market will be healthy and steady for the past two years. The indications of the moment is uniformity and stability in figures—not unreasonably high nor unreasonably low, and to continue a business that traffic is wholesome and remunerative. Wholesale Market.

The increased buying movement noted for the past two years has assumed larger proportions. It is true that roses are decidedly of crop, which would cause a softening of the market, but the cheerful fact that business is much improved is readily granted.

In roses Bridewell was again the favored rose and was short of demand. This variety is now prime, and very fine buds can be seen at all the wholesale houses. The price obtained for fancy selection Bridewell was 10c. to 12c. Bride was also short of call and buds were scarce. Meters were in ample supply and owing to the success of the past few days, and the fact that the quality well-favored, call at 10c. There was an increased number of "bull-headed" meters in evidence, and the price sold at 5c. High grade roses commanded 6c. and were scarce; second grade roses sold at 4c. to 5c. for fancy selections and 4c. to 6c. for seconds.

American Beauty is still scarce. Our best retailers bought buds which in times of ample supply would not have been given consideration by them, and paid liberally for them. Bringing Beauty the quality of roses is fair.

Standard varieties of Carnations were in good request at \$2.00 per 100. The demand and supply have apparently become so equal that the market is not showing an overstock in the near future. Daybreak was scarce and Scott most plentiful. Red and white varieties were in demand on Saturday and Sunday. The extra call was occasioned by celebrations on Monday, Washington's Birthday. On Tuesday, because of the increasing demand for flowers on St. Valentine's Day and Washington's Birthday, in which celebration, Lincoln was most plentiful, and those received were not of good quality. If there was any loss in transactions last week it was of that variety.

Violets were in superabundance. Southern blooms are now coming in in quantity, some of them rivaling the home grown article in quality. The effect of the heavy receipts was disastrous to prices and caused a general slump in the value of violets. Southern stock sold as low as 10c. per 100 and many blooms were left for want of trade. The price of double violets dropped to 40c. per 100 and California, which are most in demand, dropped to the same figure.

A few bunches of the new violet, Princess of Wales, were sent to the market last week. It is a magnificent violet and will crowd the California hard before many bunches are sold.

All bulbous stock was in good demand and ample supply. Valley was plentiful and sold at 10c. per 100. Roman was scarce and brought same figure. Von Skin sold at \$3 per 100. Lilies were abundant and sold at \$2 per 100. Sweet peas have made their appearance. They are as yet in limited supply and not of prime quality. They were at \$2 per 100. Sunlux is plentiful and sells well at \$10 to \$12.50 per 100.

Heard Notes.

Decorations for weddings and receptions are numerous; funeral work is plentiful, and the demand for flowers is good. The Grand Opera this week is attracting considerable demand for fine flowers. The quality of the roses at \$2 per 100. Sweet pea the retailers have to contend with now.

Justings.

A. S. Halsted and W. L. Hucks, Belleville (Ill.) carnation specialists, were visitors to this market last week. A. S. Halsted was in charge of the greenhouses of Mrs. Ida M. Pravel, Marion, Ind., is here on a visit.

It is regretted that I report the serious illness of pneumonia of the oldest son of J. J. Beekers. C. G. F.

TUFF STUFF ON GREEN FLY IS TOBAC-OL.







### Exclusively a Trade Paper.

Entered as First Class Matter on October 23, 1902, Post Office at New York, N. Y., under No. 100.

Published EVERY SATURDAY by

A. T. DE LA MARE PTC. AND PUB. CO. LTD.,

2, 4, 6, 8 Duane St., New York.

P. O. Box 1697. Telephone 2151 Central.

#### SUBSCRIPTIONS:

\$1.00 per year in United States, Canada and Mexico. \$2.00 per year to foreign countries in postal union. Payable in advance. New subscribers will commence with the first number after receipt unless otherwise ordered. Back numbers can be supplied when wanted. The date on address label above when the subscription expires and is the subscriber's receipt. No other receipt is sent.

#### ADVERTISEMENTS:

Copy must reach this office no later than Thursday in order to secure insertion in issue of the following Saturday. Rates: \$1.00 per line. Special positions extra. Receipts on contracts of one month or longer. Orders from unknown parties must be accompanied by cash or satisfactory references.

General Eastern Agent:  
W. E. WOOD, 1000 West Newton, Mass.  
Sole Agent for the West:  
EDGAR SANDERS, 1639 Belmont Ave., Chicago

#### Subscribers

Should give notice to the publishers at the end of their time if they do not wish to continue taking paper, otherwise it is continued and payment expected.

ADVERTISEMENTS of all other matters not intended for current news will bill monthly at \$1.00 per line unless it reaches this office not later than THURSDAY NIGHT.

#### Contents.

AMERICAN CARNATION SOCIETY	187-190
BOOKS RECEIVED	216
CARNATION ILLUSTRATIONS	194-195
CARNATION, DOMINION (Illus.)	192
CARNATIONS AT RICHMOND	195
FLORISTS RECEIVED	199
CHANGES IN BUSINESS	199
CUTTING BENCH FUNGUS	192
EPHYRAE	200
FLAT NEWS	200
HOT-AIR ENGINE MANAGER COMBINE	210
IMPORTED TREES, INSPECTION OF	188
LEGAL QUERIES	200
PITY-SPORES, TO MAKE TIGHT	205
QUESTION BOX	200
SEEDS, FREE	188, 202, 213
SOCIETY OF AMERICAN FLORISTS	188
TRADE SHOWS, EXPORT AND IMPORT	188
TRADE NOTES:	
St. Louis	196
Philadelphia	196
Philadelphia, Terra Haute	199
Grand Rapids, Montreal	214
Flowers Received	199
Baltimore, Boston, Buffalo, Cincinnati, New Orleans, Providence	208
CORRESPONDENCE	194

#### For the Busy Man.

Fight the Free Seed Distribution. See pages 202-203.

The union question in New York opens Tuesday, was married Wednesday last.

C. E. Weld, a violet specialist of Rosindale, Mass., committed suicide Monday last.

A secretary here of the American Carnation Society, was married Wednesday last.

A full report of the proceedings of the Carnation Convention appears on pp. 187-190.

It is rumored that bulbs and roots will be shipped in the dutiable list under the new tariff law.

The Baltimore Club is endeavoring to establish an association on the lines of the Philadelphia one.

R. J. Murphy, whom the delegates to the Carnation Convention met at Cincinnati, died Wednesday from a stroke of paralysis.

The Executive Committee S. A. F. meets in Philadelphia, Pa., on March 3. Send your suggestions for the good of the Society to the Secretary.

#### Government Free Seeds.

From an early period in its existence THE FLORISTS' EXCHANGE has, on principle, and from a sense of the unrighteousness of the thing, whenever the time seemed opportune, vigorously and conscientiously attacked Government Free Seed Distribution.

In all its endeavors it has had the hearty sympathy of the seed trade, and also that of the Hon. J. Sterling Morton, Secretary of Agriculture, than whom no man has had better opportunity to realize and appreciate the magnitude of the abuse, and the open door it presents for future and enlarged spoliation.

Secretary Morton has sought, from the very first month of his assumption of office, with all the official and personal influence his command to legislate the evil out of existence, and his earliest efforts on the subject were clearly expressed in a letter to THE FLORISTS' EXCHANGE, published in our issue of April 22, 1903.

The publication of the Hon. Secretary's letter at this time, and the consequent publication of Free Seed Distribution by every prominent seed concern in the country.

The time is again propitious for a general assault upon this iniquity. The bill proposed for next year's Free Seed Distribution is to-day in the hands of a Conference Committee, consisting of Senators Call, Cullom and Quay, and Representatives Wadsworth, Henry and Clardy.

The Bill, when presented, may receive President Cleveland's signature. And it may not. Judging from his previous record at this point. And if the latter is the case, more time will be ours in defence of the right, and, through public agitation, a new Congress with a new Secretary of Agriculture, may be impressed with the sense of the injustice of the measure, and will repeal the law. And if the latter is the case, more time will be ours in defence of the right, and, through public agitation, a new Congress with a new Secretary of Agriculture, may be impressed with the sense of the injustice of the measure, and will repeal the law. And if the latter is the case, more time will be ours in defence of the right, and, through public agitation, a new Congress with a new Secretary of Agriculture, may be impressed with the sense of the injustice of the measure, and will repeal the law.

Mr. W. Atlee Burpee, of Philadelphia, a noted seedman, despite the fact that he is a Government contractor this year, as is evidenced in our columns is wholly opposed to the continuation of the system. He has taken a prominent part in the agitation for a repeal of this unwelcome provision of law, and in the fact which he states to us, that every seedsmen who has received a contract from Government this year is heartily opposed to the continuation of Free Seed Distribution, possibly lies the strongest argument that can exist for its abolition. To be in receipt of Government patronage and yet unanimous on the subject, these gentlemen must realize, to a greater extent than others not in possession of the facts, that the right to Free Seed, very heart, as it were, of the Free Seed Distribution, the absurdity and unfairness of the whole procedure.

The time and the wedge which has been driven into the life of the seed trade, the seed industry, and which threatens its further existence, must be withdrawn. If Congress must be made acquainted with the fact that Free Seed Distribution is not favored by farmers, seed growers, seed sowers, or any class of commercial cultivators.

The people must be given to understand that Free Seed Distribution exists because Congressmen either mistakenly believe they are doing good to the country at large by its promiscuous distribution, or else, and what is more probable in the case of the latter, that it has been freely shed upon them in recent years, for the reason that through these petty offerings to individual constituents, they create an influence at home which will stand them in good service when needed.

All we need is a little more public knowledge, a Congress perpetuating a wrong and inflicting injury on a great industry. Worse yet, setting an example, the outcome of which may be fraught with disaster to our institutions.

We advise, and earnestly ask, every subscriber to THE FLORISTS' EXCHANGE, be seedman, florist, nurseryman, or cultivator of any class, so long as he has the good of all in mind, to immediately, and without an hour's delay, write a concise and vigorous letter of protest to his Congressman, and further lading out by Government of free seeds, stating the injury it is creating, the injustice of the measure, how to be introduced, and the fact that the precedent it establishes for still more harmful legislation, and the fact, most potent of all, that the very men in whose behalf the measure is ostensibly said to be introduced, condemn it the most severely.

The intention of the original framers of a wise measure having been completely negated and frustrated by a recent Act, it is time for the trade and the people to call a halt and bring the force of Free Seed Distribution to an end.

#### Society of American Florists.

The Executive Committee of the Society of American Florists, at its meeting, by attendance, R. I., on March 3, to discuss plans for the society's future and to perfect arrangements for the coming year, was one of the most interesting meetings of this organization, the coming convention at Providence.

The Executive Committee earnestly solicited suggestions on the above lines from every member of the society. Flower growers, plantman, wholesale or retail dealer, nurseryman, seedman, whatever you may be, the society has a right to know. What do you think? What can it do? What should it undertake for the general benefit of the members of our meeting? All can help a little and the greatest good for the largest number should be our aim.

The Society has met our members, has felt the effects of the years of depression, but confident predictions of coming revival are being made. It is a time when it is in when it comes. You have opinions as to how this may best be accomplished. Attention will be given to all communications and your interest and assistance will be appreciated.

The following gentlemen are the following members: Adam Graham, Cleveland, O.; William Scott, Buffalo, N. Y.; Paragurh B. Smith, New York, N. Y.; E. B. Eddy, City, Pa.; Jackson Dawson, Jamaica Plain, Mass.; George P. Rawson, Elmira, N. Y.; J. W. Smith, Adrian, Mich.; Harris, Philadelphia, Pa.; J. G. Eiler, Sand River, N. J.; W. N. Ridd, Mt. Greenwood, Pa.; W. M. Smith, Adrian, Mich.; W. F. Gude, Washington, D. C.; and J. Charles McCullough, Cincinnati, Ohio.

Communications may be addressed to any of these gentlemen or may be sent to the secretary, William J. Stewart, No. 67 Broadway, N. Y.; or to the Secretary, March 1897.

#### Export and Import Statistics.

The Treasury Department has completed the statistics of our country's exports and imports during the last fiscal year. The under-noted figures will doubtless be of great interest to our readers. The total value of cut flowers exported was \$78, the major portion of which went to the United States. The value of plants, trees and shrubs exported was \$133,778, the customs districts towards which the quantities and the values set out from each being: Bangor, Me., \$2,022; Boston and Charlestown, Mass., \$3,906; New York, \$1,829; Detroit, Mich., \$7,446; Passanagoquady, Me., \$888; Braxos Le Santiago, Tex., \$615; Paso del Norte, Mexico, \$2,235; San Francisco, Calif., \$1,806; Puget Sound, Wash., \$1,692; Buffalo Creek, N. Y., \$4,118; Cape Vincent, N. Y., \$1,000; Chicago, Ill., \$1,879; Detroit, Mich., \$4,678; Niagara, N. Y., \$59,557; North and South Dakota, \$1,839; Oswego, N. Y., \$1,839; St. Louis, Mo., \$1,839.

The countries to which the largest supplies were sent were: Germany, \$10,463; Austria-Hungary, \$10,463; United Kingdom of Great Britain, \$12,712; Dominion of Canada—Nova Scotia, New Brunswick, etc., \$5,577; Quebec, \$1,806; France, \$1,806; Italy, \$1,806; Guatemala, \$1,418; Mexico, \$7,455; British West India, \$1,418; Mexico, \$1,418; San Domingo, \$1,418; Porto Rico, \$1,418; Argentina, \$865; Uruguay, \$200.

The total value of plants, trees, shrubs and cut flowers imported was \$263,554. Of this, the following customs districts receiving the

largest values were: Baltimore, Md., \$471; Boston and Charlestown, Mass., \$1,511; New York, N. Y., \$725; New York, N. Y., \$1,511; Philadelphia, Pa., \$20,611; San Francisco, Calif., \$1,489; Buffalo Creek, N. Y., \$1,489; Detroit, Mich., \$1,489; Cuyahoga, Ohio, \$782; Detroit, Mich., \$1,489; Minnesota, \$1,489; Milwaukee, Wis., \$1,489; Cincinnati, \$1,489; Indianapolis, \$1,489; The countries sending us the largest values were:

Belgium, \$121,768; France, \$9,046; Germany, \$58,877; Netherlands, \$27,684; United Kingdom of Great Britain, \$27,164; Quebec, \$18,294; Austria-Hungary, \$12,397; San Francisco, Calif., \$1,856; Brazil, \$427; Colombia, \$1,523; Japan, \$4,906.

Of this the districts receiving the largest supplies were:

Boston and Charlestown, Mass., \$22,869; New York, N. Y., \$508,771; Philadelphia, Pa., \$18,294; Augustina, Fla., \$2,397; San Francisco, Calif., \$6,257; Buffalo Creek, N. Y., \$4,979; Chicago, Ill., \$1,416; Cuyahoga, Ohio, \$18,092; Detroit, Mich., \$5,547; Geneva, N. Y., \$1,838; Huron, Mich., \$6,544; Milwaukee, Wis., \$7,678; Minnesota, Minn., \$549; Niagara, N. Y., \$1,838; Germany, \$18,906; Albany, N. Y., \$913; Cincinnati, Ohio, \$1,838; Columbus, Ohio, \$1,272; Indianapolis, Ind., \$1,838; Louisville, Ky., \$1,838; Pittsburgh, Pa., \$1,838; St. Louis, Mo., \$585; Springfield, Mass., \$390.

The countries from which the largest quantities were imported were: Austria-Hungary, \$2,445; Belgium, \$11,100; Germany, \$11,100; Italy, \$3,466; Netherlands, \$279,758; United Kingdom of Great Britain, \$40,115; Bermuda, \$105,882; Quebec, Ontario, etc., \$2,644; Mexico, \$1,426; British West India, \$2,765; China, \$5,125; Hong Kong, \$983; Japan, \$19,419; Porto Rico, \$1,129; British Africa, \$3,550.

#### Inspection of Imported Trees.

A Bill has been introduced into Congress to provide for the inspection of imported trees, plants, buds, cuttings, grafts, slips, nursery stock, etc., to be imported into the United States, and for the inspection of nursery stock grown within the United States. The bill is a subject of interstate commerce. Full particulars next week.

#### Secretary Kerr Married.

ALBERT M. HERR, Lancaster, Pa., the energetic and popular Secretary of the American Carnation Society, was married on Wednesday, February 24, to Miss Elizabeth A. daughter of Mr. and Mrs. Andrew L. L. of Philadelphia. The Exchange wishes the young couple long life, prosperity and happiness.

#### New York Wholesale Market.

Washington's birthday (Monday) as a business day was most disappointing. About 1000 boxes of flowers were to be had, but demand proved lacking. This left a heavy supply on hand for Tuesday, Wednesday and Thursday. Demand was also heavy, the outcome being a general slump of prices. Roses sold at \$1.50 to \$2.00 per dozen, and \$1.00 to \$1.50 per slip straight. Wednesday and Thursday, fortunately, shipments lightened up; this was the case of the market. But the demand was not brisk enough to warrant any advance in figures. The corresponding week of last year was the best. The week was one of the best of the whole season for trade and averages were high; alas, this week will be no comparison. It was probably in some lines stock did not realize the full of what it did then.

There is a heavy quantity and quality; in special, Beauty made 40c to 50c; Hybrids 20c; Bridemaid 12c, with many lower. In the week of Rotterdam, Mabel Morrison and Mervelle de Lyon have made their appearance, but most of the stock is short-stemmed and poor so far.

Shipments have lightened up in supply very considerably, and prices are that much the better. The outlook is that this week will not be heavy again for some time.

Flowers are more abundant than ever, and prices are lower. The market moved freely until mid-day, after which they tumbled, and since then have been in a state of depression. The stock changed hands at \$3.00 per 1,000; toward the end of the week \$3.50 and \$4.00



## QUESTIONS IN A BOX.

OPEN TO ALL. FREE TO ALL.

Answers Solicited from Those Who Know.

(36) Diameter of Pipes.—I have 16,000 feet of what is called 2-inch pipe in a boiler, at a temperature of 50 degrees in coldest weather. Would a 40 H. P. boiler be capable of piping 16,000 feet of pipe, would it be a saving to use 1½-inch. Our houses are 175 feet long, and have a rise of 5 feet. I would like to know if I should prefer to use the one pipe system, steam to flow and water to return in same pipe, or use 2-inch pipe as we have plenty of that size on hand, providing it was economical. A. G. H.

It would be all right to use the 40 H. P. boiler and to pipe the houses as proposed, but it would be more economical to use smaller pipe. Rather than use the 2-inch pipe for steam, I would have the house so piped that it could be heated with hot water under pressure, at least in all but zero weather. While it would be better to have larger flow-pipes, it will be possible to use a 2-inch pipe with two 2-inch returns. Each coil of one flow and two returns will then provide nearly two square feet of radiating surface for each foot in its length. This will be sufficient to heat the house, measuring over the side, and for a house of three such coils would be sufficient to heat to run all the pipes down, and, if so arranged, to connect the main feed pipes with the separate tank, and a vacuum valve and safety valve connected with top of the pipes.—L. R. TAFT.

(37) Primula Obovata.—Pet. Bezard. This plant was introduced in 1852. It is a native of Central China.

(38) Average Cost.—Will you kindly tell me what should be the average cost of flowers in a house for the purpose of growing for cut flower purposes: Carnations, Beauties, Brides, Bridemaids, Mignonette and so on.

It is next to impossible to answer this question intelligently, so much depends upon the size of the house, the conditions of house, heating arrangement, etc. Supposing all these are favorable, the number of blooms cut will then depend largely upon what he grows for. For instance, a man who sets out to have extra special Brides or Bridemaids will perhaps get them, and they may realize \$4 per dozen; but in this case his cut will be very light, and may not be worth \$100 or ten blooms of any kind, whereas another grower may average thirty blooms, but many of these will be of such a grade that they would not bring more than \$1.50 per one hundred. Beauties may run from one to four specials, or there may not be an extra or special on the plant; on the other hand, there may be a dozen extra crooked-neck or bling buds. Certain varieties vary so much with the grower and how close he plants that the average of such blooms may be \$1.50 or fifteen cents. Violets may vary, if in health, from three to fifty.

(39) Stringing.—What Constitutes a Stringing?—A grower who sends me a report says he always so much per string. Kindly inform us what constitutes a string; what length and what is the average of a grower who sends in strings ten feet long, with several straws, have to sell at the same price as the grower who sends in a single string, three feet long? What should a florist expect when he orders smilax, a three-foot or a ten-foot string?

SUBSCRIBER, Mass.

Our market quotations are usually given in terms of strings of sprigs, and on the market, not taking either extreme. Speaking generally, it would mean strings of sprigs eight feet long, and each of four feet would be treated as short, and it would be difficult to give a price on such a basis. Smilax is a very variable article, a catch price, and usually there is more of that quality thrown away than sold. A ten-foot string, with six straws, would also

be difficult to quote, for that would be strictly fancy, and would command a much higher price. For instance, if our highest quotations should be 10c and 12c, such a string would be worth 25c to 30c. The average of marketable straws is six to eight feet.

(40) Hot Water Heating.—Please tell me what heat two 2-inch flows and eight 1½-inch returns would heat. The average length, 15 feet wide, 8 feet ridge, 5 feet side walls, which include 20 inches of glass in the house, and a house of 175 feet long in the coldest weather, and house is well built. Hot water heating.

TURNBULL.

It is impossible to give a definite answer, but should regard the piping sufficient to heat a house of 175 feet long, 8 feet wide, 5 feet high, and perhaps 50 degrees in mild weather, if the heater is of suitable capacity and the piping properly arranged. L. R. TAFT.

(41) Hot Water Heating.—I have a greenhouse 10 feet by 20 feet that is not now in use and desire to heat it by hot water, and make a box coil boiler. How much pipe must I have in boiler and how long? Will it be necessary to heat the house to heat same to 55 or 70 degrees? W. H. M.

W. H. M., LELAND, Illinois.

Without more data it will not be possible to give a satisfactory answer, but if the house is 10 feet wide and 20 feet long, and if the wooden exposed wall surface does not exceed 200 square feet, the use of 1½-inch pipe will be sufficient. If of 1½-inch pipe are used in the heating coil, and from 300 to 350 linear feet in the house, and a second-hand car heater, or a small hot water heater of some kind rather than to make a coil of pipe.—L. R. TAFT.

(42) Hot Water Heating.—I have two greenhouses, 10x25 feet, equal span, and one 10x25 feet, equal span, but the two sides are 4 feet high and unprotected. How many 2-inch pipes for flows, and how many 1½-inch pipes for returns, will it be necessary to heat it to 70 degrees? The coldest weather we have is about 15 below zero. What size hot water coil heater will be needed to run through a house 10x25 feet, under the bench and up through the roof at the farther end of house; the heater to stand in the center, the pipes running each way, and to be left overnight. N. Y.

If the houses are well built, of the usual height, and without glass in the side walls, the houses 10 by 45 feet can be heated with two 2-inch overhead flow pipes and four 1½-inch return pipes. If the flows are under the benches, or lower down than the plates, it will be best to use four 2-inch flow pipes and eight or nine 1½-inch returns. In the house 20 feet wide run four 2-inch overhead flows and twenty 1½-inch returns. The grate surface required will vary from eight to ten feet, according to the kind of fuel used, and the box boiler. The necessary heating surface will be provided by forty-eight pieces of 2-inch pipe five feet long. They can be arranged in six coils of eight pipes each over a grate 2½ by 3½ feet.

If the above estimate no allowance is made for the heat from the flue, as although it may be sometimes used in cool weather, it is a matter of waiting for the pipes, the effect upon the draft is often so great as to make the heat uncertain. It is generally best to use the flue in combination, and it will be better to rely on hot water alone in tropical houses. L. R. TAFT.

(43) Propagating Ipomoea Pandurata.—What is the best method of propagating Ipomoea Pandurata? I have tried the method of sprouting the tubers, drawing the sprouts and planting them as is done with the common Ipomoea. I have also tried the method of cutting the tubers. (44) Black Beetles on Elm.—J. M. We cannot help you in regard to the elm. It seems to be a matter of waiting until nature will do the working. With a good practice to scrape the bark to such an extent?

(45) Dwarf Double Tuberoses.—J. M. Put up in late spring in good soil, and in pots. In this season no bottom heat is needed.

(46) Best American Carnations.—What are the best carnations of America origin?

(47) Plant for Name.—E. Lappe.—The specimen sent for name is one of the old class of perlagoniums. It is very hardy, and floriferous, but they are seldom seen in these days. Possibly the one you have is *P. Stronatum*, which is very hardy, and either it may be a garden form of that variety.

(48) Imperfect Yellow Stock Blooms.—E. Lappe.—The color of Yellow Stock is due to the action of the perlekia on the system under which the flowering bulbs are grown when in the fields, and whether they are raised in greenhouses. Different localities also give different results. There is also a difference in price to the importer.

(49) Packing and Growing Carnations.—Will someone tell me the best way to pack carnations, the number of flowers to put in a box when shipping to commission merchants?

Are solid boxes just as good for raising carnations as raised benches? When sold at wholesale for what season?

What distance apart should carnations be set in a greenhouse with such varieties as Scott, Daybreak, McGowan and Meteor? G. W. S.

There are different methods of packing carnations and usually this work depends upon the quality of the soil. Some growers, who are sending in special and fancy blooms will go to the trouble and expense of packing them in trays with a wooden resting, or a wooden frame. Others simply tie them up in bundles of fifty and ship in large boxes, packed with generally neat, evenly graded, and shipped in shallow boxes, just one layer deep. Some growers will grow them up to twenty-five to a bunch. Care is taken that they have been cooled before shipping to the grower.

It is impossible to state the amount to be realized per plant. It depends upon the size of the market, the market you have to dispose of them and the price it is possible to get locally. Except to a few special growers, the average value of carnations this season will not be more than 65c per 100, and in many cases not that. Figure this out at an outside average of fifteen blooms to a plant, the latter standing ten inches each way. Solid beds of carnations will give from fifteen to twenty plants closer than either of the others, say 8 by 8, but this depends upon the size of the plants. (See Mr. Weber's paper, page 167 of last week's issue, for full cultural information regarding carnations.)

## Legal Queries.

Taxes, Galesburg, Ill.—A principle of law so well established as to be termed "pre-valuation" is that annual crops parake of value are to be valued at their market value as adding to the value of the land for realty taxes. This is so well established that it is not necessary to refer to any law disposing of real estate, and can be no part of the personality.

Contract, Chicago.—I cannot be classed as "annual crops," and so partake of the nature of personal property, amenable to the state and local laws affecting personal property.

Water Meters, West Collingswood, N. J.—I have a signed water meter. Custom (N. Y.) makes the water meter by the meter, subject to inspection from time to time by the company. Any violation of contract put up with by the company should shut off water. Interpretation of contract does not involve knowledge of local laws governing such corporations.

Defective Hedges, Wilmington, Ohio.—I am an estate, and there was a negligence in your part (my servants). We should say that heater company is liable—even if I guarantee by them.

## Ephyllums.

These plants, owing to their exceedingly attractive flowers and the comparative simplicity of their cultivation, ought to have a place in the list of plants grown for winter bloom. They can be turned out in a salable state just as easily as in a short time as the azalea and command perhaps even a higher price besides helping to furnish greater variety in what is offered for sale. As the plants have a procumbent or drooping habit of growth, they are only used when grown in this manner for basket work, therefore we usually see them grown as standards, that is, grafted on the stem of some other plant, so that they are well above the flower pots. The best stocks for this purpose and the ones most used are *Perezia Aculeata* and *P. Buxi*. To have ties in condition for the reception of the grafts they should be grown on from cuttings to the desired height; six or eight inches is a useful size, although they can be successfully worked on stocks of pereskia much taller. When the wood of the stock is sufficiently firm, cut off the top; make a split down the middle for three-quarters of an inch or so, then insert a piece of the ripened growth of ephyllum, and either run one of the pereskia spines through the whole, to keep it firmly together, or tie with raffa.

If a nice growing atmosphere be given, they will not be long in uniting. As an important point is to have the pereskia in as small pots as possible at the time of grafting, so that when the union between the stock and scion takes place, the plants will get a fresh impetus by being shifted into larger sized pots. From now on the most favorable position in which to make their growth is near the glass in a rather warm house. They like a moderately humid atmosphere while growing. They may be had in flower anywhere from November till late in spring; in fact, as tractable as they, that flowering plants may be had all during the flowering season of the azalea. The potting mixture to be used should be exceedingly porous, the least stagnation is fatal to the roots. Sandy loam, broken brick, old manure and a little leaf soil will be found best. G. W. V.

## HALL NEWS.

The latest additions to the ranks of the membership of the Florists' Hall Association is the Missouri Botanical Garden.

## SARATOGA, N. Y.

T. J. Totten is sending a fine seedling carnation to Welch Brothers, but if it does not well upon further trial he will discard it. He has a grand lot of Cardiage, which some growers are growing, but are strongly in evidence here. Some very well grown plants had ready sale in Albany stores.

W. M.

TOBAC-OIL

## Vaporizing Tobacco Extracts made

easy and sure by using the TOBAC-OIL VAPORIZER—\$3.50 each. Money back if not satisfactory. Particulars by writing to

H. A. STOOHOFF,

315 MADISON AVE., N. Y. C.

FOR SALE 2000 SQ. FT. OF FLOOR SPACE, EXTERNAMATES AT ONE APPLICATION ALL GREEN FLIES, IS NON-INJURIOUS TO MOST DELICATE BLOOMS, PERFECTLY PURE, WHITE IN COLOR. VAPORIZES COMPLETELY, LEAVING NO STICKY, DIRTY MASS TO BURN AND SMOKE. IT IS OIL OF NICOTINE. IF NOT PERFECTLY SATISFACTORY, YOUR MONEY BACK. BOOKLET FREE.

Mention paper.

H. A. STOOHOFF, 315 Madison Ave., N. Y.

# IT IS A WINNER!

# ROSE CUTTINGS

SIZE. FORM. STEM. FOLIAGE.

Continuous and abundant in blooming. There is an indescribable charm in its delicious coloring.

No one will regret investing in this Rose.

SEE OUR ADVERTISEMENT IN NEXT NUMBER.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## New Rose, Yellow Rambler

(AGLAI). The only hardy yellow rose. A splendid companion to Grimson Rambler. ... **THE DINGEE & CONARD CO.,** West Grove, Pa.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## President Carnot Rose.

We won First Premium with this rose at the great International ... **W. W. COLES**, Maple Hill Farm, Kokomo, Ind.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## LOOK HERE!

The following plants are in A condition. **ROSES**, out of 4 in. pots, ... **C. MERKEL & SON**, Mentor, Ohio.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## 25,000 Flowering Begonias

Rooted CUTTINGS. Argentea Gattata, Metallica, Nidula Alba, ... **A. B. DAVIS & SON**, (Near Washington, D. C.)

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## FUCHSIAS! FUCHSIAS!!

Rooted cuttings, in flats, at the latest and best arrangement, at least ten varieties ... **HEADQUARTERS FOR COLEUS**

Crimson Verschaffelti and Golden Queen, ... **J. E. PELTHOUSE**, Schenectady, N. Y.

## YOUNG ROSES.

1200 each of Brides and 'Maid, out of 2 1/2 in. pots, strong. I grew this stock to plant myself ... **GEO. A. RACKHAM**, 880 Van Dyke Ave., - DETROIT, MICH.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## REINBERG BROS.

Strong, Healthy ROSES From 2 1/2 inch pots,

**AMERICAN BEAUTY** and **TESTOUT**, ... **Rose Cuttings, \$1.50 per 100; American Beauty, \$2.50 per 100.**

## CARNATIONS—Rooted Cuttings.

**IVORY** and **DELLA FOY** \$3.00 per 100; ... **51 WABASH AVE., CHICAGO, ILLS.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## ROSES! ROSES!!

**STRONG FIELD-GROWN DORMANT PLANTS.**

Large stock Gen. Jacqueminot, Paul Neyron, Ulrich Brunner, Magna Charta, ... **MOSS ROSES** in the ten best sorts, \$9.00 per 100.

## CANNAS.

New Giant Flowered AUSTRIA, strong, 4 in. pot plants, ... **CALADIUM ESCULENTUM.** Sound bulbs with good centers, 7 1/2 to 10 in., \$5 per 100.

## BEGONIA PURITY.

A new pure white of the semperflorens type, very free flowering, \$2 per doz.

## GERANIUMS.

Strong 2 1/2 in. pot plants, large stock of S. A. Nutt, ... **THE STORRS & HARRISON CO., Painesville, Ohio.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## ...ROOTED... ROSE CUTTINGS.

Healthy, well-rooted cuttings from the best flowering wood. **Meteor, Siebrecht, Wootton, Sunset, Perle, Bride, Bridesmaid,** \$1.50 per 100. **Testout, \$3.00 per 100. Beauty, \$2.50 per 100.** **L. L. MAY & CO., - St. Paul, Minn.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## ROSES . . .

From 2 1/2 in. pots, strong and in excellent shape. **Bride, Hydramind, H. M. Wagner, H. Niel, Marie Grollor, Mary Washington, Louisi, Richard, Pink Souper, Grimsom Rambler and Climbing Souper.** **EMPEROR OF CHINA**—The new everblooming hardy pink Climbing Rose, grows as rapidly as a Morning Glory; bound to become popular. **... GERANIUMS . . .** The very best varieties, strong plants from 3 1/2 in. pots, ready to shift roots. **... J. A. DOYLE, - Springfield, Ohio.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## ROSES. HIBISCUS AND GERANIUMS.

Roses, Strong plants, 2 1/2 in. pots, \$25 per 100; \$100 per 100 by mail, \$12.50 per 100 additional. **AGrippina, Archduke Charles, Bosc, Bride, C. Jacqueminot, D. Albany, Dr. Grollor, E. de la Roche, Ernest Metz, Etienne de Lyon, Folkston, G. de la Roche, Henry M. Stanley, La France Vera, La Favorite, Nemacochet, White La France** **Maria Van Houster, Medin, Robert, Wm. G. Jamille, Mrs. Grollor, Mrs. Jos. Schwartz, Mrs. M. Grollor, Mrs. Margerita, Mrs. M. Grollor, Papa Grollor, Princess of Sagan, Free, Grollin, Queen's Scaplet, Snow Flake, Somersell, Striped La France, White La France** **White La France** **White Hugo, White La France** **TERMS CASH WITH ORDER.** **R. H. MURPHEY, Urbana, Ohio.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## THREE NEW RAMBLERS

Companions to Grimson Rambler. **AGLAI, or YELLOW RAMBLER.** The only hardy yellow climbing rose. Has withstood 2 degrees below zero unprotected. **EUPHROSYNE, or PINK RAMBLER.** A clear light red. **THALIA, or WHITE RAMBLER.** Pure white.

Send for free color type plate and descriptive circular of Azalea. Every florist should handle these three important novelties. Strong plants from 2 1/2 inch pots, ready March 1st. \$2.00 per 100, \$20.00 per 1000. **Send for Trade List of hardy, field-grown Roses, Shrubs, Ornamental and Fruit Trees, small Fruit Plants, etc.**

## JACKSON & PERKINS CO., NEWARK, NEW YORK.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Thanks, Yellow Marguerite all sold that are rooted. **HENRY NEHER,** Gouverneur, N. Y., Feb. 5, 1897.

## The Seed Bill of Distribution is to be Hatched.

Every florist, as well as every seedsman, every seed grower as well as every man who plants seeds for a living, should make his duty, immediately on receipt of this copy of the **FLORISTS' EXCHANGE** (if he has not already done so), to write a concise and pointed protest to his Congressman, against the further distribution of Government Free Seeds.

As pointed out in previous issues, the distribution is a startling and serious menace to an industry which, more than any other, has contributed to the advancement and welfare of the nation.

A unanimous and urgent protest **AT THIS TIME**, will have its effect. Write to the home address of your Senators and State Congressmen as published in this issue. Write now.

A joint meeting of all seedsmen has been convened to meet in Washington, March 2, to discuss legislation now before Congress affecting their interests.

PHILADELPHIA, Feb. 24.

Editor Florist's Exchange:

Dear Sir:—In replying to yours of Feb. 23, would say that I have already sent you a copy of my statement, as President of the American Seed Trade Association, who, next to ourselves, is the largest commercial contractor, above all others, in relation to the continued free distribution of seed. I have also previously forwarded to you copy of telegram received from L. L. May & Co., and have received a letter from H. W. Buckbee, another contractor, who is interested in the continued free distribution of the Government Seed Distribution.

This morning I received another vigorous letter from Hon. J. Sterling Morton, a copy of which I inclose to you, together with a copy of my answer. We, seedsmen, and agriculturists generally, should certainly feel gratified that we have such a powerful "friend at court." From the fact that the President has signed the bill, it is to be expected that "the President declined to sign the last agricultural appropriation bill, containing a number of provisions relating to the continued free distribution of seed, last year," I think we may hope that he will also decline to sign the bill now before Congress, and it is time to make an immediate and vigorous protest to the members of Congress, and to the President, and to the Secretary of Agriculture, that you urge every florist, as well as every seedsman, to write immediately a letter to their respective members of Congress at Washington. You can readily show to the florist readers of the "Exchange" that this system of Government paternalism, while not yet affecting them as disastrously as it does the seedsmen, MUST BE STOPPED, or we cannot tell where it will end.

W. ATLEE BURPEE.

Messrs. L. L. May & Co., St. Paul, Minn., telegraphed Mr. Burpee their opinion as to the Free Seed Distribution as follows: "strongly opposed to it. Continued Government distribution means ultimate ruin to the seedsmen of America."

United States Department of Agriculture,  
Office of the Secretary,  
Washington, D. C.,  
Feb. 23, 1917.

Dear Sir:—Replying to your several communications of the 21st and 20th inst., I have to acknowledge the receipt of proof of the number printed in the "Exchange" entitled "The Free Seed Distribution Must Be Abolished." Likewise a copy of a letter to Hon. William C. Clegg, in which you state which have been sent to Senators Cullum and Quay and the Representatives containing the same. You may remember that the President declined to sign the Agricultural Appropriation bill, containing the provisions for a gratuitous seed distribution feature last year. He has not yet signed this bill. The next Congress will convene the 1st of July, and no harm could come to the bill if the bill should not be passed, though, of course, we have no information as to whether it will be or not, nor do I authorize to speak upon that question.

The "Florists' Exchange" has taken the case very earnestly and sensibly, and presents the case with great interest and lucidity. Its editor is evidently a gentleman of ability who knows how to state his

case vigorously and clearly. Very respectfully,  
Yours,  
(Signed) J. STERLING MORTON,  
Secretary.

February 24, 1917.

Hon. J. Sterling Morton, Secretary of Agriculture, Washington, D. C.

Dear Sir:—I have the honor to receipt today of your courteous favor of Feb. 23, I can do better in expressing my appreciation of the same than I can in the trade generally of your continued efforts to do away with the promiscuous seed distribution by the Board of Agriculture.

I have been from home in agricultural work for the past two weeks. Returning last night some of the 15th inst. with clippings relating to my forty-two-year friend, Sterling Morton. Jealous rivals may protest if they please, but I will leave the Cabinet office of Secretary of Agriculture having accomplished more practically than all other predecessors combined.

I remember distinctly that the last two agricultural bills containing the promiscuous and gratuitous seed distribution features were not signed by the President, and the signed bill I learn that he has not signed this bill. From the fact that the President declined to sign the two previous bills I think that we have reason to hope that if they please, he will leave the thought of course, as you say, you "have no intimation as to whether it will be or not."

I am very glad that you approve of the bill, and that you are the editor of the "Florists' Exchange," to whom I am sending a copy of your letter today, with the request that he urge his readers to write immediately to their members of Congress protesting against the continued free distribution of seeds. As the "Florists' Exchange" reads not only of seedsmen, but also thousands of florists and horticulturists throughout the country, I am in hopes that a vigorous editorial urging the immediate writing of such letters to the majority of members of Congress, will be the most popular measure which they seem to consider.

Beside leading editors from papers already forwarded to you I have noticed that a number of prominent local papers, the "Daily True American" of Trenton, N. J., Feb. 12, devoted nearly a column to the subject, and the "Herald" and "Editor" express tersely the objection to the bill in the following terms: "The whole business is the attempt of the Government to get back upon the old Jacksonian foundation of the people of the United States Government to strict limits prescribed by the Constitution, leaving us people to buy their own seeds, to build their own plants and provide their own banking facilities the better it will be for the Government and the people who have to put up the money to support it."

W. ATLEE BURPEE.

The following summary of the situation to date calls for careful reading and important action. The home addresses of the Representatives of the House of the Fifty-fifth Congress is given in another column, and these gentlemen are the ones to be written to.

WASHINGTON, February 24, 1917.

Editor Florist's Exchange:

The Agricultural Appropriation Bill will not be decided, as the President has not yet received the bill, and the Constitution prescribes that a bill may become law

without the assent of the President in ten days, or he may return it to the Senate inside of that time with his veto.

New the ten days will not expire before the end of the present administration, and even should the President receive this bill tomorrow, he will not return it with his action with reference to the two previous Agricultural Appropriation Bills, which will be returned to the President with his veto. Thus, the bill will die without action, and the new Congress will be obliged to pass it. It is now the time for the seed trade to bestir themselves, and urge the Congress to turn down the Seed Appropriation Bill.

Will you kindly urge vigorously that every florist and seedsman should help by writing immediately a letter of protest to his new Members of Congress, insisting that they vote against the bill appropriation when it comes up for consideration.

An special effort could certainly be made with the seed members in all the localities where there are any seed houses. For instance, New York has sixteen city districts, and if the seedsmen of New York and other cities will go to the Congress in person, and insist that they have no use for seeds, they vote against the bill, and request that they work for it, they will be able to get enough votes, in addition to the members who voted against it in the present Congress, to completely stop it.

You are probably aware that the new Bill provides that a member can have any kind of a bill, and that he asks for this. If this is carried out, we will practically have a free Shop where a man can send to his Representative for just what he desires and get it. This will be a great advantage to the consumer, but a great deal worse than it is now, and may completely ruin the trade.

W. ATLEE BURPEE.

### Buds to Be Datable.

Rumor has it, on pretty good authority, that bulbs and all bulbous roots will be included in the new tariff bill among the articles to be taxed at the rate of 30 per cent, if not more. Let florist-dealers take a timely warning when they see anything like this, and endeavor to place new orders. Will the Dutchman pay the duty for the florist and advance the cost of his goods to his customers 30 per cent? And how will the dealer like to pay 20 per cent or more on seeds, which are not in the general market, have to be slaughtered for less than the duty? Order gently, gentlemen, will be the right motto.

R. W.

Rochester, N. Y.

Charles and George F. Crossman, comprising the firm of Crossman Brothers, to-day (Feb. 24) made a general assignment to Henry B. Hathaway. Preferences named aggregate \$26,000. Aside from these, the extent of the firm's liabilities is not known, but it is thought that they will swell the total to about \$45,000.—New York Sun.

**Farflung Catechism.**—This is an exceedingly interesting pamphlet, containing fifty questions on the subject of the tariff on seeds, which has been distributed by D. Landreth & Sons, Philadelphia. Those who are interested in the subject will find the pamphlet well worth reading.

### European Notes.

Now that the continuous rains have cleared away the snow we are able to form a fair idea as to the condition of the land done to our growing plants. Unfortunately early turnips appear to have suffered more than any other crop, and many of their plants are entirely perished, and where they are not completely destroyed those left standing are so badly injured as to be practically useless. Such varieties as the Milan, Munich and Strap-leaved cannot by any means be expected to give a good crop of arangel for, and unless a change for the better specially takes place this will be a very serious loss to the growers. Rutabagas are also looking very sickly, but, at present, the loss of these does not cause any serious concern. Asparagus, asparagus and broccolis have also suffered greatly, and with the short breads left standing in the ground, it is a surprise of any one of them next season.

The later consignments of Lilium auratum, which are arriving in large quantities, while the roots are unusually large. Reports on the new yellow Chinese Lilium, which is the most desirable of any one of them next season.

will quickly be in high demand.

The yellow-anthered Lilium is an album is clearly a distinct variety and can be easily distinguished by the shape of the root.

Whether it will be as valuable to florists as the introducers claim is an open question. It is the subject of a program arranged to remove the anthers from existing flowers for sale. EUROPEAN SEEDS.

James Vetch & Sons, Limited, Chelsea, England, have been registered by Vallance & Vallance, No. 29 Essex Street, Strand, with a capital of £100,000 in 10 shares of £10,000 preference and 7,000 ordinary. The object of the company is to acquire the goodwill of the business of Messrs. Vetch, Hill, Surrey and Langley, and other connected businesses carried on at King's Road, Chelsea, Fulham, Coombe Wood, Kingston Hill, Surrey and Langley, Buckinghamshire, or elsewhere, under the style or firm of James Vetch & Sons.—English Paper.

The following is a list of the Senators and Representatives composing the new Fifty-fifth Congress. We advise every florist to write to each of them, and to his own Senators and Congressmen, at the home addresses herein furnished.

SENATORS.

Alabama.....	John T. Morgan, Selma.
Arkansas.....	E. W. Pettus, Selma.
California.....	John P. Jones, San Jose.
Colorado.....	Edwin S. Wallace, Denver.
Connecticut.....	Henry M. Teller, Central Islip.
Delaware.....	Joseph R. Hawley, Hartford.
Florida.....	Samuel Pasco, Newtontown.
Georgia.....	Augustus O. Bacon, Macon.
Illinois.....	William M. Cullum, Springfield.
Indiana.....	William E. Mason, Chicago.
Iowa.....	Charles Warren Fairbanks, Indianapolis.
Kansas.....	William B. Allison, Davenport.
Kentucky.....	John H. Barker, Burlington.
Louisiana.....	Lucien B. Gear, Leavelle.
Maine.....	William Lindsay, Frankfort.
Maryland.....	Samuel Douglas McEnery, New Orleans.
Massachusetts.....	Edward F. Ellisworth, Lowell.
Michigan.....	William F. Rice, Lewiston.
Minnesota.....	George F. Wellington, Cumings.
Mississippi.....	George F. Hoar, Worcester.
Missouri.....	Henry Cabot Lodge, Nahant.
Montana.....	James McMillan, Butte.
Nebraska.....	Julius C. Burrows, Kalama.
Nevada.....	Cushman K. Davis, St. Paul.
New Hampshire.....	James McMillan, Butte.
New Jersey.....	James Z. George, Carrollton.
New York.....	Edward C. Whitham, Green.
North Carolina.....	Francis M. Cockrell, Warren.
North Dakota.....	George G. Vest, Kansas City.
Ohio.....	Lee Sharpe, Blue.
Oregon.....	Heleah.
Pennsylvania.....	William V. Allen, Madison.
Rhode Island.....	William M. Stewart, Carson.
South Carolina.....	John P. Jones, Hill.
South Dakota.....	William E. Chandler, Con.
Tennessee.....	Joseph H. Gallagher, Concord.
Texas.....	William J. Sewell, Trenton.
Vermont.....	Thomas C. Platt, Troy.
Virginia.....	Marion Butler, Raleigh.
Washington.....	William C. Clegg, Wash.
West Virginia.....	William N. Roach, Lark.
Wisconsin.....	Henry C. Hanrough, Des Moines.
Wyoming.....	John Shanley, Minn.
	John S. Hanrough, Minn.
	Joseph B. Foraker, Cin.
	George W. McBride, St.
	Matthew S. Quay, Beaver.
	Robert Peacock, Philadelphia.
	George W. Pettore, New.
	Joseph B. Foraker, Minn.
	Edward R. Tiltman, Trenton.
	Joseph H. Earle, Greenville.
	Richard F. Pettigrew, Wash.
	Edward F. Harris, Memphis.
	William B. Tate, Nashville.
	James H. McMillan, Wash.
	Horace Clifton, York.
	Frank J. Cannon, Ogden.
	James H. McMillan, Wash.
	Redford Proctor, Proctor.

THE FLORISTS' EXCHANGE.

Virginia..... John W. Donald, Lynchburg.  
Thomas S. Martin, Scottsville.  
Washington..... John L. Wilson, Spokane.  
West Virginia..... Charles J. Faulkner, Elkins.  
Wisconsin..... John L. Mitchell, Milwaukee.  
John F. Souter, Hudson.  
Wyoming..... Francis E. Warren, Cheyenne.  
Clarence D. Clark, Evanston.

REPRESENTATIVES.

Alabama..... George W. Taylor, Demopolis.  
Thomas C. McEae, Prichard.  
Greenville..... Henry D. Clayton, Eufaula.  
T. S. Plovman, Talladega.  
Willis Brewer, Hayzeville.  
John H. Hancock, Fayetteville.  
Milford W. Howard, Fort Payne.  
Joseph Wheeler, Wheeler.  
Oscar W. Underwood, Birmingham.  
Arkansas..... Philip D. McCulloch, Heber.  
John S. Little, Greenwood.  
Thomas C. McEae, Prichard.  
William L. Terry, Little Rock.  
California..... Hugh A. Dinsmore, Fayetteville.  
Robert Brundidge Jr., Searcy.  
John A. Barham, Sonoma.  
Marion De Vries, Stockton.  
Samuel G. Hillborn, Oakland.  
James G. Nassau, San Francisco.  
Bogues F. Louf, San Francisco.  
C. A. Barlow, San Miguel.  
John H. Castle, Merced.  
George F. Shaffert, Denver.  
John C. Bell, Montrose.  
Connecticut..... E. Stevens Henry, Vernon.  
Charles W. D. Sperry, New Haven.  
Charles A. Russell, Killingly.  
Eugene J. Hill, Norwalk.  
Delaware..... Irving Levin Hand, Newark.  
Florida..... Stephen M. Sparkman, Jacksonville.  
Robert W. Davis, Palatka.  
Rufus E. Lester, Savannah.  
James M. Briggs, Dawson.  
F. Lewis, Milledgeville.  
William C. Adams, Carrollton.  
Louisiana..... Leonidas F. Livingston, Elmer.  
Charles L. Bartlett, Macon.  
John W. Addicks, New Orleans.  
William M. Howard, Lexington.  
Parish Carter Tate, Jasper.  
William H. Fleming, Augusta.  
William G. Brasley, Brunswick.  
Idaho..... James Gunn, Boise City.  
John R. Main, Chicago.  
William Lorimer, Chicago.  
Hugh R. Holman, Chicago.  
David W. Mills, Chicago.  
George E. White, Chicago.  
Edward D. Cooke, Chicago.  
George E. Pox, Chicago.  
Albert J. Hopkins, Aurora.  
Robert R. Hill, Mount Morris.  
George W. Prince, Galeville.  
Walker Reeves, Sreator.  
Joseph G. Canby, Daville.  
Vespasian Warner, Clinton.  
Joseph V. Graf, Dubuque.  
Benjamin F. Marsh, Warsaw.  
William H. Horchman, Jacksonville.  
James A. Connolly, Springfield.  
Thomas M. Jetz, Hillsboro.  
Andrew J. Hunter, Paris.  
James E. Campbell, McAlester.  
John Baker, Belleville.  
George W. Smith, Murphysboro.  
Indiana..... James A. Hemenway, Boonville.  
Robert W. Miers, Bloomington.  
William T. Zetter, Corydon.  
William S. Heaman, Terre Haute.  
George W. Faria, Terre Haute.  
Henry C. Johnson, Richmond.  
Joseph Overstreet, Frankfort.  
Charles L. Fryer, Anderson.  
Charles B. Leitch, Deloit.  
E. D. Crumacker, Valparaiso.  
George W. Steele, Marion.  
James M. Robinson, Fort Wayne.  
Iowa..... Lemuel W. Royce, Warsaw.  
William M. Clark, Keosau.  
George M. Curtis, Clinton.  
David B. Henderson, Dubuque.  
Thomas Undergrad, Mt. Greary.  
Robert G. Cousins, Tipton.  
John P. Lacey, Oskaloosa.  
John A. Hull, Des Moines.  
William P. Hepburn, Chanda.

Ala. L. Hager, Greenfield.  
Jonathan P. Dilliver, Fort Dodge.  
George D. Perkins, Sioux City.  
Kansas..... Jeremiah D. Botkin (at large), Winfield.  
Case Brodiger Holton, M. S. Peters, Kansas City.  
E. R. Bridget, Pittsburg.  
Charles Curtis, Topeka.  
William D. Vincent, Clay Center.  
N. M. McCormick, Phillipsburg.  
Jerry Simpson, Medicine Lodge.  
Kentucky..... Charles K. Wheeler, Paducah.  
John Henry Clady, Newstead.  
Jacob S. Rhea, Russellville.  
David H. Smith, Hodgenville.  
Albert S. Barry, Newport.  
Evan E. Settle, Owenton.  
George M. Davison, Stanford.  
Samuel J. Pugh, Vaneburg.  
Thomas V. Fricpatrick, Proletourg.  
David G. Colson, Middletown.  
Louisiana..... Adolph Meyer, New Orleans.  
Robert G. Davoy, New Orleans.  
Robert Brundidge, New Iberia.  
Henry W. Osgood, Baston.  
S. P. Baird, Bastrop.  
Samuel M. Robertson, Baton Rouge.  
Maine..... Thomas B. Reed, Portland.  
William Dingley Jr., Lewiston.  
Isab L. Milliken, Belfast.  
Charles A. Boudler, Bangor.  
Edward A. Barber, Easton.  
William B. Baker, Rockland.  
William S. Boice, Bangor.  
William W. McIntire, Baltimore.  
Sidney E. Mudd, Laplata.  
John McDonald, Rockville.  
Andrew B. Wright, North Adams.  
Frederick H. Gillet, Springfield.  
Joseph H. Walker, Westchester.  
George W. Weymouth, Vero Beach.  
William S. Knox, Lawrenceville.  
William H. Moody, Haverhill.  
William E. Barrett, Melrose.  
Samuel W. McCall, Winchester.  
John F. Fitzgerald, Boston.  
Samuel J. Barrows, Boston.  
Charles F. Sprague, Boston.  
William C. Lovering, Taunton.  
John Simpkins, Yarmouth.  
John B. Corliss, Detroit.  
George Sealdin, Detroit.  
Albert M. Todd, Kalamazoo.  
Edward L. Hamilton, Kalamazoo.  
William Alden Smith, Grand Rapids.  
Samuel W. Smith, Pontiac.  
Horace G. Saver, Fort Saginaw.  
Michigan..... Ferdinand D. Brueker, Saginaw.  
Rowell P. Champ, Ladington.  
Ressauo O. Brumbay, Bay City.  
William S. Mesick, Mancelona.  
Charles D. Sheldon, Houghton.  
Minnesota..... James A. Tawney, Winoona.  
James T. McHenry, Mankato.  
John F. Hestwaite, Mankato.  
Frederick C. Stevens, St. Paul.  
Loren Fletcher, Minneapolis.  
Frank M. Eddy, Greenwood.  
John M. Allen, Tupper.  
Will V. Sullivan, Ogdensburg.  
Thomas C. Catchings, Vicksburg.  
A. F. Fox, West Point.  
John S. Williams, Tazoo City.  
W. P. Love, Ogdensburg.  
Wisconsin..... Patrick Henry, Brandon.  
Robert N. Bodine, Paris.  
Alward M. Dookery, Gal. Little.  
Charles F. Cochran, St. Joseph.  
William S. Cowherd, Kansas City.  
James A. De Armond, Butler.  
David A. Conroy, Marshall.  
Richard P. Land, Lebanon.  
Champer Clark, Bowling Green.  
Richard Barchmidt, St. Louis.  
Charles F. Joy, St. Louis.  
Charles E. Pearce, St. Louis.  
Edward Robt. Ferryville.  
Willard D. Vaidner, Cape Girardeau.  
Montana..... H. M. Benton, Needho.  
Charles S. Hartman, Bozeman.  
Nebraska..... David H. Strode, Lincoln.  
James H. Mercer, Omaha.

Samuel Maxwell, Fremont.  
William L. Stark, Aurora.  
Roderick D. Sutherland, Nelson.  
Nevada..... William L. Greene Kearney.  
Francis G. Newman, Reno.  
New Hampshire..... Cyrus A. Sullaway, Manchester.  
New Jersey..... Frank G. Clarke, Peterboro.  
Henry C. Loudenlager, Peterboro.  
John J. Gardner, Atlantic City.  
Benjamin F. Howell, New Brunswick.  
Mablen Pletney, Morristown.  
James P. Stewart, Paterson.  
Richard W. Parker, Newark.  
Thomas McEwan Jr., Jersey City.  
Charles N. Fowler, Elizabeth.  
Joseph M. Belford, Riverhead.  
New York..... Dennis M. Hurley, Brooklyn.  
Francis H. Wilson, Brooklyn.  
Israel F. Fischer, Brooklyn.  
Charles G. Bennett, Brooklyn.  
John H. Howe, Brooklyn.  
John H. G. Veshage, New York city.  
John Murray Mitchell, New York city.  
Thomas S. Bradley, New York city.  
Amos J. Cummings, New York city.  
William Sulzer, New York city.  
George B. McClelland, New York city.  
Richard C. Shannon, New York city.  
Lemuel E. Quigg, New York city.  
Philip B. Low, New York city.  
William L. Ward, Port Chester.  
Dwight M. Odell Jr., Newburgh.  
John Henry Ketcham, Dover Plains.  
Aaron V. S. Cochrane, Hudson.  
George N. Southwick, Albany.  
David F. Wilber, Oneonta.  
Luella N. Littauer, Gloversville.  
Wallace T. Foote Jr., Port Henry.  
Charles A. Chickering, Coxsack.  
James S. Sherman, Utica.  
George W. Ray, Norwich.  
James J. Elden, Syracuse.  
Serevo E. Payne, Auburn.  
Charles W. Gillet, Addison.  
Henry W. Wadsworth, Genesee.  
James C. Brewster, Rochester.  
Rowland B. Mahany, Buffalo.  
De Alva S. Alexander, Buffalo.  
Warren B. Hooper, Fredonia.  
Harry Skinner, Greenville.  
George E. White, Tarkenton.  
John E. Fowler, Clinton.  
William E. Seward, Pittsboro.  
William W. Kitchin, Richwood.  
Charles H. Martin, Polkton.  
A. C. Shafter, Hickory.  
Konulus Z. Linzey, Taylorsville.  
Richmond Pearson, Asheville.  
North Dakota..... Martin N. Johnson, Petersburg.  
Ohio..... William B. Shattuck, Madisonville.  
Jacob H. Bromwell, Cincinnati.  
John L. Breuner, Dayton.  
George A. Marsh, Cincinnati.  
David Meckell, Napoleon.  
Seth W. Bravel, Lebanon.  
Walter L. Weaver, Springfield.  
Archibald Lybrand, Delaware.  
James H. Southard, Toledo.  
Lucien J. Fenton, Winchester.  
Chas. H. Greaveser, Athens.  
John J. Lentz, Columbus.  
James A. Norton, Tiffin.  
Winfield S. Kerr, Mansfield.  
Henry C. Van Over, Zanesville.  
Lenna Danford, St. Clairsville.  
John A. McDowell, Millersburg.  
Robert W. Taylor, New Lisbon.  
Stephen A. Northway, Jefferson.  
Clifton B. Beach, Cleveland.  
Theodore B. Burton, Cleveland.  
Oregon..... Thomas H. Tongue, Hillsboro.  
William R. Ellis, Heppner.  
Pennsylvania..... Galusha A. Grow (at large), Erie.  
Samuel A. Davesport (at large), Erie.  
Henry H. Bingham, Philadelphia.

Robert Adams Jr., Philadelphia.  
William McKeigh, Philadelphia.  
James R. Young, Philadelphia.  
Alfred C. Harmer, Philadelphia.  
Thomas S. Butler, West Chester.  
Irving P. Waeger, Norrisburg.  
Wm. S. Kirkpatrick, Easton.  
Marcelo Erosola, Lancaster.  
William Conner, Scranton.  
Morgan B. Williams, Wilkes-Barre.  
Charles N. Drumm, Mircersville.  
Marlin E. Olmstead, Harrisburg.  
James H. Coddling, Towanda.  
Edward E. Packer, Wallingboro.  
Marce H. Kuhl, Shamokin.  
Thaddeus M. Mahon, Chambersburg.  
George L. Deuser, Gettysburg.  
Josiah D. Hicks, Gettysburg.  
Edward E. Robbins, Gettysburg.  
John Deibel, Pittsburg.  
William A. Stone, Allegheny.  
Ernest F. Acheson, Washington.  
John C. Sturtevant, Conneautville.  
Charles W. Stone, Warren.  
William C. Arnold, Du Bois.  
Mellville Ball, Middletown.  
Adin B. Capron, Stillwater.  
William Ellis, York.  
W. Jasper Talbert, Parkersburg.  
Asbury C. Lathner, Belton.  
Stamys J. Lusk, Spartanburg.  
Thomas J. Strait, Lancaster.  
John L. McLanar, Gettysburg.  
J. William Stokes, Orangeburg.  
South Dakota..... John E. Keeley (at large), Deadwood.  
Freeman Knowles (at large), Deadwood.  
Tennessee..... Walter P. Gibson, Jonesboro.  
Henry R. Brown, Knoxville.  
John A. Moon, Chattanooga.  
Benjamin McMillan, Murfreesboro.  
James D. Richardson, Murfreesboro.  
John Wesley Gaines, Nashville.  
Nicholas N. Cox, Franklin.  
Theus W. Sims, Linden.  
Rice A. Pierce, Memphis.  
E. W. Carmack, Memphis.  
Texas..... Thomas H. Bell, Houston.  
John Brown Cooper, Woodville.  
R. C. De Graffenaar, Longview.  
John W. Cranford, Sulphur Springs.  
Joseph W. Bailey, Galveston.  
R. E. Burke, Dallas.  
Robert L. Henry, Waco.  
Samuel W. T. Latham, Weatherford.  
Joseph D. Sayers, Bastrop.  
R. H. Hawley, Galveston.  
Eudolph Kichery, Cuero.  
James L. Shlayden, San Antonio.  
Utah..... John H. Stephens, Ferrisville.  
Vermont..... William H. King, Proctor.  
Virginia..... Henry Powers, Ferrisville.  
William W. Grant, Barton.  
William A. Jones, Warsaw.  
John A. Hines, Norfolk.  
John Lamb, Richmond.  
Sydney P. Epps, Blackstone.  
Claude A. Swanson, Chatham.  
Peter J. Otis Lynchburg.  
James Hay, Madison C. H.  
John F. Kixey, Bayboro.  
James A. Walker, Wytheville.  
Jacob Yost, Staunton.  
Washington..... James Hamilton Lewis (at large), Spokane.  
William C. Jones (at large), Spokane.  
West Virginia..... Blackburk B. Doyener, Wehler.  
Anton G. Dayton, Philippi.  
Charles P. Dorr, Addison.  
James Miller, Charleston.  
Wisconsin..... Henry A. Cooper, Racine.  
Edward Sauerberg, Neysville.  
John W. Babcock, McClary.  
Theobald Otjen, Milwaukee.  
Samuel S. Barney, West Bend.  
James H. Davidson, Oshkosh.  
Richard Griffin, Eau Claire.  
Edward S. Miner, Sturgeon.  
Alexander Stewart, Wausau.  
John J. Jenkins, Chippewa Falls.  
Wisconsin..... John E. Osborne, Wausau.

TUFF STUFF ON GREEN FLV IS TOBAC-OIL.

**Grand Rapids, Mich**

The last meeting of the club was devoted to violets, as advertised, and the sweet flowers related supreme, from royal blue to white. The gathering was a whole, was entirely satisfactory and instructive. Such meetings bring the members closer together, and we have better attendances.

The following varieties were on exhibition: Marie Louise, Lady Hume Campbell, Swallowtail, and California, and California. Henry Smith read an able paper on the violet from the runner to the picking stage, which was very interesting.

The writer had the pleasure of visiting Mr. Smith's violet houses. He grows nothing but Marie Louise, a white, coming to grand sight. He is cutting about three thousand a week from three houses, each sixty feet long. He advocates solid benches, takes the each of in June and plants his violets in the benches, putting the sack back when the weather gets cool in the fall.

The Grand Rapids Floral Company and Crab & Hunter exhibited Lady Hume Campbell, very large flowers.

Harry Stover, of Muskegon, Mich, died very suddenly, Feb. 18, of paralysis. He was 70 years old the florist and a retail business at Muskegon about four years. He started in the florist trade with E. Y. White, of Grand Rapids, in 1874, and coming to Grand Rapids in 1883. Ten years later he went to Muskegon. Deceased leaves a widow and children.

Wesley Culverski and F. A. Chapman had a severe attack of grip, but at present he is out of the bed.

Trade has been very good the past two weeks. Downtown stores report they cannot get sufficient flowers to supply the demand. Carnations have been coming in in very fine condition. Roses have been off color, are looking fine and will soon be plentiful.

March 2 the club goes to Grand Haven, and all members will be present. The guest is George Hancock & Son, the veteran carriage owners of Michigan.

N. B. STOVER, Sec.

**Montreal.**

Your correspondent here has had a long spell of sickness, which will account for the dearth of news for some time past from the metropolis of the Dominion.

Members of the craft here are very much interested in the coming of the winter, and rebuilding and adding to existing plants and stocks generally.

W. S. Bain reports an excellent health and has completed a block of houses at Lachine, but, as with all others, both small and large, he thinks he has not enough and will extend this coming spring.

A. Marin has purchased a new property and will erect a range of houses thereon, vacating his present location.

Walt Wilsbire is cutting some good stock. He is to be congratulated upon the fact of winning his suit against the Water Company, but the damages assessed, even if paid, are hardly adequate for the loss in stock and time involved.

Wilsbire Brothers are bringing in some fine white stock.

S. S. Bain and Collin Campbell are having a goodly share of decorative orders. The former gentleman reports an exceedingly brisk run on funeral work of late.

Miss Murray continues to preside over the flower store of J. S. Murray, who takes great pride in raising old-fashioned stock. His garden in summer is a picture.

Beautiful double and single Kingings are being so freely claimed just now, he feels entitled to be called the Violet King of Canada. Certainly he is raising excellent violets, both double and single.

B. T. Groves reports heavy sales of popular plants, many of which he raises large numbers, and does them well.

F. McKenna & Son have a corner on the stock market, and so to speak, business recovers across the border the boys in this live and pretty place will feel the benefit of the improvement. W. M.

**St. Albans, Vt.**

Henry Bryant finds he can buy roses cheaper than he can raise them, so will throw out his stock and increase the area of culture. He has contracted shipping business. W. M.

**EXTRA REVOLUTA...**

The true long leaf variety, just arrived. Stems from 2 inches long, upwards, \$1.00 per 100 lbs., great reduction on quantities. Prices on all bulbous and decorative stock given by correspondence.

**F. W. O. SCHWITZ, - - - JERSEY CITY, N. J.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Nephrolepis Exaltata Bostoniensis.**

In large and small quantities for Spring delivery, from \$40.00 to \$80.00 per 1000. Mine is the genuine stock.

**FRED. C. BECKER, - - - 1730 Cambridge Street, CAMBRIDGE, MASS.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Let the Good Work Go On.**

My advertisement in the Florists' Exchange is getting in good work so let it roll.

C. HUMFRED,  
Clay Center, Kans., Feb. 18, 1897.

**Galax Leaves.**

**CHAS. H. RICKSECKER, Livinle, N. C.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CANNAS and DAHLIAS**

See our advertisement, page 158, Feb. 12th issue.

**ROWEH & GRANZ, - - - Hicksville, N. Y.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**VEGETABLE PLANTS.**

**LETTUCE**, like Boston and Grand Rapids, 10 cts. per 100. \$1. per 1000.

**CABBAGE**, Jersey Wakefield and other varieties, 10 cts. per 100. \$1. per 1000.

**TOMATOES**, New ready small plants for transplanting. Extra Early Red, Royal Red, Stone and Perfection, 10 cts. per 100. \$1. per 1000.

**ICE MICH, PEPPER and CALIFLOWER PLANTS**, 10 cts. per 100 on application.

Each with order, please.

**R. VINCENT JR. & SON, White Marsh, Md.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Trade List for 1897**

FREE ON APPLICATION.

**SEAWHAKA GREENHOUSES**

Oyster Bay, L. I., N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Gladioli . . .**

THE BEST IN AMERICA.

Geraniums, 'Mams, Carnations, etc.

Write for prices.

**BETSCHER BROS.,**

Canal Dover, O.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**ADIANTUM CUNEATUM.**

STRONG AND BUSHY.

3 in. \$6 per 100; 2 1/2 in. \$3 per 100; \$25 per 1000

Cash with Order.

**CHAS. F. BAKER, Utica, N. Y.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**FERNS**

Strong, bushy plants of five good varieties, suitable for terreries.

2 inch pots, \$3.00 per 100; \$25.00 per 1000.

3 inch pots, \$5.00 per 100; \$50.00 per 1000.

Please Remit With Order.

**JOHN WELSH YOUNG, Germantown, Pa.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CHEAP PALMS!**

	inch	inch	inch	inch
	pot	pot	pot	pot
Arcaea Luiseana	3-4	2-3	2-3	\$0.50
Geophila Australis	3-4	2-3	2-3	\$0.50
	3-4	2-3	2-3	\$0.50
	3-4	2-3	2-3	\$0.50
Latania Horneum	3-4	2-3	2-3	\$0.50
Phoenix Casuarina	3-4	2-3	2-3	\$0.50
	3-4	2-3	2-3	\$0.50
	3-4	2-3	2-3	\$0.50
Recipitata	3-4	2-3	2-3	\$0.50
	3-4	2-3	2-3	\$0.50
	3-4	2-3	2-3	\$0.50
	3-4	2-3	2-3	\$0.50

Send for list of other varieties and prices.

**W. J. HESSER, Plattsmouth, Neb.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**LARGEST STOCK OF PEACH TREES**

In the State of Delaware.

For the spring trade one year from bud, see Java Scenic and Yellows have never been known in this part of the State.

**R. S. JOHNSTON, Box 50, Stockley, Del.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**PRIVET**

100,000 Privet, 1 1/2 in. x 2 in.

**20,000 AMPELOPSIS VEITCHII.**

10 to 12 in., 3 cts.; 12 to 18 in., 4 cts.; 2 to 3 ft., 5 cts. 3 to 4 ft., extra heavy, 8 cts.

**THE ELIZABETH NURSERY Co., ELIZABETH, N. J.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Ferns for Easter.**

**2 1/2 cts.**

Assorted, \$2.50 per 100, 2 1/2 inch pots, for one week only. CASH.

**EDWIN A. SEIDFELTZ,**

400 N. E. BALTIMORE, Md.

36 W. Lexington St., BALTIMORE, Md.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**SIEBRECHT & SON,**

The Largest and Finest Collection of **PALMS,** DRACENAS, FIGUS and FERNS, ARACARIAS, etc., in all sizes.

Prices to suit all. One visit and you will always come here.

**STOCK HOME-GROWN.**

WHITE TELEGRAPH OR TELEPHONE, AND OUR CARriage WILL SERVE YOU.

Rosa Hill Nurseries, New Rochelle, N. Y.

New York Office, 409 Fifth Avenue.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**STRAWBERRY PLANTS** Thirty best extra strong, \$5. per 100; \$5. per 1000. Moore's Early cheap. Golden Sun Raspberry, extra strong, \$5. per 100; \$5. per 1000. Moore's plants, 2 year, No. 1, \$5. per 100; \$5. per 1000. Moore's plants, 2 year, No. 2, \$5. per 100; \$5. per 1000. Moore's plants, 2 year, No. 3, \$5. per 100; \$5. per 1000. Moore's plants, 2 year, No. 4, \$5. per 100; \$5. per 1000. Moore's plants, 2 year, No. 5, \$5. per 100; \$5. per 1000. Moore's plants, 2 year, No. 6, \$5. per 100; \$5. per 1000. Moore's plants, 2 year, No. 7, \$5. per 100; \$5. per 1000. Moore's plants, 2 year, No. 8, \$5. per 100; \$5. per 1000. Moore's plants, 2 year, No. 9, \$5. per 100; \$5. per 1000. Moore's plants, 2 year, No. 10, \$5. per 100; \$5. per 1000.

**CHAS. BLACK, Hightstown, N. J.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**TREES**

**F. & F. Nurseries** Springfield, N. J. S. M. MILBURN, Proprietor, P. O. Box 100.

We grow and keep in stock the complete assortment of hardy Jersey stock. Catalogue free.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

COMMONWEALTH OF PENNSYLVANIA.

DEPARTMENT OF AGRICULTURE.

FLORADALE, Pa., Oct. 17, 1896.

To Whom It May Concern: This is to certify that I have the 17th day of October, 1896, inspected the nursery stock of C. L. Longsdorf, grown at Floradale, County of Adams, State of Pennsylvania, and found no objection to the shipment of the same to New York, New York, or other parts of the State of Pennsylvania, and that the same are of the variety of **50,000 PEACH**, listed in the contract or order, signed by G. BRUFF, Special Agent.

**50,000 PEACH** to offer at special price.

**C. L. LONGSDORF, Floradale, Pa.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**HARDY CUT FERNS**

First quality.

\$1.00 per 1000. Discount on large orders.

**L. B. BRAGUE, Hinsdale, Mass.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**GALAX AND LEUCOTHE**

Write the INTRODUCER of these two most beautiful new Decorative Greens for samples and information. Address

**HIGHLANDS NURSERY, Kawana, N. C.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Decorative Plants,**

RUTHERFORD, N. J.

P. O. Address, - - - Carlton Hill, N. J.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Decorative Plants,**

ARAUCARIAS PALMS, PANDANUS VEITCHII

All sizes. Write for Prices.

**FERNS,** Assorted, from 2 1/2 inch pots, \$5.50 per 100.

**JOHN SCOTT,**

Keap Street Greenhouses, - - - BROOKLYN, N. Y.

Telephone Call 1107 Williamsburgh.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE



Cut - Flower - Commission - Dealers

J. K. ALLEN, Wholesale Commission Dealer in CUT FLOWERS, 57 W. 28th St., New York. Orders by mail or telegraph promptly attended to. Telephone Call, 362-2638 N.Y. ROSES AND VIOLETS SPECIALTIES.

FITZGERALD & HAMMOND, (Late with Theo. Boehms), Wholesale Commission Dealers in CUT FLOWERS, 115 West 30th Street, Consignments Solicited. NEW YORK.

FORD BROS. WHOLESALE FLORISTS, 111 West 30th Street, NEW YORK. Consignments Solicited. Telephone 200 3913 St.

WM. H. CUNTER, Wholesale Florist VIOLETS and CARNATIONS A SPECIALTY. Consignments Solicited. 30 West 29th St., New York. Telephone, 342-2893 Street.

MICHAEL A. HART, Wholesale & Commission Florist, 118 W. 80th St., New York. Telephone Call, 1847 18th St. ALL kinds of Roses, Violets and Carnations a specialty. ORDERS PROMPTLY ATTENDED TO.

H. A. HOFFMANN, Wholesale Florist 54 W. 28th St., NEW YORK. Telephone Call, 1847 18th St. American Beauties, Carnations, White Violets, Specialties. CONSIGNMENTS SOLICITED.

EDWARD C. HORAN, WHOLESALE • FLORIST, No. 34 W. 29th St., New York. The Bride, Mermet and American Beauty Specialties.

JULIUS LANG, Wholesale Florist 53 WEST 30th ST. Consignments Solicited. NEW YORK.

FRANK MILLANG, Wholesale Commission Dealer ...In Cut Flowers... 408 East 34th St., New York City. Telephone Call, 364-3818.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Send us your name for our Semi-Monthly Price List. We are Headquarters for FINEST CARNATIONS and ROSES, VIOLETS, VALLEY, ROMANS, SMILAX, ADIANTUM. 19-21 RANDOLPH ST., CHICAGO. Best selected Stock Reserved in Shipping ...B.D.B.E.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE. BASSETT & WASHBURN, Growers and Wholesale Dealers in CUT FLOWERS.

We grow the finest of American Beauties and other Roses. Also choice selected Valley all the year round. Carnations, Smilax, Adiantum, etc. fresh cut. Long Distance Telephone, NEt. 22-22. 88, 90, 92 Washab Avenue, CHICAGO, Ill.

WHOLESALE OF CUT FLOWERS AT LOW PRICES

Table with columns: NAMES AND VARIETIES, NEW YORK, BOSTON, PHILADELPHIA, CHICAGO, ST. LOUIS. Lists various flower types and prices.

For Prices of Fancy and Special Stock see our Correspondence Columns. Prices are for quantities of one hundred unless otherwise noted. Prices quoted above are given only after very careful inquiry, and while we do not guarantee their accuracy, they will be found practically correct up to the date mentioned.

RENBERG BROS., Wholesale Growers of Cut Flowers. 500,000 Feet of Glass. We can fill all orders on short notice with all leading varieties of ROSES and CARNATIONS. We are headquarters for the fine AMERICAN BEAUTIES. Give us a trial and convince yourself. SALESROOM 51 Washab Avenue, CHICAGO, Ill.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE. SAMUEL S. PENNOCK, WHOLESALE FLORIST. WELL FLOWERED MIGNONETTE Long Petals Extra Good \$1.00 per 100. MYOSOTIS \$1.50 per 100. We are still headquarters for finest and best varieties of CARNATIONS. 1612-1614 Barker St. Bet. Chestnut & Market Sts. Philadelphia, Pa.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE. KENNICOTT BROS. COMPANY, Wholesale - Cut - Flowers, 88 Washab Avenue, CHICAGO, ILL. WIRE WORK A SPECIALTY. CHARLES W. MCKELLAR, 89 Washab Ave., CHICAGO. Wholesale Commission Florist. All consignments and orders entrusted to our care will be given prompt and careful attention. Ed. F. Winterborn, Mgr.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Cut - Flower - Commission - Dealers

THE NEW YORK CUT FLOWER CO. 119-121 West 23d Street, 112-114 West 24th Street, Telephone 735, 19th St., NEW YORK. THE LARGEST DEALERS IN CUT FLOWERS IN THE WORLD ...

PURDY & BLAUVELT, Wholesale and Commission Dealers in CUT FLOWERS. MATERNAL PINK PEONIES A SPECIALTY. 57 WEST 30th STREET, Bet. Broadway & 6th Ave., NEW YORK.

A. & F. ROLKER, WHOLESALE DEALERS IN CUT FLOWERS 53 West 28th St. Telephone 2379 38th St. NEW YORK.

W. F. SHERIDAN Wholesale Commission Dealer in CUT FLOWERS 39 West 25th St., New York. Telephone 51-283 St. PRICE LIST SENT ON APPLICATION.

FRANK H. TRENDLY, CHARLES SCHENCK, TRENDLY & SCHENCK, Wholesale Florists, 38 W. 28th St. and CUT FLOWER EXCHANGE, NEW YORK. Telephone 951-18th St. Consignments Solicited.

JOHN YOUNG, Wholesale Florist, 51 WEST 28th ST. NEW YORK.

WM. J. BAKER, Wholesale Florist 1432 So. Penn Square, Philadelphia, Pa.

DUMONT & CO., WHOLESALE FLORISTS CARNATIONS A SPECIALTY. No. 1305 Filbert St., Philadelphia.

EDWARD REID, Wholesale Florist FINEST VARIETIES - ROSES, Carnations, Violets, No. 40 South Sixth and 6th Street, Local and Long Distance Phone, Philadelphia.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**WHOLESALE FLORISTS**  
**N. F. W. Hartley & Co.**  
 BRIDES  
 JOURNALERS IN FLORISTS' SUPPLIES. BRIDES  
 Accessories, Paperware, Umbrella. BRIDESMAIDS  
 Headbands, and Florists' Vase a CARTRIDGES,  
 Specialty. Horticultural Accessories. Always on hand.  
 84 HAWLEY STREET, BOSTON, MASS.

**GEORGE MULLEN,**  
 Wholesale and Commission Dealer in  
**Cut Flowers.**  
 Best stock and lowest prices. Orders by  
 mail accepted. Telephone or telegraph  
 promptly attended to.  
 GEORGE MULLEN, 18 Chapman Place, Boston.

**GEO. A. SUTHERLAND,**  
 SUCCESSION TO WM. A. STEWART,  
**CUT FLOWERS AND FLORISTS SUPPLIES**  
 WHOLESALE.  
 67 Bromfield St., Boston, Mass.

**City Hall Cut Flower Market**  
**WELCH BROS., Props.**  
 Regular Containers Given Space Free  
 of Charge. Space let to growers wishing  
 to sell their own goods.  
 Flowers Shipped to all Points.  
**...SEND FOR PRICE LIST...**

**W. ELLISON,**  
**Wholesale Cut Flowers,**  
 Florist Supplies. Wire Designs.  
 2744 Franklin Ave., ST. LOUIS, MO.

**CHAS. G. FLECKENSTEIN,**  
**Wholesale Flowers,**  
 1323 PINE STREET,  
 ..ST. LOUIS, MO.

**C. A. KUEHN,**  
 SUCCESSION TO ELLISON & KUEHN,  
**WHOLESALE FLORIST,**  
 1123 Pine St., St. Louis, Mo.  
 A COMPLETE LINE OF WIRE DESIGNS.

**C. W. WORS,**  
**Wholesale Florist,**  
 313 N. LEFFINGWELL AVENUE,  
 ST. LOUIS, MO.  
 FINE ROSES—Shipped carefully to all  
 parts of the country.

**HEADQUARTERS** In Western  
 TRUCKS New York.  
**ROSES, CARNATIONS, AND VIOLETS.**  
**WM. F. KASTING** Wholesale  
 495 Washington Street, Commission  
 BUFFALO, N. Y. Florist.

**ROGERS PARK FLORAL CO.,**  
**Wholesale Growers of Cut Flowers**  
 OFFICE AND BAREBROOM,  
 44 WABASH AVE., CHICAGO,  
 Headquarters for AMERICAN FLORISTS.

**TOBACCO STEMS** 75 Cts. per 100 lbs.  
 Rules which about 600 lbs.  
 THE REV. AND REVEREND BISHOP DE PAREM,  
 NOTED OLD BRIDGE TRUSTEE. Ten can grip the head of  
 H. A. Boothroy, 46 Madison Ave., N. Y.

**CUT SMILAX**  
 10 cts. per String.  
 THE NATIONAL PLANT CO.,  
 DAYTON, O.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**E. G. HILL & CO.,**  
**Wholesale Florists,**  
 RICHMOND, INDIANA.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**COMPLETE LINE OF SUPPLIES**  
 WIRE WORK  
 ALL MATERIALS  
 IMPORTERS OF  
**SULBS**  
 PHONE 1527  
 BOX 73  
 HAND  
 ALWAYS ON  
 FINE STOCK  
 VIOLET FLOWERS  
**ELLIS & POLLWORTH**  
 PHILADELPHIA 1875

**"THERE ARE OTHERS"**  
 BUT  
**E. H. HUNT,**  
 56 LAKE ST. CHICAGO  
 CAN SUPPLY ALL WANTS IN  
**CUT-FLOWERS**  
 AND ALL FLORISTS SUPPLIES  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CLARK BROTHERS,**  
 Manufacturers and Patent of  
**PAPER SEED BAGS**  
 Of every description except Lithograph Bags.  
 61 ANN STREET, NEW YORK.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**MEYER GREEN SIKALKINE.**  
 Used for Distilling SMILAX and ASPARAGUS.  
 SILKALINE  
 MADE IN  
 GERMANY  
 FF

Will not fade, or rot like other pens. Made also in fancy  
 colors for young purposes. Send for samples and prices.  
**JOHN C. MEYER & CO.,**  
 27 Summer Street, Boston, Mass., U. S. A.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**ASPARAGUS PLUMOSUS NAUS,**  
**W. H. ELLIOTT,** — **Brighton, Mass.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Chicago.**  
 State of Trade.  
 The supply of roses in this market for  
 the past week was still far from sufficient  
 to fill all orders. The consequence was that  
 prime All long stem Bride and Bridesmaid  
 went at \$7 to \$8, but there were few of  
 these the general price being \$4 to \$6.  
 The best sellers were Bride, Bridesmaid and  
 Mar. In spite of this condition many  
 growers concede that they rarely average  
 the lowest figure for all sent in, while some  
 exceed the average did not go beyond \$3.

This winter, taken as a whole, has been  
 exceedingly unsatisfactory to consignors,  
 and, as a result, lots of grumbling has been  
 indulged in. Where the blame lies is not  
 easy of explanation. One thing is sure—  
 let the stock be ever so scarce, heavy prices  
 could not be obtained. The light cuts, owing  
 to a very mild winter, which always  
 means a heavy supply, ready to hand, a  
 possible reason, coupled with the disa-  
 position on the part of the best buyers to  
 spend much less money than usual in de-  
 corations for receptions, parties, etc. But  
 for the general demand matters would be  
 much wiser.

However, there are signs of plenty of  
 roses in the near future.  
 Carnations also get cleared out fairly  
 stock is rather light and is selling at from  
 \$1 to \$2, with concessions for inferior  
 grades.

Violets are becoming abundant. The  
 best sell at 75c. to \$1, but poor stock goes  
 as low as 25c. to 50c. Some are offered on the  
 streets at 5c. per bunch, but nobody seems  
 to know, or admit, where they come from.  
 Lilacs are plentiful, selling at \$6 to \$8.  
 There is a feeling that much of the stock  
 designed for Easter will be in before that  
 time.

One ambitious stock is plentiful enough  
 for the demand, except Romans, which are  
 now getting scarce and poor. Dafoedils are  
 abundant and sluggish at \$1 to \$2. The  
 best long-stemmed tulips bring \$3 to \$4,  
 with shorts at half these figures. Double  
 chrysanths are increasing in quantity; the  
 light colors are fair sellers at \$3 to \$5.  
 Maidenhair fern is scarce, going at 75c.  
 to \$1.

**Eastern Visitors.**  
 A flying squadron from the carnation  
 meeting at Cincinnati, consisting of John  
 N. May, Ernst Assinger, Frank McMahon,  
 E. Daldeouze and H. Rath, after visiting  
 E. G. Hill & Co's place at Richmond, Ind.,  
 Fred Dorner & Sons Co., at Lafayette, Ind.,  
 landed here Saturday morning. They were  
 taken in tow by Mr. Washburn and vis-  
 ited Chicago, where the establishment of  
 Bussett & Washburn and Pain Bros. were  
 inspected.

They afterward visited Kiehm's nursery  
 at Arlington Heights, Reinberg Bros., Rose  
 Hill and E. Buetner's. They left Chi-  
 cago Sunday on their way to John Bretz-  
 meyer's at Detroit.  
**The New President of Carnation  
 Society.**  
 The Carnation Society has done well,  
 seeing it is to come to order in 1898. In  
 selecting as its president W. N. Ridd. He  
 has shown himself, as manager of the Chi-  
 cago Horticulture Society's exhibition, as  
 a bright man in this kind of work. He is  
 a noted grower of carnations for this mar-  
 ket. Chicago was invited in looking  
 after florist gatherings, and now is a good  
 time to begin to create an enthusiasm, so  
 as to be ready next February. It will take  
 work and willing hands above the fraterni-  
 ty generally—that is all.

**Proprietor of Store Light.**  
 Just now a lively fight is on in this city  
 against the department stores, and bill  
 of a restrictive nature is pending in the Leg-  
 islature to regulate them. So far the florists  
 and others of the trade have not shown  
 their hands as a body, but may do so later.  
 The seed trade in this city is very severely  
 injured by these stores, and there has been  
 at times even a good deal of grumbling  
 among the florists also. These huge affairs  
 seem to grow, the smaller business florists  
 houses suffer from them.  
**EDGAR SANDERS.**

**Cut String, 8 to 10 feet long.**  
 Stripped & ready for use.  
**Chicago.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**JOHN CONLEY & SON,**  
 MANUFACTURERS OF  
**TIN FOIL,**  
 2 and 4 Dominic Lect,  
**NEW YORK.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**EVERY FLORIST OUGHT TO**  
**INSURE HIS GLASS AGAINST**  
**THEFT.**  
 For particulars address  
**JOHN G. MILLER, Secy, Saddle River, N. J.**

**CHOCOLATE COOLER CO.,**  
**GRAND RAPIDS, MICH.**  
 Manufacturers of  
**FLORIST'S REFRIGERATORS.**  
 Send for Circular.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**M. RICE & CO.,**  
 Importers and Manufacturers of  
**FLORISTS' SUPPLIES,**  
 25 N. 4th St., Philadelphia, Pa.  
**NEW FALL CATALOGUE NOW READY**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**BUY**  
**BOSTON LETTERS.**  
 Best and Cheapest in the Market.  
 16 and 21 inch. ... per 100.  
 Best Script Letter in the World, \$4 100.  
 See out of wooden letter box we give away,  
 in next week's Exchange.  
**BOSTON FLORIST LETTER CO.,**  
 84 Hawley Street, BOSTON, MASS.

**PREED & KALER**  
 MANUFACTURERS OF  
 BOSTON'S WIRE DESIGNS  
 172 N. 25th ST. NEW YORK

**USE**  
**W. G. KRICK'S**  
**Immortelle Letters,**  
 Medal awarded at  
 Philadelphia 1876  
 Fair and Highest  
 Award ever  
 Exhibited.  
 These Letters and  
 Designs are made of  
 the finest Immortelle  
 used on wood or  
 metal. The flowers  
 are pressed in  
 hollow drilled in them  
 to insure looking  
 by which they are  
 guaranteed to stay  
 these goods to be  
 purchased by mail  
 in the market.  
 16 Letters, \$2.50  
 25 Letters, \$4.00  
**For other articles of**  
**Florists' Supplies, Designs,**  
**and complete Catalogues**  
**send order with other letters**  
**and compare on the spot.**  
**For sale by all Florists' Supply Dealers.**

**THE**  
**Perfect Flower Pot**  
**Hanze and Hanze**  
 is used for  
 plants out of Jetties  
 houses, also for hanging  
 up plants in deors  
 on walls, etc.  
 In sets of 12, per  
 set \$1.00. No. 1, I will  
 fit from 2 to 10 pots,  
 per doz., 50c. No. 2,  
 I will fit from 2 to 10  
 pots, per doz., 50c.  
 No. 3, I will fit from 2  
 to 10 pots, per doz.,  
 50c. For more details  
 send sample list to  
 THE  
**HANZE & HANZE**  
 NEW YORK  
**THE**  
**TABLE**  
**POT**  
**OLE**  
**W. C. KRICK, 1287 Broadway, Brooklyn, N. Y.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## SITUATIONS WANTED.

Male, 19 cents per line. (3 words each insertion). Cash with order. This rate applies only to positions wanted advertisements and does not apply to other notices. For full particulars apply to the office of the Florists and Land, 30 Main Building, Boston, Mass.

**SITUATION WANTED.** Young married German, first-class all round grocer, commercial or private, 10 years experience in all departments of grocery. 1814 Edge Road, N. W., Washington, D. C.

**SITUATION WANTED.** Former in commercial case, 20 years experience in all departments of grocery. 200 Main Building, Boston, Mass.

**PERMANENT POSITION WANTED.** By a practical cabinet maker, 10 years experience in all departments of cabinet making. 200 Main Building, Boston, Mass.

**GARDENER.** Head in private place, or manager of large commercial place. Successful grower of orchids and other flowering and decorative plants. 200 Main Building, Boston, Mass.

**GARDENER.** Head in private place, or manager of large commercial place. Successful grower of orchids and other flowering and decorative plants. 200 Main Building, Boston, Mass.

**GARDENER.** Head in private place, or manager of large commercial place. Successful grower of orchids and other flowering and decorative plants. 200 Main Building, Boston, Mass.

**Situation Required.** Head Gardener. Large private place, or public institution. English, widower, 30 years experience in all departments of horticulture and floriculture. 200 Main Building, Boston, Mass.

**SITUATION WANTED.** By a single young man, age 35 years, in commercial or private place, as assistant gardener and florist. 200 Main Building, Boston, Mass.

**HELP WANTED.** Understand palms, terms and general work. 200 Main Building, Boston, Mass.

**WANTED.** Understand palms, terms and general work. 200 Main Building, Boston, Mass.

**WANTED.** Understand palms, terms and general work. 200 Main Building, Boston, Mass.

**WANTED.** Understand palms, terms and general work. 200 Main Building, Boston, Mass.

**WANTED.** Understand palms, terms and general work. 200 Main Building, Boston, Mass.

**WANTED.** Understand palms, terms and general work. 200 Main Building, Boston, Mass.

**WANTED.** Understand palms, terms and general work. 200 Main Building, Boston, Mass.

**WANTED.** Understand palms, terms and general work. 200 Main Building, Boston, Mass.

**WANTED.** Understand palms, terms and general work. 200 Main Building, Boston, Mass.

**WANTED.** Understand palms, terms and general work. 200 Main Building, Boston, Mass.

**GREENHOUSES AND LAND.** To let within 30 minutes of New York, two well-ventilated greenhouses, 1000 and 1500 square feet each, with a large amount of land, suitable for growing of all kinds of plants and flowers. 200 Main Building, Boston, Mass.

**TO LEASE.** On account of expense going abroad for a number of years, I have a large amount of land, suitable for growing of all kinds of plants and flowers. 200 Main Building, Boston, Mass.

**TO LEASE.** On account of expense going abroad for a number of years, I have a large amount of land, suitable for growing of all kinds of plants and flowers. 200 Main Building, Boston, Mass.

**TO LEASE.** On account of expense going abroad for a number of years, I have a large amount of land, suitable for growing of all kinds of plants and flowers. 200 Main Building, Boston, Mass.

## GREENHOUSES AND LAND.

## FOR SALE AT A BARGAIN.

Six greenhouses, 14,000 feet of glass, first-class repair, well stocked with everything shown in a first-class catalogue. 200 Main Building, Boston, Mass.

**IOWA, care The Florists' Exchange.** FOR SALE OR RENT.

Thirty acres of the finest market garden land in Orange County. Expressly adapted to raising of celery and onions. Terms easy. Address

**MARKET GARDEN.** P. O. Box 2923, Newburgh, N. Y.

## GREENHOUSE TO LET.

On account of illness I will lease my greenhouse, land, and business located on a Six Mile Station, Cook Island, N. Y., the only greenhouse in the State. 200 Main Building, Boston, Mass.

**SECOND HAND MATERIAL.** Extra good second-hand 3 and 4 inch pipe for hot water heating.

**FOR SALE CHEAP.** Extra good second-hand 3 and 4 inch pipe for hot water heating.

**Providence.** Trade the past week was generally fair, mostly on funeral work. There were a few social events, so that taken as a whole, business has been increasing.

**Providence.** Trade the past week was generally fair, mostly on funeral work. There were a few social events, so that taken as a whole, business has been increasing.

**Providence.** Trade the past week was generally fair, mostly on funeral work. There were a few social events, so that taken as a whole, business has been increasing.

**Providence.** Trade the past week was generally fair, mostly on funeral work. There were a few social events, so that taken as a whole, business has been increasing.

**Providence.** Trade the past week was generally fair, mostly on funeral work. There were a few social events, so that taken as a whole, business has been increasing.

**Providence.** Trade the past week was generally fair, mostly on funeral work. There were a few social events, so that taken as a whole, business has been increasing.

**Providence.** Trade the past week was generally fair, mostly on funeral work. There were a few social events, so that taken as a whole, business has been increasing.

**Providence.** Trade the past week was generally fair, mostly on funeral work. There were a few social events, so that taken as a whole, business has been increasing.

**Providence.** Trade the past week was generally fair, mostly on funeral work. There were a few social events, so that taken as a whole, business has been increasing.

**Providence.** Trade the past week was generally fair, mostly on funeral work. There were a few social events, so that taken as a whole, business has been increasing.

**Providence.** Trade the past week was generally fair, mostly on funeral work. There were a few social events, so that taken as a whole, business has been increasing.

**Providence.** Trade the past week was generally fair, mostly on funeral work. There were a few social events, so that taken as a whole, business has been increasing.

**Providence.** Trade the past week was generally fair, mostly on funeral work. There were a few social events, so that taken as a whole, business has been increasing.

**Providence.** Trade the past week was generally fair, mostly on funeral work. There were a few social events, so that taken as a whole, business has been increasing.

**Providence.** Trade the past week was generally fair, mostly on funeral work. There were a few social events, so that taken as a whole, business has been increasing.

## CONVENTION AND SUPPLEMENTARY UNIFORM STATE LEGISLATION.

The society will hold an afternoon meeting in conformity with the plan of work recently laid out, and on the subject of the proposed uniform legislation of Massachusetts will give a talk on "Plant Beauty."

**In Town and Out.** J. Boss, with Edward & Decker, Philadelphia; Mr. Bryant, of A. H. Howe, North Cambridge, Mass.; John Barlow, of the Merritt & Son, and A. T. Hodington, of the Lucas & Redington Company of New York, are in Boston.

**Boston.** There is little to be added to the report of the past two weeks from this section. Business continues good, with the supply about equal to the demand in most lines. White roses are a little scarce, with other varieties selling well, at fair prices.

**Market News.** There is little to be added to the report of the past two weeks from this section. Business continues good, with the supply about equal to the demand in most lines. White roses are a little scarce, with other varieties selling well, at fair prices.

**Market News.** There is little to be added to the report of the past two weeks from this section. Business continues good, with the supply about equal to the demand in most lines. White roses are a little scarce, with other varieties selling well, at fair prices.

**Market News.** There is little to be added to the report of the past two weeks from this section. Business continues good, with the supply about equal to the demand in most lines. White roses are a little scarce, with other varieties selling well, at fair prices.

**Market News.** There is little to be added to the report of the past two weeks from this section. Business continues good, with the supply about equal to the demand in most lines. White roses are a little scarce, with other varieties selling well, at fair prices.

**Market News.** There is little to be added to the report of the past two weeks from this section. Business continues good, with the supply about equal to the demand in most lines. White roses are a little scarce, with other varieties selling well, at fair prices.

**Market News.** There is little to be added to the report of the past two weeks from this section. Business continues good, with the supply about equal to the demand in most lines. White roses are a little scarce, with other varieties selling well, at fair prices.

**Market News.** There is little to be added to the report of the past two weeks from this section. Business continues good, with the supply about equal to the demand in most lines. White roses are a little scarce, with other varieties selling well, at fair prices.

**Market News.** There is little to be added to the report of the past two weeks from this section. Business continues good, with the supply about equal to the demand in most lines. White roses are a little scarce, with other varieties selling well, at fair prices.

**Market News.** There is little to be added to the report of the past two weeks from this section. Business continues good, with the supply about equal to the demand in most lines. White roses are a little scarce, with other varieties selling well, at fair prices.

**Market News.** There is little to be added to the report of the past two weeks from this section. Business continues good, with the supply about equal to the demand in most lines. White roses are a little scarce, with other varieties selling well, at fair prices.

**Market News.** There is little to be added to the report of the past two weeks from this section. Business continues good, with the supply about equal to the demand in most lines. White roses are a little scarce, with other varieties selling well, at fair prices.

**Market News.** There is little to be added to the report of the past two weeks from this section. Business continues good, with the supply about equal to the demand in most lines. White roses are a little scarce, with other varieties selling well, at fair prices.

**Market News.** There is little to be added to the report of the past two weeks from this section. Business continues good, with the supply about equal to the demand in most lines. White roses are a little scarce, with other varieties selling well, at fair prices.

**Market News.** There is little to be added to the report of the past two weeks from this section. Business continues good, with the supply about equal to the demand in most lines. White roses are a little scarce, with other varieties selling well, at fair prices.

**Market News.** There is little to be added to the report of the past two weeks from this section. Business continues good, with the supply about equal to the demand in most lines. White roses are a little scarce, with other varieties selling well, at fair prices.

**Market News.** There is little to be added to the report of the past two weeks from this section. Business continues good, with the supply about equal to the demand in most lines. White roses are a little scarce, with other varieties selling well, at fair prices.

**Market News.** There is little to be added to the report of the past two weeks from this section. Business continues good, with the supply about equal to the demand in most lines. White roses are a little scarce, with other varieties selling well, at fair prices.

**Market News.** There is little to be added to the report of the past two weeks from this section. Business continues good, with the supply about equal to the demand in most lines. White roses are a little scarce, with other varieties selling well, at fair prices.

**Market News.** There is little to be added to the report of the past two weeks from this section. Business continues good, with the supply about equal to the demand in most lines. White roses are a little scarce, with other varieties selling well, at fair prices.

**Market News.** There is little to be added to the report of the past two weeks from this section. Business continues good, with the supply about equal to the demand in most lines. White roses are a little scarce, with other varieties selling well, at fair prices.

**Market News.** There is little to be added to the report of the past two weeks from this section. Business continues good, with the supply about equal to the demand in most lines. White roses are a little scarce, with other varieties selling well, at fair prices.

## Toronto.

We have had some very fine weather and a good share of sunshine, so that stock coming in now is generally of extra quality. Roses are in special demand, and foliage area to be seen in nearly all our florists' windows. Trade has been good.

**Toronto.** We have had some very fine weather and a good share of sunshine, so that stock coming in now is generally of extra quality. Roses are in special demand, and foliage area to be seen in nearly all our florists' windows. Trade has been good.

**Toronto.** We have had some very fine weather and a good share of sunshine, so that stock coming in now is generally of extra quality. Roses are in special demand, and foliage area to be seen in nearly all our florists' windows. Trade has been good.

**Toronto.** We have had some very fine weather and a good share of sunshine, so that stock coming in now is generally of extra quality. Roses are in special demand, and foliage area to be seen in nearly all our florists' windows. Trade has been good.

**Toronto.** We have had some very fine weather and a good share of sunshine, so that stock coming in now is generally of extra quality. Roses are in special demand, and foliage area to be seen in nearly all our florists' windows. Trade has been good.

**Toronto.** We have had some very fine weather and a good share of sunshine, so that stock coming in now is generally of extra quality. Roses are in special demand, and foliage area to be seen in nearly all our florists' windows. Trade has been good.

**Toronto.** We have had some very fine weather and a good share of sunshine, so that stock coming in now is generally of extra quality. Roses are in special demand, and foliage area to be seen in nearly all our florists' windows. Trade has been good.

**Toronto.** We have had some very fine weather and a good share of sunshine, so that stock coming in now is generally of extra quality. Roses are in special demand, and foliage area to be seen in nearly all our florists' windows. Trade has been good.

**Toronto.** We have had some very fine weather and a good share of sunshine, so that stock coming in now is generally of extra quality. Roses are in special demand, and foliage area to be seen in nearly all our florists' windows. Trade has been good.

**Toronto.** We have had some very fine weather and a good share of sunshine, so that stock coming in now is generally of extra quality. Roses are in special demand, and foliage area to be seen in nearly all our florists' windows. Trade has been good.

**Toronto.** We have had some very fine weather and a good share of sunshine, so that stock coming in now is generally of extra quality. Roses are in special demand, and foliage area to be seen in nearly all our florists' windows. Trade has been good.

**Toronto.** We have had some very fine weather and a good share of sunshine, so that stock coming in now is generally of extra quality. Roses are in special demand, and foliage area to be seen in nearly all our florists' windows. Trade has been good.

**Toronto.** We have had some very fine weather and a good share of sunshine, so that stock coming in now is generally of extra quality. Roses are in special demand, and foliage area to be seen in nearly all our florists' windows. Trade has been good.

**Toronto.** We have had some very fine weather and a good share of sunshine, so that stock coming in now is generally of extra quality. Roses are in special demand, and foliage area to be seen in nearly all our florists' windows. Trade has been good.

**Toronto.** We have had some very fine weather and a good share of sunshine, so that stock coming in now is generally of extra quality. Roses are in special demand, and foliage area to be seen in nearly all our florists' windows. Trade has been good.

**Toronto.** We have had some very fine weather and a good share of sunshine, so that stock coming in now is generally of extra quality. Roses are in special demand, and foliage area to be seen in nearly all our florists' windows. Trade has been good.

**Toronto.** We have had some very fine weather and a good share of sunshine, so that stock coming in now is generally of extra quality. Roses are in special demand, and foliage area to be seen in nearly all our florists' windows. Trade has been good.

**Toronto.** We have had some very fine weather and a good share of sunshine, so that stock coming in now is generally of extra quality. Roses are in special demand, and foliage area to be seen in nearly all our florists' windows. Trade has been good.

**Toronto.** We have had some very fine weather and a good share of sunshine, so that stock coming in now is generally of extra quality. Roses are in special demand, and foliage area to be seen in nearly all our florists' windows. Trade has been good.

**Toronto.** We have had some very fine weather and a good share of sunshine, so that stock coming in now is generally of extra quality. Roses are in special demand, and foliage area to be seen in nearly all our florists' windows. Trade has been good.

**Toronto.** We have had some very fine weather and a good share of sunshine, so that stock coming in now is generally of extra quality. Roses are in special demand, and foliage area to be seen in nearly all our florists' windows. Trade has been good.

**Toronto.** We have had some very fine weather and a good share of sunshine, so that stock coming in now is generally of extra quality. Roses are in special demand, and foliage area to be seen in nearly all our florists' windows. Trade has been good.

**Toronto.** We have had some very fine weather and a good share of sunshine, so that stock coming in now is generally of extra quality. Roses are in special demand, and foliage area to be seen in nearly all our florists' windows. Trade has been good.

**Toronto.** We have had some very fine weather and a good share of sunshine, so that stock coming in now is generally of extra quality. Roses are in special demand, and foliage area to be seen in nearly all our florists' windows. Trade has been good.

**TUFF STUFF ON GREEN FLYS TOBAC-OIL.**



## STANDARD • POTS

We are now ready to supply a superior quality of Pots in unlimited quantities. Catalogues and price lists furnished on application.

A. H. HEWS & CO.,  
NORTH CAMBRIDGE, - MASS  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## STANDARD FLOWER POTS

Great Possibility in ready packed crates of Florida Standard Pots, a large stock of which we keep on hand ready for shipment on day order.

Size	Per 100	Size	Per 100
1 1/2 Inch	\$1.00	4 1/2 Inch	10.00
2 1/2 Inch	1.25	5 1/2 Inch	12.00
3 1/2 Inch	1.50	6 1/2 Inch	15.00
4 1/2 Inch	1.75	7 1/2 Inch	18.00
5 1/2 Inch	2.00	8 1/2 Inch	20.00
6 1/2 Inch	2.25	9 1/2 Inch	22.00
7 1/2 Inch	2.50	10 1/2 Inch	24.00
8 1/2 Inch	2.75	11 1/2 Inch	26.00
9 1/2 Inch	3.00	12 1/2 Inch	28.00

10 per cent. off for cash with order F.O.B. at East Edwards. Send for price list of Hanging Vases, Garden Vases, Jardinieres, Seed Pots and Glazed Cylinders with Handles for cut flowers. Address

W. H. ERNEST, Man'g. Frt. East Edward, N. Y.  
AUGUST RÖLKER & SONS, New York  
130 & 132 W 24th St., NEW YORK CITY.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE  
JOHN W. JACKSON, Successor to JACKSON BROS.  
Established 1825  
N. W. YORK, N. Y. 121 N. 7TH ST. and 121 1/2 W. 4TH ST., ALBANY, N. Y.

**ROUND TILE**

Standard Flower Pots.

Send for our New Price List with extra discounts. All our Pots, from 7 in. and upwards, have our Patent Everted Bottom, which is a great advantage, as it insures perfect drainage.

A FULL LINE OF BULB PANS.

THE WHILLDIN POTTERY CO., 713 to 715 Wharton Street, PHILADELPHIA.

BRANCH HOUSES: (Kearney and Westside Aves., Jersey City, N. J.)  
Jackson Ave. and Parkton St., Long Island City, N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## STANDARD Flower Pots.

Send for our New Price List with extra discounts. All our Pots, from 7 in. and upwards, have our Patent Everted Bottom, which is a great advantage, as it insures perfect drainage.

A FULL LINE OF BULB PANS.

THE WHILLDIN POTTERY CO., 713 to 715 Wharton Street, PHILADELPHIA.

BRANCH HOUSES: (Kearney and Westside Aves., Jersey City, N. J.)  
Jackson Ave. and Parkton St., Long Island City, N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## FLOWER POTS

We are Manufacturing a Full Line of  
**STANDARD FLOWER POTS and HANGING BASKETS**  
OF THE BEST QUALITY.

Shipping Facilities First-Class, thereby Securing Lowest Freight Rates.  
Our goods are well packed, and breakage is nominal. Give us a trial. Send for Price List.

Address THE SYRACUSE POTTERY CO., 403 N. SALINA ST., SYRACUSE, N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## THE JOHN J. PETERS COMPANY

(INCORPORATED)

**PULVERIZED**

A Quick Germinator and Crop Forcer.

**FACTORY:**  
Little Ferry, New Jersey.

**OFFICE:**  
Long Island City, New York.

**NATURAL. ODORLESS**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## GREEN-HOUSE CONSTRUCTION.

This has been a specialty with us for many years and to us is due the credit for many of the great improvements that have been made in the construction of wooden green-houses. To those that buy our

**Clear Cypress Building Material**

we furnish, free of cost, complete detail drawings from which any intelligent workman can put up the material correctly. We have plenty of time to write letters ABOUT OUR BUSINESS, and we will be glad to hear from those contemplating building.

Write for Circulars or Estimates.

**LOCKLAND LUMBER CO.**  
LOCKLAND, OHIO.

## Standard Pots

MADE BY...  
Good Railroad Facilities  
Special Attention Given  
Price Lists Furnished on Application.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## STANDARD FLOWER POTS

In any quantity, and of the best quality.  
Get my price list before ordering elsewhere.

**W. H. ERNEST,**  
Station M, N. E., WASHINGTON, D. C.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

JOHN W. JACKSON, Successor to JACKSON BROS.  
Established 1825  
N. W. YORK, N. Y. 121 N. 7TH ST. and 121 1/2 W. 4TH ST., ALBANY, N. Y.

## Standard Flower Pots.

Send for our New Price List with extra discounts. All our Pots, from 7 in. and upwards, have our Patent Everted Bottom, which is a great advantage, as it insures perfect drainage.

A FULL LINE OF BULB PANS.

THE WHILLDIN POTTERY CO., 713 to 715 Wharton Street, PHILADELPHIA.

BRANCH HOUSES: (Kearney and Westside Aves., Jersey City, N. J.)  
Jackson Ave. and Parkton St., Long Island City, N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## FLOWER POTS

We are Manufacturing a Full Line of  
**STANDARD FLOWER POTS and HANGING BASKETS**  
OF THE BEST QUALITY.

Shipping Facilities First-Class, thereby Securing Lowest Freight Rates.  
Our goods are well packed, and breakage is nominal. Give us a trial. Send for Price List.

Address THE SYRACUSE POTTERY CO., 403 N. SALINA ST., SYRACUSE, N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## THE JOHN J. PETERS COMPANY

(INCORPORATED)

**PULVERIZED**

A Quick Germinator and Crop Forcer.

**FACTORY:**  
Little Ferry, New Jersey.

**OFFICE:**  
Long Island City, New York.

**NATURAL. ODORLESS**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## GREEN-HOUSE CONSTRUCTION.

This has been a specialty with us for many years and to us is due the credit for many of the great improvements that have been made in the construction of wooden green-houses. To those that buy our

**Clear Cypress Building Material**

we furnish, free of cost, complete detail drawings from which any intelligent workman can put up the material correctly. We have plenty of time to write letters ABOUT OUR BUSINESS, and we will be glad to hear from those contemplating building.

Write for Circulars or Estimates.

**LOCKLAND LUMBER CO.**  
LOCKLAND, OHIO.

## To Make Pipe-Joints Tight.

Rust joints in cast iron Metal Worker, greenhouse heating, says Metal Worker, are by many considered most serviceable. These joints are made with what are generally called iron filings, but these should not be too fine or too fine dirt. It is better to have the iron filings coarse, or more correctly speaking, machine cuttings. The best advice for these joints are from castings made from soft, strong iron, entirely free from grease. They should be packed for use by wetting down with water that is slightly salt. Too much salt is objectionable, as the resulting expansion may break the pipe. It is better to order to prevent the filings from getting inside of the pipe, the bottom of the joint should be packed with oakum and the filings packed on top of it. Another method of joining these pipes is to use oakum and red lead applied alternately in several layers. Success in this work depends upon the quality of the red lead used and the care with which the joint is made. Sometimes Portland cement is used instead of red lead between the layers of oakum. Sal ammoniac is also employed for mixing with the iron filings, but there is danger, when too much sal ammoniac is used, owing to the excessive expansion that ensues and which may break the hub.

## Hot-Air Engine Manufacturer's Combine.

The De Lamar Iron Works Company, No. 467 Broadway, New York, and the Rider Engine Company, No. 37 De street, New York, two of the largest manufacturers of hot-air engines, have consolidated under the name of the Rider-Ericsson Engine Company, at the former address. After April 1 they will occupy new quarters at No. 22 Corlandt street. By this combination, by increasing the facilities a better engine can be put on the market at less cost. There are many hot-air engines used by farmers where it is necessary for them to provide a private water supply, and they are most effective and economical for this purpose.

## BOOKS RECEIVED.

"The Forcing Book," by Professor L. H. Bailey, Publisher, the Macmillan Company, No. 68 Fifth avenue, New York. Price \$1. In this volume the author has compiled in handy form the cream of all the information available on the subject of forcing vegetables under glass, as applicable to AMERICAN conditions. Especially valuable is the chapter dealing with the construction of the forcing house, much of the material being, as a goodly part of the text is culled from the bulletins of the various experiment stations, and from letters on the subject in the horticultural press, but there is also given the experience of practical growers in various parts of the country. Many farmers are interested in vegetable forcing, and all such will find in this manual a deal of very useful information.

## TUFF STUFF ON GREEN FLY IS TOBACCO-OIL.

FOR SALE BY Seed Stores.  
For Free Pamphlet, write to LATHROP & COMPANY, 215 N. 3RD ST., TOBACCO CO., LOUISVILLE, KY.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## THE BEST FOR ALL Florists.

**ROSE LEAF EXTRACT TOBACCO**

**SMALL YOUR FRUIT**

WITH THE "INCOMPARABLE" **BORDEAUX NOZZLE**

used on "World's Best" Spraying Outfits made only by THE DEEMING CO., SALEM, OHIO.

HENRY J. FAUST'S General Wholesale Agency, 41 to 49 N. 5th St., Philadelphia, Pa. Valuable literature of this outfit, and of the "World's Best" Spraying Outfits are used and recommended by the best horticulturists and experiment stations.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## Hot-Bed Sash

Tenons white-leaded. Corners secured with iron dovetail pins. Every detail of construction perfect. Made of Clear Cypress Lumber.

Quick Shipments.

We have in stock and can ship immediately:

3 ft. x 6 ft., 3 rows 10 in. glass.  
3 ft. 3 in. x 6 ft., 4 " 8 in."  
4 " 6 ft. 5 " 8 in."

Not glazed, 1 1/2 in. thick.

Delivered Prices

Quoted on application. State size and quantity wanted. No order too small to receive careful attention, and none too large for our facilities.

**LOCKLAND LUMBER CO.,**  
Lockland, Ohio.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## TOBACCO STEMS

Large Bales 600 lbs., \$1.50  
Small Bales 300 lbs., \$1.00

STRAW AND FRESH

Tobacco Dust, 2c. per lb.  
Raffia, the best material for tying, does not injure the plants. It goes farther and is cheaper; first quality long fibre at 1 lb. 1 lb.; 50 lb. 100 lbs.

## H. G. FAUST & CO. 64 & 66 N. Front St. Philadelphia, Pa.

## The Biggest Little Thing on Earth THE LIGHTING BUG Exterminator.

The any kind of potato, dry or light. Only 1 pint is a case, which costs 12 to 15 gallons with any other kind of potato. It is a great deal of money to get a good crop of potatoes. It is a great deal of money to get a good crop of potatoes. It is a great deal of money to get a good crop of potatoes.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

It costs 6 cents for each 500 net of Saw soap.

## Kill the Bugs!

Does not injure the most sensitive plants. Endorsed by prominent florists. Used for fumigation or spraying indoors or out. 200 yards of tobacco in one pint of Nikoteo. Sold by seedsmen. Circulars free. SEABOURN CO., CHICAGO.

**Quickly Does It.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## Neponset Flower Pots

of Waterproof Paper, are sold as follows:

Terms—Net cash with order. If ordered shipped by freight, add 50 cents cartage.

Size	Crates of Gross Weight	Per 100	Per 1000
2 1/2 Inch	1000	25	250
3 1/2 Inch	1000	30	300
4 1/2 Inch	1000	35	350
5 1/2 Inch	1000	40	400
6 1/2 Inch	1000	45	450
7 1/2 Inch	1000	50	500
8 1/2 Inch	1000	55	550
9 1/2 Inch	1000	60	600
10 1/2 Inch	1000	65	650

Standard Pot Measure.

Less quantities than full crates at 100 rates.

F. W. HIRD & SONS, Manufacturers.  
Address orders to our General Agents,  
**August Rötker & Sons**  
New York. P. O. Station E.

or E. J. FARQUHAR & CO., Boston, Mass. Eastern Agent.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**LORD & BURNHAM CO.,**  
**HORTICULTURAL ARCHITECTS AND BUILDERS,**  
 STEAM AND HOT WATER HEATING ENGINEERS.

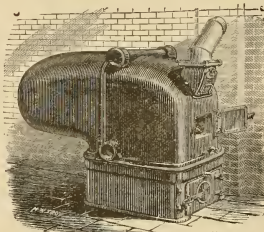
Plans and Estimates furnished on application.



Largest Builders of Greenhouse Structures. Six Highest Awards at the World's Fair. Send four cents postage for Illustrated Catalogue.

**LORD & BURNHAM CO.,**  
 ARCHITECTURAL OFFICE, 160 FIFTH AVE., COR. 21st STREET, NEW YORK.  
 Factories: Irvington-on-Hudson, New York.

**GREENHOUSE HEATING AND VENTILATING,**  
 Horticultural Architecture and Building.



Mention paper.

SEND 4c. POSTAGE FOR ILLUSTRATED CATALOGUE.

**Hitchings & Co**

ESTABLISHED 1844.  
 233 Mercer Street, NEW YORK  
 FIVE PATTERNS OF BOILERS.  
 NINETEEN SIZES,  
 Perfect Sash Raising Apparatus.  
 Roschauer, Greenhouses, Etc., of Iron  
 Frame Construction erected complete or  
 the Structural Iron Work shipped  
 ready for erection.

Iron Frame Beches with the  
 "Perfect Drainage Bench Tile"  
 or Slate Tops.

**VALVES, FITTINGS, AND VENTILATING APPARATUS.**  
**COLDWELL-WILCOX CO.,**  
 Newburgh, N. Y.  
 Mention paper.

**GLASS!** For Greenhouses, Conservatories, Graperies, Hotbeds and all other purposes, at Lowest Rates. **GLASS!**  
**N. COWEN'S SON** 392 & 394 West Broadway, New York.  
 Formerly 154 and 156 So. Fifth Avenue.  
 Get our Figures before buying Glass. - Estimates Freely Given.

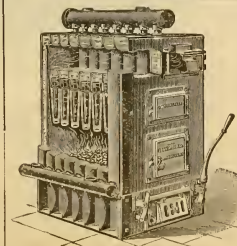
WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**GLASS** FOR GREENHOUSES, CONSERVATORIES, GRAPERIES, HOTBEDS AND ALL FLORISTS' USE GENERALLY, AT LOWEST RATES.  
**L. HARRIS & SON,**  
 497 W. BROADWAY, NEW YORK, 89 LIBERTY ST., NEW YORK  
 401. Houston and Blavier Sts. 87. Broadway and Clark Sts.  
 WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**CALIFORNIA RED CEDAR**  
 Never Decays.  
**A. DIETSCH & CO. 619 Sheffield Avenue, CHICAGO.**  
 RED CEDAR AND CYPRESS GREENHOUSE MATERIAL.  
 WHEN WRITING MENTION THE FLORIST'S EXCHANGE

SEND FOR OUR NEW CATALOGUE, WHICH SHOWS  
**The New Automatic Cable Ventilator**  
 As it is put up in the house complete. We also give you prices with a guarantee that each machine sent out will operate your houses successfully. See machine now made in two sizes.  
**A. Q. WOLF & BRO., Dayton, Ohio.**  
 WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**STANDARD VENTILATING MACHINE.**  
 NONE EQUAL IT IN Strength AND Durability  
 NOTHING Flimsy OR Complicated about it.  
**E. HIPPARD, YOUNGSTOWN, OHIO.**  
 WHEN WRITING MENTION THE FLORIST'S EXCHANGE



**ATTENTION, FLORISTS!**  
 It will be to your advantage to look into the merits of the Scollay "Invincible" Hot Water Boiler.  
 It is all that its name implies, and don't forget it.  
 Cuts and full information mailed on application.

**JOHN A. SCOLLAY,**  
 74 & 76 MYRTLE AVE.,  
**BROOKLYN, NEW YORK.**  
 WHEN WRITING MENTION THE FLORIST'S EXCHANGE

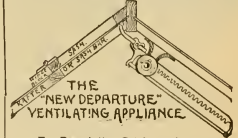
**Extra! Improved Chilling.**  
 Roller bearing, self-overflowing device, automatic stop, solid line chain, makes the IMPROVED CHILLING the most perfect apparatus in the market.  
 Write for catalogue and prices before placing your orders elsewhere.  
**Quaker City Machine Co., RICHMOND, IND.**

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**SUMMER IN WINTER**  
 By Using  
**Standard Greenhouse Boilers**  
 One cent gets our Catalogue,  
**GIBLIN & CO., CATAUGA, N. Y.**  
 WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**MASTICA**  
 For Glazing Greenhouses. A substitute for putty, superior in every way. TESTED BY AMERICAN AND BRITISH GLAZING MACHINISTS were given Highest Award of S.A.F. at Pittsburg. Address for circular,  
**F. D. PIERCE CO., 170 Fulton St., N. Y. Sole Manufacturers.**

IF YOU WANT  
**A GOOD SASH LIFT**  
 For a Very Little Money Get



For Descriptive Catalogue Send to  
**J. D. CARMODY, Evansville, Ind.**

**Modern Greenhouse Heating.**

One of our boilers, 10,880 feet of two inch pipe, and sixty tons of coal will heat 22,400 feet of glass (four 30x200 feet double gable houses) to 65 degrees in coldest winter weather; they have done it, and will do it for you—we guarantee it. Our boilers are not only the best of their kind, but the best made. They have the largest "firelight" direct surface, are the easiest cleaned, handled and set up; and from engineering facts, they are the ideal frictionless, economical water heating boiler of our day.

Plenty's Horticultural Works,  
 148-156 Randolph Ave.,  
**JERSEY CITY, N. J.**  
 WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**CYPRESS GREENHOUSE MATERIAL OF ANY DESCRIPTION**  
**JOHN C. MONINGER Co.**  
 412 to 422 HAWTHORNE AV. CHICAGO, ILL.  
 WHEN WRITING MENTION THE FLORIST'S EXCHANGE

"GOLDEN BEAUTY."

New Yellow Canna, clear, bright color, massive flower, continuous bloomer, vigorous grower, dwarf habit. As good as the best. 50c. each; \$4.00 per doz.; \$25.00 per 100. READY NOW.

NEW CANNAS

"JOHN WHITE."

The beautiful new variegated leaf variety. Finest plant for all decorative purposes produced in years. Stock in superb condition and READY NOW. 75c. each; \$7.50 per doz.; \$50.00 per 100.

Also QUEEN CHARLOTTE, ALPHONSE BOUVIER, MME. CROZY, J. C. VAUGHAN, J. D. CABOS, EX. CRAMPBEL. \$1.00 per doz.; \$6.00 per 100. All from 4 inch pots. Cash or reference with orders. Circular and colored plate for the asking.

JOHN WHITE, Elizabeth, New Jersey.

CLEMATIS \* CARNATIONS \* CHRYSANTHEMUMS

G. EISELE 11th & Jefferson Sts. Phila Pa. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Choice New Double and Brant GERANIUMS

Varieties that have been tested, and are to prove good selling sorts. M. A. Borie Alic. Decidedly the best dahl variety up to date. 3 in. pots, 25c. each. Claire Frobourg. Best pure pink. 3 in. pots, 25c. each; \$2.00 per doz. Marquis de Calard. A fine, new variety. Color a very attractive shade of orange. 15c. each. Mme. Buchner. Best white to date. 15c. each; \$1.00 per doz. Montaigne 2. Healthier habit and deeper shade of pink than the original. De Lacépède 2. Rose pink. This and the preceding variety were selected from a number of seedlings of 1894 as improvements on the parent sorts. 10c. each; \$1.00 per doz. M. Alphonce Ricard. Orange red; immense trusses, holding perfect for a long time. A splendid market sort. 10c. each; \$1.00 per doz. J. J. Harrison. Very large flowers and trusses, and immense earles, and dwarf in habit than Double Gen. Grand. 10c. each; \$1.00 per doz. Markets Pinon. Clear rose, dwarf habit, and a very profuse bloomer. 10c. each; \$1.00 per doz. 20 Select Standard Varieties, Strong Plants, mostly from 3 in. pots, \$1.00 per 100. Special prices on large lots from 2 1/2 in. pots.

ALSO A FINE ASSORTMENT OF FLOWERING AND REX BEGONIAS AND GENERAL BEGONIA PLANTS.

J. NICOL, Oak St., Jersey City, N. J. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

GERANIUMS!

Double Grant, La Favorite, S. A. Nutt, out of 2 1/2 inch pots, five plants, \$2.00 per 100; 4 inch pot plants, extra strong, \$3.00 per 100. DORMANT CANNAS. Mme. Crozy, \$2.50 per 100, fine; mixed, \$2.00 per 100. CUTTINGS of Daybreak, Wm. Scott, McGowan, Portia Carnations, \$1.00 per 100, free by mail. HARRISH LILIES, fine plants, 8 cts. per bud. PAUL MADER, East Stroudsburg, Pa.

WELCH BROTHERS, DEALERS IN FLORISTS' SUPPLIES, No. 2 Beacon Street, - BOSTON.

Wire Designs, Wheat Sheaves, Baskets, Immortelles, Cape Flowers, Cut Flowers, Boxes, and all other supplies, at prices to meet competition.



SEASON 1897. Trade List of Select FLOWER SEEDS, SPRING BULBS and SUNDRIES, Just issued and mailed to applicants; send business card. Address August Bolker & Sons, 186 and 128 P. O. Station E, NEW YORK.

Florists' Supplies.

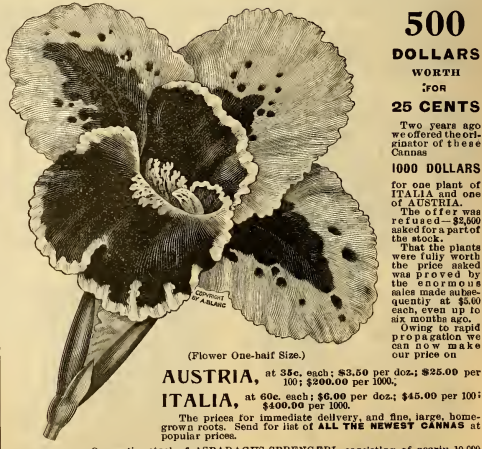
Largest Stock in the Country.

All goods up to date, and of superior quality. Send for Illustrated Catalogue.

H. BAYERSDORFER & CO., PHILADELPHIA, PA. 56 N. FOURTH STREET.

Decorative border containing text: COPIES OF AMERICAN GARDENING WILL BE MAILED TO 50,000 SATURDAY, MARCH 13, 1897. We believe advertisers generally will recognize the value of a thorough representation in this Special Edition, and we herewith solicit your patronage. Advertising Pays But Advertising in American Gardening Pays Best. No advance in rates over our regular charge of 25 cents per gate line will be made. Copy for your advert. in this issue must be in our hands not later than March 6th. AMERICAN GARDENING, P. O. Box 1697, NEW YORK.

WE MEET THE PRICES OF ALL COMPETITORS ON NEW CANNAS "Italia" and "Austria."



500 DOLLARS WORTH FOR 25 CENTS

TWO YEARS ago we offered the originator of these Cannas 1000 DOLLARS

for one plant of ITALIA and one of AUSTRIA.

The offer was refused - \$2,500 asked for a part of the stock. That the plants were fully worth the price asked was proved by the enormous sales made subsequently at \$5.00 each, even up to six months ago. Owing to rapid production we can now make our price on

AUSTRIA, at 35c. each; \$3.50 per doz.; \$35.00 per 100; \$290.00 per 1000. ITALIA, at 60c. each; \$6.00 per doz.; \$45.00 per 100; \$400.00 per 1000.

The prices for immediate delivery, and fine large, home-grown roots. Send for list of ALL THE NEWEST CANNAS at popular prices.

ALL SOLD. Our entire stock of ASPERAGUS SPRENGER, consisting of nearly 10,000 plants, was sold to Mr. Robert Craig - he knows a good thing when he sees it. NEW ROSES, CLIMBING WOOTTON, CARMINE PILLAR, \$2.00 per doz.; \$10.00 per 100.

\* Send for catalogue of novelties. A. BLANC & CO., 214 AND 216 N. 11th STREET PHILADELPHIA.

NEW CAPE FLOWERS.

A. HERRMANN, 404-412 E. 34th St, New York, Near Ferry.

Manufacturer of Floral Designs. Importer and Dealer in Florists' Supplies.

Write for Catalogue. Free to the trade. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

HOW FLORISTS MAY MAKE AN EXTRA PROFIT

By utilizing space between crops, etc., is fully explained in

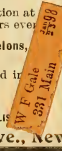
THE FORCING-BOOK

An Illustrated Manual of the Cultivation of Vegetables Under Glass.

By Prof. L. H. BAILEY, in the GARDEN-CRAFT SERIES of Cornell University.

It includes not only the results of extensive experimentation at home, but also the experience of the most successful growers-over the world. How to force Tomatoes, Cucumbers, Lettuce, Asparagus, Melons, etc. How to Build, Heat, Ventilate and Manage Forcing-houses. How to fight weeds and all kinds of diseases. All this is told in a simple, right up to date. 206 pp., flexible cloth. 16 cts.

MAILED ON RECEIPT OF PRICE, \$1.00, BY THE PUBLISHERS THE MACMILLAN COMPANY, 66 Fifth Ave., New York



# THE FLORISTS' EXCHANGE

We are a straight shoot and aim to grow into a vigorous plant.

A WEEKLY MEDIUM OF INTERCHANGE FOR FLORISTS, NURSERYMEN, SEEDSMEN AND THE TRADE IN GENERAL.

VOL. IX. No. 10.

NEW YORK, MARCH 6, 1897.

One Dollar Per Year.

## A FEW LEADERS!

Stock guaranteed in Sound, Perfect Condition.  
Fully up to Size as represented.

**TUBEROUS ROOTED BEGONIAS.** Single, extra large bulbs, \$2.50 per hundred; \$22.50 per thousand.

**TUBEROSES.** "Every Bulb's a Pearl." Selected 4 to 6 in. bulbs, \$7.50 per thousand; special prices on large quantities.

**JAPANESE LILIES.** New crop now ready for delivery. Our bulbs are in superb condition, quantity limited. (See last number of FLORISTS' EXCHANGE for prices.)

**ASTER SEED.** New crop seed of all varieties, in separate colors and mixed: Comet, Victoria, Truffaut's, Chrysanthemum, Scemple's, &c. Write for our Trade Catalogue, if you have not a copy.

**SEEDS IN PICTORIAL PACKETS, FOR RETAILING.** \$10.00 per 1000, assorted Flowers and Vegetables. Colored Hangers free with all orders.

WE CARRY ALL KINDS OF SEEDS AND BULBS.

## SPIRÆA ANTHONY WATERER FOR EASTER FORCING.

We offer a fine lot of this beautiful new Spiræa, which is excellent for Easter forcing. The plant is of a dwarf, compact habit, producing a profusion of bright, crimson flowers, and will command a ready sale owing to its showy trusses.

3 inch pots, 1 year old, \$1.50 per doz.; \$10.00 per 100.  
4 inch pots, 2 years old, \$2.50 per doz., \$25.00 per 100.

**PITCHER & MANDA, Short Hills, N. J.**  
JOHN N. MAY, Receiver.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

We Have an Exceptionally Fine Stock of

## LARGE SIZED ARECAS.

Very bushy plants, 9 in. pots, 34 ft. high above pot, 44 each; larger plants, 9 in. pots, 4 ft. high above pot, 85 each. These plants are in perfect shape, very bushy, and are exceptionally good value for the price.

LARGE SIZED ARECAS ARE SCARCE.

For price of smaller sized Arecas and other

## Palms and Decorative Plants

See our wholesale list, which will be mailed free on application.

## TUBEROUS BEGONIAS

VERY FINEST STRAINS OF BOTH.

Separate colors, white, pink, scarlet, and yellow.  
SINGLE, \$3 per 100, DOUBLE, \$8 per 100.

## GLOXINIAS

Finest strain, Crassifolia Erecta Hybrida Grandiflora, \$4 per 100.

**Tuberose Pearl** Extra quality, very fine bulbs, \$1 per 100; \$7.50 per 1000.

## F. R. PERSON CO.,

TARRYTOWN-ON-HUDSON, NEW YORK.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## SEND FOR OUR PRICE LIST OF HIGH GRADE SEEDS AND BULBS

If You Have Not Received One.

FLOWER AND VEGETABLE SEEDS IN PACKETS.

## We Do Not "Commission" or Place Seeds Out "On Sale."

But we supply Florists with seeds put up in handsome colored packets for retailing at \$1.25 per 100, or \$10.00 per 1000. These Packets, besides having a lithograph of the flower the common seed botanical name on the front, have a description of the flower and outline directions on the back and a blank space for name and address, which will be printed on same if ordered in 100 lots or more. SEND FOR SAMPLE.

Price of Peas, Beans and Corn in Packets, \$4.00 Per 100.

**DWARF PEARL TUBEROSE BULBS,** 4 to 6 inches in circumference, \$7.50 per 1000.

**TUBEROUS ROOTED BEGONIAS,** sound stock, 6 colors, separate, \$3.00 per 100.

**GLOXINIAS,** named varieties, \$5.00 per 100.

In Making Up Your Order for Florists' Flower Seeds, Don't Fail to Include Some

**ALLEN'S DEFIANCE MIGNONETTE** Offered this Season at \$1.50 per oz. and 25 cts. per packet, containing 1-8 ounce. . . . .

**F. E. McALLISTER CO.** Seed and Bulb Merchants, 69 Cortlandt St. N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## Rose Hill Nurseries.

THE LARGEST AND FINEST STOCK IN AMERICA.

ARECA LUTESCENS.		LATANIA HORNICHA.	
3 1/2 in. pots, bushy, 12 to 15 in. high.	DOZ. HEN. \$4.00 \$30.00	5 in. pots, 2 ft. specimens.	\$15.00 doz.
5 "	18 to 20 in. high.	6 "	perfect specimens, 7-9 leaves, 18.00 "
5 "	20 to 22 in. high.	7 "	grandest lot in the country. Open for inspection.
8-9 "	24 to 26 ft. \$4, \$5 and \$8 each.		
COCOS WEDDELIANA.		LIVISTONA ROTUNDIFOLIA.	
3 1/2 in. pots, extra fine, 5 and 8 leaves.	DOZ. HEN. \$2.00 \$15.00	4 in. pots, 10 to 12 in. high.	\$1.25 each; \$15.00 doz.
3 in. pots, extra fine, very strong selected.	3.50 25.00	5 "	12 to 15 " 1.50 " 18.00 "
3 1/2 in. pots, extra fine, very strong selected.	4.00 28.00		
3 1/2 in. pots, extra fine, very strong selected.	4.00 28.00	DRACÆNAS.—(In variety.)	
		Without doubt or exception we have the grandest lot in the country. Open for inspection.	
KENTIA BELMOREANA.		5 in. pots, \$4.00 per doz.	
5 in. pots, extra strong, bushy, 5 to 6 leaves, 15 to 20 inches high.	EACH DOZ. \$4.75 \$5.00	6 in. pots, 6.00 " (colored and coloring).	
3 in. pots, heavy, 2 to 2 1/2 ft. high.	2.50 18.00	<b>FERNS. FERNS. FERNS.</b>	
7 in. pots, heavy, 2 to 2 1/2 ft. high.	2.00 14.00	If you are going to buy, it will pay you to get a sample of our grand stock.	
8 in. pots, 30 to 40 in., decorative size	\$3.50 to \$6.00 each.	2 1/2 in. pots, 10 5 Vars., \$4.00 per 100; \$35.00 per 1000	
KENTIA FORSTERIANA.		Nephrolepis cordata compacta.	
3 in. pots, 12 to 15 inches high.	DOZ. HEN. \$2.00 15.00	The largest stock of this grand variety.	
4 "	15 to 18 " 4.50 35.00	3 in. pots, fine stock . . . . . \$15.00 per 100	
6 "	2 to 2 1/2 ft. high, 1 1/2 inch each.	6 " fine specimens, 15-18 in. high, \$4.00 per doz.; \$35.00 per 100.	
7 "	2 to 2 1/2 " \$2 to \$2.50 "	Pteris Umbrosa Giganteum.	
		4 in. pots . . . . . \$35.00 per 100	
PHENIX RECLINATA.		5 " . . . . . \$40.00 per doz.	
6 1/2 in. pots, 15 to 18 in. high.	\$1.00 each; \$10.00 doz.	6 " . . . . . 50 each.	

Our above list of plants taken from top of pots. The above is a brief list of our specialties. Our new wholesale list, giving description of all new novelties, will be sent you on request. Do not order till you see it.

Write, Telegraph or Telephone us and our Carriage will meet you.

Address all communications to the Nurseries.

## SIEBRECHT & SON,

N. Y. OFFICE: 409 5 Ave. NEW ROCHELLE, N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# DO NOT JUMP

to hasty conclusions before comparing our figures . . .



- Tuberoses, 4 to 5.....1000, \$7 25
- Caladium Esculentum med. 100, 8 00
- Gladiolus, red and scarlet mixed.....1000, 8 00
- Cinnamon Vines..... 100, 3 00
- Madeira Vines..... 100, 1 50
- Bamboo Canes.....1000, 7 00
- Clay's Fertilizer.....86 lbs., 8 50

## WM. ELLIOTT & SONS

NEW YORK.

### Gladioli . . .

THE BEST IN AMERICA.  
Geraniums, 'Mums, Carnations, etc.  
Write for prices.  
**BETSCHER BROS.,**  
Canal Dover, O.

### JUST RECEIVED FROM JAPAN

## JAPANESE IMPERIAL CONVOLVULUS SEED.

Very bright, plump and well cleaned. Grown by H. K. Amour, an American, resident in Japan for 20 years. A mixture of the finest and most carefully selected strains. 1.00 per lb.; \$40.00 per 10 lb. Order as soon. Supply limited. Terms net cash.

**WHEN WRITING MENTION THE FLORIST'S EXCHANGE**

**Asters:** Giant White Comet, pkt., 25c.; oz., \$2.00. Tall Victoria, mixed, pkt., 15c.; oz., \$1.00. Trudart's Pinyon Petalum, pkt., 15c.; oz., 75c. Queen of the Market, mixed, all colors, etc., 5c. (separate colors all sold).

**Bahamas, Double Cactus, pkt., 10c.**

**Cytophilla, White, pkt., 10c.**

**Marguerite Carnations, trade pkt., 10c.**

**Phlox Drummondii, Dwarf, mixed, pkt., 10c.; 25 oz., 35c.**

**Verbena, Mammoth, oz., 40c.**

**Cauliflower, Eclipse, novelty, pkt., 15c.**

Write for sample and get your orders in before the 40 per cent. dates are in force.

**H. BEAULIEU, Woodhaven, N. Y.**

**WHEN WRITING MENTION THE FLORIST'S EXCHANGE**

Seed. FRESH

	PER 100	ON HAND	NO. 3000
Chrysanthemum	\$2.00	\$2.50	
Delphinium	2.50	3.00	
Gladiolus	1.50	2.00	
Impatiens	1.50	2.00	
Linum catharticum	1.00	1.50	
Phlox paniculata	1.00	1.50	
Phlox subulata	1.00	1.50	
Phlox tuberosa	1.00	1.50	
Phlox virginiana	1.00	1.50	
Phlox	1.00	1.50	
Phlox	1.00	1.50	
Phlox	1.00	1.50	
Phlox	1.00	1.50	
Phlox	1.00	1.50	

J. L. SCHILLER, Rutherford, N. J.

**WHEN WRITING MENTION THE FLORIST'S EXCHANGE**

## SEEDS FOR PROFIT

FLORISTS' Sweet Peas

Wholesale Catalogue on application.

**WEBER & DON,** Seed Merchants and Growers  
114 Chambers St., New York City.

**WHEN WRITING MENTION THE FLORIST'S EXCHANGE**

## BURPEE'S SEEDS

PHILADELPHIA

WHOLESALE-PRICELIST FOR FLORISTS AND MARKET GARDENERS

**WHEN WRITING MENTION THE FLORIST'S EXCHANGE**

### BEGONIAS, TUBEROSES AND GLADIOLI.

I have to offer an Extra Choice lot of Tuberoses Rooted Begonias. Single, large size, in 4 separate colors—white, pink, yellow and scarlet—at the following prices—100 for \$2.00; 500 for \$8.00; 1,000 for \$14.00.

**EXCELSIOR PEARL TUBEROSE BULBS**—Large size at \$1.00 per 100; 500 for \$4.00; 1,000 for \$7.00. Second size at 50 cents per 100, and for \$1.00 for \$3.00.

**GLADIOLI**—Finest mixed colors on the market. Large size, \$1.00 for 100; 500 for \$4.00; 1,000 for \$7.00. Second size at 50 cents per 100, and for \$1.00 for \$3.00.

All these Bulbs are the best on the market, and I guarantee them to grow true to name. Price applied for bulbs to be sent by express or freight. If large quantities are wanted, ask for special quotations and stock limited, but all orders will be filled promptly as long as a reasonable stock.

**Address: Price applied for.**

**W. B. MILLER, Succedano, Box 200, Rose Hill, New York**

### GET THE BEST

## ASTER SEED

of the celebrated Simple Aster, separate colors, pink and white, also mixed. Seed well cleaned, plump and good. Crop of 1896. For sale in any desired quantity by

## JAMES SEMPLE, Box 2, BELLEVUE, PA.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

## GLADIOLI

—FOR—

### DEALERS AND FLORISTS.

Not cheap stuff to be gotten rid of at any price, but **HIGH GRADE,** at reasonable rates. Price List on application. State quantity desired.

**CUSHMAN GLADIOLUS CO.,**  
Euclid, O.

Mention this Paper.

### ORDER YOUR GOODS FOR SUMMER DELIVERY IN TIME

Early Orders are the **BEST,** get the **BEST STOCK,** get the **BEST PRICES**

We quote you now for delivery in **JULY to SEPTEMBER.**

**Freesia refracta alba,** Tree Fern Stems,  
**Callia Ethiopica,** Palm Seeds,  
**Li. Longiflorum,** California Forcing  
**Chinese Narcissus,** Bulbs.

NEW PRICE LIST on above out NOW. Send it for.

Address all communications to  
**H. H. BERGER & CO., (Established 1878.) San Francisco, Cal.**

**WHEN WRITING MENTION THE FLORIST'S EXCHANGE**

## A FEW SENSATIONS

**Asparagus Sprengeri.** Just received advice from the disseminators of this grand plant in Europe to offer the American trade large imported plants from the open ground, per March delivery, as follows:  
3 year old strong plants... \$5 per 100; Special Prices for 1 1/2 year old strong plants... \$15 per 100; Larger Quantities, 14c.

**Canna, Austria and Italia.** Seed \$1.00 and get a large sample bulb of each by mail. Austria, \$25.00 per 100; Italia, \$50.00 per 100. When buying from us you get the original stock, which is the best propagated and forced to its full limit, but second field-grown bulbs containing numerous eyes. Special prices for larger quantities.

**Cocos Weddelliana Seed.** Fresh seed just arrived. 55.00 per 1000. Box containing 1000 seeds, \$30.00.

**Lily of the Valley.** Choice selected forcing slips. \$7.50 per 1000, or box of 2500 slips, \$17.00.

**Tuberoses Bulbs.** "Dwarf Pearl." As fine a sample as ever seen. Hand packed, 60 in a box. \$6.00 per box, or 8 tubs for \$50.00. Equally low in proportion.

**Caladium Esculentum.** "Elephant's Ears." Any size bulb you want from 8 to 9 inches in circumference; clean and sound. \$5.00 per box, or 10 tubs for \$50.00. Equally low in proportion.

**Gladiolus, Begonias, Gloxinias, Cannas and Lilies.**

**Asparagus Plumosus Nanus Seed.** \$1.00 per 1000 seed.

**Sweet Peas.** Emily Henderson, 25c. Semple's Aster, white, pink, or mixed, per lb.; 5 lbs. for \$1.00.

**GLUCAS & BODDINGTON CO., PLANTS, SEEDS AND BULBS,**  
Importers, Exporters and Growers' Agents of  
301 and 503 W. 13th St., New York City.

**Telephone Call, 403-18th St.**

**WHEN WRITING MENTION THE FLORIST'S EXCHANGE**

## LILIES.

Large blooming bulbs of AMARYLLIS JORNSONII at 25 cts. apiece. Very large SPOTTED CALLA at 10 cts. PINK FAIRY LILIES at 3 cts. MRS. M. CAVANAUGH, 114 Chambers St., New York City.

## ASTER SEED.

Vick's Branching, White and Simple's White and Pink \$1.25 per 100; Snowball, \$1.00 per oz.  
Seed well cleaned and sent from selected stock, crop of 1896.  
For sale in any desired quantity by  
**J. C. KETNER,**  
587 Monroe Ave., Rochester, N. Y.

**WHEN WRITING MENTION THE FLORIST'S EXCHANGE**

## FROSTED PEACH SEED.

I am prepared to supply No. 1 Natural Sweet Peach ready for spring planting, at \$1.50 per bushel; one barrel of 8 bushels for \$10.00. Sample by mail those who wish to purchase. Also Jersey Yellow and Red Sweet Potato Seed in this season, at \$1.00 per barrel of full 8 bushels. Packed to carry safely. All in first-class condition. Address  
**CHARLES BLACK, Hightstown, N. J.**

**WHEN WRITING MENTION THE FLORIST'S EXCHANGE**

## ASTER SEED.

Fresh Seed from Finest Flowers.

Simple's, white, pink and blue, per oz. #2 00  
Giant Comet, white, per oz. 2.00  
Comet, mixed, per oz. 2.00

**MISS IDA NEWELL, Delaware, Ohio.**  
**WHEN WRITING MENTION THE FLORIST'S EXCHANGE**

## Valley for Easter.

**STRONG PIPES, \$8.00 per 1000, CASH.**  
**EDWIN A. SEIDEWITZ,**  
36 W. Lexington St., BALTIMORE, MD.

**WHEN WRITING MENTION THE FLORIST'S EXCHANGE**

## ASTER SEED!

White Branching and Simple's White and Pink, \$1.25 per 100.  
Seed Well Cleaned Crop of 1896.

**HENRY WINDHEIM, Avondale, N. J.**  
**WHEN WRITING MENTION THE FLORIST'S EXCHANGE**

## Single Begonia Bulbs

in separate colors. Per 100, \$2.50; per 1000, \$20.00. The Pearl, At. Per 100, \$1.00; per 1000, \$10.00. All other single-colored bulbs on hand. Ask for price list.

**MULSEBOSCH BROS., Englewood, N. J.**  
**WHEN WRITING MENTION THE FLORIST'S EXCHANGE**

## PAW SEED.

Washington. Sonora, Per 100, \$1.00; per 1000, \$10.00; per 1000, \$50.00.

**GALIFORNIA NURSERY CO., Niles, Cal.**  
**WHEN WRITING MENTION THE FLORIST'S EXCHANGE**

## GLOXINIAS,

Small, Healthy Tubers.

Samples and Price free on application.

**MAX RICHTER,**  
Port Richmond, N. Y.

**WHEN WRITING MENTION THE FLORIST'S EXCHANGE**

**WE ARE HEADQUARTERS ON BULBS FOR FORCING, FLOWER SEEDS FOR FLORISTS, ENGLISH MUSHROOM SPAWN.**

SPECIAL PRICES ON APPLICATION.

**JOHN GARDINER & CO., Seedsmen,**  
Box 1306, Philadelphia, Pa.

**WHEN WRITING MENTION THE FLORIST'S EXCHANGE**

# CANNAS AND CROTONS.

1000 CANNAS for March delivery, in strong demand roots for \$30.00.

Alta Rhone, Bouvier, Chae Henderson, Capt. de Szaron, Legendre, Elemenst, Etiant, J. Rhone, F. Neuvise, Florence Vaughan, Gredfry, St. Hincry, Jacquemin-Bonfont, Maurice Mussy, Madame Crozy, P. J. Berckmans, Paul Brunet, Queen Charlotte.  
Purchasers select one as far as practicable, but in no case in excess of any variety.

100 CROTONS in 10 to 15 varieties, 2 inch pots, \$15.00. Our stock of Crotons is remarkably large.

P. J. BERCKMANS, Fruitland Nurseries, Augusta, Ga.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# Canna Burbank

THE BEST OF THE NEW ORCHID FLOWERED CLASS. A PURE YELLOW.

Each 75c.; 6 for \$4.00.

SHEEP MANURE, per 100 lbs. \$2.25; \$10 per 500 lbs.

VAUGHAN'S SEED STORE, CHICAGO, ILL. NEW YORK, N. Y.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# DAHLIAS.

Large whole roots, 6c. each for cash C. O. P. which is 25 per cent. discount upon former credit price. Large whole roots are heavy; have express in buying best home. These are named varieties, carefully labelled. Divided roots, 6c. each.

J. A. KENISTON, 281 Merrimac St., Newburyport, Mass.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

# Prize-Winning DAHLIAS

AN UNPRECEDENTED RECORD.

23 First Prizes, Certificate of Merit, 2 Diplomas, and highest mention everywhere.

If you want the Very best Dahlias that bloom, and for our 1897 descriptive trade list now ready. Address

W. P. PEACOCK, Dahlia Specialist, ATCO, N. J.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Your is a good paper advertisement in far our business. J. HENRY RUFF & SONS, Shiremanstown, Pa., June 1, '96.

# WATER LILIES

Our stock is unequalled in the United States; see our quarterly trade list 6d general catalogue. Estimates furnished.

HENRY A. DREER, 714 Chestnut Street, PHILADELPHIA.

# Berlin Lily of the Valley Pips

IN CASES OF 2,500, FROM COLD STORAGE.

Apply to C. C. ABEL & CO., P. O. BOX 920, NEW YORK, N. Y.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# GERANIUMS

GREEN PLANTS READY NOW \$40.00 per 100.

CHAS. H. ALLEN, Floral Park, N. Y.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# ROSES! ROSES! ROSES!

STRONG FIELD-GROWN DORMANT PLANTS.

Large stock Gen. Jacqueminot, Paul Neyron, Ulrich Brunner, Magna Charta, Baroness Rothschild, and other leading varieties of Hybrid Perpetuals, 75c. per 100; \$5.00 per 1000.

MOSS ROSES in the ten best sorts, 90c. per 100. CLIMBING ROSES, Baltimore Belle, Prairie Queen, Tennessee Belle, and Seven Sisters, strong, 2 years, \$6 per 100.

Wichuraiana (Memorial Rose) field-grown, \$3.00 per 100.

CANNAS. New Giant Flowered AUSTRIA, strong, 4 in. pot plants, \$3.00 per doz.; \$20 per 100. A large stock of the cream of the older varieties, such as Florence Vaughan, Queen Charlotte, Eldorado, Sunbeam, Alphonse Bovier, Charles Henderson, President Carnot, Admiral Axellan, Edward Mieg, etc. Do not fail to get our prices before buying.

CALADIUM ESCULENTUM. Good centers, 7 1/2 to 10 in., \$5 per 100. 6 to 7 1/2 in., \$3 per 100. 5 to 6 in., \$2 per 100.

BEGONIA PURITY. A new pure white of the semperflorens type, very fine flowering, \$2.00 per doz.

GERANIUMS. Strong 2 1/2 in. pots, large stock of S. A. Nutt, Marvell, Heteranthe, La Favorite, and other best bedding sorts, \$25 per 1000.

Immense stock of Fruit Trees, Nut Bearing Trees, Grape Vines, and Small Fruits. One of the largest, if not the largest, assortment of Ornamental Trees and Shrubs, Climbing Vines, Bulbs, Hardy Perennials, etc., in America. And 32 greenhouses filled with what the average florist is most likely to want. Correspondence solicited. Catalogues and trade lists free.

THE STORRS & HARRISON CO., Painesville, Ohio.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# SEED TRADE REPORT.

Kind attention is called to the following, which is interesting in the column, solicited. Address Editor Seed Trade, care of Florists' Exchange, New York, N. Y.

## Free Seed Distribution.

As announced in "The Florists' Exchange" of Feb. 27, a joint meeting of seedsmen was held in Washington at noon, March 3, to discuss the proposed bill before Congress affecting the seed industries of this country, and particularly the best method to pursue with a view to securing further promiscuous distribution of seeds on the part of the Government.

The first action of the informal meeting was to agree upon a letter to be presented to the President, as per copy printed herewith. Notwithstanding that it was Cabinet Day, upon which the President's private secretary, Mr. Thurber, as a rule declines to receive callers, an exception was made in favor of the Committee of Seedsmen. Mr. Thurber stated that he would attach this protest to the Agricultural Appropriation bill, so that when the President took up the Appropriation bill he would be made fully cognizant of the matter before him.

After the return of the committee from the White House the meeting, upon motion of Mr. Burpee, unanimously elected Mr. T. W. Wood of Richmond, Va., chairman. After the reading of a list of the names of a number of letters, which he had received from seedsmen who could not be present, but who were ready to open their purses to promises of subscriptions from firms present; and other firms represented, a full and free discussion followed. It was decided finally that the best plan would be to elect an Executive Committee to represent the seed trade generally, with full power to take such prompt action as might best likely result in the killing of the Appropriation bill in every manner present that the President would not sign the present bill, hence the whole question of the Agricultural Appropriation bill must necessarily be taken up by the Fifty-fifth Congress, which it is thought will convene within two or three weeks. On motion the following list of Seedsmen was elected unanimously: T. W. Wood, chairman; Jerome B. Rice, Burnett Landreth, A. A. Severance and W. Allen Burpee.

Upon motion of Mr. Brotherton it was resolved that the chairman of the committee employ a secretary, who would act as that the committee be empowered to extend all funds raised by voluntary contributions in such a manner as the committee might deem best. Any funds remaining in the treasury after the work is done to be returned back to the contributors. It was the sense of the meeting that seedsmen generally throughout the United States, including all local merchants handling seeds, should be notified immediately of the necessity of writing personal protests to the members of the new Congress, as printed in the "Florists' Exchange" of Feb. 27. To enable the committee to use every means to "make public opinion" in the short time it is necessary that funds be subscribed quickly and liberally.

The meeting adjourned shortly after 4 P. M. when a number of seedsmen called upon Secretary Wood and Dr. Dandridge, both of whom have done so much to encourage seedsmen in their fight against this proposed competition of Governmental gratuities.

The Hon. Mr. Morton gave the welcome invitation to the members of the committee to protest against the appropriation of \$150,000 for the purchase of seeds, as contained in the bill before Congress. He introduced a bill, that he had strongly indorsed this protest, which would be received by the President. He stated that the seedsmen as mentioned above, when the Agricultural bill came before him for his consideration.

## Copy of Letter to President Cleveland.

To the President of the United States: We, members of leading firms of seed merchants, and voking the name of the committee of seedsmen and growers throughout the United States, assembled to consider means for further increasing public information regarding the continued promiscuous distribution of seeds by Congress, desire to express to you our earnest protest against the proposed appropriation of the Agricultural Appropriation bill last year. We venture to express the hope that you will also decline to sign the present bill. Should you decline to sign the present

bill, as we earnestly petition, we believe it is possible to convince a majority of the members of Congress that the promiscuous distribution of seeds means not only unfair competition with an important, legitimate industry, but also a serious loss to the country as expressed by your Secretary of Agriculture, the Hon. J. Sterling Morton, a most offensive form of favoritism.

American people love fair play. Our farmers and gardeners are not paupers, whose itching palms are extended for the paltry gift of five packets of common seeds, which could be purchased for ten times as much. If our seedsmen do not act at nearly any village store, With high esteem, respectfully submitted,

W. ALLEN BURPEE, T. W. WOOD, W. BROTHERTON, M. S. GRIFITH, Committee, Hon. Grover Cleveland, President of the United States, Washington, D. C.

The subjoined correspondence proves that free seed distribution has one firm advocate at Washington. It is the result of the publication of the correspondence of both gentlemen which, although perhaps leading up to the formation of the Executive Committee, has not bearing on the present controversy.

Botanic Gardens, Washington, D. C., Feb. 20, 1897. Mr. Albee Burpee, Contractor for the Supply of United States Ornamental Seed for the Agricultural Department.

Dear Sir: I received the copies of the Philadelphia "Times" marked. Your picture and the compliments to you and your great establishment are all mine, but you will excuse me if I object to the opinion of both you and Secretary Morton. How either of you can accept money for doing what you think wrong needs some explanation. I think the distribution of seeds to our friends and kindred establishments a possibility, it is your best evolving agent.

It is the dictation of the necessities of the industrious farmers and struggling artisans all over the Union, but especially in the South and West. That there have been great mistakes made in the matter is true. None has made more than the present incumbent. I do not think it belittles the business in every way. I regret to think you coincide with them. "The number of our people who are in my opinion, amply qualified to elect their agents. It goes without argument that our Government should be for the people. The answer of the Secretary in his letter to you about paternalism I would like to suggest an amendment, viz. call it "materialism," using paternalism for the expenditures at West Point and Annapolis in the interest of the building of the forts and blowing up Hell Gate and other expenditures in the interest of commerce.

Agriculture needs a motherly interest. The diffusion of knowledge among the toiling millions is all important. Increase will follow as a consequence. The remedy I made to you and our good friends, Landreth and Dreeer, when we met a short time ago, "That seed was the origin of all our ills," seemed to please you. It is true, but might die for want of a better. The empty much, I do not believe, should never be hungry much. "

Very truly yours, I have all good had inspired President-elect McKinley and Senator Allison to select James Wilson of Iowa Secretary of Agriculture. I do not think our partnership will disturb his relations with the people's legislators. When you were in the building of the new law, the friendship and respect of Randall, from your city; Kerr, the Speaker; Milton Saymon, the Chief Justice; and the members on the Democratic side of the House, including his countryman, James B. Beck of Indiana, who is now the Chief Justice, the writer that he never could master the rules like Wilson, his practice in courts of law interfering with the business of the State. Wilson was the best equipped man, as to the rules, on the floor of the House. As a member of a large committee, and as a member, his mastery report on "Transportation of Cotton to the Seaboard," remains a monumental work. I do not think it is fair to say. What other member would have spent eight days on a cattle car from West to East as he did to get to the origin of the great wars worth untold millions to this nation.

As to his patriotism, this thoroughly American citizen, Scotchman, Scots Irish brother as to who should go to the war or stay home and manage the farm. For family reasons both could not well be spared.

His brother, Peter, drew the prize, as he planted and watered the plants. The late Mr. James divided equally with him lands acquired, cattle, and everything, to the last August being his last year as a farmer, died as a farmer during the four years war.

His success in raising the standard of the Agricultural College, and the success of the experimental station to the first rank in his latest acknowledgment.

By the man God's providence and Major McKinley has selected to preside over the great agricultural interests of this country.

The seedman's society, of which you are or were the honored head, together with the Agricultural and Horticultural societies of this country, we can guarantee will be carefully considered, and what is best in the interest of the great public good. The number will be recommended to the next Congress, and by them will receive due attention.

I have no personal acquaintance with Mr. Morton. I never looked on the light of his appearance. His public acts and utterances I criticize.

I am, with great respect and kindness, yours,

P. S. "Owd some pow'r the little gize you see is the farmer's as iters see it."

It was free month in the soil. And foolish notion."

Mr. Wm. R. Smith, U. S. March 3, 1897.

Dear Sir—Returning to Philadelphia to-day, I will file in the fact of the whole in writing yours of the 20th ult. A week's absence has allowed so much personal concern to accumulate, that I cannot give an answer as fully as might be desirable—yet from our conversation on Friday last, I thought your letter had been received by me in Washington. I fear that nothing would support your opinion now as to the propriety of the premium on distributed seeds by the Government.

In Richmond on Sunday I saw Mr. Alfred Henderson, the son of the late John C. Henderson, and he was equally as surprised that you should be in favor of the Congressional appropriation. He said that the seeds can be purchased at almost any village store.

They are quite right in stating that, with our friends Landreth and Dreer, I was particularly pleased with your expression that the seeds should be sold to the growers. We had the pleasure of calling upon you in January. I must maintain, however, that you are altogether wrong in your opinion that the Government, after doing so much for agriculture in giving in the first place, in the second, the seed to the growers, and in appropriation for agricultural colleges and experimental stations (of which I heartily believe you should count as one of the common varieties of vegetables and flowers, the packets of which bear, as in but-terflies, the request, "Please report the result of your trial to the United States Department of Agriculture.")

It is only too close contact with farmers and gardeners throughout America I know that the great majority are not the members of some members of Congress seem to consider them—standing with outstretched hands, begging for five packets of seeds for ten cents (more or less).

I do not know how you became so prejudiced against the Government, but I am sure that the animus of the bitter contention to which he has been subjected by men of this party is the cause of it. I can understand which he has maintained so consistently for right and truth. He does not want to see the labor of the people, the money paid in depreciated currency. No other sound money Democrat has done so much to injure Mr. McKinley.

You think inconsistent for me to take money from the Government, and yet not to approve of the Government ordering to be done. We are faithfully fulfilling our duty to our country, and we are not changeable—the contract calling for seeds only last week I said to Secretary Morton that should the appropriation for the Governmental distribution of seeds be passed and that we would have no objection, we would be likely to secure the order again.

I purpose to continue the fight, and am not going to be placed in a position where the motive of jealousy could be attributed to my action. You can certainly see that it would have been injurious to me to attack this system last season, when our friends Landreth & Sons had the order. Sincerely yours,

W. ATLER BURPEE.

Editor Florists' Exchange.

I have had time for you in few hours

I have not had time to do more than

glance hastily over the magnificent attack upon the Governmental seed business. "The Government Free Seed Distribution." With the limited time at my disposal, I am unable to refer to the details of the work you are doing, as well as for you have already done, to stop this iniquitous and unchristian scheme. I am sure that the sender and the great mass of our people, who while combats of the fraud yet are free to circulate and to be associated at their expense, and in their name.

The lethargy of the people at large may be secured to the Government, but the personal interest and a consequent lack of intimate knowledge; but the same can hardly be said of the Secretary of Agriculture, Secretary Morton for them to take the matter in hand is timely. It only needs a full and free circulation of the true facts, and the facts in their true light, I believe, to puncture this glaring fraud so thoroughly that it will be forever laid low. In justice to ourselves, in common with other representative seed houses, it may be said that the Governmental seed business takes a menace to the seed business of the country this "Government Free Seed Distribution" has become. With one notable exception, we seedmen have been too apathetic on this question, the one exception being the late James Wick's, who not now recall—we the late James Wick, Secretary, to whose lasting honor it should be referred to the fact that he was in the center ago in his annual catalog, he not only pointed out the wrong that was being done, but he also pointed out the "Government Free Seed Distribution," but went farther and pointed out the tendency this practice, of free distribution, and the wrong of debauching the moral sense of a large portion of the rural community, by leading them into thinking of nothing, making of them as it were national mendicants. If we had all of us taken the same course, the Governmental seed business, which we now complain would not have reached the proportions it has attained to-day, and the Government, have been the more easily strangled.

It cannot be too often or too strongly urged, that the Governmental seed business, "Seed Distribution" as carried on for the last twenty-five years at least is a clear case of fraud, and that the Government stated it, and that the original purpose is so distorted that its author would in all probability be glad to have his voice against it, were he alive to-day.

The gallant fight which the present Secretary is waging, and which has been in term made against this unjust practice is a matter of recent history; and yet, hold for the fact that the Government has been seen how even he had finally to succumb. In our own experience, every year of the past few years, the Government with whom we have come in contact from time to time have deplored the fact that owing to Congressional pressure, they were unable to carry out either the spirit or the letter of the law, i. e., to send away "free" and "improved" seeds, bulbs, plants, etc. Such being always secure as naturally high priced, and as it were, "free" and "improved" seeds, the average Congressman looks for in seeds, to advance his political fortunes, the heads of seed catalogues, and the heads of the Government, have been commissioners or Secretaries, in order to secure necessary appropriations, and to secure the necessary appropriations in various, most of which were already veterans when we who are now seniors in the Government were in the Government, in short clothes. It would only be a logical conclusion for our paternal lawmakers to see that the Government has been given the necessary fertilizers and tools to completely round out their gift. Happily for the seed business, the Governmental legislators have not as yet entered into connection with them, but why they should for the Government, and why they should for the great Government of ours to distribute the articles named, or in fact any other thing, I do not know. It is now (almost exclusively) nothing but the common kinds of flower and vegetable seeds.

From the time that this free seed business became a part of the law of the land, up to the time that the Governmental appropriation of \$5,000 a year, or to strain a point, \$10,000 a year, would have been all that the Government had at times been permitted to distribute, it is our judgment as to purchase and distribution of seeds, that the Government not only have kept within the letter and the spirit of the law but would also, I believe, have been able to do so in an agricultural and horticultural communities.

PETER HENDERSON & CO.,  
317 Broadway, New York City.

#### Editor Florists' Exchange.

We find the statement in disapproval of the Governmental seed distribution that in our opinion it will in time ruin the seed business of the country.

The large surplus of stocks from the past two years and the anxiety of seedmen to dispose of them has enabled the Government to get a large quantity of them they were wont to do when the seeds were purchased and put up by Government. It is our opinion that if you should add the privilege of selection of seeds by the Government, what firm can stand such competition?

One firm claims their loss by free distribution last year was \$50,000, and the loss of the United States Government was quite as much, making \$100,000 loss through one firm, and all the seedmen in the United States felt this outrage in like proportion.

It was most aptly expressed by Mr. Frank A. Munsey in "Munsey's Magazine," in his issue of the 15th inst.

"It is rather a cold proposition to have a competitor who is willing to work for nothing, and to have a competitor who is a business man can content himself with the thought that this sort of a game cannot be played with the Government of the United States government are at his command it is rather too slow a process to wait until the Government has written and distributed seeds on the part of the Government, and hopes to see them win. It is our opinion that if you should add advertising in general mediums has fallen off by reason of the government's having gone into the seed business."

In checking up our advertising the past week, we found immediately under our advertisement in a country paper a free notice of the Congress, and that all who wanted seeds free to send their names addressed to him.

It is coming to this throughout the United States? If so, then, the publishers will lose the seedmen's advertising. The Government will be the loser, which they might have sold. The growers or farmers will lose the living prices paid for seeds, and the Government will be the loser. The seedmen will invest their capital in a business in which the Government will be the loser. The Government will be the loser of pure seeds of the highest types, as all stimulus and rivalry between seedmen to produce the best has been taken away and the business will degenerate.

Who will be the gainer? Something must be done by seedmen for self-preservation at all cost. Not a man in the business would complain if the government would confine its work to the testing of all varieties of seeds, and issuing bulletins of educational value.

The past has proven that seedmen and nurserymen who make a business of selling their lines of trade always secure the new and better varieties, and their facilities for doing so are not to be compared to those of the government. There has never been a new variety introduced by the government.

The seeds sent out by the government are as staple to the seedmen as sugar to a confectioner. The seeds are sent out long and short and must be allowed.

A very large majority of the present Representatives in Congress were elected out of the seed business, and the industrial one of the foundation stones of which is agriculture, and these protecting Representatives have not yet have nearly annihilated this industry.

We thank you for the good work you are doing, and we are glad to see your paper in the United States Florists' Exchange.

JAMES WICKS' SON.

Other letters on this subject will appear next week.

President Cleveland having declined to sign the Agricultural Bill which contained the free seed provision, gives the seed trade time and opportunity to make a vigorous campaign of education, leading to its abolition forever. The New Congress will be called in the next few days, and the reader of the Exchange should prosecute vigorously and at once his Congressional duties.

Tariff on Seeds.—Recently in this city, committees from all the commercial organizations of California met in conference at the Hotel de Ville, and were before the Committee on Report and recommended a scale of duties on seeds which we are pleased to say was accepted, and

made a part of the report of proceedings, a copy of which we take pleasure in mailing to you to-day under separate cover. I am sorry to say, however, we were the only firm to vote against the tariff on seeds, locally, in the matter, notwithstanding California's pre-eminence in seed-growing. If only the Government of the United States would be more wakeful and watchful, commercially, the cry of our farmers and surplus growers would be heard in the halls of the past. Let us all stand solid on this line of effort for just seeds.

J. H. JINNET SEED & PLANT CO.,  
JAMES SPROULE.

Undertaken is the recommendation referred to in the foregoing communication: "The seeds of various kinds, except the following, which we approve, except in the case of beans and peas—"

"5 cents per pound on all turnips, rape, spinach, parsley, beet, mangold,  
"10 cents per pound on carrot, kale and radish.  
"15 cents per pound on celery, lettuce and endive.

"20 cents per pound on cabbage, kale, onion, tomato.  
"25 cents per bushel on peas and beans.  
"30 cents per pound on Koll-rabi, brussels.

"All flowers per pound on cauliflower.  
"All flowers per pound on celeriac.  
"All seeds not enumerated 60 cents ad valorem.

Beans and peas are grown largely as a farm product and form one of the special industries of California. This committee believes the duty of 60 cents ad valorem as given in the Act of 1890 should be allowed.

St. Paul.—Mr. Parmelee, of the Allan Seed Company, and Mr. Desnoyers, representing Joseph Breck's Sons, were recent callers. The seeds have advanced rapidly in price, owing to the heavy Southern demand of late, and will go as high as \$2.50 to \$3 per bushel for large lots, according to the opinion of some.

There is a good strong demand for seed of winter wheat, oats, and, in fact, all kinds of field seeds.

Catalogue sales are reported nearly up to the mark. The California Seed and Plantation distribution by Ucie Sam's 100,000-000 packets of seeds, it is a wonder that the seeds have not all been sold. The same practice, if continued for a few years, will ruin the seed trade of America, and the result of selling production from foreign labor will be all supplied to the detriment from our own law makers.

VERITAS.

#### European Notes.

A slight change for the better in European weather during the past week has caused an influx of orders of a most satisfactory description, and if the present improvement continues the returns for the month of February will be exceptionally high.

Some one has now arrived for sowing the stock seeds of our annual crops, such as radish, cress, spinach and sweet peas. In order to bring the seed to the market below the average. The low to two cents a dozen; First, the unremunerative prices of the seeds, and secondly, the fact that largely increased by the uncertainty attending the present tariff legislation on paper.

Unless a definite decision on this latter subject is speedily reached it is probable that the seeds will be sold at a low price, and others will have to content with very scanty gleanings from the odd corners of the market.

The latest reports from your side confirm every sweet pea confirm the prediction. That the seeds will be sold at a low price, and others will have to content with very scanty gleanings from the odd corners of the market. The seeds of the country is good, somebody (usually the grower) got to be content. But the commendable caution and prudence displayed by the whole body of European growers is not to be commended. As it is, growers on this side are fairly well satisfied.

But the report from the South of Europe is deluging the northern markets to a greater extent than ever, and it is certain that the market will be deluged next season. Many of the largest consumers of this article have definitely given up the idea of buying from the South. The plentiful supply of rains should prevent any scarcity of first size bulbs for 1897. But the report from the South of Europe have seen them, but the florists are not eager to buy. EUROPEAN SEEDS.



REINBERG BROS.

Strong, Healthy ROSES From 2 1/2 inch pots.

AMERICAN BEAUTY and TESTOUT. \$5.00 per 100; \$40.00 per 1000. GOLDEN WAVE, BELLE SIBERIAN, METEOR, BRIDE, Bridesmaid, Kaiserin and LA FRANCE, \$3.00 per 100; \$25.00 per 1000.

Rose Cuttings, \$1.50 per 100; American Beauty, \$2.50 per 100.

CARNATIONS—Rooted Cuttings.

IVORY and DELLA FOX \$3.00 per 100; \$35.00 per 1000. ROSE QUEEN, \$2.50 per 100; \$20.00 per 1000. WM SCOTT, DAYBREAK, WANDY HAWKS, TIDAL WAVE, ALBERTINI, PORTIA, LIZZIE BILLY, CORAL, BERRY, STORM KING and SILVER SPRAY, \$1.00 per 100; \$5.00 per 1000.

Special Prices on large lots. The above stock is well rooted and free from rust. Send orders to 51 WABASH AVE., CHICAGO, ILLS.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

Carnations! Rooted Cuttings.

(Rooted cuttings now ready.)

Mayor Fingers, Outing, McGowan, Daybreak, Scott, Portia, and other choice ones. Good Healthy ROSES for Spring Stock

Send for price list.

CUT ROSES and CARNATIONS always in stock.

H. DALE — Brampton, Ont. WHEN WRITING MENTION THE FLORIST'S EXCHANGE.

New Rose, Yellow Rambler (AGLAIA)

The only hardy yellow rose. A splendid companion to Crimson Rambler. Bount to become popular. Best white stock last year. Price 2 1/2 in. plants, \$15.00 per 100. Address: THE DINGEE & CONARD CO., Rose Growers, West Grove, Pa. WHEN WRITING MENTION THE FLORIST'S EXCHANGE.

YOUNG ROSES.

1500 each of Belles and Maids, out of 2 1/2 inch pots. I grew this stock to plant myself but have taken the carnation fever so will sell them for \$5 per 100. Also for sale at \$12 per 100, in Florist Treaties, in 1 1/2 in. pots, ready for 5 in.

Young Carnations, from Flats, of Scott, Daybreak, Wave, Albertini, Meteor, Garland, Alaska, Parting, Iron King and Biederod, at \$2 per 100. Clean strong stock.

GEO. A. RACKHAM, 880 Van Dyke Ave., - DETROIT, MICH. WHEN WRITING MENTION THE FLORIST'S EXCHANGE.

ROSES . . .

From 2 1/2 in. pots. strong and in excellent shape, \$2.50 per 100, \$30.00 per 1000. Bride, Bridesmaid, H. M. Stanley, N. Niel, Marie Guillot, Mary Washington, Louisa, Richard, Pink Emperor, Crimsina Rambler and White Glooper.

EMPEROR OF CHINA — The new extraordinary hardy pink Climbing Rose, grows as rapidly as any other variety found to become popular. \$3.00 per 100; \$30.00 per 1000.

HERNATH, Le Pfister, Jas. V. Markland, George, Charles, General and J. A. Doyle — Best, Chan, Fensie, California.

Our new double General and J. A. Doyle — Bount to take the place of Interath and other varieties that do not do so well in the best soil, freedom of bloom, and leaf of decided attractive habit; in short it has all the best qualities that go to make up the ideal Bedding Carnation. \$1.00 per 100; \$5.00 per 1000.

J. A. DOYLE - Springfield, Ohio. WHEN WRITING MENTION THE FLORIST'S EXCHANGE.

ROSES. HIBISCUS and GERANIUMS.

Roses. Strong plants, 2 1/2 in. pots, \$2.25 per 100; \$20.00 per 1000. By mail, 2 1/2 in. per \$0.00 additional.

Acropolis, Marie Van Houtel, Belle Charles, Marie, Nello, Hildebrand, Bridesmaid, H. M. Stanley, N. Niel, Marie Guillot, Mary Washington, Louisa, Richard, Pink Emperor, Crimsina Rambler and White Glooper. Emperor of China, Herath, Le Pfister, Jas. V. Markland, George, Charles, General and J. A. Doyle — Best, Chan, Fensie, California. Our new double General and J. A. Doyle — Bount to take the place of Interath and other varieties that do not do so well in the best soil, freedom of bloom, and leaf of decided attractive habit; in short it has all the best qualities that go to make up the ideal Bedding Carnation. \$1.00 per 100; \$5.00 per 1000.

R. H. MURPHEY, Urbana, Ohio. WHEN WRITING MENTION THE FLORIST'S EXCHANGE.

KEEP THIS. WE ISSUE NO CATALOGUE.

ROSES!

HIGHEST GRADE LOWEST PRICES

QUALITY OF STOCK GUARANTEED.

All Prices on Strong Young Plants from 2 1/2 inch Pots.

FOLLOWING LIST, \$2.75 per 100; \$25.00 per 1000.

Bride Lucillus J. B. Varrone
Bridesmaid Purple China Folkestone
Hrabani Chromatella Crown Princess
Mme. J. Schwartz Marie Van Houtte Victoria
Marie Lambert Coquette de Lyon Man. McNaughton
Coquette de Lyon Clohible Souperer Semon Cochett
Pink Souperer Mernet Rubens
Mernet Etolie de Lyon Yellow Hermosa
Mme. F. Kruger Louise de La Rive Miss Wemm
Agrippina Mme. Welche

CLIMBERS.

Mary Washington Lamarque W. A. Richardson
C. La France R. M. Henriette Solfaterre
C. Devonensis Marechal Niel Auguste
Prairie Queen Mme. C. Custer

FOLLOWING LIST, \$3.25 per 100; \$30.00 per 1000.

Hermosa Perle des Jardins Niphotos
Mme. Hoste Perle des Jardins Christine de Noug
Sunset Sunset Reite siechtrecht
Golden Gate Meteor Duds of Albany
Mrs. De Gray Woolton Rich Rougement
Beaufortconstant Kaiserin Augusta Mme. Planter
Gentler Victoria Mmc. P. Morgan
Malmaison Mme. C. Testout

CLIMBERS.

Climbing Perle . . . . \$3.25 per 100; \$30.00 per 1000
Empress of China . . . . 3.00 " 100; 25.00 " 1000
Gloire de Dijon . . . . . 4.00 per 100
Crimson Rambler . . . . . 4.00 " 100

Write for prices on 3 and 4-inch stock.

\$3 00 per 100. GERANIUMS \$3.00 per 100.

Heteranthe White Swan De Brázee
Emerson Mountain of Snow Re Umberto
Le Countable Harriet Thorpe Gripper Banks
Emily de Girardin Gold Dust S. A. Nutt

\$2.75 per 100. CHRYSANTHEMUMS \$2.75 per 100.

Geo. Brannahl Niveus The Queen
Golden Gate Major Bonaffon Enfant des deux
Ivory Titian Mondes
M. Ariste Inter-Ocean Col. W. B. Smith
Fine variety, our own selection \$2.00 per 100.

\$3.00 per 100. HELIOTROPES \$3.00 per 100.

Mme. Bruant Albert DeLaux Dark Bouquet Juliet
White Lady

\$4.00 per 100. BEGONIAS \$4.00 per 100.

President Carnot M. de Lesseps Thurstoni
Wettsteinil Argentea Gutata Clementina
Robert George Monge Mme. Treysie

Bertha C. Rocher \$3.00 per 100. Robasta
Alba Perfecta Sanderson Multiflora Fesathil
Rex Begonias in variety, \$4.00 per 100.

MEXICAN PRIMROSES . . . . . \$2.50 per 100
MOON VINE . . . . . 2.50 " 100
SANSYERIA ZEYLANICA, 2 1/2 inch, extra large plants, \$1.00 " 100
" " " " " " 6.00 " 100

TERMS: Cash with Order.

THE NATIONAL PLANT CO., DAYTON, OHIO, U. S. A.

GERANIUMS, choice named, 1 1/2 to 2 1/2 inch pots, \$1.50 to \$2.50
VERBENAS, . . . . . .75 6.00
COLEUS, 50 varieties, . . . . . 50 5.00
HELIOTROPE, 3 . . . . . 1.00 8.00
AGERTUM Dwarf, white and blue 7.5 6.00
CHRYSANTHEMUMS, 50 finest standard varieties, . . . . 1.50 12.50
TERMS: Cash with order.

CHAS. E. SMITH, Cor. Jefferson and Jackson Aves., YORK, PA. WHEN WRITING MENTION THE FLORIST'S EXCHANGE.

Writing Carnot Rose.

We won First Premium with this rose at the great Indianapolis 'Mem Show last November, with stems from 3/4 to 4 ft. long. We have a fine stock of our roots and grafted plants. Write for price.

W. W. COLES, - KOKOMO, IND. Maple Hill Ross Farm, . . . .

THREE NEW RAMBLERS

Companions to Crimson Rambler.

AGLAIA, or YELLOW RAMBLER. The only hardy yellow climbing rose. Has with stems 2 degrees below zero unprotected.

EUPHROSINE, or PINK RAMBLER. A clear light red.

THALIA, or WHITE RAMBLER. Pure white.

Send for free color-plate and descriptive circular of Aglaia. Every florist should handle these three important novelties. Strong plants from 2 1/2 inch pots. Ready March list. \$2.00 per 10; \$15.00 per 100.

Send for Trade List of hardy, field-grown Roses, Shrubs, Ornamental and Fruit Trees, small Fruit Plants, etc.

JACKSON & PERKINS CO., NEWARK, NEW YORK. WHEN WRITING MENTION THE FLORIST'S EXCHANGE.

NEW

Chrysanthemums

Our Descriptive Carnations TRADE LIST has been mailed.

If it has not been received THE ASKING will place it on your desk. Roses

N. B. — 200 SOUV. DU PRESIDENT CARNOT Roses, from 2 1/2 in. pots. in the best of condition, ready to shift. Price for immediate delivery on application.

NATHAN SMITH & SON, ADRIAN, MICHIGAN. WHEN WRITING MENTION THE FLORIST'S EXCHANGE.

# NEW ROSE SOUV. DU PRESIDENT CARNOT

The best all round Rose introduced in the past five years, both for winter forcing and open air culture. If you want the best plants for next winter's forcing, **ORDER NOW.** Plants will be sent out March 15th, and are now in splendid condition. All are ready for either 3 inch or 4 inch pots.



**EVEN** in these dull times there has been no better selling Rose as a cut flower than **President Carnot.**

**THE** price is so low that every one can plant it largely.

**UNLIKE** other New Roses it has been tested and successfully grown in all sections of the country.

**NO** other Rose has received so many Medals and Certificates of Merit.

**THE** strongest imaginable grower. Blooms can be cut with three foot stems if desired.

**A** PERFECTLY hardy garden Rose.

**EVERY** wide awake Florist should plant it.

**NOW** is the time to order.

President Carnot has no weak points and by voluntarily restricting the production this Spring, and sending out only guaranteed plants, the undersigned growers are determined that it shall not be injured by over propagation. Plants are now ready to deliver in first-class condition.

Strong Plants from 2 1-2 inch pots, \$3.00 per doz.; \$15.00 per 100; \$125.00 per 1000. 50 SOLD AT 100 RATE. 500 SOLD AT 1000 RATE.

**STRAUSS & CO.,**  
WASHINGTON, D. C.

**ROBT. SCOTT & SON,**  
PHILA., PA.

**E. C. HILL & CO.,**  
RICHMOND, IND.

**ROBT. CRAIG,**  
PHILA., PA.

**ERNST ASMUS,**  
WESTHOBOKEN, N. J.



Rose Notes.

We can now, with safety, give our roses a top dressing, but to do it rightly is another story.

Then again, some will put on a coating of soil over a layer of peat.

My method of top dressing is to first clean the beds thoroughly, taking off all dead wood.

Then again, some will put on a coating of soil over a layer of peat.

Then again, some will put on a coating of soil over a layer of peat.

Then again, some will put on a coating of soil over a layer of peat.

Then again, some will put on a coating of soil over a layer of peat.

Then again, some will put on a coating of soil over a layer of peat.

Then again, some will put on a coating of soil over a layer of peat.

Then again, some will put on a coating of soil over a layer of peat.

Then again, some will put on a coating of soil over a layer of peat.

Then again, some will put on a coating of soil over a layer of peat.

Then again, some will put on a coating of soil over a layer of peat.

Then again, some will put on a coating of soil over a layer of peat.

Then again, some will put on a coating of soil over a layer of peat.

Then again, some will put on a coating of soil over a layer of peat.

Then again, some will put on a coating of soil over a layer of peat.

Then again, some will put on a coating of soil over a layer of peat.

water stands about 40 degrees at this time of the year, and by drawing the water out of the barrels by the natural suction of the spray it is distributed at a temperature of about 60 degrees.

In my last notes a typographical error crept in, and the word "and" was noted red.

PLANTS AND FLOWERS.

Carnations From English seed.—The carnation flower which I send you was raised from a lot of English seed.

Utiea, N.Y. ROBERT CAMPBELL.

Baron's White Seedling Carnation.

Baron's White Seedling Carnation.

Warren, Pa.

W. Offerle's greenhouses and plants were damaged by fire to the extent of about \$2,000 on the morning of Feb. 25.

LOOK HERE!

The following plants are in A condition.

ROSES, out of 2 in. pots, Bridemaid and Bride.

ANGELICA PLANTAINS, 2-year-old, 3 1/2 in. pots, \$1.00 per 100.

C. MERKEL & SON, Mentor, Ohio.

Hardy Roses.

Spring Flowering Bulbs.

Reliable Flower and Vegetable SEEDS.

C. H. JOOSTEN, Importer, 193 Greenwich Street, NEW YORK.

Special Sale of BULBS ORDER AT ONCE.

PRIMROSES FOR EARLY!

FRN'S!

St. Paul, Minn.

GERANUMS Not Named.

Heels, new scarlet, single, 2 1/2-inch \$3.00 per 100.

JAMES FROST, Greenville, Ohio.

GERANUMS Not Named.

Heels, new scarlet, single, 2 1/2-inch \$3.00 per 100.

JAMES FROST, Greenville, Ohio.

COLEUS.

Good clean stock of QUEEN VICTORIA, rooted cuttings, \$5 per 100.

J. McMULLEN, Maspeth, N.Y.

ROOTED CUTTINGS.

Coleus, 1 leading kind, \$5 50 per 100.

HENRY NENKER, Gouverneur, N.Y.

FINE PLANTS.

400 Marguerites (Paris Daisy), 4-inch pots, \$2.00 per 100.

JOS. H. CUNNINGHAM, Delaware, O.

ROOTED CUTTINGS.

SIBIRIAN VAR. HOP.

The best vine for rapid growing bears flowers, white, 2 1/2-inch, \$4.00 per 100.

CASH ONLY.

J. A. BINLEY, GLENS FALLS, N. Y.

Glenwood Nurseries Spring of '97.

10,000 Amplexipol Velheli. Grown in 3-in. pots \$2.00 per 100.

THE W.T.H. HOON CO., Morrisville, Pa.

WE MAKE A SPECIALTY OF GROWING A. W. Smith's Hybrid Moonflowers.

The above are strictly the best Moonflowers in cultivation.

CASH WITH ORDER.

GODFREY ASCHMANN, 10210 Otis St., Rising Sun, Philadelphia, Pa.

Ready to Ship at Once!

GERANUMS.

Mostly double scarlet, pink and white, 5 1/2 in. pots, \$2.25 per 100.

OTATAHERIE PALS.

Roses.

BRIDES and Bridemaid, 2 1/2 inch pots, \$2.25 per 100.

VERBENAS.

GARNATIONS. BEGONIA. CALLA LILIES. FERNS.

WANTED. GEO. A. MEAD, Maple Grove Greenhouses, Springfield, Ohio.

## NEW INVENTIONS.

In this column we shall be pleased to illustrate and describe any useful new invention, the drawing or photograph of which, accompanied by a full description, may be furnished us by our readers.

### Carnation Supports

I have charge of half a dozen carnation houses, containing about 20,000 plants, nearly all of which are supported with chicken wire or wire netting—a system I don't admire much and would be glad to dispense with.

In exploring the field of carnation supports I find in nearly all cases many weak points, even in the best methods, and it seems there ought to be some better system when one takes into consideration the quantity of carnations grown at the present time.

I find several systems that are no doubt better than the chicken wire method, and the one adopted by C. W. Ward of Cottage Gardens, L. I., which he calls the "Dorner system" and which he has described and illustrated in your paper, is one of the best at the present time, although it has some objectionable features, the principal one being that it almost totally obstructs the rays of the sun from striking the soil in the benches, except merely on the front edge.

The wire lathing is so placed on the benches that the carnations grow completely over it, and as the mesh of the lathing is also very small, it shuts off all means for light and air to pass through the plants freely, and prevents the sun's rays ever striking the soil. And most of us will agree as to the benefit derived from sunlight and a free circulation of air around the plants, especially in winter.

Another objection to this method, and one that is also found to the chicken wire is that there is nothing to hold the plants up between the rows of lathing or setting, and if red spider makes its appearance and strong syringing is required the plants are kept down, and on top of the lathing and as the currents of air are inferior the plants don't dry out quickly, and the result is a favorable medium for fungoid diseases and insect pests, such as rust, bacteria, red spider, etc., necessitating the use of a Warrenton Dorer to prevent calamity.

The wires running lengthwise of the bench along the front, to keep the flowers from hanging over the walk, are also an objection, as they form a barricade for worms when clearing the rows, picking off dead leaves, top dressing or other work.

The overhead system of wires is the most valuable feature of this system, but that only supports the flowers, and not the base of the plant, which is the point where it should be thoroughly supported.

To secure the most light and heat circulation of air around the plant, the ring supports have the advantage of any others, but their unwillingness to stay just where you want them is their weakest point. They require more or less tying with cord or string also, and there is a good deal of work connected with them in keeping the flowering shoots inside the rings and holding them in position. When I first saw the Horst support it struck me as being a good thing, but it has the same fault as the ring supports in being too easily disarranged or pushed out of place.

Under the impression that the above methods could be improved on, I invented a little of my time in trying to improve on them. The illustrations show the results of my work. The end frames (a) of the main support are made of No. 3 wire; the end frames (b) of the extension are made of No. 10 wire; the horizontal wires (c) are No. 10 wire, but can be made of No. 8 when a long support is required, such as for 5 or 6 feet wide benches. All the wire is galvanized and the different parts are all detachable.

Figure 1 shows the support with the extension (a) attached and the former fully constructed. Figure 2 illustrates how the support should be used and how it appears in the bench sustaining the rows of plants across the bench; and figure 3 illustrates how it supports the plants in rows lengthwise of the bench, also the advantage of the cross-hooks.

Figures 2 and 3 are from photographs of some seedling carnations, supported with this stake, and serve as a good description of how it holds up the plants both lengthwise and across the bench, keeping them in an erect and natural position and giving them all the freedom for growing they require, as well as providing as much



FIG. 2. Illustrates how the support should be used, and how it appears in the bench sustaining the rows of plant across the bench.

light and air on the soil and among the plants as can be obtained, thus allowing the plants to dry out quickly after syringing and proving the most natural and only preventive against rust or bacteria. It also keeps the plants in the best position for fighting red spider, no matter how strong you wish to syringe.

As the cross hooks (d) are not attached to the horizontal wires they can be placed at any desired point, and as they spring down to the wires they have a firm grip, and will stay where you put them. They also hold the horizontal wires in position, making the support much stronger and more difficult to disarrange, and allowing the use of light wire for making it up. The principal feature of my invention,

however, is that it is not easily disarranged when once in the soil, and if the workman leans against it when cutting flowers or cleaning plants, etc., it springs back to its original position as soon as he takes his weight from it.

If the horizontal wires are put through the coiled sockets about an inch, there is no possibility of them falling out, as the coiled sockets lock the wires in position, each one assisting the other in holding the support downward and in position. When you want to take the support down just pull up the end frames and the whole thing will come apart with the greatest of ease.

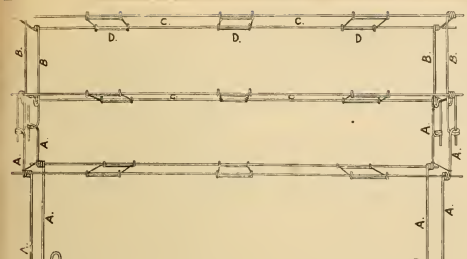
The U shaped feet prevent the support leaning or falling sideways; the exten-

sion part makes it adaptable for all carnations. This can be adjusted or detached at will without interfering at all with the main support, and as all the parts are detachable, each part, or like parts, can be conveniently separated and stowed away in a very compact and small space ready for another season.

The support has a very neat and systematic appearance in the bench, and although it may appear, at first sight, expensive, in reality it is not, as one support will carry as many plants as there are across the bench. It doesn't cost as much as the best ring methods, and it is good for years. ROBERT MILLER, Assistant Foreman for C. Strauss & Co.



FIG. 3. Illustrates how it supports the plants in rows lengthwise of the bench, also the advantage of the cross-hooks.



Carnation Supports.

Fig. 1.—Shows the support with the extension attached and the former fully constructed.

**CARNATIONS**

*Red Spider.*

As Spring approaches spider is very apt to become troublesome. Especially is this the case where the temperature has been kept up rather high, and where the ventilation has not received proper attention. There are a great many who still labor under the mistaken impression that by allowing the pipes to get cold, and thus utilize the sun's rays, whether the sun be obscured by light clouds or not, and keeping the ventilators closed, they are saving fuel. They may, indeed, be saving a little fuel, but it is at the expense of the health of their plants. For what does it profit a man to eave a few hundred pounds of coal or its equivalent, and to go on doing undermine the health of his plants by withholding from them the greatest of all life-giving principles—fresh air? In all cases where there is a casual outbreak of spider in Spring it can be easily set down that this has been withheld to a large extent. It is a mistake idea to think that spider is to be practiced than in bright weather, for then something near what is supposed to be the correct temperature is likely to be maintained without resorting to ventilation. A temperature of 65 degrees without ventilation on a cloudy day will cause far more mischief than 80 on a bright day with plenty of ventilation.

Spider revives in close atmosphere; it may not make much visible headway during the winter months, but at this time, if proper precautions are not taken, it will be depositing its larvae, lay the foundation for a general outbreak as soon as warm weather comes on. It is a mistake idea that spider springs into existence on the approach of warm, bright weather. It is not. The most prolific breeding places are such positions as are warm and farthest from the air and light. It is always best to look forward to the approach of Spring on a time when we can most successfully combat it.

We are not troubled by any great extent of spider, excepting on one or two varieties. This is because of the careful attention to the ventilators, both day and night. A few kinds, however, seem very hard to keep clean. This is especially true of Daybreak. There is undoubtedly something in the sap of this and other varieties available to the spider. It is especially true where spider has a good foothold, something more than good ventilation is needed. This is to spray extra carefully at any season of the year, hard enough to dislodge spider, productive of more harm than good. The fact that this treatment is beneficial to the rose does not imply that it is also good for the carnation. The water interferes in the nature of the two will account for this fact very readily.

During the winter we have been spraying with salt water as a remedy for spider, and find it most effective in eradicating it. This is the treatment I have recommended for spider at the meeting of the American Carnation Society in Cincinnati, Mr. Ward has received the use of this solution. He uses about two 2-inch pots full of salt to three gallons of water, and applies it with a fine nozzle, using about fifty pounds pressure. Mr. Ward had also used it with good results, but claimed that

It induced spot. He also used a much stronger solution than Mr. Nicholson. Our solution is fully twice as strong as that applied by Mr. Nicholson, and in some cases it may have been even stronger than that. It is applied with a Meyer's hand spray pump. This can easily be attached to a bucket or small tub. It throws a very fine spray, just what we want. The spray should not be applied with force. The idea is to thoroughly wet the foliage, particularly down in the body of the plant and under the leaves. One such spraying of salt water will accomplish more than a dozen with fresh water. We have never had the least trouble from spot arising from this practice. If spot makes its appearance ventilation has not been attended to properly. A close, moist, humid atmosphere and spot go hand in hand.

I have also, as Mr. Ward stated, noticed a better color in the foliage and a stiffer stem as a result of spraying with salt water. This is not due directly to spraying the foliage, but rather to that portion of salt which finds its way into the soil. We have never had any trouble from plants affected with spider as planted in the sand, the leaves most affected being the lower ones. The use of the spray in a good solution of salt water. We have tried dipping that the foliage and a portion of the stem, and dipping the tip of the stems, and placing the cuttings, stems up, in flats to drain off, also dipping the cuttings entire, and while no serious injury resulted from this latter method, I noticed a difference in favor of those treated by the former method, they rooting some days sooner than the others, and looking a little fresher. I therefore give the first method the preference. Before placing the cuttings in the sand it should be well watered, so that the foliage may be allowed to dry for about twenty-four hours, that the good effects of the salt may not be lost by washing it off before it has had time to accomplish its work. H. WEBER.

**A Carnation Challenge.**

The following correspondence is self-explanatory and will be read with interest. The outcome of the contest will always be eagerly watched for. It is seldom a lady and gentleman meet in open combat. The carnation of the contest will always be shed, and among the gallants the lady will doubtless be the favorite.

W. A. SNEYD, Esq., Jan. 29, 1897.

Dear Sir:—Apropos of your claim in regard to carnation Flora Hill I should like to enter into a friendly contest with you as to who has the largest white carnation, and would match Jack Frost against Flora at such time and place as you may choose on not less than one week's notice.

I should like weight, with a specified length of stem, as well as diameter of flower, to count.

My own claim has been made public, I had thought of sending out a public challenge, but concluded it would be more friendly to write you first, and if I do wish the matter to have any unpleasant features for you. Presuming that you will make no objection to my making public and inviting all other growers. Yours cordially, EDW. SWAYNE.

RICHMOND, Ind., March 1, 1897.  
Mr. Edw. Swayne, Wauwat, Pa.:  
My Dear Mr. Swayne:—Mr. Drees has just forwarded to you my friendly challenge to a contest between your new white carnation Jack Frost and our Flora Hill. Your terms as to time, place, manner of judging, together with the very estimable gentleman that you suggest as umpire, all meet our hearty approval. The suggestion of weighing the carnations is decidedly novel, but I have long thought that shabbies, eggs, etc., should be weighed, and why carnations? I would suggest that the interest of the contest might be increased by having fifty blooms of the number exhibited. Any time with one week's notice will suit us. It has been said that beauty cannot be weighed by scales, nor measured by the yard stick, but we are willing to see it tried in this case. Our only further suggestion is that the loser set up a good dinner for the umpire and two contestants. With kindest regards, yours sincerely,  
B. G. HILL & CO.

**CARNATIONS ...DELLA FOX AND... ANNIE H. LONSDALE.**

Are being advertised a few miles south by parties who never purchased any of the above stock, we would therefore advise all parties to get their stock from reliable parties or from ours. The Florists' Exchange.

**MYERS & SAMTAN, WYNDMOOR, CHESTNUT HILL, PHILA**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**BALTIMORE**

A New Pink Carnation. Color of Craig large, tight, fragrant a stiff stem, good keeper. Ready January 25. Rooted Cuttings, \$1.50 per doz.; \$10.00 per 100.

**CONRAD HESS, 329 Friendship Ave., BALTIMORE, MD.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Carnations, Etc.**

HIGH GRADE ROOTED CUTTINGS.

See our Price List, Florists' Exchange, Jan. 30

**H. WEER & SONS, P. O. Box 57, OAKLAND, Md.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Carnation Cuttings**

Strong and well rooted, of the following varieties: Jubilee, Triumph, Alaska, Bridehead, Dean Hole, Goldfinch, Lizette McGowan, Meme. Albertal, Mother Peachblow, Rose Queen, Silver Spray, Wm. Scott, Java, John.

**PRIMULAS, 2 1/2 inch, \$2.00 per 100.**

Send for list and prices on large lots.

**Logan Ave. Greenhouses, - Danville, Ill.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CARNATIONS ROOTED CUTTINGS**

per 100, per 100.

Buttercup... \$3.00 Daybreak... \$1.00

Helen Keller... 2.50 Tidal Wave... 1.50

Albertal... 2.00 Wm. Scott... 1.50

Goldfinch... 2.50 Wm. Scott... 1.50

Rose Queen... 2.00 Silver Spray... 1.25

**1000 Rates Lower.**

**GEORGE SMITH, Manchester, Vt.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**NEW WHITE "ONTARIO" CARNATION.**

A money maker; prolific in bloom; good grower, and free from disease. \$8.00 per 100; \$50.00 per 1000.

**JOHN H. DUNLOP, - - Toronto, Canada.**

The New Scarlet Carnation  
**MORELLO**

will be disseminated March 1, 1897. Get your orders in now. \$1.00 per 12; \$10.00 per 100, \$75.00 per 1000.

**HOPP & LENKE, East Grand Rapids, Mich.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

IT'S A GOOD THING  
**MINNIE COOK**

Get your stock out at home, where you know you are getting selected stock. \$3.00 per 100; \$25.00 per 1000.

**Meadow View Greenhouses, PARLIAMENT, N. Y.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CARNATIONS**

ROOTED CUTTINGS

of the leading varieties, clean, healthy stock. Positively no rust. Send for price list.

**WM. SWAYNE, Kennett Square, Pa.**

P. O. Box 236.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**ELDORADO**

The finest Yellow Carnation in cultivation. Rooted cuttings, 50 per 100; \$1.00 per 1000.

**LADY CAMPBELL VIOLETS**—Rooted runners, 75c. per doz.; \$5.00 per 100.

**GIANT DOUBLE ALBUM**—\$3.00 per 100; \$3.00 per 1000. Send for Circular.

**W. R. SHELMIERE, Avondale, Pa.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CARNATIONS ROOTED CUTTINGS.**

Healthy, strong, and well rooted, the following varieties: Anna Webb, Helen Keller, Daybreak, Albertal, Java, Carriage, Van Leeuwen, Ophelia, Flower King, \$2.00 per 100; \$15.00 per 1000. Rose Queen, Mizpico King, Mother, Storm King and Meteor, \$1.50 per 100; \$10.00 per 1000. Goldfinch, Dean Hole, Annie Lonsdale, \$1.00 per 100; \$5.00 per 1000. Julia Fox, \$1.00 per 100; \$5.00 per 1000. Sweetbrier, \$1.50 per 100; \$10.00 per 1000. McGowan, \$1.00 per 100; \$5.00 per 1000. Wm. Scott, \$1.00 per 100; \$5.00 per 1000. Daybreak, originated with Hugh Graham, 50 per 100; \$5.00 per 1000.

A Liberal Discount on Large Lots; 250 at 1000 Rates.

**C. H. RYAN'S NYPHON** is the new and standard variety adapted to all climates.

Wholesale and Retail Cash.

**JOHN HACKETT & COMPANY, 622 near Elmwood Ave. PHILA**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**ROOTED CUTTINGS. CARNATIONS.**

Mrs. Chas. Duhme (Dorner '92).

Mrs. Geo. M. Bradt (Orner '93).

\$1.50 per doz.; \$10 per 100; \$75 per 1000.

Lily Dean (May), Maud Dean (May).

\$2.00 per doz.; \$10 per 100; \$75 per 1000.

Per 100 Per 1000

Wm. Scott... 1.00 10.00

Lizette McGowan... 1.00 10.00

Daybreak & Storm King... 1.50 12.50

Portia & T. Wave... 1.10 10.00

Mrs. Fisher... 1.25 11.00

Meteor... 1.00 12.50

Eldorado... 1.00 12.50

Alaska & Anna Webb... 1.50 12.50

Thos. Carriage... 1.50 12.50

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

EDW. J. TAYLOR, Wholesale Carnation Grower, Cash or Reference, 151 BAYVIEW, CONN.



Exclusively a Trade Paper.

Entered as New York Post Office as Second Class Matter

Published Every Saturday by

A. T. DE LA MARE, PTC. AND PUB. CO. LTD.

2, 4, 6 Duane St., New York.

P. O. Box, 1697. Telephone 2151 Cortland

SUBSCRIPTIONS:

\$1.00 per year in United States, Canada and Mexico. \$2.00 per year to foreign countries in postal union. Payable in advance. New subscriptions will commence with first number after receipt unless otherwise ordered. Back numbers can be supplied when wanted. The date on address label shows when the subscription expires and is the subscriber's receipt. No other receipt is sent.

ADVERTISEMENTS:

Copy must reach this office not later than Thursday in order to secure insertion in issue of the following Saturday. Rate, \$1.00 per inch. Special positions extra. Disprints on contracts of one month or longer. Orders from unknown parties must be accompanied by cash or satisfactory references.

General Stationery Agent:

W. K. WOOD, 1697 West Newton, Mass. Boston, U.S.A. Westchester, N. Y.

EDGAR SANDER, 1699 Belmont Ave., Chicago

Subscribers

Should give notice to the publishers at the end of their time if they do not wish to continue taking paper otherwise it is continued and payment expected.

ADVERTISEMENTS and all other material must be guaranteed insertion unless it reaches this office not later than THURSDAY NIGHT.

Contents.

A TRIP DOWN SOUTH 239
BARKING BEACH, A FRIENDLY 239
HARRIS VALLEY 239
EXPOSITIONS 239
REPORT BY COL. BOLLER 239
NEW INVENTIONS 239
CARBON SUIPER (Illus) 239
OBITUARY 239
E. W. Herenden, Robt. J. Murphy 239
OLD GLASS IN MODERN GREENHOUSES 234
PLANTING FLOWERS 234
ROSE NOTES 234
SEED TRADE REPORT 234
SEEDLING AND CERTIFICATES 234
SEEDS, GOVERNMENT FREE 234
TRADE NOTES: Chicago, Cleveland, Lancaster, N. Y. 234
New York 234
Philadelphia, St. Paul 234
Buffalo, Cincinnati, Providence, St. 234
Richmond, Ind.; Rochester, N. Y. 234
VIOLETS FOR PHILADELPHIA MARKET 234

For the Busy Man.

E. Herenden, of the Herenden Manufacturing Co., is dead.

Read the article on "Seedlings and Certificates" and let us have your views.

The fifty dollar cup, offered for best seedling carnation, at the Boston Carnation Show last week, was won by Dorner's C. Dana.

The American Institute will have a Carnation show at New York on Thursday, May 23, 3 P. M. Judging will be done according to American Carnation Society's scale of points.

Our Boston correspondents have been very busy in the advertising business, and have had a factory increase in advertising patronage.

Luther H. Tucker, editor and senior member of Luther Tucker & Son, publishers of the "Country Gentleman," died Feb. 23 of Bright's disease.

Correction.

The name of John H. Dunlop's new white carnation is "Oleatio," and not Dominion as given in our last issue.

Government Free Seeds.

The Free Seed Distribution humber has had more attention bestowed upon it by the press of the country during the past two weeks than it has ever before. All papers unanimously concur in its being a direct benefit to the farmer, and a wide rural which opens out the way to the further and more costly taxing of the land by the people for the purpose of a very few—of the people. No honest citizen, understanding the subject, would give the Free Seed Distribution a moment's thought to the great public it is a very small affair. But the question is not one of size, it is one of right, and it is right against the wrong; of the doing away of a law which is so absolutely misapplied, and of the doing away of a law which is manipulated to carry favor, as to call aloud for its swift repeal.

A World Congress appropriate \$150,000 for a bit or miss distribution of any other mercantile commodity to Tom, Dick and Harry would-to the citizens able to pay nine-tenths of them for that which they receive? And further, use the United States mail to frank the goods sent to the recipients. Emphatically, No! Then why should the seedmen of the country, who would rather sell than give, be asked to do this? Is this justice? Is this right?

We are glad to notice the press taking up the subject of the Free Seed Distribution, and we are glad to notice the press taking up the subject of the Free Seed Distribution, and we are glad to notice the press taking up the subject of the Free Seed Distribution.

Expositions.

The Tennessee Centennial and International Exposition opens May 1, 1897, and a visit to the Exposition is one of the things which Commissioners call attention to the fact that the Western States thus far have secured nearly all the space which they desire to have for the Exposition, and we are glad to notice the press taking up the subject of the Free Seed Distribution.

The Exposition grounds comprise a park of some two hundred acres, lying two miles west of the State Capitol and approached by three lines of electric cars and a steam railway. Over \$100,000 have been expended in the past few years, and from its elevated plane a fine view of Nashville and the surrounding country is obtained. The site has been regarded at a large expense and prepared for the edification of the Exposition, an elaborate system of drainage has been laid off and macadamized, and the finishing construction will be of asphalt.

The Trans-Mississippi and International Exposition will be held at Omaha, Neb., from June 1 to November 1, 1898. It is included horticulture, viticulture, pomology, beet root industry, etc. Awards will be made for the best specimens of each of an international jury, and in addition prizes open to the world, consisting of valuable medals and gold medals for special exhibits are offered.

Latest advices from Hamburg state that some 40,000 tulips will be ready for the market in November. Of these, 20,000 roses are entered already, and some fine novelties are promised from the South Sea Islands. It is said that W. A. Manda has a feature; they are becoming more popular year by year. It is said that W. A. Manda has a feature; they are becoming more popular year by year. It is said that W. A. Manda has a feature; they are becoming more popular year by year.

exhibited here with profit commercially."

The committee has now agreed to pay for the culture of carnations, and is present to the exposition, and which need growing in order to fit them for their exhibition. "It may seem the roses will be a more fortunate choice of words, and which can growers to send a few hundred of different kinds?"

Seedlings and Certificates.

At the recent meeting of the American Carnation Society at Cincinnati, possibly was the point of most vital interest in the discussion of the subject of certifying seedling varieties. Mr. Adam Gardiner fell a remark which was an unfortunate choice of words, and which raised up in the minds of some of those present dangerous possibilities, unless the matter was brought out. And it will, indeed, for us now to ask: For what purpose is a Judicial Committee on Seedlings? Is it to be a committee of opinion, or is it merely to express opinion as to the distinctness of whatever a raiser may submit to us to say, and to have a committee of experts to come with an ideal of its own and adjudge everything before them? Is it to be a committee of opinion, or is it merely to express opinion as to the distinctness of whatever a raiser may submit to us to say, and to have a committee of experts to come with an ideal of its own and adjudge everything before them?

The adjudication of a novelty, upon a seedling, is a matter which is not only a matter of fact, but it is also a matter of opinion. A delicate flower is not laid out by mechanical means, its cultivation is a matter of art, to be written description so accurately as to enable any man to give a faithful reproduction from a single cutting, and the requisite 85 points before the committee. Truly, as was pointed out by Mr. Manda, the certificate is a matter of art, and it is also a matter of opinion.

We can not deny the existence of qualities in a particular seedling which may render it of immense practical value. It is a matter of fact, and it is also a matter of opinion.

Some of the seedling when before the committee scores 83 points, it is damned commercially, the whole eye knows it is of good commercial value, and does still sell his crop of blooms, but there is no sale at "novelty prices" for the crop. Again, it can be asked, how many of the varieties certificated during the past few years have been found to be commerce? Very few, indeed.

Such a sequence of circumstances completely discredits the system of certifying seedlings. It is a matter of fact, and it is also a matter of opinion.

The purpose of obtaining a certificate is to secure a right to the name of the seedling raiser. Nay, more, that is the pivot on which rests the fabric of the entire system. It is a matter of fact, and it is also a matter of opinion.

The purpose of obtaining a certificate is to secure a right to the name of the seedling raiser. Nay, more, that is the pivot on which rests the fabric of the entire system. It is a matter of fact, and it is also a matter of opinion.

New York.

Wholesale Market. The Patriarchs' ball in this city and the Inaugural ball at Washington have succeeded in averting a total collapse of figures in this week. The events, to a large degree, enabled dealers to maintain the prices of last week during the first half of the week. The carnation market began to slacken on Wednesday, the leading stores began to seek a reduction on the carnation market. It was a day of appearances on Thursday and Friday, they were padding their point.

Carnations are holding up to last week's prices fairly well, but to-day (Saturday) may bring a further decline. Violets are very plentiful; apparently, the average price will be equal to last week.

Bulbous stock, except Harriell Isles and Valley, has shortened up considerably. The first named at \$2.00 per 100, and the latter at \$3.00 to \$3.50, except a few double bulbs, which are selling at \$2.00 per 100 or stock for several weeks, and are settling, worse—\$2.00 was the only figure for the first named at \$2.00 per 100.

Mignonette was a drug all round; the price was not enough in quality, but there was but little stock.

Smilax fell again to the old figures; the price was not enough in quality, but there was but little stock.

Sweet peas are plentiful, and sell at 25 cents per bunch of 12 sprays. The carnation market with moss roses; what he has sent in so far have disappeared quickly. Julius Hochrs is continuing to sell his carnations at 10 cents per bunch.

Thorley has a nice lot of Shakspeare gladioli in his window of Thursday afternoon.

J. H. Small & Sons decorated the new ballroom at the Waldorf Hotel on Monday night for the Patriarchs' ball. In this decoration they exhibited other standard maid roses, together with several hundred Beauty's last named being disposed of in the afternoon in the dressing rooms and on stairways. Southern smilax and asparagus were freely used, also stars and stripes.

The roses were arranged in festoons and loops, being broader on the great mirrors than on the other grand walls just now. A continuous chain of roses around the entire room, this being made possible by the aid of the above mentioned stars and baskets.

A Carnation Show.

The meeting at the American Institute on Tuesday evening will be of more than usual interest. A large number of the trade have notified their intention of being present. It is a matter of fact, and it is also a matter of opinion.

These will now be held every Tuesday and Friday during the season. William Hill will be in charge of the exhibition of this week; R. M. Gardner & Co. opened on Friday at their rooms, No. 159 Fulton street. The office of the American Institute will be at their rooms, No. 6 Vesey street.

Auction Sales.

The Florists' Club meets on Monday night, when the floral fungus competition for the Plumb cup will take place. It is hoped a large attendance will be present.

Koffman, the Smilax King, shipped per N. Y. 1000 New York. It is the first of a series of regular shipments, which will be made twice a week.

The North Hudson Florists' Club will hold their annual convention at Helfrich's Assembly Rooms, on Monday evening, March 29.

Edmund seedman, has been laid up for the past ten days with an attack of the grip. He is getting over it and expects to be at his desk next week.

Philadelphia.

Florists' Club. The monthly meeting of the Florist's Club was held at the... The essay on the history of the Florists' Club...

The good business reported last week has kept up... Good flowers found ready sales and the steady prices of the past few weeks have been well maintained...

Next Tuesday, March 13, Professor William Munsie, director of the Central Experiment Farm of Ontario, Canada, will deliver the address...

Robert Morgan of Nat-k has been ill for some weeks... W. A. Beck of Cambridge has a fine lot of flowering plants coming on for Easter...

A petition to the Director of Public Safety, is being circulated among the retail florists, asking that they be allowed to sell carnations in the streets...

Marketed News. The weather, which has been extremely dry and hot since the beginning of the season...

There was an unusual demand for funeral flowers... The supply, and there is none going to waste...

There was an unusual demand for funeral flowers... The supply, and there is none going to waste...

On every hand we see evidences of competition in the florist line... The demand, however, seems to increase with the supply...

Table listing florists and their addresses in Philadelphia, including Black Chas., Belscher Bros., Berman Bros., etc.

Table listing florists and their addresses in Philadelphia, including Belscher Bros., Black Chas., Berman Bros., etc.

The Boston Gardener and Florist's Club of Boston received a very interesting paper on the "Winter Aspect of Trees and Shrubs" by Charles J. Jayson...

Table listing florists and their addresses in Boston, including Belscher Bros., Black Chas., Berman Bros., etc.

There was an unusual demand for funeral flowers... The supply, and there is none going to waste...

Table listing florists and their addresses in Boston, including Belscher Bros., Black Chas., Berman Bros., etc.

Table listing florists and their addresses in Philadelphia, including Black Chas., Belscher Bros., Berman Bros., etc.

The Boston Gardener and Florist's Club of Boston received a very interesting paper on the "Winter Aspect of Trees and Shrubs" by Charles J. Jayson...

Table listing florists and their addresses in Boston, including Belscher Bros., Black Chas., Berman Bros., etc.

There was an unusual demand for funeral flowers... The supply, and there is none going to waste...

Table listing florists and their addresses in Boston, including Belscher Bros., Black Chas., Berman Bros., etc.

Table listing florists and their addresses in Philadelphia, including Black Chas., Belscher Bros., Berman Bros., etc.

The Boston Gardener and Florist's Club of Boston received a very interesting paper on the "Winter Aspect of Trees and Shrubs" by Charles J. Jayson...

Table listing florists and their addresses in Boston, including Belscher Bros., Black Chas., Berman Bros., etc.

There was an unusual demand for funeral flowers... The supply, and there is none going to waste...

Table listing florists and their addresses in Boston, including Belscher Bros., Black Chas., Berman Bros., etc.

GERANIUMS AND VIOLETS.

Geraniums.—Best stately double and semi-double varieties for bedding purposes; our selection of rooted cuttings...

20 CHRYSANTHEMUMS VARIETIES

For \$1.00, Postage Paid. Mrs. H. Robinson, Philadelphia, Queen V. Dillenburg, Major Bussanoff, and 13 other varieties. Send for List.

CHOICE STRONG ROOTS, 8¢ Per 100.

I am again ready to quote prices and book orders. TRADE MARK NOVELTIES AND STANDARDS in great variety, free-leaf and stock better than ever...

WEVEGOTEM

Not "Snakes," but LADY CAMPBELL VIOLETS. 50,000 Orders Wanted for 50,000 Rooted Cuttings...

THE FARMER'S QUEEN OF VIOLETS

HEADQUARTERS STOCK. TRUE AND PERFECTLY HEALTHY. Earliest, Finest, Darkest and most Double. Planted now will flower and give a quantity of runners for stock...

SPOT THE VIOLET KING

Offers the following varieties of Violets for March delivery. All plants are in perfect health, having been grown in cool shade...

DEFENDER

Bright Dark Crimson, reflexed, does not show under side of petals, 3 1/2 ft. stem, 9 inches stout foliage to the bloom, easy to grow...

Fisher & Hedges, Total Gate, Belair Ave., Baltimore, Md.

CHRYSANTHEMUMS.

All the Latest and Latest, also strong sturdy Rooted Cuttings of following splendid varieties of 80c. Modesto, Mrs. Perrie, Glory of the Pacific, Pink Ivory, Wm. Simpson, Ruth Eliza Liberty, Helio Wright, Yonoma, Violoscent, Benji Ground, and others. All the standard commercial sort, in fine bushy condition.

MARIE LOUISE VIOLETS RUNNERS

LOOK HERE! This Stock Must be Healthy. Picked in October 20,000 flowers, in November, 120,000; in December, 120,000; in January, 110,000; in February, 250,000. Can be proven by any commission man. Will grow like twice double the better before. \$4.00 per 1000; cash with order.

CHRYSANTHEMUMS.

Best standard commercial varieties, from profs. Mrs. Braunm, Major Bonnard, Philadelphia, Mrs. Dillenburg, Mrs. Bussanoff, Mrs. Robinson, Mrs. H. Robinson, N. Bommer, Nevada, The Queen, H. W. Wilcox, Harry Lora, at \$2.00 per 100. G. Child, George Weidling, John Prass, M. Henderson, at \$1.00 per 100.

EVANGELINA, ELANDORA, LEONIDAS, SYMPHONA.

All Fine New Chrysanthemums For 1897. JOHN N. MAY, Summit, N. J.

GERANIUMS.

Assorted rooted cuttings at 6c. per 100, by mail \$1.00. Mrs. Sallenger Geraniums, from Italy, \$1.35 per 100. Fuchsias, leading roots, \$1.50 per 100, by mail \$2.00. Geraniums, La Favorite only, \$1.00 per 100.

ROOTED COLEUS CUTTINGS.

No mesny hose, Salvator, Bohemian, Mosaic, Hero, Blackbird, Georgia, Thos. Meehan, Spencian, Travelling, through the South, Boston, Frederic, Hiawatha, Georgia, Royal Mosaic, Shobon, Pink and Purple, Philadelphia, Philadelphia, Harry Harold, Yellow Boy, Whitebird, Red Progress, Charles Dickens, Pink Glen, Frequentation, Electric Light, The Belle, Speciosa, Mars, 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83,84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99,100.

VIOLET CAMPS

GERANIUMS, Double White, Pink, Blue, and Red, \$1.00 per 100. GERANIUMS, mixed, same Salpur, Lemon, Yonoma, Vineland, Queen, Mrs. Paragon, \$1.20 per 100.

GREENE & UNDERHILL, Watertown, N.Y.

Trade List for 1897. FREE ON APPLICATION. SEAWANNAHA GREENHOUSES, Oyster Bay, L. I., N. Y.

When writing mention the Florists' Exchange.

KNIPS Than the best for Florida. Kelly's Florists' Shears and Flower Gatherer, with 200 Blades SHEAR Co. Fremont, Ohio.

25,000 GERANIUMS 25,000

NOW READY. Strong plants, 2 1/2 inch per 100 for \$2.00 per 100. Also bedding and basket plants later. Colored Rooted Cuttings, 75c. per 100; \$2.00 per 100. Cash with order.

ROOTED CUTTINGS, Good Ones

Vegetables, 11 varieties, 8c. per 100; \$7.00 per 100. Potatoes, 11 varieties, 8c. per 100. Mrs. Elizabeth A. Mannette White, 20c. per 100. Mrs. Wm. Simpson, 20c. per 100. Mrs. H. W. Wilcox, 20c. per 100. Mrs. G. Child, 20c. per 100. Mrs. M. Henderson, 20c. per 100.

STRONG PLANTS OF LILIAM HARRISII

Grown from 7 to 8 inch buds, hands show to show, 12 inches high, 100 plants for \$10.00 per 100.

COLEUS!

Assorted rooted cuttings at 6c. per 100, by mail \$1.00. Mrs. Sallenger Geraniums, from Italy, \$1.35 per 100. Fuchsias, leading roots, \$1.50 per 100, by mail \$2.00. Geraniums, La Favorite only, \$1.00 per 100.

Trade List for 1897

FREE ON APPLICATION. SEAWANNAHA GREENHOUSES, Oyster Bay, L. I., N. Y.

ROOTED COLEUS CUTTINGS.

No mesny hose, Salvator, Bohemian, Mosaic, Hero, Blackbird, Georgia, Thos. Meehan, Spencian, Travelling, through the South, Boston, Frederic, Hiawatha, Georgia, Royal Mosaic, Shobon, Pink and Purple, Philadelphia, Philadelphia, Harry Harold, Yellow Boy, Whitebird, Red Progress, Charles Dickens, Pink Glen, Frequentation, Electric Light, The Belle, Speciosa, Mars, 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63,64,65,66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83,84,85,86,87,88,89,90,91,92,93,94,95,96,97,98,99,100.

VIOLET CAMPS

GERANIUMS, Double White, Pink, Blue, and Red, \$1.00 per 100. GERANIUMS, mixed, same Salpur, Lemon, Yonoma, Vineland, Queen, Mrs. Paragon, \$1.20 per 100.

GREENE & UNDERHILL, Watertown, N.Y.

Trade List for 1897. FREE ON APPLICATION. SEAWANNAHA GREENHOUSES, Oyster Bay, L. I., N. Y.

When writing mention the Florists' Exchange.

A Trip Down South.

In northern Florida, from Jacksonville down to this point, I was not very much impressed with the condition existing this year. In fact, it was so grand, almost as if the frosts of several weeks ago having done considerable harm to plant life. But here, and there, in the south, I was struck with the coast of Florida, conditions are more favorable, and one enjoys outdoor life to its full extent...

The beautiful river flowing by, the large portulaca, the grass, the water, something southern moss, reminding me much of our willows, funeral-like, casting their shadows across the splendid driveway bordering the river, the wheels spinning noiselessly by with their fair occupants, the fragrance of the flowers in the gardens perfuming the air, and last, but not least by any means, the infernal mosquitoes which have been pestering all the winter...

The orange groves in this locality are, as yet, all in recovery from the effects of the severe frost of a few winters ago, but it will require a few more years to get any profit out of them. The loss to Florida is incalculable, and the growers have felt very much discouraged since that time and are all anxious to sell out. I have heard for those who have not seen it to realize the damage. Trees spreading from twenty to thirty feet around and with many stems six to eight or more inches in diameter, were in most cases, frozen to the ground and were cut down. These are now again sprouting and making fair growth. A few growers escaped the frost, and these orange groves are a sight to be laden with the finest of oranges, which sell at sight, at much better prices than we pay for them at home. I have seen the splendid crop for next season from those trees which were not greatly injured are very promising, and I have heard that the Bananas were also cut down by the frost, but are again recovering—they are hard to determine how...

Early vegetables, strawberries and pineapples are doing well, particularly the latter, and the orange crop is somewhat improved over last season, but it is not as heavy as "mice hoists" of the palatial houses would like to have it, very few houses being filled with people.

In St. Augustine I had the pleasure of meeting Mr. Carmody of Evansville, Ind., with his wife, was making an extensive southern trip. Mr. Carmody has rented his grove, and has fitted up for himself to the ventilating apparatus and boiler appliances. He is a great lover of the wheel and is a great sportsman, and he did roads for miles and miles; in fact, this is a paradise for wheelmen. Fishing is also excellent in this locality, and I saw a few hours returning with forty and fifty good-sized fish. E. C. RINEMAN.

VIOLET CAMPS

HEATING BY COIL BOILER.

I have received a great many letters of inquiry as to the description of the "Exchange." The boiler has undoubtedly been tested well this winter. My thermometer outside stood 24 below zero, while the temperature inside, with no more than 100 lbs. of steam, was 95 to 100 degrees. If I should ever get good draft is used, this boiler will heat no water with less fuel than any coal boiler I've seen. The boiler is 12 ft. high, 24 in. diameter or less coal, but I find such the cheap...

When writing mention the Florists' Exchange.

**ROOTED CARNATION CUTTINGS.**

**Scott and Portia.**  
\$1.25 per 100; \$10.00 per 1000.  
**Daybreak.**  
\$1.50 per 100; \$12.50 per 1000.  
**Lizzie McGowan.**  
\$1.10 per 100; \$8.00 per 1000.

THE BOOL FLORAL CO., Ithaca, N. Y.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**LOOK HERE. Carnation Cuttings**

From healthy and well-grown stock.  
William Scott, L. McGowan, Portia, \$1.25 per 100; \$10 per 1000.  
Daybreak, Anna Webb Mrs. Fisher, Alaska, Albertina, Edna Wase, Storm King, Boston's Dr. Bridemaid, Emily Pierson, \$1.50 per 100; \$12.50 per 1000.  
Della Fox, Vera, Gold Finch, \$1 per 100.  
Fellow's New Recd. Flower twice the size of Portia, same color and fine shape, \$3.00 per 100.  
Order of 500 cuttings filled at 10 day rates, not less than 100 of a kind. Cash with order.

**JAMES E. BEACH,**  
Successor to J. H. Beach & Son,  
617 Park Ave., Bridgeport, Conn.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**HERR'S CARNATIONS**

**YOU RUN NO RISK.**  
If the cuttings are not satisfactory you return them at our expense.  
Unlimited quantities and reasonable prices. Send me a list of what you want.  
Varieties: Alaska, Great Bear, Daybreak, Scott, Portia, Buttercup, Keller, and Jago, Triumph, Abundance, Della Fox, Jubilee, Armandy, Ivory, Adrie Leendae, Crimson Sport, Eldorado and Cartledge.

**ALBERT M. HERR, L. B. 496, Lancaster, Pa.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**A BARGAIN.**

We have the following Rooted Cuttings Carnations from lists, strong, healthy and so fast:  
1500 Lizzie McGowan..... \$1.00 per 100  
500 E. A. Wood..... 1.00  
2000 Portia..... 1.00  
4000 Robin Hood, new scarlet..... 1.00  
200 Alaska..... 1.25  
200 Triumph..... 1.00  
500 Armandy..... 1.00  
300 Abundance..... 1.00  
200 Meteor..... 1.50  
200 Bridemaid..... 1.50  
We prepay express charges.  
Terms, cash with order.

**MORRIS FLORAL CO. MORRIS, ILL.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**FIFTY THOUSAND**

Rooted cuttings of the new Seedling Carnation, originated by Mr. H. A. Cook, of Shrewsbury, Mass., grown by the subscriber, and now being put upon the market as . . .  
**...VEA...**

Cuttings now ready and free from rust.  
\$10.00 per 1000; \$85.00 per 500;  
\$60.00 per 1000.

**DAYBREAK, SCOTT, STORM KING, PERITAN, METEOR, GOLDFINCH, HECTOR, ALBERTINA,** and others, \$1.25 per 100; \$10.00 per 1000.

**A. W. HOYLE, Spencer, Mass.**  
And 51 Withington St., N. A. O.  
DORCHESTER, MASS.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**PRINCESS BONNIE**

Did you ever try this Carnation variety?  
**IF NOT, WHY NOT?**

It is a splendid pink variegated pink variety, large and full flowers, long and strong stem.

**GOOD SELLER.**

You better order a few hundred plants for trial and be sure to get them from

**GRALLERT & CO. COLMA, SAN MATEO CO., CAL.**

Rooted Cuttings, \$5.00 per 100; \$40.00 per 1000.  
From Soil, \$6.75 per 100; \$50.00 per 1000.

**NO RUST.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**GOOD TIMES**

will come if you grow good carnations. You customers want the best flowers and we can sell you the best varieties to produce them.  
Per 100 Per 1000  
Morella, new scarlet, extra fine..... \$10.00 \$75.00  
Flora Hill, white, large and free..... 12.00 100.10  
Mrs. McBurney, light pink, large..... 12.00 100.00  
Harrison's White, Sport from Scott..... 10.00  
C. A. Dana, shell pink, free, early..... 75.00  
Lily Dean, white, marked pink..... 10.00 75.00  
Maud Dean, white, blush center..... 10.00 75.00  
Ivory, very productive, white..... 3.00 25.00  
Della Fox, beautiful pink..... 4.00 35.00  
Jubilee, large, scarlet..... 6.00 50.00  
Also large stock of standard varieties. Send for complete list.  
**GEO. HANCOCK & SON, Grand Haven, Mich.**

**CARNATIONS**

All the leading new varieties; good clean, well rooted stock.

Mrs. Chas. H. Duhme, delicate	100	1000
Mrs. Geo. M. Bradt, white, striped scarlet	10	75
C. A. Dana, shell pink	10	75
Flora Hill, white	12	100
Mrs. McBurney, salmon pink	12	100
Mayor Pingree, yellow	10	75
Morella, scarlet	10	75
Maud Dean, blush	10	75
Lily Dean, white, striped pink	10	75
Harrison's White, white	10	70

If not already received send for our price list, which contains all the leading standard varieties at moderate prices.  
**F. DORNER & SONS CO., La Fayette, Ind.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**New Seedling Carnation**

**FREE CODEY**

A larger white carnation, pencils with carmine. It maintains three inches and over; same habit of growth as the Lizzie McGowan. You can't tell the difference excepting by its color.

I have grown it for six years and have found it as free a bloomer as the Lizzie McGowan. It has received Certificates from Hampden County Horticultural Society and the New York Florists' Club.

Will only put 5000 rooted cuttings on the market as the main crop was destroyed by fire. Cuttings will be \$10.00 per 100.  
**JOHN MCGOWAN, - Orange, N. J.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**NEW YELLOW CARNATION - MAYOR PINGREE**



Ready Now. \$1.50 Per Doz.; \$10 Per 100; \$75 Per 1000.  
**-FOR SALE BY-**

**JOHN BREITMEYER & SONS, THE COTTAGE GARDENS,**  
Miami and Gratiot Aves., DETROIT, MICH. QUEENS, L. I.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**SEEDLING CARNATIONS for 1897.**

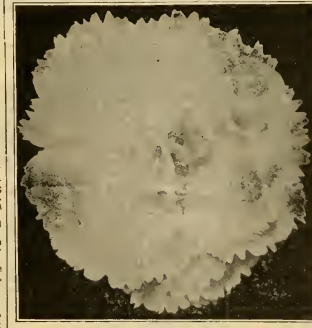
**CAPT. KING.** Variegated White and Pink, an early and continuous bloomer, very fragrant, and a good shipper, stems extra long and stiff, an exceedingly attractive and profitable variety.  
**JOSEPH JEFFERSON.** Deep Pink, very large and show flowers, on long, stiff stems, color resembling Tico, Cartledge, much larger flower.  
Send for Wholesale List of New and Standard Carnations. Stock Strong and Healthy. **NO RUST.**

**C. J. PENNOCK, The Pines, KENNETT SQUARE, PA.**

**THE CARNATION NOVELTIES, MAYOR PINGREE and MORELLO**

Other new sorts, also noted introductions, and well-known standards.  
Our Fine New Illustrated Catalogue Now Ready. **FREE.**

**DAN' B. LONG, BUFFALO, N. Y.**  
Jobbing Florist and Growers' Agent,



**Harrison's White.**

**NEW CARNATION, SPORT FROM WM. SCOTT.**  
40,000 SOLD UP-TO-DATE.  
All leading Carnationists are purchasers.  
Strong, vigorous grower, requiring no support.  
Described and illustrated in Florists' Exchange, Nov. 21, page 1064.

**COME AND SEE IT.**  
Price: \$10.00 per 100,  
\$40.00 per 500, \$70.00 per 1000  
Cash or satisfactory reference. All orders filled in relation.

**JOHN HARRISON,**  
New Bedford  
739 Bergen Ave., Ave. Greenville  
JERSEY CITY, N. J.  
Take Bayside or Greenville line from Pennsylvania R. R. Ferry across at Baldwin Ave.

**Famous Carnation Della Fox**

Should be grown by everybody. The past season may have taught all growers that the high-grade Carnations are the only ones that were profitable, and **Della Fox** stands above them all for size, color and stems. Rooted cuttings now ready.  
**STEVES & SANTEMAN, Wyndmoor, Chestnut Hill, Phila.**

SITUATIONS WANTED.

Rate, 10 cents per line (8 words), each insertion...
SITUATION wanted by a young man to learn florist business.

SITUATION wanted as seed clerk, by young man, 7 years experience...

A YOUNG man wishes a place with a florist to learn the greenhouse business.

GARDENER wants a situation, especially experienced in cut flower growing.

SITUATION wanted by young man, 21 years, as an assistant commissioner...

SITUATION wanted by expert florist, young, able to manage a greenhouse...

SITUATION wanted by young German, 10 years' experience in this country...

SITUATION wanted by first-class gardener and florist in flower and vegetable raising...

SITUATION wanted an foreman in commercial greenhouse, age 25, best of florists' education...

FLORIST - a young (married) man, with 14 years' experience in private and commercial floristry...

PERMANENT position wanted by a practical cut flower grower and designer...

SITUATION wanted, single, German, 18 years' experience, all round man...

SITUATION wanted by young man; has been a successful grower of roses for a number of years...

SITUATION wanted by thoroughly practical florist of 15 years' experience...

SITUATION wanted on private place about April 1st, for young man, 21 years of age...

WANTED.

A situation with any lady or gentleman requiring the services of a good gardener and florist combined...

HELP WANTED.

WANTED - A married man, 35 years of age, with 20 years' experience...

WANTED.

WANTED - understands painting, trees and general work...

WANTED.

For private place, Gardner, married preferred, house on place, (new house), good wages...

WANTED.

A good, thoroughly experienced florist for growing outdoor flowers...

WANTED.

Experienced Man on Working Foreman - Commercial men must understand the growing of several stock roses...

WANTED.

Large Carolina Poplars 3 TO 4 INCH CALIPER.

Address, stating price, D. B. EDWARDS, Floral Hill, ATLANTIC CITY, N. J.

GREENHOUSES AND LAND.

FOR SALE CHEAP. New fixture of florist store. Good place, low rent.

FOR SALE CHEAP.

18,600 feet of glass, 100 feet of iron, well N. Y. City, two story dwelling...

TO LEASE.

On account of owner going abroad for a number of years the John Henderson Co. will lease to a responsible party...

FOR SALE OR RENT.

Thirty acres of the finest market garden land in Orange County.

MARKET GARDEN.

P. O. Box 223, Newburgh, N. Y.

GREENHOUSE TO LET.

STOCK FOR SALE. On account of other business I will lease my greenhouse...

FOR SALE AT A BARGAIN.

Six greenhouses, 1000 feet of glass, first-class material, well stocked...

TO LET.

Within 30 minutes of New York, two well stocked carnation houses...

IOWA, care The Florists' Exchange.

TO LET.

Address EQUABLE, Care of Florists' Exchange.

Mount Kisco, N. Y.

The Westchester County Horticultural Society held its monthly meeting on Feb. 26...

HERBERT A. SPAVINS, Sec.

Allegheny, Pa.

A small fire that caused a trifling damage occurred in the greenhouse of Richard Gray...

Chester, Pa.

Shaw Brothers continue making alterations in their greenhouse...

Kennett Square, Pa.

William Swayne was the only representative from the "carnation belt"...

The Market.

Business has been quite dull here the past week. Flowers of all kinds are in abundance.

Notings.

C. C. Sullivan has given up business on Washington street temporarily.

On the first day of April next Joseph W. Baker will retire from the superintendency of North Burien Grounds...

Club Notes.

The monthly meeting of the Florists and Gardeners' Club was held last Friday evening...

Trade continues good and prices depend upon the development of the seller's nerve...

St. Louis.

Trade continues good and prices depend upon the development of the seller's nerve...

Market Notes.

Trade continues good and prices depend upon the development of the seller's nerve...

Some recent and rather odd weather interfered with business, especially on Saturday...

Buffalo.

Some recent and rather odd weather interfered with business, especially on Saturday...

State of Trade.

Some recent and rather odd weather interfered with business, especially on Saturday...

This week "Bicycle Row" (as it is aptly termed) and justly too, there being more than 100 bicycles fixed up...

Carnations are plentiful. Scotch most abundant and the demand continues without interruption...

Flowers are in great abundance. South-coast carnations are in demand...

Hubbush stock is plentiful. Snailix is very scarce and prime stock is selling at 15c. to 20c. a string.

Retain Notes.

The retailer is having the market all to himself. The supply of roses is not sufficient to meet the demand...

Thomas Manfield reports a good season; orders for designs have been quite heavy.

Lockport, N. Y.

Thomas Manfield reports a good season; orders for designs have been quite heavy.

Market Notes.

Business for the past week has been all right. There were hardly enough roses...

The recent flood caused three of our growers much loss of carnations.

On Sunday a large number of florists and friends attended the funeral services of R. J. Murphy.

Trade continues good and prices depend upon the development of the seller's nerve...

Some recent and rather odd weather interfered with business, especially on Saturday...

Trade continues good and prices depend upon the development of the seller's nerve...

Some recent and rather odd weather interfered with business, especially on Saturday...

Trade continues good and prices depend upon the development of the seller's nerve...

Some recent and rather odd weather interfered with business, especially on Saturday...

Trade continues good and prices depend upon the development of the seller's nerve...

Some recent and rather odd weather interfered with business, especially on Saturday...

Trade continues good and prices depend upon the development of the seller's nerve...

Some recent and rather odd weather interfered with business, especially on Saturday...

Trade continues good and prices depend upon the development of the seller's nerve...

Some recent and rather odd weather interfered with business, especially on Saturday...

Trade continues good and prices depend upon the development of the seller's nerve...

Some recent and rather odd weather interfered with business, especially on Saturday...

Trade continues good and prices depend upon the development of the seller's nerve...

Some recent and rather odd weather interfered with business, especially on Saturday...

Trade continues good and prices depend upon the development of the seller's nerve...

Some recent and rather odd weather interfered with business, especially on Saturday...

Trade continues good and prices depend upon the development of the seller's nerve...

**CHAS. SIEBERT** RESTLESS  
THE FLEETNESS  
**FLORIST OF**  
**PITTSBURGH PA.**  
**GROWS & SELLS**  
**CARNATIONS THAT PAY.**

WHEN WRITING MENTION THE FLORIST'S EXCHANGE.  
25 of each for 40c. by mail.  
**SAMPLE HERR'S Fine Colors and Verbenas.**  
See full ad. page 231.  
WHEN WRITING MENTION THE FLORIST'S EXCHANGE.

**A BARGAIN.**

**HELEN KELLER, Rooted Cuttings,**  
\$2.00 per 100; \$15.00 per 1000.

**GEO. R. GEIGER, Nazareth, Pa.**  
WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**Healthy Carnation Cuttings.**  
COOL GROWN. NO RUST.

Late McGowan, William Scott, Perle, Erlencott, Strong, each \$1.00 per 100; Thomas Cardland and Elizabeth, 50c per 100; Lillian Abbe and Helen Keller, \$1.00 per 100.

**NEW MEADOW GARDENS,**  
Harrington Centre, R. I.  
WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**CARNATION AND COLEUS CUTTINGS.**  
Strong, well rooted cuttings of the following varieties free from rust. Scott, Perle and McGowan \$1.00 per 100; Alice, Rose, Queen, Storm Eye, Peach Bloss, Helen Keller, Minnie Cook, Lago, John Gilbert, Meteor and Inconstant \$2.00 per 100; Della Fox, Eldorado and Boston \$7.00 per 100 per 1000; \$3.00 per 1000; \$2.00 per 1000; \$2.00 per 1000.  
(Colors as many best, Verschaffel and Golden Breeze \$1.00 per 100. Cash or satisfactory reference.)

**GEO. M. EMMANS, Newton, N. J.**  
WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**WELL ROOTED CUTTINGS.**  
Clean, Healthy Stock—BEST.  
(Carnations—Eldorado, each at \$2.00 per 100. Some other varieties as low as \$1.00. Vinifera—Palmer, Campbell, Marie Louise, Swanley, White Giant Double Alyssum—75c. per 100, by mail. Prices and Trade given for the asking.  
L. B. 32.

**E. J. CLOUD, Avondale, Pa.**  
WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**CARNATIONS** Daybreak, Sent, \$1.00; Wavy, \$1.00; Sprays, \$1.25; Breeze, \$1.00; Wagon Wheel, \$1.00; Bobwhite, \$1.00; \$1.50 per 100.

**WIDETS** Lady Campbell, \$5.00 per 1000; Lisemon, \$5.00 per 1000; \$5.00 per 1000; \$5.00 per 1000; Admiral's Avellan, \$5.00 per 1000.

**JOSEPH RENARD, Unionville, Chester, Pa.**  
WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**FINE HEALTHY CARNATION CUTTINGS.**  
From Sand, \$5.00 per 1000.  
From Pine, \$4.00 per 1000.  
Scott, McGowan, Perle.  
Cash with Order.

**A. ROTHAAAR & SON,**  
654 Central Ave., BROOKLYN, N. Y.  
WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**20,000 Well-Rooted Rose Cuttings.**  
Bridesmaid, Meteor, Perle, La France, Hermina, Gondier, \$1.40 per 100; \$13.00 per 1000; Bride, Nipheon, Mermot, \$1.25 per 100; \$11.00 per 1000.

**CARNATIONS** Daybreak, Sent, McGowan, Albert, Perle, \$1.00; \$8.00 per 1000.  
Cash with order. By mail, add 10c. per 100.

**J. J. LAMPERT, 836 North King St., Xenia, O.**  
WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**GERANIUMS. 40 Leading Varieties.**  
Fascination, 3 varieties; Heflorange, 3 varieties; Colours, 10 varieties; Flowering Begonia, 10 varieties; Curly, 10 varieties; Perle, Perle, Nipheon, nice plants, 24 inch pots, \$7.00 per 100.  
1 1/2 inch VASE GERANIUMS—Standard varieties. 24 inch pots, \$5.00 per 100.

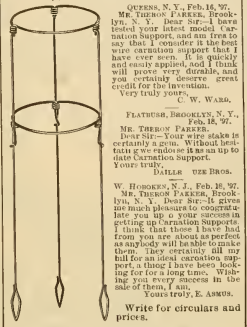
Large Lots of other FLORISTS' STOCK at accordingly low prices. Write for particulars.  
Few Geraniata and Rex Begonias left, at \$1.50 per dozen.

See Strictly CASH with order.  
**GREENE COUNTY FLORAL NURSERY,**  
White Hall, Ill.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**MODEL CARNATION SUPPORT.**

Affords perfect support, admits plenty of light and free circulation of air. Combines lightness, strength and durability. Adjustable, easily raised gradually as the plant grows. Packed compactly in small packages. A third circle can be supplied for extra tall plants.



**THERON PARKER, 32 S. Sixth St., BROOKLYN, N. Y.**  
WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**PANSY PLANTS.**

Myrna Select Strain. Strong plants from frames \$4.00 per 1000 each.  
W. J. ENGLE, Box 31, Dayton, Ohio.  
WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**PANSIES.**

**THE JENNINGS STRAIN OF FINEST AMERICAN GROWN PANSIES.**  
Fine plants from cold frames, 75c per doz by mail; \$4.00 per 100 by express.  
SEEDS of above strain \$1.00 per pkt, of 2500 seeds; \$8.00 per oz.

**E. B. JENNINGS, 354 S. Southport, Conn., BROWDER OF THE FINEST PANSIES.**  
WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**Pansies Worth Raising**

We can still furnish good plants, fall sown, and which my bloom in April at \$1.00 per 1000; \$10c. express here. Now is the time to buy if QUICK RETURNS are wanted.

Cash with Order.  
**C. Soltau & Co., 199 Grand Avenue, Jersey City, N. J.**  
WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**PANSY PLANTS**

Schmidt's International choice mixture of Pansies. Fine large plants in bud or bloom, \$1.50 per 100; \$10 per 1000. Fine seed lots, 50c. per 100; \$4 per 1000; all grown in cold frames.

**J. C. SCHMIDT & CO., Wholesale Pansy Growers, Box 24, BRISTOL, PA.**  
WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**Pansies! Pansies!**

WE ARE THE PANSY KING.



We grow more than a million. Our strain of Bugnot, Cassier, Ouder and Trinarid are surpassed by none. Large, sturdy, strong, transplanted plants from cold frames. Don't write and ask us if we have got them yet, we've got 'em and can supply all America. Every order received to-day, is filled to-morrow. We pack light and guarantee safe arrival.

60 cts. per 100; \$4.50 per 1000.

**Mammoth Verbenas,** 70c. per 100; \$5.50 per 1000.

**WHITTON & SONS**  
Wholesale Florists.  
City and Green Streets, - UTICA, N. Y.  
WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**VIOLETS MY SPECIALTY!**

On and after March 1st I will be ready to supply, in any quantity, stock of the following varieties. . . . .  
ROOTED RUNNERS, ALL FROM GOOD PLANTS.



**FIVE (5) AMERICAN MEDALS.**  
**TWO (2) AMERICAN MEDALS.**  
**FIVE (5) FRENCH MEDALS.**  
**PRINCESSE de GALLES,** the queen of single violets. The largest and most fragrant; strong grower and productive. Per 100, \$5.00; per 1000, \$45.00.  
**LUXONNE** per 100, \$3.00; per 1000, \$25.00.  
SEND IN YOUR ORDERS NOW. CASH OR SATISFACTORY REFERENCE.  
**FERD. BOULON, Sea Cliff, L. I., N. Y.**  
WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**Earliest Large Flowering Yellow Chrysanthemum.** **Yellow Monarch.**  
Japanese. Blooms certified at New York and Boston, October 7, 1896. Now ready, from 2 1/2 inch pots, excellent stock. Price, \$3.50 per doz., \$25.00 per 100.  
**DAILLEDOUZE BROS., (Flatbush.) BROOKLYN, N. Y.**  
WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**THE COTTAGE GARDENS, L. I.**  
SPECIALISTS IN  
**Carnations, Cannas, Chrysanthemums, Geraniums and Dahlias.**  
MENTION PAPER. SEND FOR OUR PRICE LIST.

**Dreer's Royal Exhibition Pansies**



WE have in surplus beyond our regular requirements about 25,000 fine strong plants of our Royal Exhibition strain of Pansies; these are seedlings that were transplanted into cold frames in November, wintered in that shape, and will make fine strong stock in a short time, and must not be confounded with small seedlings out of seed bed.  
We offer as surplus lasts at:  
\$1.00 per 100, or \$7.50 per 1000.  
**HENRY A. DREER, 714 Chestnut St., Phila., Pa.**  
WHEN WRITING MENTION THE FLORIST'S EXCHANGE

Three (3) Diplomas. First Premium, Grand Central Palace, N. Y.



INTERNATIONAL HORTICULTURAL ASSOCIATION AT HAMBURG, 1897. FROM MAY TILL OCTOBER.

Alternantheras, Begonias and Geraniums. Alternanthera A. Nana, B. Nana, B. Majorand...

GREEN AS GRASS Mammoth Verbenas Rooted cuttings, in separate cots. Per 100, 90c.

25,000 Flowering Begonias Rooted Cuttings. Argentea Guttata, Mexica, Nilda Alba, Decora, Alba Ficta, Brabant, Margalita...

VERBENA KING 50,000 Rooted Verbena cuttings, in the most varieties in cultivation, true...

C. HUMFRED, Clay Center, Kansas. SEND FOR LIST. GERANIUMS UP-TO-DATE VARIETIES...

GERANIUMS! Double Grand, La Favorite, S. A. Nutt, cut of 100, 45 cts. per 100, \$5.00 per 1000...

GERANIUMS! Double Grand, La Favorite, S. A. Nutt, cut of 100, 45 cts. per 100, \$5.00 per 1000...

ROOTED CUTTINGS. Cash prices. All transplanted to 3 1/2 inch round as pot-grown plants, perfectly healthy stock.

FRANK S. PAYNE, Barnard Crossing, N. Y. 25,000 Flowering Begonias Rooted Cuttings. Argentea Guttata, Mexica, Nilda Alba, Decora, Alba Ficta, Brabant, Margalita...

MRS. THEODOSIA B. SHEPHERD, Hybridizer and grower of Novelties, offers to double stock of some Grand New Begonias...

100,000 VERBENAS. The choicest varieties in cultivation. Fine pot plants, \$2.50 per 100; \$20 per 1000. Rooted Cuttings, 75c. per 100; \$6.00 per 1000.

GOOD STOCK AGERATUM, blue, 2 1/2 in. pots. Per 100 \$2.50 AGERANTHES in three varieties, 2 1/2 in. pots. 3.00 BEGONIA, good assortment, 2 1/2 in. pots. 4.10 CANNAS, dry roots. 3.00 CHEVYANTHEMUM FRITESSEUSES HALLEHUE AUBRE, new yellow Paris Daisy, 2 1/2 in. pots. 8.00 COLIUM, 10 leading varieties, 2 1/2 in. pots. 2.00 COBEVERIA acropala cuttings. 1.00 DAILEY, Harry English from cold frames. 4.40 FORESET-NOT, the plants from cold frames. 2.50 FUCHSIAS, grand assortment, in pots. 5.00 GERANIUMS, Brabant, La Favorite, Celestial and Gen. Grant, 2 1/2 in. pots. 3.10 5000 GERANIUMS, best and odd varieties, \$5.00 per 1000. 3.25 HELIOTROPE, 4 in. pots, very strong. 3.00 500 MISS ENNETT, the plants from 6 and 10 in. pots. 3.00 SWAINSONA galegifolia, 3 1/2 in. pots. 4.00

ROOT CUTTINGS. Let us price your wants. Trade List Free on Application. CASH with order, unless customers or C. O. D. Orders amounting to \$5.00 and over F. O. B. N. Y. City.

SEAWANNA GREENHOUSES, Oyster Bay, Queens Co., N. Y. J. A. C. CLARK, Supt. P. O. BOX 34 WM. L. SWAN, Proprietor.

LARGEST AND FINEST FLOWERS BEST MAMMOTH, rooted cuttings. 100 cts. per 100, \$10.00 per 1000. OLDER MAMMOTH, rooted cuttings. 1.00 5.00 8.00 BEST MAMMOTH, strong pot plants. 2.50 3.00 20.00 OLDER MAMMOTH, strong pot plants. 3.00 2.50 20.00

STRONG ROOTED CUTTINGS. NEALY CALABAZO, 2 1/2 in. pots. Per 100 \$3.00 Jubilee. 5.00 40.00 Armadillo, Ivory, Della Fox, Triumph. 5.00 40.00 Bridesmaid, M. H. Stanley. 3.50 30.00 Buttercup, Meteor, Storm King, Eldorado, Albatross, Albatross Daybreak, Puritan. 2.00 15.00 Deso Hole, Bouton d'Or. 2.50 20.00 Thos. Cartledge, E. A. Wood. 2.00 20.00 Lizzie McGowan, Portia, Wm. Scott. 1.50 12.50

STRONG ROOTED CUTTINGS. Ageratum, bine and white. 1.25 10.00 Agrostis, all leading sorts. 1.00 8.00 Fuchsia, double and single. 2.00 15.00 Feverfew, Dwarf Gem. 2.00 15.00 Geraniums, double and single. 2.00 15.00 Heliotrope, all leading sorts. 1.25 10.00 Moon Flower, true. 2.00 15.00 Salvia, Splendore and Wm. Beaman. 2.50 20.00

WOOD BROS., Fishkill, N. Y. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

VERBENAS ROOTED CUTTINGS and seedlings. Fine stock, low prices. Express prepaid. Send for Price List of rooted cuttings, etc. S. W. PIKE, St. Charles, Ill.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

PER 100 \$2.50 AGERANTHES in three varieties, 2 1/2 in. pots. 3.00 BEGONIA, good assortment, 2 1/2 in. pots. 4.10 CANNAS, dry roots. 3.00 CHEVYANTHEMUM FRITESSEUSES HALLEHUE AUBRE, new yellow Paris Daisy, 2 1/2 in. pots. 8.00 COLIUM, 10 leading varieties, 2 1/2 in. pots. 2.00 COBEVERIA acropala cuttings. 1.00 DAILEY, Harry English from cold frames. 4.40 FORESET-NOT, the plants from cold frames. 2.50 FUCHSIAS, grand assortment, in pots. 5.00 GERANIUMS, Brabant, La Favorite, Celestial and Gen. Grant, 2 1/2 in. pots. 3.10 5000 GERANIUMS, best and odd varieties, \$5.00 per 1000. 3.25 HELIOTROPE, 4 in. pots, very strong. 3.00 500 MISS ENNETT, the plants from 6 and 10 in. pots. 3.00 SWAINSONA galegifolia, 3 1/2 in. pots. 4.00

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

HEALTHY VIGOROUS STOCK POLYANTHA, strong plants, 7 varieties. 84.00 Hybrid Perpetual and Grandiflora sorts. 100.00 Hardy Climbers, strong plants, 6 vars. 60.00 H. P. Jacquemont, Ulrich Brunner, Magnus, Charles, and Neve. 11.00 (strong plants. 100.00)

CHRYSANTHEMUMS ROOTED CUTTINGS. POTTED PLANTS. ADA Spaulding, Mme. Fred. Bergeman, Helen Bloodgood, Elvior D. Smith, Harry Man, Oakland, Olympus, M. M. Johnson, Jennie Walker, M. Richard Dea, Gladys Spaulding, Mrs. Henry Robinson, Thomas, P. O. Box 1, Mrs. McK. Twohally, Nivens, Potter Palmer, Mrs. S. H. Brown, Collingford, Minnie Crook, Harry Me, Mrs. J. J. Crane, Frank Thompson, Dorothy Tull, J. H. Starin, Fitcher & Mandis, Vivian-Mercy, Mary Graham. Rooted Cuttings, \$2.00 per 100; \$17.50 per 1000. From 2 1/2 in. pots. 4.00 35.00 Mrs. W. L. Smith, Eugene Ballou, Ivory, Thos. H. Brown, Collingford, Minnie Crook, maker, Miss May Wheeler, Mrs. J. G. Whildin, W. H. Lincoln, Mrs. Jerome Jones. Rooted Cuttings, \$1.00 per 100. From 2 1/2 in. pots. 3.00

WOOD BROS., Fishkill, N. Y. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

50,000 SMILAX, by mail, 10c per 100. From 2 in. pots. \$1.00 per 100, \$3.00 per 1000. Geraniums, 2 in. pots, \$1.00 per 100, \$3.00 per 1000. Seed for sale with the order. FRED. BOENNER, Cape May (Irr. N. J.) WHEN WRITING MENTION THE FLORISTS' EXCHANGE

FUCHSIAS! FUCHSIAS!! Rooted cuttings, in flats, all the latest and best and at least ten varieties on \$15.00 per 100. Same in 2 1/2 in. pots, \$25.00 per 1000.

GERANIUMS. The best and latest varieties of the flowering sorts, in flats, \$12.00 per 100. Rose Geranium, \$2.00 per 100. Double Salleron, \$1.25 per 100. Mt. Snow, 50 cts. per 100, \$2.50 per 1000.

HELIOTROPE. At least six varieties, \$14.00 per 100. AGERATUM. Dwarf blue and white, \$8.00 per 100. FEVERFEW. Little Gem, in flats, \$15.00 per 100. SALVIA SPLENDENS, \$10.00 per 1000.

HEARTERS COLEUS Crimson Varschauffli and Golden Queen, \$8.00 per 1000. COLEUS in variety, \$5.00 per 1000.

Correspondence solicited on large orders. 500 at 100 rate; by the 100 add 15 cts. Cash with the order. Selection of sorts to suit the taste. J. E. FELDHOUSEN, Schenectady, N. Y.

LITTLE BEAUTY FUCHSIA. The best seller ever introduced. Has no equal as a money maker; begins to bloom profusely in June. Strong roots, 2 1/2 in. pots, \$5.00 per 100.

GERANIUMS. Silver Cloud, Double Crown, Happy Thought, 2 1/2 in. pots, \$4.00 per 100. Mrs. F. J. Erady, 2 1/2 in. pots, \$6.00 per 100. La Favorite, the only good white, 2 1/2 in. pots, \$4.00 per 100.

BEGONIAS. Rex, C. L. Erady, 2 1/2 in. pots, \$7.00 per 100. In variety, 2 1/2 in. pots, \$5.00 per 100. The goods all ready to ship, lots of 2 and 4 in. pots. Strictly cash with order.

LINCOLN I. NEFF, FLORIST, 4010 BUTLER ST., PITTSBURGH, PA. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Choice New Double and Brant GERANIUMS Varieties that have been tested, and are to prove good selling sorts.

J. J. HARRISON. Best white to date. 15c. each; \$1.00 per doz. Monticene 2. Healthier pink and deeper shade of pink than the original. Best & Lacépède 2. Very hot pink. This and the other two are the best of the new line. A number of seedlings of 1898 as improvements on the present sorts. 10c. each; \$1.00 per doz. M. Alphonse Ricard. Orange red; immense trusses holding perfect in a long time. 10c. each; \$1.00 per doz. J. J. HARRISON. Very large flowers and trusses. Intense scarlet, and dwarfer in habit than Double Gem, 1 cent. 10c. each; \$1.00 per doz. MARGARET. Clear rose. Dwarf plants, and very profuse bloom. 10c. each; \$1.00 per doz. ALSO A FINE ASSORTMENT OF GERANIUMS AND REX BEGONIAS. AND GENERAL BEDDING PLANTS. Cash with the Order. J. J. NICOL, Oak St., Jersey City, N. J. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**J. K. ALLEN,**  
Wholesale Commission Dealer in  
**CUT FLOWERS,**  
67 W. 28th St., New York.  
Orders by mail or otherwise promptly attended to.  
Telephone Call, 382 28th St.  
**ROSES AND VIOLETS SPECIALITIES.**

**FITZGERALD & HAMMOND,**  
(Late with THEO. ROBERTS),  
Wholesale Commission Dealers in  
**CUT FLOWERS,**  
115 West 30th Street,  
Consignments Solicited. NEW YORK.

**FORD BROS.**  
**WHOLESALE FLORISTS,**  
111 West 30th Street,  
NEW YORK.  
Consignments S.O. Telephone 300 30th St

**WM. H. CUNTER,**  
**Wholesale Florist**  
VIOLETS AND CARNATIONS A SPECIALTY.  
Consignments Solicited.  
30 West 29th St., New York.  
Telephone, 249-28th Street.

**MICHAEL A. HART,**  
**Wholesale & Commission Florist,**  
118 W. 80th St., New York.  
Telephone Call, 877 82d St.  
All kinds of Roses, Violets and Carnations a specialty.  
**ORDERS PROMPTLY ATTENDED TO.**

**H. A. HOFFMANN,**  
**Wholesale Florist**  
54 W. 28th St., NEW YORK.  
Telephone Call, 1947 18th St.  
American Beauties, Carnations, White Violets,  
Specialties. CONSIGNMENTS SOLICITED.

**EDWARD C. HORAN,**  
**WHOLESALE FLORIST,**  
No. 34 W. 29th St., New York.  
The Bride, Diermet and American  
Beauty Specialties.

**JULIUS LANG,**  
**Wholesale Florist**  
53 WEST 30th ST.  
Consignments Solicited. NEW YORK.

**FRANK MILLANG,**  
Wholesale Commission Dealer  
...in Cut Flowers....  
403 East 34th St., New York City.  
Telephone Call, 1094-34th.

**THE NEW YORK CUT FLOWER CO.**  
119-121 West 23d Street,  
112-114 West 24th Street,  
Telephone 733, 19th St., NEW YORK.  
THE LARGEST DEALERS IN CUT  
... FLOWERS IN THE WORLD ...

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**W. E. LYNCH,**  
Wholesale Dealer in Cut Flowers.  
Send us your name for our Semi-Monthly Price List.  
We are Headquarters for FINEST CARNATIONS and ROSES,  
VIOLETS, VALLEY, ROMANS, SMILAX, ADIANTUM.  
19-21 RANDOLPH ST., CHICAGO.  
Best selected Stock Reserved for Shipping  
ORDERS...

**BASSETT & WASHBURN,**  
Growers and Wholesale Dealers in CUT FLOWERS.  
We grow the finest of American Beauties and other Roses. Also choice selected Valley all the year round. Carnations, Smilax, Adiantum, etc. fresh cut. Long Distance Telephone, Main 223.  
88, 90, 92 Wabash Avenue, CHICAGO, III.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**WHOLESALE PRICES**

NAMES AND VARIETIES.	NEW YORK	BOSTON	PHILADELPHIA	CHICAGO	ST. LOUIS
	Mar. 5, 1897.	Mar. 3, 1897	Mar. 3, 1897	Mar. 3, 1897.	Mar. 3, 1897.
A. Beauty, fancy and special.	35.00 to 42.00	35.00 to 50.00	35.00 to 50.00	35.00 to 50.00	40.00 to 50.00
" " " " " " "	15.00 to 25.00	15.00 to 30.00	15.00 to 30.00	15.00 to 30.00	15.00 to 30.00
" " No. 1.	30.00 to 40.00	8.00 to 12.00	8.00 to 12.00	8.00 to 12.00	8.00 to 12.00
" " " " " " "	2.00 to 8.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
Bonnet, Ordinary.	3.00 to 6.00	4.00 to 6.00	4.00 to 6.00	4.00 to 6.00	4.00 to 6.00
Bride.	1.00 to 5.00	3.00 to 5.00	3.00 to 5.00	3.00 to 5.00	3.00 to 5.00
Cliphurst, Double.	2.00 to 5.00	4.00 to 6.00	4.00 to 6.00	4.00 to 6.00	4.00 to 6.00
Jaquinet.	6.00 to 8.00	8.00 to 20.00	8.00 to 20.00	8.00 to 20.00	8.00 to 20.00
E. A. Victoria.	1.00 to 3.00	1.00 to 3.00	1.00 to 3.00	1.00 to 3.00	1.00 to 3.00
La France, extra.	4.00 to 6.00	6.00 to 10.00	6.00 to 10.00	6.00 to 10.00	6.00 to 10.00
" " ordinary.	2.00 to 4.00	4.00 to 6.00	4.00 to 6.00	4.00 to 6.00	4.00 to 6.00
Maize, Chant.	1.00 to 3.00	1.00 to 3.00	1.00 to 3.00	1.00 to 3.00	1.00 to 3.00
Miss Toxout.	1.00 to 3.00	1.00 to 3.00	1.00 to 3.00	1.00 to 3.00	1.00 to 3.00
Meteor.	3.00 to 5.00	4.00 to 6.00	4.00 to 6.00	4.00 to 6.00	4.00 to 6.00
Mrs. F. Morgan.	3.00 to 5.00	4.00 to 6.00	4.00 to 6.00	4.00 to 6.00	4.00 to 6.00
Phloxes, Double.	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00
Papa Goutier.	1.00 to 3.00	1.00 to 3.00	1.00 to 3.00	1.00 to 3.00	1.00 to 3.00
Perle.	1.00 to 4.00	3.00 to 5.00	3.00 to 5.00	3.00 to 5.00	3.00 to 5.00
Revellite.	8.00 to 25.00	12.00 to 50.00	12.00 to 50.00	12.00 to 50.00	12.00 to 50.00
Ulrich Brunner.	1.00 to 3.00	1.00 to 3.00	1.00 to 3.00	1.00 to 3.00	1.00 to 3.00
Adiantum.	75 to 1.00	60 to 1.00	75 to 1.00	75 to 1.00	75 to 1.25
Asplenium.	50 to 50.00	50 to 50.00	50 to 50.00	50 to 50.00	50 to 50.00
GALLIA.	3.00 to 5.00	4.00 to 5.00	4.00 to 5.00	4.00 to 5.00	4.00 to 5.00
All colors, interior grades	1.00 to 1.50	75 to 35	75 to 1.00	35 to 50	1.25 to 1.50
STANDARD Pink.	1.00 to 1.75	75 to 1.50	1.00 to 1.50	1.00 to 1.50	1.25 to 1.50
FANCIER'S (White)	1.00 to 1.75	75 to 1.50	1.00 to 1.50	1.00 to 1.50	1.25 to 1.50
* YAL & VARIE	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.50 to 2.00
* FANCY (Pink)	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.50 to 2.00
* (The highest grades of red)	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 2.50
AND VARIETIES (Yal & Var)	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 2.50
NOVELTIES.	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 3.00
CUTTINGS.	50 to 50.00	50 to 50.00	50 to 50.00	50 to 50.00	50 to 50.00
LILAC.	50 to 75	50 to 75	50 to 75	50 to 75	50 to 75
LILY OF THE VALLEY.	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
MONROVIA.	3.00 to 6.00	1.00 to 3.00	2.00 to 5.00	2.00 to 4.00	4.00 to 6.00
NARCISSES, Van Sion.	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
" " Golden Spur.	50 to 3.00	50 to 3.00	50 to 3.00	50 to 3.00	50 to 3.00
ROSEAN HERRING.	75 to 1.50	75 to 1.50	75 to 1.50	75 to 1.50	75 to 1.50
SMILAX.	8.00 to 10.00	10.00 to 15.00	10.00 to 15.00	10.00 to 15.00	12.00 to 20.00
VIOLETS.	20 to 50	25 to 50	25 to 100	50 to 75	10 to 50

For Prices of Fancy and Special Stock see our Correspondence Columns.  
Prices are for quantities of one hundred unless otherwise noted.  
Prices quoted above are in cash only after very careful inquiry, and while we do not guarantee their accuracy, they will be found practically correct up to the date mentioned.

**REINBERG BROS.,** Wholesale Growers of Cut Flowers...  
... 500,000 Feet of Glass...  
We can fill all orders on short notice with all leading varieties of ROSES and CARNATIONS. We are headquarters for fine AMERICAN BEAUTIES. Give us a trial and convince yourself.  
SALESROOM 51 Wabash Avenue, CHICAGO, Ill.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**SAMUEL S. PENNOCK,** WHOLESALE FLORIST.  
WELL FLOWERED MIGNONETTE Long Petals Extra Good 86 per 100.  
MYOSOTIS \$1.50 per fine stock.  
We are still headquarters for finest and best varieties of CARNATIONS.  
1612-1614 Barker St. Bet. Chestnut & Market St. Philadelphia, Pa.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Illinois Cut Flower Co.**  
J. B. DEAMUD, Manager.  
WHOLESALE COMMISSION FLORISTS,  
59 Wabash Ave., Chicago.  
Consignments Solicited.  
**KENNIGOTT BROS. COMPANY,**  
Wholesale - Cut - Flowers,  
88 Wabash Avenue,  
CHICAGO, ILL.  
WIRE WORK A SPECIALTY.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**PURDY & BLAUVELT,**  
Wholesale and Commission Dealers in  
**CUT FLOWERS**  
MADEIRA FROM FRONTS A SPECIALTY.  
57 WEST 30th STREET,  
Bet. Broadway & 6th Ave. NEW YORK.

**A. & F. ROLKER,**  
WHOLESALE DEALERS IN  
**CUT FLOWERS**  
53 West 28th St.  
Telephone 2379 38th St. NEW YORK.

**W. F. SHERIDAN**  
Wholesale Commission Dealer in  
**CUT FLOWERS**  
39 West 28th St., New York.  
Telephone, 211-38th St.  
PRICE LIST SENT ON APPLICATION.

**FRANK H. TALLEY, CHARLES SCHENCK,**  
**TREANDLY & SCHENCK,**  
Wholesale Florists,  
38 W. 28th St. and CUT FLOWER EXCHANGE,  
NEW YORK.  
Telephone 951-18th St.  
\* \* \* \* \*  
\* \* \* \* \*  
\* \* \* \* \*  
\* \* \* \* \*

**JOHN YOUNG,**  
**Wholesale Florist,**  
51 WEST 28th St.,  
NEW YORK.

**WM. J. BAKER,**  
**Wholesale Florist**  
1432 So. Penn Square,  
Philadelphia, Pa.

**DUMONT & CO.,**  
**WHOLESALE FLORISTS**  
CARNATIONS A SPECIALTY.  
No. 1305 Filbert St., Philadelphia.

**EDWARD REID,**  
**Wholesale Florist**  
—FINEST VARIETIES—  
Roses, Carnations, Violets.  
No. 40 South Sixteenth Street,  
Philadelphia.  
Lead and Long Distance PHONE.

**CHARLES W. MCKELLAR,**  
69 Wabash Ave., CHICAGO.  
**Wholesale Commission Florist.**  
All consignments and orders entrusted to our care will be given prompt and careful attention. Ed. J. Winteron, Mgr.

**ROGERS PARK FLORAL CO.,**  
**Wholesale Growers of Cut Flowers**  
OFFICE AND SALESROOM,  
41 WABASH AVE., CHICAGO.  
Headquarters for AMERICAN BEAUTIES.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**WHOLESALE FLORISTS**

*A. P. Warrant*

**JOBBERS IN FLORISTS' SUPPLIES.** **EDIBLES**  
 Geraniums, Petals, Violets, **FRUITED**  
 Plants, and Floral Supplies. **CARNATIONS**  
 Specialty. **ALL INFORMATION**  
 84 HAWLEY STREET, BOSTON, MASS.

**GEORGE MULLEN,**  
 Wholesale and Commission Dealer in  
**Cut Flowers.**

Best stock and lowest prices. Orders by mail, express, telephone or telegraph promptly attended to.  
 GEORGE MULLEN 18 Chapman Place, Boston.

**GEO. A. SUTHERLAND,**  
 Successor to W. J. STEWART,

**CUT FLOWERS and FLORISTS' SUPPLIES**  
 WHOLESALE.  
 67 Bromfield St., Boston, Mass.

**City Hall Cut Flower Market**  
**WELCH BROS., Props.**

Regular Consignees Given Space Free of Charge. Special Lot to growers wishing to sell their own goods.  
 Flowers Shipped to All Points.  
**...SEND FOR PRICE LIST...**

**W. ELLISON,**  
 Wholesale Cut Flowers,

Floral Supplies. Wire Designs.  
 274 1/2 Franklin Ave., ST. LOUIS, MO.

**CHAS. G. FLECKENSTEIN,**  
 Wholesale Florist,

1323 PINE STREET,  
 ...ST. LOUIS, MO.

**C. A. KUEHN,**  
 Successor to ELLISON & KUEHN,

**WHOLESALE FLORIST,**  
 1122 Pine St., St. Louis, Mo.  
 A COMPLETE LINE OF WIRE DESIGNS.

**C. W. WORS,**  
 Wholesale Florist,

313 N. LEFINGWORTH AVENUE,  
 ST. LOUIS, MO.  
 FINE ROSES—Shipped carefully to all parts of the country.

**HEADQUARTERS** In Western  
 New York.

**ROSES, CARNATIONS,**  
**AND VIOLETS.**  
**WM. F. KASTING** Wholesale  
 495 Washington St., Commission  
 BUFFALO, N. Y. Florist.

**E. G. HILL & CO.,**

**Wholesale Florists,**  
 RICHMOND, INDIANA.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**TOBACCO STEMS**

75 Cts. per 100 lbs.  
 Shave weight about 10 lbs.  
 THE BEST AND STRONGEST MUST BE FRESH,  
 NOT OLD DRIED OR STIFF. You can get the best of  
 H. A. Sutherland, 386 Madison Ave., N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**ASPARAGUS PLUMOSUS VARUS,**

**W. H. ELLIOTT,** -  
 Brighton, Mass.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Baltimore.**

As is usually the case, the last week of the season will bring one with the majority of the stores. Although there was a good demand the supply met it. Violets, particularly, have kept up this year. Our neighboring cities, especially Washington, taking a great many. Carnations have been of good quality and have sold very readily; often when nothing else sells the carnation is in demand. Roses have also been good. Halliday Brothers have grown some very fine La Reine tulips; these have sold quickly with this firm this season.

**Notes.**  
 J. Austin Shaw of Siechroft & Son was in town this week.  
 The disease of Harnell has shown itself again this season; it is prevalent in many places.  
 John Gook has refused a good round sum for his new rose, Mrs. Robert Garrett. This rose is a most profitable kind of a pleasing pink shade. In all probability Mr. Gook will introduce this variety very shortly. EDWIN A. SEIDSWITZ.

**OBITUARY.**

Robert J. Murphy.

Robert J. Murphy died Feb. 24 at 11 A. M. of paralysis. He was 61 years of age. Early on Monday morning "Bob," as he was always called, repaired to his greenhouse and commenced cutting his favorite carnation Daybreak. At about 8 A. M. his son found him stricken down speechless and helpless, but still gripping his favorite flower. He was quickly carried to his residence, and all that mortal hands could do was done, but to no avail.

Mr. Murphy was loved by all who knew him; he was a kind and devoted husband and father. A widow and four children—two boys and two girls—survive him and mourn his loss.  
 Robert J. Murphy was well known among the craft; he was a charter member of the S. A. F., and never missed a meeting of that distinguished body. He was a native of Ohio, born on the farm upon which he died. When a boy he learned the moulding trade, and worked at it for about five years. He had been in the florists' business for over eighteen years, and had made a success of it.

Again within a short time the Cincinnati Florists' Society has lost a valued member, and we have all lost a good friend.

E. G. GILLETT.

Edward W. Herendeen.  
 The trade will be shocked to hear of the sudden death of Edward W. Herendeen, president of the Herendeen Manufacturing Company, Geneva, N. Y., which occurred at Geneva, Feb. 23. Mr. Herendeen was born July 23, 1851, at Farningford, Ontario County, N. Y. He was graduated from Haverford College in 1871, and began his career in the nursery business at Macedon, Wayne County, as a member of the firm of Thomas & Herendeen. In 1889, having closed out his business in Macedon, he came to Geneva, where the firm of Herendeen & Jones in the nursery business, and later the firm of Herendeen Van Dusen were organized. Mr. Herendeen went out of the nursery business in 1874, when he joined the Thomas Harrow Company, who were succeeded by the Herendeen Manufacturing Company, established in 1888 and incorporated in 1891. He was one of the organizers of the new concern, the implement business was discontinued, and the manufacture of steam heating apparatus taken up. Mr. Herendeen was a prominent man in Geneva, being a member of the Board of Trade, and was interested as trustee and stockholder in several important institutions and business enterprises. He leaves a wife and four sons—Edward G., a lawyer, of Elmira; William L. and Francis A., of Geneva; and Frederick G., of Boston, the latter three being connected with the Herendeen Manufacturing Company.

**HAVE YOUR COLLECTIONS MADE**  
 THROUGH THE  
**NATIONAL FLORISTS' BOARD OF TRADE,**  
 271 Broadway, New York.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CUT ROSES.**

Fine BRIDE, BRIDESMAID and PERLE on short notice.  
 Give us a trial.

**THE NATIONAL PLANT CO.,** Dayton, Ohio.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**COMPLETE LINE OF SUPPLIES**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**"SWEET ROSIE O'GRADY"**

OR  
**ANYTHING IN ROSIES"**

**CUT-FLOWERS**  
 FLORISTS SEEDS  
 AND SUPPLIES  
 CAN BE  
**E. H. HUNT,** 58 LAKE ST. CHICAGO.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

COPIES OF  
**50,000 AMERICAN GARDENING**

WILL BE MAILED TO  
**50,000 Buyers of Seeds and Plants**  
**SATURDAY, MARCH 13, 1897.**

We believe advertisers generally will recognize the value of a thorough representation in this Special Edition, and we herewith solicit your patronage.

Advertising Pays  
 But Advertising in American Gardening Pays Best.

No advance in rates over our regular charge of 25 cents per agate line will be made. Copy for your advert. in this issue must be in our hands not later than March 9th.

**AMERICAN GARDENING, P. O. Box 1697, NEW YORK.**

**JOHN CONLEY & SON,**  
 MANUFACTURERS OF  
**TIN FOIL,**  
 2 and 4 Dominick Street,  
 NEW YORK.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CHOCOLATE COOLER CO.,**  
 GRAND RAPIDS, MICH.

Manufacturers of  
**FLORISTS' REFRIGERATORS.**  
 Send for Circular.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

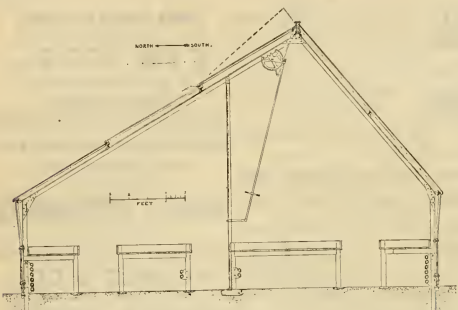
**M. RICE & CO.,**  
 Importers and Manufacturers of  
**FLORISTS' SUPPLIES,**  
 25 N. 4th St., Philadelphia, Pa.  
 NEW FALL CATALOGUE NOW READY.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

BUY  
**BOSTON LETTERS.**  
 Best and Cheapest in the Market.  
 1/4 and 3/4 inch..... \$2.00 per 100  
 Best Script Letter in the World, #4 a 100.  
 See cut of wooden letter box we give away,  
 in next week's Exchange.  
**BOSTON FLORIST LETTER CO.,**  
 64 Newby Street, BOSTON, MASS.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**MEYER GREEN SILKLINE.**  
 Used for Stringing BRIMLAE and ASPAGOS.

Will not fade, or rot like other colors. Made also in fancy colors for stringing purposes. Send for sample and price.  
**JOHN C. MEYER & CO.,**  
 87 Summer Street, BOSTON, MASS., U. S. A.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE



Section of 22 foot Short Span to the South House.

### Use of Old Glass in Modern Greenhouses.

As a general thing the only objection found against the old style of commercial greenhouse is the smallness of the glass and the useless size of the wood members; this combination causing plants to "draw" and otherwise act to the disadvantage of the grower. Much of just complaint from this source reaches us. Why not remodel something on the lines of this twenty-two foot, short-span-to-the-south house? The width can be adapted to suit, the degree of pitch to the roof can be made more or less according to requirements. The cut represents a twenty-two foot house of even height to the eaves, with the eaves web cut for about 3 inches extended overhang. Every alternate 3 foot by 6 foot ridge sash is hinged for ventilation, using two vent arms for each sash; the sash are secured to the iron pulvins by screws or bolts; the joints of sash are made tight by small batens laid in stiff white lead; the vent sash batens are made fast on the vent pulvin; the eave should be placed with 18-inch glass, the sash bars being set without reference to the rear sash or sash bars; the iron eave bars to be placed immediately under the roof bars, the side and roof glass joining at the aprisprino. With this extended eave, and by lapping the roof glass only 1-16 of an inch over the side glass, you will have a warm overhang that cannot form ice and snow on the roof; or icicles on the eave, and is absolutely non-freezing. The bottom rail of the rear eaves, a small cypress header can be placed to receive the side glass at above mentioned point. This class of house has few, if any, disadvantages, and many points of merit; among the latter is abundant sunlight, adaptability to solid beds or benches, ample head room, economy, as you use much old material; and such a house can be built over the old site, and warmed by the old heating system. The cut represents a frame rolled iron of moderate expense, Locust posts, cypress rafters and iron pulvins, can be substituted, but with little saving in cost and with considerable loss in space, light and durability. J. B. HOWATT, Jersey City.

It costs 5 cents for each 600 ft. of floor space.

Does not injure the most sensitive plants. Endorsed by prominent florists. Used for fumigation or spraying indoors or out. 200 pounds of tobacco in one tin of RICE'S. Sold by prominent Greenhouses. See also D.P. Co., Chicago.

**Quickly Does It.**

## RAFFIA

Of Best White Quality, Braided. Direct from the Packers in Madagascar.

Apply for quotations to  
**ANDRE L. CAUSSE,**  
 105-107 Hudson St., New York.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

### SPECIAL OFFER

3000 5-12 in. STANDARD FLOWER POTS  
 For Sale at a Bargain.

Address,  
**RICE & CO., Sparkill, N. Y.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

### SUMMER IN WINTER

By Using  
**Standard Greenhouse Boilers**

One cent gets our Catalogue.

**GIBLIN & CO., Utica, N. Y.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## STANDARD POTS.

We are now ready to supply a superior quality of Pots in unlimited quantities. Catalogues and price lists furnished on application.

**A. H. HEWS & CO.,**  
 NORTH CAMBRIDGE, - MASS.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**TOBACCO STEMS**  
 Large Bales (300 lbs.). \$1.50 . . . STRONG AND FRESH  
 For Free Pamphlet, write to:  
**Raffia, the best material for tying, does not injure the plants; it gives freshness and is cheapest; first quality long fibre at 11c; a lb. \$5.00 a 100 lbs.** 414 & 66 N. Front St.  
**H. G. FAUST & CO., Philadelphia, Pa.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**THE BEST FOR ALL Florists.**

ROSE LEAF EXTRACT OF TOBACCO INSECTICIDE

FOR SALE BY Seed Stores.  
 For Free Pamphlet, write to:  
 LOREVILLE STREET (near Grand Terminal) Louisville, Ky.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CEDAR OIL SOAP.** The best on the market; the best preventive if used as a regular wash.  
 Niles, Spiller, Menly Bay, Tharp, Ely, etc. On hand 600 lbs. at 10c. To call for water. Soft wood plants. 1 lb. to 10 or 20 gallons of water. To destroy moulds. 30 cts. Half pound trial tin, mailed on receipt of 25 cts. Address the manufacturer.  
**August Röikler & Sons, New York, 136 West 24th St., P. O. Station X.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## Hot-Bed Sash

Tenous white-leaded. Corners secured with iron dovetails. Every detail of construction perfect. Made of Clear Cypress Lumber.

Quick Shipments.

We have in stock and can ship immediately:

- 3 ft. x 6 ft., 3 rows 10 in. glass.
  - 4 ft. 3 in. x 6 ft., " " 8 in.
  - 4 ft. x 6 ft., " " 8 in.
- Not glazed, 1 3/4 in. thick.

Delivered Prices

Quoted on application. State size and quantity wanted. No order too small to receive careful attention, and none too large for our facilities.

**LOCKLAND LUMBER CO.,**  
 Lockland, Ohio.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

The Biggest Little Thing on Earth  
**THE LIGHTNING BUG EXTERMINATOR.**

1 pint at a time, which equals 8 to 10 gallons with any other substance. Kills flies and a variety of parasites without doing any harm to the plants. Not a drop washes. As fast as you wish, \$1.25 Delivered by Express. Don't let any other man get this paper. It's A SPECIFIC! See advertisement in all papers.

**J. H. WRIGHT, 76 Madison St., Philadelphia, Pa.**

It is for insects that is perfect. The poison is put on the plants like a dust that will not wash off. Most delicate plants will not be injured. Get it now!

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**GLASS**  
 FOR GREENHOUSES, CONSERVATORIES, GRAPERIES, HOTBEDS AND ALPINE HOUSES IN GENERAL, AT LOWEST RATES.  
**L. HARRIS & SON,**  
 487 W. Broadway, NEW YORK, 88 ALBANY ST., NEW YORK.  
 1st, Broadway and Church St.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Wrought Iron Pipes, Valves, Cooke, Fittings, etc., for Steam and Hot Water; Rubber Hoses, Pumps and Well Pumps.  
**WM. H. KAY, 42 Day St., New York.**

## PIPE VALVES

**Standard Flower Pots.**

Sand for our New Price List with extra discounts. All our Pots, from 7 in. and upwards, have our Patent Elevator Bottom, which is a great advantage, as it insures perfect drainage.

A FULL LINE OF BULB PANS.

**THE WILLIDIN POTTEBY CO., 715 to 719 Watson Street, PHILADELPHIA.**  
 BRANCH HOUSES: 172 Gardner and Westside Aves, Jersey City, N. J.  
 37 Jackson Ave. and Pearson St., Long Island City, N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## FLOWER POTS

We are Manufacturing a Full Line of  
**STANDARD FLOWER POTS and HANGING BASKETS**  
 OF THE BEST QUALITY.  
 Shipping Facilities First-Class, thereby Securing Lowest Freight Rates.  
 Our goods are well packed, and breakage is nominal. Give us a trial. Send for Price List.  
 Address **THE SYRACUSE POTTERY CO., 403 N. SALINA ST., SYRACUSE, N. Y.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## THE JOHN J. PETERS COMPANY

(INCORPORATED.)  
**PULVERIZED COMPRESSED**  
 A Quick Germinator and Crop Former.

FACTORY:  
 Little Ferry, New Jersey.

OFFICE:  
 Long Island City, New York.

**NATURAL. ODORLESS**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## Standard Pots

MADE BY...  
**KELLER BROS.**  
 For Shipping Special Attention Given to Mail Orders...  
 Price Lists Furnished on Application.  
**WHEN WRITING MENTION THE FLORISTS' EXCHANGE**

## STANDARD FLOWER POTS

In any quantity, and of the best quality.  
 Get my price list before ordering elsewhere.

**W. H. ERNEST,**  
 Station M, N. E., WASHINGTON, D. C.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## STANDARD FLOWER POTS.

Our Specialty is ready packed crates of Florida Standard Pots, a large stock of which we keep on hand ready for shipment on day order is received. For 1900

14 inch.	4500	7 inch.	1700
12 "	4200	6 "	1600
10 "	3900	5 "	1500
9 "	3600	4 "	1400
8 "	3300	3 "	1300
7 "	3000	2 "	1200
6 "	2700	1 "	1100
5 "	2400		

10 per cent for cash with order. P. O. B. at Fort Edward. Send for price list of Hanging Baskets, Green Venise, Jardiniere, Bone Pots and Glazed Cylinders with Handles for cut flowers. Address

**HILLIGER Bros., Man'trs, Fort Edward, N. Y. or**  
**AUGUST RÖIKLER & SONS, New York**  
 136 & 138 W. 24th St., NEW YORK CITY.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**L. HARRIS & SON,**  
 487 W. Broadway, NEW YORK, 88 ALBANY ST., NEW YORK.  
 1st, Broadway and Church St.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## PIPE VALVES

**Standard Flower Pots.**

Sand for our New Price List with extra discounts. All our Pots, from 7 in. and upwards, have our Patent Elevator Bottom, which is a great advantage, as it insures perfect drainage.

A FULL LINE OF BULB PANS.

**THE WILLIDIN POTTEBY CO., 715 to 719 Watson Street, PHILADELPHIA.**  
 BRANCH HOUSES: 172 Gardner and Westside Aves, Jersey City, N. J.  
 37 Jackson Ave. and Pearson St., Long Island City, N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## FLOWER POTS

We are Manufacturing a Full Line of  
**STANDARD FLOWER POTS and HANGING BASKETS**  
 OF THE BEST QUALITY.  
 Shipping Facilities First-Class, thereby Securing Lowest Freight Rates.  
 Our goods are well packed, and breakage is nominal. Give us a trial. Send for Price List.  
 Address **THE SYRACUSE POTTERY CO., 403 N. SALINA ST., SYRACUSE, N. Y.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## THE JOHN J. PETERS COMPANY

(INCORPORATED.)  
**PULVERIZED COMPRESSED**  
 A Quick Germinator and Crop Former.

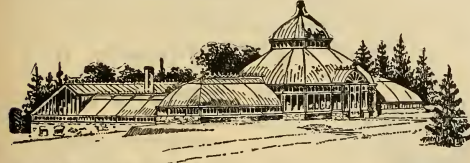
FACTORY:  
 Little Ferry, New Jersey.

OFFICE:  
 Long Island City, New York.

**NATURAL. ODORLESS**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE



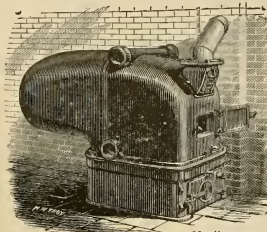
**LORD & BURNHAM CO.,**  
**ARTHWURAL ARCHITECTS AND BUILDERS,**  
**STEAM AND HOT WATER HEATING ENGINEERS.**  
 Plans and Estimates furnished on application.



Largest Builders of Greenhouse Structures. Six Highest Awards at the World's Fair. Send four cents postage for Illustrated Catalogue.

**LORD & BURNHAM CO.,**  
 ARCHITECTURAL OFFICE, 160 FIFTH AVE., COR. 21st STREET, NEW YORK.  
 Factory: Irvington-on-Hudson, New York.

**GREENHOUSE HEATING AND VENTILATING,**  
 Horticultural Architecture and Building.



Mention paper.

SEND 4c. POSTAGE FOR ILLUSTRATED CATALOGUE.

**Hitchings & Co**

ESTABLISHED 1844.  
 233 Mercer Street, NEW YORK  
 FIVE PATTERNS OF BOILERS.  
 NINETEEN SIZES.  
 Perfect Sash Raising Apparatus.  
 Reseasons, Greenhouses, Etc., of Iron  
 Frame Construction erected complete or  
 the Structural Iron Work shipped  
 ready for erection.  
 Iron Frame Benches with the  
 "Perfect Drainage Bench Tile"  
 or Slate Tops.

**GARDEN, ETC., HOSE.** "Mineralized Standard" is the best Hose made. Try it. Florists try a single length. Acetate washed. MINERALIZED RUBBER CO., 18 CHURCH STREET, NEW YORK.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**MASTICA**  
 For Glazing Greenhouses. A substitute for putty. Superior in every way. **MASTICA** and **MASTICA GLAZING MACHINES** were the highest award of S. A. F. at Pittsburg. Address for circular, F. O. PIERCE CO., 170 Fulton St., N. Y.  
 Sole Manufacturers.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**SCOLLAY'S IMPROVED PUTTY BULB**  
 For Glazing Sash, Etc., - ALSO THE - PATENT PLANT SPRINKLER  
 For sale by your Seedsmen or seed, postage for \$1.00, JOHN A. SCOLLAY, 74 & 76 Myrtle Ave., BROOKLYN, N. Y.  
 SEND STAMP FOR CATALOGUE.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Modern Greenhouse Heating.**

One of our boilers, 10,880 feet of two inch pipe, and sixty tons of coal will heat 22,400 feet of glass (four 30x300 feet double gable houses) to 65 degrees in coldest Winter weather; they have done it, and will do it for you—we guarantee it. Our boilers are not only the best of their kind, but the best made. They have the largest "firebrigt" direct surface, are the easiest cleaned, handled and set up; and from engineering facts, they are the ideal frictionless, economical water heating boilers of our day.

Plenty's Horticultural Works,  
 148-156 Randolph Ave.,  
 JERSEY CITY, N. J.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**GLASS!** For Greenhouses, Conservatories, Graperies, Hotbeds and all other purposes, at Lowest Rates. **GLASS!**  
 N. COWEN'S SON 392 & 394 West Broadway, New York.  
 Formerly 154 and 156 So. Fifth Avenue.  
 Get our Figures before buying Glass. - - - Estimates Freely Given.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CALIFORNIA RED CEDAR**  
 Never Decays.  
 A. DIETSCH & CO, 619 Sheffield Avenue, CHICAGO.  
 MANUFACTURERS OF  
 RED CEDAR AND CYPRESS GREENHOUSE MATERIAL.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

SEND FOR OUR NEW CATALOGUE, WHICH SHOWS  
**The New Automatic Cable Ventilator**  
 As it is put up in the house complete. We also give you prices with a guarantee that each machine set out will operate your house successfully. Send machine now made in two sizes.  
**A. G. WOLF & BRO., Dayton, Ohio.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

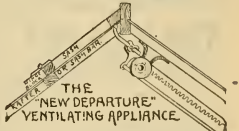
**Simplicity in Greenhouse Construction.**  
 During our long experience we have not only made many improvements in greenhouses, but we have so simplified the construction that building a greenhouse is no longer a matter so full of complications as to tax the patience and the ingenuity of even the most intelligent mechanic. Our  
**Clear Cypress Building Material**  
 is worked out in the best manner ready to be put up, and we furnish our customers such complete detail drawings that any workman of only ordinary capabilities can put it up correctly.  
 Write for Circulars or Estimates.  
**Lockland Lumber Co.,**  
 LOCKLAND, OHIO.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Evans' Improved Challenge.**  
 Boiler heater, self-collapsing device automatic stop, built into machine makes the IMPROVED CHALLENGE the most perfect apparatus in the market. Write for catalogue and prices before placing your order elsewhere.  
**Quaker City Machine Co.,**  
 RICHMOND, IND.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**VALVES, FITTINGS, AND VENTILATING APPARATUS.**  
**COLDWELL-HILL CO.,**  
 Newburgh, N. Y.  
 Mention paper.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

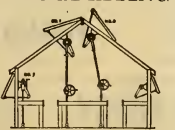
**CYPRESS GREENHOUSE MATERIAL**  
 OF ANY DESCRIPTION.  
 SEND FOR CATALOGUE.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**IF YOU WANT A GOOD SASH LIFT**  
 For a Very Little Money Get

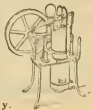


THE "NEW DEPARTURE" VENTILATING APPLIANCE.  
 For Descriptive Catalogue Send to  
**J. D. CARMODY, Evansville, Ind.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**STANDARD VENTILATING MACHINE.**  
 NONE EQUAL IT IN Strength AND Durability  
 Send for Catalogue.  
**E. HIPPARD, YOUNGSTOWN, OHIO.**  
 NOTHING Flimsy OR Complicated about it.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE



**GREAT REDUCTION IN PRICE.**  
 On account of the consolidation of the two firms—Rider Engine Company and the De Lamater Iron Works, which have heretofore manufactured the **RIDER & ERIGSSON HOT AIR PUMPING ENGINE** a great reduction in prices has been made, and the enlarged and improved facilities enable the new firm to produce a better engine than ever before offered for securing an abundant water supply for all purposes on Dairy, Stock and other farms, and for country seats, city residences, &c.  
 New catalogues are ready, and will be sent to those who ask for them.  
**Address, RIDER-ERICSSON ENGINE CO.,**  
 37 DeY St., New York City.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE



# SPECIAL NOTICE TO THE TRADE!!

The new seedling variegated leaf **Canna**, "**JOHN WHITE**," was originated by me and is controlled by **ME ONLY**. No one else has any right to use the name, and the **ORIGINAL STOCK** can be obtained **ONLY** from **ME** or my **AUTHORIZED AGENTS, WEBBER & DON**, 114 Chambers Street, New York, and the **ELIZABETH NURSERY CO.**, Elizabeth, New Jersey.

**"JOHN WHITE,"** the beautiful new variegated leaf **Canna**. Finest plant for all decorative purposes produced in year. **READY NOW**. From 4 inch pots, 75 cents each; \$7.50 per dozen; \$50.00 per 100.

SEE OR REFERENCE WITH ORDERS. **Address the Originator, JOHN WHITE, Elizabeth, N. J.**  
**REGULAR AND COLORED PLATE FOR THE ASKING.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## NEW CAPE FLOWERS.

**A. HERRMANN,**  
 404-412 E. 34th St, New York,  
 Near Ferry.

Manufacturer of Floral Designs.  
 Importer and Dealer in Florists' Supplies.

Write for Catalogue. Free to the trade.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## Florists' Supplies.

Largest Stock in the Country.

All goods up to date, and of superior quality.  
 Send for Illustrated Catalogue.

**H. BAYERSDORFER & CO.,**  
 PHILADELPHIA, PA.

**AUGUST RÖLKER & SONS,**  
 DEALERS IN ALL  
**FLORISTS' SUPPLIES,**  
 Seeds and Bulbs,

136 West 24th Street, NEW YORK.

Wholesale only. Trade Lists mailed on application with business card.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## NOBILIS LAURUS

**STANDARDS.**  
 Height of stem 3/4 to 4 feet. Each \$30.00  
 Diameter of buds, 4 feet. 2.00  
 " " " 3 feet. 1.00  
 " " " 2 1/2 feet. 50c

**PYRAMIDS.**  
 Height of pyramid, 10 feet. Each \$10.00  
 Diameter at base, 8 1/2 feet. 7.50  
 Height of pyramid, 8 feet. 7.50  
 Diameter at base, 7 feet. 5.50

The Best in Trade, Packing 750. ea.  
 Cash with order or good reference.

**DE SMET BROS.,** Nurserymen,  
 Ghent, Belgium.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## "TOP OF THE POT"

Both in Size and Quality.  
 The following "Specialties" are ready—

Olea Fragrans, stocky and well branched.	18-20	15.00
Olea and Lemmon, best vars., grafted on Trifoliata, bushy.	18-20	20.00
Oranges, Otaheite, bushy.	8-10	8.00
Marshall Nil Roses, strong, field grown, budded on Marechal, 2-4 feet.	\$125.00	15.00
Marshall Nil Roses, 18-24 inches.	\$100.00	12.00
Sonport, Favis and Mignonetto Rose, cut own roots.	\$60.00	7.00
Phoenix Reclinata and Leonoria, well formed, 4 in. pots.	12-20	25.00
Phoenix Stylarica, very fine, 4 in. pots.	12-20	40.00
Packing at cost. Above rates do not apply to long hauls and cart. Send for trade list.		

**P. J. BERKMANS, Augusta, Ca.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**WELCH BROTHERS,**  
 DEALERS IN  
**FLORISTS' SUPPLIES,**  
 No. 2 Beacon Street. - BOSTON.

Wire Designs, Wheel Sheaves, Baskets, Immortelles, Cut Flowers, Cut Flowers, Boxes, and all other supplies, at prices to meet competition.

## CLEMATIS CARNATIONS \* CHRYSANTHEMUMS

For special prices address

**C. EISELE** 411th & Jefferson Sts. Phila. Pa.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Live Sphagnum Moss and Orchid Peat  
**BEST QUALITY.**  
 For Prices, etc., address:

**Bernhard Lapp, New Providence, N. J.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## Decorative Plants

**ARAUCARIAS  
 PALMS  
 PANDANUS VEITCHII**

All sizes. Write for Prices.

## FERNS,

Assorted, from 2 1/2 inch pots, \$3.50 per 100.

**JOHN SCOTT,**

Keap Street Greenhouses, - BROOKLYN

Telephone Call 1207 Williamsburg

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## EASTER PLANTS.

Hydrangeas, Lilies, Kentias, Arecas, Latianias, Dracenas.

Also the **BOSTON FERN** N. Eraltata Bostonensis at from \$6 to \$20 per 100.

Now ready, a fine lot of **SPECIMEN PLANTS** of Kentias, Heliconias, and Forsterias, 4 to 8 feet high, at from \$7 to \$10 each.

Also **GERANIUMS, HELIOTROPES**, and a general assortment of small plants for Easter Trade. Cash with order.

**WM. A. BOCK,**

North Cambridge, Mass.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**A SPECIAL DISCOUNT**  
 Of 10 per cent. from last Spring's Wholesale list of Palms, etc., on all cash orders received.  
 Fine stock of good Palms.  
 Read for Wholesale List.  
**W. J. HESSER,**  
 Plainmouth, Noh.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**ORCHIDS FOR CUTTING.**  
 The Largest and Finest Stock in the World!  
**F. SANDER & CO.** (St. Albans, England, 1 Bruges, Belgium.  
 Agent, A. DIMMOCK, care of Wesber & Don Seedsmen, 114 Chambers St., N. Y. City.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## CYCAS REVOLUTA....

The true long leaf variety, just arrived. Stems from 2 inches long, upwards, \$20.00 per 100 lbs.; great reduction on quantities.  
 Prices on all bulbous and decorative stems by correspondence.  
**F. W. O. SCHMITZ,** - - **JERSEY CITY, N. J.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## Nephrolepis Exaltata Bostoniensis.

In large and small quantities for Spring Delivery, from \$40.00 to \$50.00 per 1000. Mine is the genuine stock.

**FRED. C. BECKER,** - - - 1730 Cambridge Street, CAMBRIDGE, MASS.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE



## FICUS ELASTICA

4 inch pots, 10 to 12 inches in height.  
 \$3.50 per dozen, \$25 per 100.

**ANDORRA NURSERIES**  
 Wm. Warner Harper, Manager, CHESTNUT HILL, PHILA., PA.

**SPECIALTIES:**  
 Large Specimen Ornamental Trees, Hardy Rhododendrons and Azaleas.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## FINE STOCK OF PALMS

**ARECA LUTESCENS**

6 in., 3 plants in pot, 20 to 24 in.	\$1.00
6 in., 3 plants in pot, 24 to 30 in.	1.20
6 in., 1 plant in pot, 30 in.	2.00
7 in., 1 plant in pot, 40 to 48 in.	3.00

## KENTIA BELMOREANA

Strong Home-Grown Plants.

3 in., 30 to 35 in. high.	\$1.00
6 in., 24 to 30 in. high.	2.50
6 in., 30 to 35 in. high.	3.50

## LATANIA BORBONICA

6 in., 30 leaves, 20 to 24 in. high, 30 in. broad, \$1.00  
 7 in., 30 leaves, 24 to 30 in. high, 30 in. broad, 1.50

## PHOENIX RECLINATA

6 in., 24 to 30 in. high..... \$1.00  
 All Plants Measured from Top of Pot.  
**JOSEPH HEACOCK, WYNCOTE, PA.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# THE FLORISTS' EXCHANGE

We are a straight shoot and aim to grow into a vigorous plant.

A WEEKLY MEDIUM OF INTERCHANGE FOR FLORISTS, NURSERYMEN, SEEDSMEN AND THE TRADE IN GENERAL.

VOL. IX. No. 11.

NEW YORK, MARCH 13, 1897.

One Dollar Per Year.

## SEEDS. FLOWER and VEGETABLE.

### 1/2 CENT PER PACKET.

(5000 LOTS.)

Large Packets (2 1/2 inches), lithographed in the brightest colors of the varieties represented—large assortment of the most popular sorts. Seeds are guaranteed Fresh, True and Reliable. The well-known P. & M. True and Good Brand. We sell them at Wholesale Only.

1000 Packets at 1c.....	\$10.00
2500 Packets at 1c.....	18.75
5000 Packets at 1c.....	25.00

These are put up to retail at 5c. and 10c. per packet. Large, handsome colored Hangers are furnished free with all orders. Write for a sample packet each of Flower and Vegetable Seeds, and Low Offer of Lawn Grass Seed in pint and quart boxes for retailing, Spring Bulbs, etc.

## PLANTS FOR EASTER FORCING.

### AZALEA INDICA.

A fine stock, comprising the best varieties, well budded, shapely plants, 10 to 12 inch heads, \$5.00 per dozen; \$45.00 per 100.

### SPIRÆA ANTHONY WATERER.

We offer a fine lot of this beautiful new Spiræa, which is excellent for Easter forcing. The plant is of a dwarf, compact habit, producing a profusion of bright, crimson flowers, and will command a ready sale owing to its showy trusses.

3 in. pots, 1 year old, 1.50 per doz.;	\$10.00 per 100.
4 in. pots, 2 years old, 2.50 per doz.;	15.00 per 100.

## PITCHER & MANDA, Short Hills, N. J.

JOHN N. MAY, Receiver.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# LILY OF THE VALLEY

.. FOR EASTER ..

We offer at a bargain stock remaining unsold at this date in order to close it out. We have only 12 cases left unsold, which we offer as long as unsold at

**\$20.00 per case of 2500 pips, net cash.**

This is the same grade of Valley that brought \$25.00 per case early in the season, but we now offer it at 20c in order to close out the stock. Price is cheap, quality the very best, highest quality selected German pips. Speak quickly if you want it.

## TUBEROSE PEARL.

In order to close out our surplus of Tuberose Bulbs, we make the following exceptionally low offer, viz:

Extra Quality Bulbs, \$1.00 per 100;	\$7.00 per 1000.
“ “ “ 5.00 lots at	6.00 “
“ “ “ 10,000 “	5.50 “

## TUBEROSE BEGONIAS.

We are headquarters for Tuberose Begonias, and can supply the very finest quality of these bulbs in any quantity. Large buyers should write us for special prices. We can offer these bulbs in large quantity lower than you can import them. We offer them in separate colors, white, pink, scarlet and yellow.

SINGLE, \$3.00 per 100;	\$25.00 per 1000.
DOUBLE, 8.00 “	70.00 “

Write for our descriptive catalogue and complete wholesale list, if you have not already received same.

# F. R. PIERSON CO.,

TARRYTOWN-ON-HUDSON, NEW YORK.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## SEND FOR OUR PRICE LIST OF HIGH GRADE SEEDS AND BULBS

If You Have Not Received One. FLOWER AND VEGETABLE SEEDS IN PACKETS.

### We Do Not "Commission" or Place Seeds Out "On Sale."

But we supply Florists with seeds put up in handsome colored packets for retailing at \$1.25 per 100, or \$10.00 per 1000. These Packets, besides having a lithograph of the flower the common and botanical names on the front, have a description of the flower and outline directions on the back and a blank space for name and address, which will be printed on same if ordered in 1000 lots or more. SEND FOR SAMPLE.

Price of Peas, Beans and Corn in Packets, \$4.00 Per 100.

**DWARF PEARL TUBEROSE BULBS**, 4 to 6 inches in circumference, \$7.50 per 1000.

**TUBEROSE ROOTED BEGONIAS**, sound stock, 6 colors, separate, \$3.00 per 100.

**GLOXINIAS**, named varieties, \$5.00 per 100.

## In Making Up Your Order for Florists' Flower Seeds, Don't Fail to Include Some ALLEN'S DEFIANCE MIGNONETTE

F. E. McALLISTER CO. Seed and Bulb Merchants, 69 Cortlandt St. N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# THE BURBANK CANNA.

The new giant yellow Orchid-flowered variety with musa-like foliage. Unquestionably the finest of the new Orchid-flowered class and a GRAND yellow.

Realizing the true merit of this grand California seedling, we placed plants of it at once in the hands of members of the CANNA COMMITTEE of the Society of American Florists. They say of it, unpoliced by us, as below:

Seeing

is

Believing

MR. D. ZINGGEBEL, of Needham, Mass., of the same Committee, who tested it with all the best now sown, says: "Yellow Burbank is the best yellow in cultivation now, very large, flowers of a handsome, bright shade of nearly pure yellow."

MR. J. T. TEMPLE, of Danvers, Ia., of this Committee, says: "I consider Burbank one of the best of this year's novelties."

MR. FRED KANST, head gardener of South Park, Chicago, and an expert judge of Cannas at the World's Fair, says: "The flowers were much admired in the park this summer. The foliage is like rubber; it is always green; you can't tear it."

MR. JAMES DEAY, chief of the New York's horticultural display at the World's Fair, says: "Burbank is a new and diversified forerunner of a new class of these beautiful flowers."

MR. BERNEKE writes us Oct. 17, 1896: "One thing about it is surprising, when the canna are cut with long edges, placed in water in a warm sunny window, they bloom for a week. Other Cannas all fade. Even when cut and thrown on the ground, they continue to bloom. The buds are grand for weeks when cut."

Now ready, fine plants from 3 1/2 inch pots, each, 75c. doz., \$8; 25 for \$15; Doz. lots ppd. to London, 37s; doz. lots prepaid to Hamburg, 38 marks.

## CANNAS, WE CARRY LARGE WELL ASSORTED STOCK.

LILIAM HARRISII. PRICES NOW READY.

## VAUGHAN'S SEED STORE,

NEW YORK, 14 Barclay St. P. O. Box 688, CHICAGO.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

IDES OF MARCH  
Are ill winds, and not in demand.



When Sowing ASTER SEED Plant Only the Best German Strains.

Table listing various flower seeds and their prices, including Truffaut's, Victoria, Branching, Comet, and Queen of Market.

BAMBOO CANES. Our complete trade list will be mailed free to all Florida upon application.

WM. ELLIOTT & SONS NEW YORK.

Lilium Superbum.

SPECIAL SALE OF

BULBS ORDER AT ONCE

5,000 Bulbs, last size, \$15.00 per 1000; \$2.50 per 100. 15,000 " 24 " 5.00 " 1000. 1.50 " 100. 35,000 " 34 " 5.00 " 1000.

Grand opportunity to buy. Address, Assignee, Highland Nurseries, Kewanee, N. C.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

SWEET PEAS FOR FLORISTS.

Table listing various sweet pea varieties and their prices, including Grace May, Apple Blossom, Her Majesty, etc.

At the above prices they will be sent by express or freight at purchaser's expense. A few cents per pound extra if desired sent by mail. Single ounces of any of the above varieties at 4 cents per ounce post paid. Club must accompany all orders. Mention our offer in the paper.

L. L. MAY & CO., St. Paul, Minn.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

CANNAS AND CROTONS. Prize-Winning DAHLIAS

AN UNPRECEDENTED RECORD. 23 First Prizes, Certificate of Merit, 2 Diplomas, and highest mention everywhere.

If you want the Very Best Dahlias that bloom, send for our 1887 descriptive trade list now ready. Address: W. P. PEACOCK, Dahlia Specialist, ATCO, N. J.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

Berlin Lily of the Valley Pips IN CASES OF 2,500, FROM COLD STORAGE.

APPLY TO C. C. ABEL & CO., P. O. BOX 920, NEW YORK.

CANNA AUSTRIA GREEN PLANTS READY NOW \$40.00 per 100.

CHAS. H. ALLEN, Floral Park, N. Y.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

BEGONIAS, TUBEROSES AND GLADIOLI. Have to offer an Extra Choice lot of Tuberoses Rooted Begonias.

GLADIOLI PRIZES mixed colors on the market. Large size, \$1.00 for 100; \$2.00 for 500. Second size, \$1.00 for 100; \$2.00 for 500.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

GET THE BEST ASTER SEED

of the celebrated Simple Aster, separate colors, pink and white, also mixed. Seed well cleaned, plump and good. Crop of 1896. For sale in any desired quantity by

JAMES SEMPLE, Box 2, BELLEVUE, PA.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

ORDER YOUR GOODS FOR SUMMER DELIVERY IN TIME

Early Orders are the BEST, get the BEST STOCK, get the BEST PRICES. We quote you now for delivery in JULY to SEPTEMBER.

Freesia refracta alba, Calla Ethiopica, Lili Longiflorum, Chinese Narcissus, Tree Fern Stems, Palm Seeds, California Fencing Bulbs.

NEW PRICE LIST on above out NOW. Send for it. Address all communications to

H. H. BERGER & CO., (Established 1878.) San Francisco, Cal.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

Advertisement for GLADIOLI featuring an illustration of a gladiolus flower and text: DEALERS AND FLORISTS. Not cheap stuff to be gotten rid of at any price, but HIGH GRADE, at reasonable rates. Price List on application, State quantity desired. CUSHMAN GLADIOLI CO., EUCLID, O.

CANNAS. For Sale or Exchange. 2000 square area of tall growing green leaves. Canna. One for mailing; 300 new Heliconia 'Empress'...

FRANK L. RUMREY, Box 124, Stoughton, Mass.

ASTER SEED. Vick's Branching, White and Semple's White and Pink, \$1.50 per oz. Snowball, \$1.30 per oz. Seed well cleaned and from selected stock...

J. G. KEELER, 687 Monroe Ave., Rochester, N. Y.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

FROSTED PEACH SEED. I am prepared to supply No. 1 Natural Sown Seed, ready for spring planting, at \$1.50 per bushel...

CHARLES BLACK, Hightstown, N. J.

ASTER SEED!

White Branching and Semple's White and Pink, \$1.25 per oz.

Seed Well Cleaned Crop of 1896.

HENRY WINDEHM, Avondale, N. J.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

Single Begonia Bulbs

in separate colors. Per 100, \$5.00; per 1000, \$50.00. The Pearl Az., Per 100, \$3.00; per 1000, \$30.00.

Tuberoses. Ask for price list. HULSEBOSCH BROK., Englewood, N. J.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

PALM SEED.

Washingtonia - Sonora. Per 100, \$1.00; per 500, \$5.00; per 1000, \$5.00.

CALIFORNIA NURSERY CO., Niles, Cal.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

JUST RECEIVED FROM JAPAN JAPANESE IMPERIAL CONVULVULUS SEED.

Very bright, plump and well cleaned. Growth 1 1/2 to 2 feet. At maturity, residence in Japan for 25 years. A mixture of the finest and most reliable selected strains. \$4.00 per 100; \$40.00 per 1000.

SEEDS for Profit Sweet Peas

Wholesale Catalogue on application. WEBER & DON, Seed Merchants and Growers, 114 Chambers St., New York City.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

Advertisement for FRESH Seed. On Hand 279,100 HAND 2,900. Catalogue prices: Champsore camorata, \$8.00; Cecus Weddelliana, \$15.00; Phlox leucostachya, \$1.00; etc.

FREE TRADE REPORT.

Points and information from seedmen, and all interested in this column, solicited. Address Editor Seed Trade, care of Florists' Exchange, P. O. Box 1697, New York.

Philadelphia—More activity in bulk orders around the seedmen has been noticed in business of past years is not seen. Orders are coming in slowly. Among the buyers are going around to find the cheapest prices on the market. It is probably suffering the most just now. Returns are very poor so far, and it really looks as though large firms will have to curtail present system and find some other means to secure patronage.

New Albany, Ind. Co. have made splendid progress with the Government seed order. They have now a force of eighty men and girls working on this time, and will probably finish the order in two weeks.

California Seeds.—This has been a most peculiar season for the growers in regard to the weather. The planting season has looked very poorly, and the present harvest is having to be a total failure this year. During the Fall the weather was very cold and held everything back. Now the rains are "pressing the button and doing the rest."

Ontario never looked more pitiful than now. The crops are all rotting, and in spots the bulbs have rotted completely. This is especially so in low spots on high ground. For the past six weeks hardly any work was done. This condition may be good for the trade in general, as it will reduce the market to some of its surplus, but the growers do not like to put their money on a losing speculation.

Lettuce and spinach have pulled through in an apparently good condition. Both are backward in regard to the season, and some pieces of the former are becoming very weedy.

Safety is doing well. This year it was planted on high ground and on top of the hills, and is doing good, and prospects for a crop are flattering.

Copiers are getting in their work on the new Government material promised to suit. Some growers who were neglectful in getting their crops in early are now in a hard race with the market. The best of the land can be worked, and then it will be too late to be seeded. There are quite a few more seeds yet to be planted, and whether the late sowings will amount to much is hard to tell. Eckford's latest news is that the "Wing" from Europe, but whether they will produce anything will depend on the weather of the next few months. There is a disposition on the part of the growers who make sweet peas a specialty, to again send for Mr. W. A. L. Henshaw's new authority on this favorite flower, to look over the crop. Two years ago, when he was in prime, and since then the progress in the seed business has been so rapid that from that eminent gentleman seems almost necessary. If arrangements can be made to send him to California, and if the plans are to have several large exhibitions at San Francisco and San Jose. The one at San Francisco has been so successful that under the auspices of the State Floral Society, and during the convention of the State Horticultural Society, some 50,000 visitors will be guests of the city. Such a plan, if carried out, will not only give the State the largest exhibition of "golden state," but will also create a demand for the new varieties. —California Signs.

European Notes.

The weather prophets have foretold a repetition of last year's experiences, and preparations are consequently being made to meet the winter which will be the prevalent from March to June. As the land on all the low-lying districts is beginning to be almost all water, the sowing of winter crops, such as sweet peas, radish, spinach, and cress are being in well, and in view of the weather having to be variable, these crops should be ready for harvesting very early.

The corn and bean trade has been done in broad beans, and the anticipated surplus has been reduced to very reasonable dimensions. The pea crop is remarkably large, but there has been the extraordinary demand for the Washington variety. Both these varieties succeeded very well this year, and as both are peas of good quality,

as well as productive, merchants and growers have every reason to be satisfied. The stocks of pole and dwarf beans are very heavy, but a few Spring frosts may do much to bring these down to manageable proportions.

In market seeds the continued upward tendency of rape and mustard, and the complete stagnation of clover seeds are the most noticeable features. As regards the latter nobody cares to break the ice, and as some of the smaller ones, having not yet been laid in anticipation of a rise, are under the necessity of realizing very speedily, it appears as though prices would go lower still before a fair start will be made. With the exception of favae and sainfoin, which sell freely at remunerative rates, the demand for all other seeds is practically nil.

The report that the growers in California have wisely decided to cut down their acreage of sweet peas this year has caused much satisfaction among European growers, although it will not lead to an additional acre being planted on this side. It is hoped that the reduction that will thus be effected in the enormous stocks now in the hands of the American growers may also reduce the competition within which they are engaged, and thus enable the growers on both sides of the Atlantic to reap some benefit from the present depression.

EUROPEAN SEEDS.

"No, I do not intend just yet to commit myself as to what I think of publications concerning 'Tapeworm in Poultry' and other subjects of a kindred nature. It would be manifestly improper for me to attempt to be humorous on this or any other subject connected with the Department of Agriculture, especially before I have received my appointment. Nor do I see how I could with propriety forebode my attitude respecting the distribution of seeds, a question which appears to have been pretty thoroughly hammered in both ways during the present session of Congress. I've got you to do me the honor to ask me all about it,—oh, say some time next July or August."

The correspondent adds: "Although by birth a Scotchman, Mr. Wilson is in appearance a typical American farmer,—not an agriculturist of the sort grossly caricatured in the comic publications, but a fine, upright, gray-haired, sturdy-looking citizen, whose actions and manner of speech yet betoken an almost life-long contact with the soil. He talks in rather a low tone of voice, using occasionally the gestures of the trained parliamentarian, and while he speaks there is something of palpable sincerity in his expression and manner that is convincing."

used three or four years ago for rare seeds, plants and bulbs, but was unsuccess in his effort to produce. He has decided that the law could not be carried out in its full extent, and he has decided to discontinue the distribution of seeds. The facts bear me out in saying that the seedmen and florists have for a long time been in obtaining all new varieties of seeds and plants, and that they have been very successful in obtaining them from any other source, hence they have been leaders in horticulture.

The seed trade felt that they owe your paper a debt of gratitude for the way in which you have reported on the matter, and no doubt they will reward you by liberal patronage with their advertisements.

Chairman the Seed Trade Committee.

(COPY OF LETTER.)

I herewith send you a memorial which explains itself. This memorial we desire that you get signed by every one in my way connected with the seed trade, the highest to the lowest, even all the girls that you employ filling bags, likewise growers and sub-growers. We desire that you take it to Congress, as soon as after it assembles, on the 15th of March, as we can get them together. Here are the names pasted together, and I have attached to some of the petitions will be small, so the headings of some will be cut off and the names pasted together; therefore I think it would be better if you could get the names signed on each side of the paper pretty uniformly, so as to make the names continuous on the memorial as much as can be. Please get this signed as soon as possible, and return it to me as chairman at your earliest convenience.

Will you please write to the newspapers in your section, likewise all that you have any influence with by reason of your placing advertisements, and ask them to write articles against the free distribution of seeds by the Government, which is so injurious to the seed business, as it is impossible for seedmen to compete with the Government, which is giving away such vastly increased quantities every year, and which is directly opposing to the spirit of our Government? The people should be supporters of the Government instead of the Government supporting the people.

T. W. WOOD, Chairman.

Memorial.

To the Fifty-fifth Congress of the United States of America, now holding Special Session in the City of Washington:

We, the undersigned, engaged in the various branches of the business of selling and growing seeds, would hereby respectfully petition your honorable body to discontinue the appropriation for the free distribution of seeds, for the following reasons:

First—The distribution of seeds interferes greatly with our pursuing the chosen line of business, in that it takes trade out of legitimate channels, thus depriving us of a certain amount of business that rightfully belongs to us, and interferes indirectly with our sources of income.

Second—Many of us have devoted our lives to the study of horticulture and agriculture, and are not at all ignorant of the value of other means of getting a livelihood.

Third—We are citizens of the United States, the only country in the world that interferes with the freedom of trade in the sale of all lines of business, thus putting us on a par with the despotic Canadian neighbors and foreign empires.

Fourth—The free distribution of seeds is in direct opposition to the spirit of our Government, which conveys to all clearly that the people should be free to do as they please with their own property.

Fifth—That it is an injustice to us to be compelled to retrench our business methods after years of hard work. No business can be carried on with the greatest trade out of legitimate channels.

Sixth—No other line of business would permit the Government to take away the fruits of our labor, and thus interfere with our business as a trade.

Seventh—If the seed business is to be made unprofitable, the money which has been invested in the large amounts of money now annually expended by the seedmen in the country for maintaining and improving the present standard of quality of our seeds, and the field seeds will be withdrawn from the business, thus rendering it entirely injurious to the horticultural world.

Eighth—The seed business not only renders unprofitable the time and labor expended, but also gives employment to many for short periods, and thus interferes with the country in employing many bright spirits, who are thus engaged in other work is scarce.

Ninth—The majority of us are aware that it is not only the horticultural and agriculture for the Department of Agriculture, but also the seed business, and we cannot see how the country can be benefited by the Government taxing out annually of common varieties of seeds which have been grown a great many years, and we do not know that seedmen have within the last few years sent out any new varieties of seeds, and we are not aware of the spirit of the law. This, we believe, is an error. If our memory serves us right, he adver-

Hon. John Wilson, Secretary of Agriculture.

New Secretary of Agriculture.

In an interview with a representative of the Washington "Star," Secretary of Agriculture Hon. John Wilson is reported to have said:

"It would be mere idleness for me to make any present attempt to predict any changes that may be in contemplation with regard to the policy of the Department of Agriculture. I know very little of the newest of the new Congressmen now holding seats at the south end of the Capitol. Although I believe in the first practical measure in Congress to introduce a bill providing for the creation of the Cabinet office of Secretary of Agriculture, and that time not the vaguest notion that I myself would ever be invited to accept that position, yet I am not without the feeling that I then had at hand in support of the measure has escaped me. I have not practical agriculture, I watched the workings of the Department of Agriculture very closely when I was in Congress, but, as my time has been wasted enormously in scope since that time. I have just completed six years of the Agricultural College of the State of Iowa, and I anticipate four years more of mastering the difficult labor and close study in mastering the details of the Department of Agriculture for it is perhaps needless for me to state that I did not come to Washington for fun.

FREE SEED DISTRIBUTION.

The Seed Trade Committee.

OBJECT.—To promote and mould Public Sentiment against the present Free Distribution of Seeds by the Government.

COMMITTEE: T. W. WOOD, Chairman. J. A. SEVERENS, WALTER BURNETT, W. L. M. FERRY & Co., BURNETT LANE, JEROME B. RICE

OFFICE OF CHAIRMAN, Richmond, Va.

Editor Florists' Exchange: "I enclose you a letter and a memorial which I shall be glad if you will publish. We, as seedmen, feel that the free distribution of seeds is a great injustice to all who handle seeds, and it should be abolished, as it is impossible for us to compete with the Government, which is giving away such vastly increased quantities every year, and which is directly opposing to the spirit of our Government? The people should be supporters of the Government instead of the Government supporting the people. If our memory serves us right, he adver-

Ninth—The seed trade of the United States has done more for, and expended more money in, the interests of horticulture and agriculture than it has for any other industry.

Tenth—If the free distribution of seeds to our horticulturists is not carried out for 10 or 20 years as it has in the past, it will bring disaster to us as a nation.

Eleventh—it is unjust to permit the United States mails to be burdened with hundreds of millions of seeds, which are a waste of Congressmen, causing a large yearly deficit in the post office.

Twelfth—it seems inconsistent to us for our Government to protect us by providing a free distribution of seeds to our horticulturists, and then turn around on the other hand and try to prevent us from receiving a free distribution annually of such enormous quantities of seeds.

## Give all a Chance at the Public Crib.

That the most of us are overjoyed at getting something for nothing goes without saying—but there are some of us who rather than to receive seeds for free, would rather have the permission to call ourselves to the notice of the Congressman who has the honor to represent our district in Washington. We ask him to make an innovation by sending those of us who are in our own right, who do not wish to be utilized for seed purposes something we can apply to our several necessities. We are willing to give up our right to have a hiberto against those not addicted to the seed habit has been most unjust and mandatory unfair. We will gladly give a penny or borrow by brassry only, and are in no way interested in beets, turnips etc. etc. can carry no protest and see for the information and something in the place of seeds.

We have indicated that the seeds do not come given on a gratuitous plan. We have been informed, however, that there is a medium of exchange, said medium being a vote. But what's that? A mere trifle—a near-next-to-nothing; a paltry thing which our statement, it would appear, is of little consequence. It is a thing which, if your vote far above a few seeds, and who feel that they, too, ought to have something to show for their money. It is given Mr. Timothy Haysed a help toward the marble halls of the Capitol, and these helpers are those who are in the habit of giving their votes far above a few seeds, and who feel that they, too, ought to have something to show for their money. It is given Mr. Timothy Haysed a help toward the marble halls of the Capitol, and these helpers are those who are in the habit of giving their votes far above a few seeds, and who feel that they, too, ought to have something to show for their money. It is given Mr. Timothy Haysed a help toward the marble halls of the Capitol, and these helpers are those who are in the habit of giving their votes far above a few seeds, and who feel that they, too, ought to have something to show for their money.

Timothy Haysed a help toward the marble halls of the Capitol, and these helpers are those who are in the habit of giving their votes far above a few seeds, and who feel that they, too, ought to have something to show for their money. It is given Mr. Timothy Haysed a help toward the marble halls of the Capitol, and these helpers are those who are in the habit of giving their votes far above a few seeds, and who feel that they, too, ought to have something to show for their money.

Timothy Haysed a help toward the marble halls of the Capitol, and these helpers are those who are in the habit of giving their votes far above a few seeds, and who feel that they, too, ought to have something to show for their money. It is given Mr. Timothy Haysed a help toward the marble halls of the Capitol, and these helpers are those who are in the habit of giving their votes far above a few seeds, and who feel that they, too, ought to have something to show for their money.

Timothy Haysed a help toward the marble halls of the Capitol, and these helpers are those who are in the habit of giving their votes far above a few seeds, and who feel that they, too, ought to have something to show for their money. It is given Mr. Timothy Haysed a help toward the marble halls of the Capitol, and these helpers are those who are in the habit of giving their votes far above a few seeds, and who feel that they, too, ought to have something to show for their money.

Timothy Haysed a help toward the marble halls of the Capitol, and these helpers are those who are in the habit of giving their votes far above a few seeds, and who feel that they, too, ought to have something to show for their money. It is given Mr. Timothy Haysed a help toward the marble halls of the Capitol, and these helpers are those who are in the habit of giving their votes far above a few seeds, and who feel that they, too, ought to have something to show for their money.

Four packages (except tobacco) which are sent to the Exchange office the clerk might be put to hunting up novelties to "trade" for votes. This extortion, if it is not checked, could be enlarged, ought to be worked out by some one of executive ability. By so doing we would have the post office as a "free or go without" and left offended. Another thing, it would be easy for a number of our horticulturists to make a racket for one good article—a bicycle, for instance—and then raffle it off. Just think of the opportunity to be had by a man presiding at a raffle in the town hall. It would also give him an opportunity to perfect his talents in diplomacy with a view to getting a foreign mission. The latter plan could be elaborated so as to include pooling issues, such as the establishment of a free library, a free library or any needed village improvement.

The dear paternalism of the Government! Giving seeds right and left with an unguessed but misapprehended generosity has a more serious aspect than it is given upon. Who can tell what thoughts dangerous to our institutions may be engendered by the receipt of seeds by the man whose only real estate consists of what address to his feet as he, Coxy-like, wanders about in the open air? Can you imagine the Government seeds and no land to sow them in a menace to our country. Why, in the case of the horticulturist, the Government do not the Solons give the seeds to the professional agriculturist, pay him for growing them, and in diplomas, which would be practical charity. We are tired sifting for bread and receiving vegetable seeds in a more or less stage of decomposition.

Again, insult is added to injury when the Department of Agriculture, which should be the Little State departments, issue bulletins containing recipes for the extermination of insects, and when these are published they find that they exist, migrated to "fresh fields and pastures new" before the proclamation has had time to reach the country. The "Mixture," "Persian Rug Powder," "Parah Green," "Aunt Destroyer," "Ammonia No. 1" and "Cattoway" have been issued, and whatever was recommended for them, should be sent, and why not a Government seed catalogue? Why not a Government seed catalogue? Why not a Government seed catalogue? Why not a Government seed catalogue?

If the Government for the people feels it incumbent upon itself to keep watch and ward over the horticulturist of the States and these United States, let it do so thoroughly, and not discriminate in favor of one class. It should not be so parsimonious as to want seeds have something we want or call a halt in the absurd practice of doing so. It should be so parsimonious as to want seeds have something we want or call a halt in the absurd practice of doing so. It should be so parsimonious as to want seeds have something we want or call a halt in the absurd practice of doing so.

Following are a few letters written by applicants for free seeds, which serve better than any other form of expression to demonstrate the demoralizing effect upon the seed trade, and the horticulturist, of the free distribution system.

Following are a few letters from the State of Washington, in which the writer gives a list of nearly forty (40) neighbors, and adds: "I would like to forward to you a list of the farmers I mention in the list of names in my letter herewith, and I would be glad to send you a few seeds, according to Government appropriation."

The seeds which you sent me and my neighbors are of great value to me. I am very glad that you have sent them to me. I am very glad that you have sent them to me. I am very glad that you have sent them to me.

Hon. J. H. Walker, Representative to Congress from the State of Washington, in his report on the distribution of seeds, and I addressed these few lines to you. I am very glad that you have sent them to me. I am very glad that you have sent them to me. I am very glad that you have sent them to me.

I have received some of your free Congress seed and have you any flower seeds which you can send me? I would be glad to send you a few seeds, according to Government appropriation.

Please send to me some garden seeds, such as peas, early and late cabbage, celery, carrots, and whatever else you wish to send.

Saw in your catalogue of the Government seed catalogue, which I received some time ago, we have not received any of the free seeds. Could you give our name, so that we might get our share, too?

## PROTESTS.

President Cleveland having decided to sign the Agricultural Bill, which contained the free seed provision, gives the seed trade time and opportunity to conduct an aggressive campaign of education, leading to the abolition forever. The new Congress convenes March 15, and every reader of the Exchange should protest vigorously and at once to his Congressman.

The government free seed distribution the way it is carried on to-day is a colossal mistake. It is a colossal mistake. It is a colossal mistake. It is a colossal mistake.

La Crose, Wis. A. SALLZER SPIES CO.

Dear Sir—That the free distribution of seeds by the Government is a colossal mistake, and an unjust and most unfair injury to the horticulturist, has been shown by Secretary Morton and others, but we think if looked at from the standpoint of the agriculturist it will also be seen to be an evil.

Our forty years' experience as seedmen, and our knowledge of the country, and the horticulturist, with hundreds of thousands of both professional and amateur horticulturists, and the great obstacle in the way of every home including a garden, and every florist, is not the want of seeds, but rather the want of disposition and skill to plant and properly care for the garden.

We are certain that furnishing every man, woman and child with free seeds of the seeds of the Garden of Eden, and in increasing the quantity and quality of the vegetables grown and consumed by our people, is not the way to increase the wealth and better the condition of the end rather than their possession that leads to profit.

A careful study of varieties of cultivated flowers and vegetables propagated by seeds, and the habits of ordinary planters of these varieties, and the fact that as seed of varieties selected and distributed free by the Government or otherwise take the place of ordinary merchandise, and the fact that each individual, the personal interest and care which are always essential to the success of the horticulturist, and the success of the horticulturist, and the success of the horticulturist.

No fair minded man can intelligently study the subject without being convinced that so real horticulture is the only way for our people through a free distribution of seeds by the Department of Agriculture, and the fact that each individual, the personal interest and care which are always essential to the success of the horticulturist, and the success of the horticulturist, and the success of the horticulturist.

We hardly think it worth while to enter any protest against this action by the Government, so long as the representatives at

Washington are so universally in favor of it. You must admit that Secretary Morton made a very strong fight to discontinue the practice, but he was overwhelmingly defeated, and there can be no question of this, especially the way it has been conducted for the past five years. The horticulturist's department has insisted upon getting seeds at about half the cost of production, and a disgrace to our country. The horticulturist's department has insisted upon getting seeds at about half the cost of production, and a disgrace to our country. The horticulturist's department has insisted upon getting seeds at about half the cost of production, and a disgrace to our country.

ROBERT BUIST CO.

We believe there has never been a season in which the free distribution of seeds by the government has done the seed business of the country as much damage as is the one we are now going through. We believe that it has been a potent factor in assisting the demoralized condition of the seed trade, as are any all feeling it this year. The proposed amendment allowing each Representative to distribute just the amount of seeds he may wish to give to us. It should be opposed by seedmen and others interested to the utmost extent of their ability. We can but believe that this proposed amendment, showing, as it will, on its face its injustice to seedmen and others interested to the utmost extent of their ability. We can but believe that this proposed amendment, showing, as it will, on its face its injustice to seedmen and others interested to the utmost extent of their ability.

JOHNSON & STOKES.

We consider the free distribution of seeds by the Government to be a colossal mistake, and an unjust and most unfair injury to the horticulturist, and the horticulturist, and the horticulturist.

The horticulturist's department has insisted upon getting seeds at about half the cost of production, and a disgrace to our country. The horticulturist's department has insisted upon getting seeds at about half the cost of production, and a disgrace to our country. The horticulturist's department has insisted upon getting seeds at about half the cost of production, and a disgrace to our country.

LAWRENCE, Kan. F. BARTELDSE & CO.

I am very glad, indeed, your paper is taking hold of this "free seed distribution" matter, and you certainly deserve a great deal of credit for it. We can but believe that this proposed amendment, showing, as it will, on its face its injustice to seedmen and others interested to the utmost extent of their ability. We can but believe that this proposed amendment, showing, as it will, on its face its injustice to seedmen and others interested to the utmost extent of their ability.

Rockford, Ill.

We are of the opinion that one of the reasons for the great depression in the seed business of the country, and the horticulturist, and the horticulturist, and the horticulturist.

The practice of free seed distribution by the United States Government has in it so much of the demoralizing influence that it should be resisted by every self-respecting member of Congress. Free distribution of seeds is a colossal mistake, and an unjust and most unfair injury to the horticulturist, and the horticulturist, and the horticulturist.

San Francisco. R. D. BOWEN

We are opposed to the free distribution of seeds by the Government in any form...

We have read with interest your remarks in the Florists' Exchange in relation to the free distribution of seeds...

Dear Sir: The enclosed clipping from a recent issue of the "Reading Herald," published at Downingtown, Pa., is of some interest to you...

Attes Bureau, sec. Dear Sir: The enclosed clipping from a recent issue of the "Reading Herald," published at Downingtown, Pa., is of some interest to you...

Free Seeds for Farmers. At the monthly meeting of the Agricultural Society, to be held in the Court House on Saturday afternoon next...

The following letter to Congressman Wanger well states the seedman's cause, and our readers, in writing to their Senators and Congressmen, will do better than follow on similar lines of reasoning...

My dear Sir—I wrote you last week asking you to discontinue the free distribution of seeds...

There are, from time to time, brought up in Congress bills to protect American workingmen, but what kind of legislation is this which seeks to establish at the National Capital a "seed shop"...

My ten years' experience has given me some knowledge of growing and selling seeds, and each year has strengthened my theory...

I was very much surprised to learn that a bill has been introduced in favor of the free seed distribution...

Distress to all those employed in the business of growing and selling seeds...

An end to all possibilities of the further increase of our vegetable, flower and field products.

My position includes the management of a large amount of farms, on which are produced thousands of dollars in the interests of horticulture...

season (July and August), you would not, I am sure, legitimate about the business as you now are inclined to do...

HOWARD M. EARL.

The Free Seed Shop in Washington.

There is a fact connected with the origin of the distribution of free seed of valuable, new or rare varieties...

and logically did our representative propose, as an amendment to the bill then before the House...

Whatever impression Secretary Morton may have produced by that curious report in Congress, giving the correspondence that had passed between him and the seedman...

It is mortifying that so noble a department of the Government should be used to supply its members with material with which to operate the electors of their several districts...

to enlighten public sentiment as to the enormity of the distribution of seeds in this manner on the right of a legitimate business...

The Cook Bill.

I have been much interested in the letters that have been published in your columns lately in regard to what is called a fraud, the free seed distribution...

The trade in vegetable and flower seeds is a profitable and reputable, and when a practical gardener has found that he can get a seed, he will buy it...

What the gardener wants to know is whether the seeds come from a pure and well developed stock...

W. F. MASSEY, Professor of Horticulture, Rutgers N. J. College of Agriculture and Mech. Arts, N. C.

Mr. W. F. Massey. I have been much interested in the letters that have been published in your columns lately in regard to what is called a fraud...

Hot-Bed Glass. Tonens white-lead. Corners secured with iron dovetails. Every sash is constructed in perfect...

Quick Shipments. We have in stock and can ship immediately: 3 ft. x 6 ft., 12 rows 10 in. glass...

Delivered Prices. Quoted on application. State size and quantity wanted. No order less than 100 to receive car freight...

LOCKLAND LUMBER CO. Lockland, Ohio. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

PAPER Towthicks. AND Waxed and Tissue Papers—all sizes. H. A. SOHL, 147 E. 42d St., N. Y.

COLEUS! Assorted rooted cuttings at 50c per 100; by mail \$5.00 per 1000. Rooted cuttings from flats, \$1.50 per 1000...

ROOTED COLEUS CUTTINGS. No nearly buds, Saluator, Bohemia, Mosale, Hero, Blackbird, Gardiner, etc.

COLEUS. Philadelphia, rooted cuttings, \$1.00 per 1000. Chicago, Double Aitman cuttings, \$1.00 per 1000...

Room Wanted! Agratum, Blue and White, rooted cuttings, \$1.00 per 1000. Fuchsia, all the leaders, rooted cuttings...

COLEUS. Crismon Veranohauffii and Golden Queen. COLEUS in variety, \$4.00 per 1000.

J. E. FELTHOUSEN, Schenectady, N. Y. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

FLORISTS' EXHIBITS.

A Carnation Meeting.

The special meeting called by the Chicago Florists' Club, for an exhibition of carnations, on March 4, was a pronounced success as regards the number of exhibitors, the staged and attendance. The hall was packed with admirers of the divine flower, and the display showed that carnations still exhibits the excretion of all flowers is the one to call on grovers, retailers, dealers and collectors of the club meeting.

It is generally admitted that, considering the quantity of carnations grown for the market, the fact that they are sold hardly up to the average of other large cities, and if so, as these better grade flowers are plentiful enough to always be available in open market, the quality of standard market kinds will be raised, and trash be swept from the market altogether as undesirable at any price.

Fred. Dornier & Sons Co., of Lafayette, Ind., were the largest exhibitors, their display embracing Mrs. C. H. Dild, Mrs. George M. Bradt, White Cloud, Dazzle, Storm Queen, Lucile John, three vases of the same variety, and other carnations for next year; No. 1 in light pink, No. 23 a yellow, and No. 8 scarlet. Also six vases of the King of the Garden, and other carnations. One of these had the color of the old clove pink, without its fragrance, however, and had the color of the carnation degree.

E. G. Hill & Co., of Richmond, Ind., had grand vases of Jubilee, Flora Hill, Triumph, and Mrs. McBurney. Hugh Graham, of Philadelphia, showed his Grand York and the Daybreak. Hopp & Lemke, of East Grand Rapids, Mich., sent their Morelo.

Ed. A. Peterson, of Cincinnati, staged Emma Woebler, and Evelina a perfect white.

J. John Burton, of Philadelphia, had a large vase of a splendid new white seedling, George Hancock & Son, Grand Haven, Mich., exhibited Ivanhoe.

John R. Ridd, of Fossil, Ohio, had Rose John, Della Fox and Jubilee. The Solitary Rose, Arzgie; Hahn roses, Mrs. J. A. C. Vaughan, and the Hills & Jacobsen, Daybreak; Otto Hansen, Century, which has grown so well in this market; Ernest Stronach, a scarlet seedling from Lizzie McGowan with Tidal Wave.

Geo. Sauter, of Plain, Ill., exhibited Silveo, Scupper, Tidal Wave, Portia and Daybreak.

These flowers exhibited were by Ernst Assmus, N. J., Souvenir du President Carnation rose, hardly in the condition to be shown; J. C. Vaughan, an elegant vase of Burbank canna, and a smaller one of Snow Cross; Hahn, one of the best seedling variety; a vase of the pretty pea-like flower of Crotalaria longistrata, and six grand vases of five kinds of carnations, radicans, shipped in from New Mexico.

Solitary Rose had very fine Mrs. Morgan and J. A. C. Vaughan. The latter had the much talked of Princess of Wales violet, grown in same house as an exhibit of carnations. This violet is a very fine, very fine, quite distinct in shape and build of flower, but rather weak in stem as compared with California and California roses by the Heim Bros. Charles Raupack, of Park Ridge, a new grower with us, had a large vase of white and pink carnations, flowers being of extraordinary size and texture.

Hahn & Jacobsen also sent very fine Brideismat from young plants with 3 foot stems; May's strain of miniature carnations, and the standard new California white Marguerite.

Kuhl, of Pekin, Ill., sent very pretty Belle Siebrecht roses in the bud. After the exhibits had been well looked at and said to be the best carnation show with the exhibit at the Cincinnati meeting, save, of course, in the quantity staged. It is striking over so many carnations, we felt that the old varieties and style of growing must go, and the sooner growers woke up to that fact, the better for themselves. He was thoroughly convinced, while all might not grow the San-Jose? carnations, as we were told, but the 1 1/2 inch flower of the day was ousted

from the market. Oceans of poor flowers went on to this market that had to be sold off for a day or so, and the growers relegated to the ash barrel.

Every good flower-seller has a collection of carnations, and the purchase of novelties, and stated they had paid with him, and probably had a few more for the chase 25 or 30 for trial, but the most money was made by larger purchases and a margin.

E. G. Hill, being called on, said on looking around this city he was forced to come to the conclusion that carnations of the same size and style of flower is to be met with in other cities than in Chicago. He said he had seen a fine carnation in the soil here can be made to grow good flowers.

Here commenced house planting, especially in the case of the carnation. The plants were rooted and potted off in 3-inch pots in July, and set in benches the first of August. He thinks highly of a method of 2 inches of rotten dry manure in Summer. Using lime in the soil, which he thinks benefits where lime is deficient. He is of opinion also that lime stiffens the stems. This is a mistake to use coarse soil.

For temperature he grows a near 25 to 4 degrees at night or 55 degrees in cloudy days; and 55 to 60 degrees in cloudy days.

Fred. Dornier, Jr., being called on, said the selection of a soil is of great importance, but not believes in placing them in cold frames, so as to receive a check; preferring to grow them in the soil, and to plant them out. He does not believe in under-glass culture, but sees care in taking up the plants, and to be made in shade for a few days; the draught at this time being very bad. If once the cuttings suffer in the day, a support over the wire netting, A-baped, in two tiers, the top one, eighteen inches high, being raised in color, and the bottom one, a water in a cool place before marketing.

A. Madam, a retailer, said the time for planting carnations is from the first of August. There would be no difficulty in selling such flowers as were on exhibition, if they were to be put in the soil to catch it; but rust was not now the danger it once was. He believed lime in the soil, but he was not sure of the effect. Both Messrs. Dornier and Hill are non-believers in syringing, while the house growers did not seem to regard the idea.

W. J. Johnson, who grew Mr. Radd's Jubilee, planted it in the house June 29; the soil at first was too light, so he pounded it, and rose again to the surface. A mixture of potassium for rust.

Among the dealers present the question of the highest price for carnations was brought up. F. Benth said the difficulty here was that a few day flowers might be obtained and not called. Such flowers would sell at a regular supply could be had.

C. A. Sampson was of the same opinion. The few he had been able to get at 60 cents per dozen retailed at \$1.20. Fragrance in a flower is very important, and the fact that it is so important.

A question as to fertilizers being asked. Mr. Hill thought highly of Clay's sheep manure, but he thought it was better to be obtained through the use of manures in stiffening stems. Mr. Dornier used nothing but the soil, and he thought it was better to use cow and horse manure fermented with bone and horn shavings; used this week, say that it was better than anything else, and a little salt.

EDGAR SANDERS.

Carnations at American Institute

The show of novelties at the meeting of the American Institute, held at Chicago, Ill., on the 28th of August, in last, was a decided success, there being over twenty exhibitors, and a large number of carnations were shown. The following were some exhibited for the first time. The judges, as announced last week, were Messrs. J. A. C. Vaughan, Ernst Assmus and Wm. J. Brower; and the judging was done under the scale of points of 100 for the best. The following carnations were shown, so 10 points were deducted from the total. There would have been a large number of carnations of all varieties, but for the cloudy weather prevailing during the exhibition.

Clay's Sheep Flatbush, received No. 3; a chase variety, which scored the full amount of points. It is a large, bushy carnation, a delicate blush on a white ground of shading gradually to deep red. It is a very fine carnation, and is very healthy; the flowers of good size, and of a deep purple, the fragrance is very pronounced. This charming variety captivated the

ladies present, by whom it was greatly admired. The same lady showed Mrs. A. R. Ridge, and a fine carnation, which was a grand vase of Helen Keller and Lizzie McGowan.

Chas. H. Allen had a magnificent vase of Snow White, Stamford, Conn., staged Mrs. A. T. Plummer, a fine scarlet seedling; it scored 70 points, losing on fragrance, but being very good in color. The fish varieties. The petals of these are very deeply fringed.

Mr. J. A. C. Vaughan, staged a large vase of Mrs. Joust and Nero. These scored 79 and 80 points respectively, the latter falling off in color, and the former being a Victor, a sport from Daybreak, was exhibited by Hugh Graham, Philadelphia. The carnation was very good, and was seen there. Daylight, exhibited by Joseph Towell, Paterson, N. J., was in the opinion of the judges, identical with Victor. It was staged in fine form. Mayor Pinchere, after his long journey from Detroit, Mich., showed a fine carnation, and some of the exhibitors, Brettmeyer & Sons, much interest.

Gately, Englewood and Amazon were exhibited by Albert Hale, Manchester, Pa. and Mrs. J. A. C. Vaughan, and Lily Dean. B. K. these were greatly admired, being in excellent shape. This selection was put up a vase of President Carnot roses.

A. Herrington, Madison, N. J., made a fine carnation, which was very good in color, and was staged by Mrs. J. A. C. Vaughan, and Lily Dean. B. K. these were greatly admired, being in excellent shape. This selection was put up a vase of President Carnot roses.

Harrison Quincy, Parsippany, N. J., put up a fine carnation, which was very good in color, and was staged by Mrs. J. A. C. Vaughan, and Lily Dean. B. K. these were greatly admired, being in excellent shape. This selection was put up a vase of President Carnot roses.

Mr. J. A. C. Vaughan, staged a large vase of Mrs. Joust and Nero. These scored 79 and 80 points respectively, the latter falling off in color, and the former being a Victor, a sport from Daybreak, was exhibited by Hugh Graham, Philadelphia. The carnation was very good, and was seen there. Daylight, exhibited by Joseph Towell, Paterson, N. J., was in the opinion of the judges, identical with Victor. It was staged in fine form. Mayor Pinchere, after his long journey from Detroit, Mich., showed a fine carnation, and some of the exhibitors, Brettmeyer & Sons, much interest.

Mr. J. A. C. Vaughan, staged a large vase of Mrs. Joust and Nero. These scored 79 and 80 points respectively, the latter falling off in color, and the former being a Victor, a sport from Daybreak, was exhibited by Hugh Graham, Philadelphia. The carnation was very good, and was seen there. Daylight, exhibited by Joseph Towell, Paterson, N. J., was in the opinion of the judges, identical with Victor. It was staged in fine form. Mayor Pinchere, after his long journey from Detroit, Mich., showed a fine carnation, and some of the exhibitors, Brettmeyer & Sons, much interest.

Mr. J. A. C. Vaughan, staged a large vase of Mrs. Joust and Nero. These scored 79 and 80 points respectively, the latter falling off in color, and the former being a Victor, a sport from Daybreak, was exhibited by Hugh Graham, Philadelphia. The carnation was very good, and was seen there. Daylight, exhibited by Joseph Towell, Paterson, N. J., was in the opinion of the judges, identical with Victor. It was staged in fine form. Mayor Pinchere, after his long journey from Detroit, Mich., showed a fine carnation, and some of the exhibitors, Brettmeyer & Sons, much interest.

Mr. J. A. C. Vaughan, staged a large vase of Mrs. Joust and Nero. These scored 79 and 80 points respectively, the latter falling off in color, and the former being a Victor, a sport from Daybreak, was exhibited by Hugh Graham, Philadelphia. The carnation was very good, and was seen there. Daylight, exhibited by Joseph Towell, Paterson, N. J., was in the opinion of the judges, identical with Victor. It was staged in fine form. Mayor Pinchere, after his long journey from Detroit, Mich., showed a fine carnation, and some of the exhibitors, Brettmeyer & Sons, much interest.

Mr. J. A. C. Vaughan, staged a large vase of Mrs. Joust and Nero. These scored 79 and 80 points respectively, the latter falling off in color, and the former being a Victor, a sport from Daybreak, was exhibited by Hugh Graham, Philadelphia. The carnation was very good, and was seen there. Daylight, exhibited by Joseph Towell, Paterson, N. J., was in the opinion of the judges, identical with Victor. It was staged in fine form. Mayor Pinchere, after his long journey from Detroit, Mich., showed a fine carnation, and some of the exhibitors, Brettmeyer & Sons, much interest.

Mr. J. A. C. Vaughan, staged a large vase of Mrs. Joust and Nero. These scored 79 and 80 points respectively, the latter falling off in color, and the former being a Victor, a sport from Daybreak, was exhibited by Hugh Graham, Philadelphia. The carnation was very good, and was seen there. Daylight, exhibited by Joseph Towell, Paterson, N. J., was in the opinion of the judges, identical with Victor. It was staged in fine form. Mayor Pinchere, after his long journey from Detroit, Mich., showed a fine carnation, and some of the exhibitors, Brettmeyer & Sons, much interest.

Mr. J. A. C. Vaughan, staged a large vase of Mrs. Joust and Nero. These scored 79 and 80 points respectively, the latter falling off in color, and the former being a Victor, a sport from Daybreak, was exhibited by Hugh Graham, Philadelphia. The carnation was very good, and was seen there. Daylight, exhibited by Joseph Towell, Paterson, N. J., was in the opinion of the judges, identical with Victor. It was staged in fine form. Mayor Pinchere, after his long journey from Detroit, Mich., showed a fine carnation, and some of the exhibitors, Brettmeyer & Sons, much interest.

Mr. J. A. C. Vaughan, staged a large vase of Mrs. Joust and Nero. These scored 79 and 80 points respectively, the latter falling off in color, and the former being a Victor, a sport from Daybreak, was exhibited by Hugh Graham, Philadelphia. The carnation was very good, and was seen there. Daylight, exhibited by Joseph Towell, Paterson, N. J., was in the opinion of the judges, identical with Victor. It was staged in fine form. Mayor Pinchere, after his long journey from Detroit, Mich., showed a fine carnation, and some of the exhibitors, Brettmeyer & Sons, much interest.

Mr. J. A. C. Vaughan, staged a large vase of Mrs. Joust and Nero. These scored 79 and 80 points respectively, the latter falling off in color, and the former being a Victor, a sport from Daybreak, was exhibited by Hugh Graham, Philadelphia. The carnation was very good, and was seen there. Daylight, exhibited by Joseph Towell, Paterson, N. J., was in the opinion of the judges, identical with Victor. It was staged in fine form. Mayor Pinchere, after his long journey from Detroit, Mich., showed a fine carnation, and some of the exhibitors, Brettmeyer & Sons, much interest.

Mr. J. A. C. Vaughan, staged a large vase of Mrs. Joust and Nero. These scored 79 and 80 points respectively, the latter falling off in color, and the former being a Victor, a sport from Daybreak, was exhibited by Hugh Graham, Philadelphia. The carnation was very good, and was seen there. Daylight, exhibited by Joseph Towell, Paterson, N. J., was in the opinion of the judges, identical with Victor. It was staged in fine form. Mayor Pinchere, after his long journey from Detroit, Mich., showed a fine carnation, and some of the exhibitors, Brettmeyer & Sons, much interest.

ventilators should not only be attended to regularly during the day, but, during the night, the night should have particular instructions to have some ventilation, or whenever the thermometer outside stands at freezing.

Those who have kept their plants rather warm, and have not attended to the ventilation, doubtless notice that on every bright day their plants droop over badly, and that on cloudy days they are again being very dry at the roots. Usually spraying is resorted to to freshen them up, but this is not a permanent remedy, and is not only not beneficial but is a positive injury. This condition has been brought about by the excessive heat, and the heat, or lack of ventilation. Either of these will produce about the same results, and the remedy is to be found in to show an entire absence of that stiffness of stem so much desired in the carnation, and without which there is little probability of the flowers bringing remunerative prices.

Those who have not practiced overhead watering the past winter, should not be in a hurry to begin it. The carnation does not delight in shower baths until the weather becomes positively warm, and it is impossible to keep the temperature in the houses down to a reasonable limit.

It is better to have the plants to get up a clean stock of varieties which are affected with rust. If the foliage has been burnt, it is better to remove it, and to get up a clean stock of varieties which are affected with rust. If the foliage has been burnt, it is better to remove it, and to get up a clean stock of varieties which are affected with rust.

It is better to have the plants to get up a clean stock of varieties which are affected with rust. If the foliage has been burnt, it is better to remove it, and to get up a clean stock of varieties which are affected with rust. If the foliage has been burnt, it is better to remove it, and to get up a clean stock of varieties which are affected with rust.

It is better to have the plants to get up a clean stock of varieties which are affected with rust. If the foliage has been burnt, it is better to remove it, and to get up a clean stock of varieties which are affected with rust. If the foliage has been burnt, it is better to remove it, and to get up a clean stock of varieties which are affected with rust.

It is better to have the plants to get up a clean stock of varieties which are affected with rust. If the foliage has been burnt, it is better to remove it, and to get up a clean stock of varieties which are affected with rust. If the foliage has been burnt, it is better to remove it, and to get up a clean stock of varieties which are affected with rust.

It is better to have the plants to get up a clean stock of varieties which are affected with rust. If the foliage has been burnt, it is better to remove it, and to get up a clean stock of varieties which are affected with rust. If the foliage has been burnt, it is better to remove it, and to get up a clean stock of varieties which are affected with rust.

It is better to have the plants to get up a clean stock of varieties which are affected with rust. If the foliage has been burnt, it is better to remove it, and to get up a clean stock of varieties which are affected with rust. If the foliage has been burnt, it is better to remove it, and to get up a clean stock of varieties which are affected with rust.

It is better to have the plants to get up a clean stock of varieties which are affected with rust. If the foliage has been burnt, it is better to remove it, and to get up a clean stock of varieties which are affected with rust. If the foliage has been burnt, it is better to remove it, and to get up a clean stock of varieties which are affected with rust.

It is better to have the plants to get up a clean stock of varieties which are affected with rust. If the foliage has been burnt, it is better to remove it, and to get up a clean stock of varieties which are affected with rust. If the foliage has been burnt, it is better to remove it, and to get up a clean stock of varieties which are affected with rust.

It is better to have the plants to get up a clean stock of varieties which are affected with rust. If the foliage has been burnt, it is better to remove it, and to get up a clean stock of varieties which are affected with rust. If the foliage has been burnt, it is better to remove it, and to get up a clean stock of varieties which are affected with rust.

It is better to have the plants to get up a clean stock of varieties which are affected with rust. If the foliage has been burnt, it is better to remove it, and to get up a clean stock of varieties which are affected with rust. If the foliage has been burnt, it is better to remove it, and to get up a clean stock of varieties which are affected with rust.

It is better to have the plants to get up a clean stock of varieties which are affected with rust. If the foliage has been burnt, it is better to remove it, and to get up a clean stock of varieties which are affected with rust. If the foliage has been burnt, it is better to remove it, and to get up a clean stock of varieties which are affected with rust.

It is better to have the plants to get up a clean stock of varieties which are affected with rust. If the foliage has been burnt, it is better to remove it, and to get up a clean stock of varieties which are affected with rust. If the foliage has been burnt, it is better to remove it, and to get up a clean stock of varieties which are affected with rust.

It is better to have the plants to get up a clean stock of varieties which are affected with rust. If the foliage has been burnt, it is better to remove it, and to get up a clean stock of varieties which are affected with rust. If the foliage has been burnt, it is better to remove it, and to get up a clean stock of varieties which are affected with rust.

It is better to have the plants to get up a clean stock of varieties which are affected with rust. If the foliage has been burnt, it is better to remove it, and to get up a clean stock of varieties which are affected with rust. If the foliage has been burnt, it is better to remove it, and to get up a clean stock of varieties which are affected with rust.

WYOMER & SAMTAN,  
WYNWOOD, CHESTNUT HILL, PHILA  
WHEN WRITTEN MENTION THE FLOWERS' EXCHANGE

# Famous Carnation of the Bella Fox

## ROOTED CARNATION CUTTINGS.

**Scott and Portia.**  
\$1.25 per 100; \$10.00 per 1000.  
**Daybreak.**  
\$1.50 per 100; \$12.50 per 1000.  
**Lizzie McGowan.**  
\$1.00 per 100; \$5.00 per 1000.

**THE BOOL FLORAL CO.,** Ithaca, N. Y.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## HEPP'S CARNATIONS.

**YOU RUN NO RISK.**

If the Cuttings are not satisfactory you return them at our expense. Unlimited quantities at reasonable prices.

**Varieties:**—McGowan, Alaska, Ivory, Herringbone, Scott, Daybreak, Abundance, Triumph, Bridsonad, Della Fox, Emma Wood, Fortia, Fred Porter, Carlisle, Wave, Jago, Crimson Sport, Buttercup, Eldorado, Kailer and Armandine.

**Pansies, Smilax, Violets.**

**ALBERT M. HEPP, L. B. 436, Lancaster, Pa.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## LOOK HERE.

## Carnation Cuttings

From healthy and well-grown stocks.

**William Scott.**—McGowan, Portia, \$1.25 per 100; \$10 per 1000

**Daybreak.**—Anna Webb, Mrs. Fisher, Alaska, Albertini, Heat Wax, Storm King, Gordon W., Bridesmaid, Emily Pearson, \$1.00 per 100; \$12.50 per 1000.

**Della Fox, Ivory, Gold Finch, etc.**—100

Fellow's New Red. Flower twice the size of Portia, same color and fine shape, \$3.00 per 100.

Order of 500 cuttings filled at 1000 rates, not less than 100 of a kind. Cash with order.

**JAMES E. BEACH,**  
Successor to J. H. Beach & Son,  
817 Park Ave., Bridgeport, Conn.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Hard Times Are Going! Good Times Are Coming!**  
25,000 Sold. 25,000 Standing for Sale.

Healthy stock, well-rooted, as fast.

**Eldorado, Storm King, Frilly, Louisa and Daybreak \$2.00 per 100.**

**Helen Keller, Sweetbrier, William Scott, Heat Wax, Storm King, Gordon W., Bridesmaid, Emily Pearson, Lela J., Harriette, Thomas Carlisle, \$1.25 per 100 \$10.00 per 1000.**

**Golden Gate, McGowan, Wildcat, Portia and William E. Greer, \$1.00 per 100; \$7.50 per 1000—**from sand or soil.

**VIOLETS—Swanley White, 2 1/2 in. pots, \$2.50 per 100; Callifornia, 2 1/2 in. pots, \$1.25 per 100.**

**Campbell and Louisa, 2 1/2 in. pots, by mail, \$1.00 per 100. Callifornia, Heider and Kerchhoff, \$1.00 per 100. 40 leading varieties, my selection, 70¢ per 100, by mail.**

**ALYS-UM—Giant Double, from soil, 75¢ per 100, by mail.**

To wishing Carnations sent by mail, add 50¢ per 100. Cash each way, unless all enclosed. Please pay. You run no risk. Terms, C. O. D. or order reference.

**E. J. CLOUD, Avondale, Pa.**  
L. B. 32.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## FIFTY THOUSAND

Rooted cuttings of the new Seedling Carnation, originated by Mr. H. A. Cook, of Shrewsbury, Mass., grown by the subscriber, and now being put upon the market as

## ...E.A...

Cuttings now ready and free from rust.

\$10.00 per 100; \$25.00 per 500;  
\$60.00 per 1000.

**DAYBREAK, SCOTT, STORM KING, PURITAN, METEOR, GOLDFINCH, VICTOR, ALBERTINI, and others,**  
\$1.25 per 100; \$10.00 per 1000.

**A. W. HOYLE, Spencer, Mass.**  
And 51 Withington St., Sna. O.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## ELDORADO

The finest Yellow Carnation in cultivation. Rooted cuttings, \$4.00 per 100; \$15.00 per 1000.

**LADY CAMPBELL VIOLETS.**—Rooted runners, 75¢ per 100; \$1.00 per 1000.

**GIANT DOUBLE ALYSSUM.**—\$1.00 per 100; \$5.00 per 1000.

Send for Circular.

**W. R. SHELMIRE, Avondale, Pa.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## CARNATIONS ROOTED CUTTINGS.

Healthy, strong and well rooted. Standard varieties:—Anna Webb, Helen Keller, Daybreak, Heat Wax, Storm King, Gordon W., Bridesmaid, \$1.25 per 100; \$12.50 per 1000. Alaska, B. Florida, Rose Queen, Minnie Cook, Meteor, Storm King and Bridesmaid, \$2.00 per 100; \$15.00 per 1000. Goldfinch, Ivory, Heat Wax, \$1.00 per 100; \$7.50 per 1000. Della Fox, \$1.00 per 100. Scott, Fortia and Sweetbrier, \$1.25 per 100; \$10.00 per 1000.

**LYONS—**Large, 2 1/2 in. pots, \$2.50 per 100; \$20.00 per 1000.

**CHRYSANTHEMUMS** in new and standard varieties after March list at moderate prices.

**Cash with Order.**

**JOHN HACKETT & CO., 624 near Elmwood Ave. PHILA**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## GOOD TIMES

Will come if you grow good carnations. Your customers will be the best buyers and we can sell you the best varieties to produce them.

Per 100 Per 1000

Morello, new scarlet, extra fine... \$10.00 575.00

Flora Hill, white, large and fine... 12.00 100.00

Mrs. McGowan, light pink, large... 12.00 100.00

Harrison's White, Sport from Scott... 10.00

Mayor Pingree, yellow, large, fine... 10.00 75.00

Mrs. Duhamel, clear pink, free, only... 12.00 75.00

Mrs. Brady, white, mixed scarlet... 10.00 75.00

C. A. Deza, light pink, fine... 10.00 75.00

Lily Dece, white, marked pink... 10.00 75.00

Red Head, white, marked pink... 10.00 75.00

Wavy, very productive, white... 3.00 25.00

Della Fox, beautiful pink... 4.00 25.00

Jubilee, large, scarlet... 6.00 50.00

Also large stock of standard varieties. Send for complete list.

**GEO. HANCOCK & SON, Grand Haven, Mich.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## CARNATIONS

All the leading new varieties; good clean, well rooted stock.

Mrs. Chas. H. Dulme, delicate pink... \$10 75

Mrs. Geo. M. Bradt, white, striped scarlet... 10 75

C. Duhamel, pink... 10 75

Flora Hill, white... 12 100

Mrs. McBurney, salmon pink... 12 100

Mayor Pingree, yellow... 10 75

Morello, scarlet... 10 75

Mand Dan, blush... 10 75

Lily Dece, white, striped pink... 10 75

Harrison's White, white... 10 75

If not already received, send for our price list, which contains all the leading standard varieties at moderate prices.

**F. DORNER & SONS CO., La Fayette, Ind.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## Every Tom, Dick and Harry

raises red, white and pink Carnations; consequently you will meet with much competition if you do the same.

Raise something else; for instance,

**YELLOW and VIOLET VARIETIES.**

They are Money Makers.

**Minnie Cook,** Rooted Cuttings. Eldorado, \$2.00 per 100; \$15.00 per 1000. KITTIE CLEVER, From Soil. Euallie, \$3.00 per 100; \$25.00 per 1000. Princess Louise, rooted cuttings, \$5.00 per 100; \$40.00 per 1000. From soil, \$6.00 per 100; \$50.00 per 1000.

**GRAILLERT & CO.**  
COLMA, SAN MATEO CO., CAL.  
NO RUST.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Should be grown by everybody. The past season must have taught all growers that the high-grade Carnations are the only ones that were profitable, and **Bella Fox** stands above them all for size, color and stems. Rooted cuttings now ready.

**MYERS & SAMTMAN, Wyndmoor, Chestnut Hill, Phila.**

## THE CARNATION NOVELTIES, MAYOR PINGREE AND MORELLO

Other new sorts, also noted introductions, and well-known standards. Our Fine New Illustrated Catalogue Now Ready. FREE.

## DAN'L B. LONG, Buffalo, N. Y.

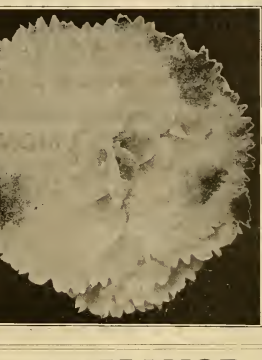
## SEEDLING CARNATIONS for 1897.

**CAPT. KING.** Variegated White and Pink, an early and continuous bloomer, very fragrant and a good sporter, stems extra long and still, an exceedingly attractive and profitable variety.

**JOSEPH JEFFERSON.** Deep Pink, very large and showy flower, long, stiff stems, color resembling Ebon, Carlisle, much larger flower.

Cord for Wholesale List of New and Standard Carnations. Stock Direct and Ready. NO RUST.

**C. J. PENNOCK, The Pines, Kennett Square, Pa.**



## Harrison's White.

NEW CARNATION, SPORT FROM WM. SCOTT.  
40,000 SOLD UP-TO-DATE.  
All leading Carnationists are purchasers.

Strong, vigorous grower, requiring no support.

Described and Illustrated in *Florists Exchange*, Nov., 21, page 1044.

**COME AND SEE IT.**

Price: \$10.00 per 100, \$40.00 per 500, \$70.00 per 1000  
Cash or satisfactory reference. All orders filled in rotation.

**JOHN HARRISON,**  
Near Haverhill, Mass.  
739 Bergen Ave., Jersey City, N. J.

Take Bayonne or Greenville Car from Pennsylvania R. R. Ferry-ages and a Hildwell A...

## NEW YELLOW CARNATION - MAYOR PINGREE



Ready Now. \$1.50 Per Doz.; \$10 Per 100; \$75 Per 1000.

—FOR SALE BY—  
**JOHN BREITMEYER & SONS, THE COTTAGE GARDENS,**  
Miami and Gratiot Aves., DETROIT, MICH., QUEENS, L. I.

The Nivea Carnation.

I desire to state that since I cultivated this seedling three years ago, I have grown it for my own exclusive use, selling only the first blooms...

PRIMROSES FOR EARLY! From 3/4 and 1 1/2 inch fringed, pure white bloom, at \$5.00 per 100...

Alternantheras, Begonias and Geraniums. Alternantheras, A. Nana, B. Nana, P. Melrand...

GREEN AS CRASS. Mammoth Verbenas. Rooted Cuttings, in separate soils, per 100, \$6.00...

GERANIUMS! Double Grant, La Favorite, S. A. Nutt, out of 5 1/2 inch pots, five plants, \$2.50 per 100...

HARRISH LILIES, fine plants, 5 cts per bud. PAUL MADER, East Stroudsburg, Pa.

ROOTED CUTTINGS. Cash prices. All transplanted in soil as good as pot-grown plants...

VERBENA. Mammoth—\$1.00 per 100. Carnations, Scott and McGowan—\$1.00 per 100...

VERBENA CUTTINGS. Cash prices. All transplanted in soil as good as pot-grown plants...

VERBENA CUTTINGS. Cash prices. All transplanted in soil as good as pot-grown plants...

VERBENA CUTTINGS. Cash prices. All transplanted in soil as good as pot-grown plants...

VERBENA CUTTINGS. Cash prices. All transplanted in soil as good as pot-grown plants...

VERBENA CUTTINGS. Cash prices. All transplanted in soil as good as pot-grown plants...

VERBENA CUTTINGS. Cash prices. All transplanted in soil as good as pot-grown plants...

VERBENA CUTTINGS. Cash prices. All transplanted in soil as good as pot-grown plants...

VERBENA CUTTINGS. Cash prices. All transplanted in soil as good as pot-grown plants...

VERBENA CUTTINGS. Cash prices. All transplanted in soil as good as pot-grown plants...

VERBENA CUTTINGS. Cash prices. All transplanted in soil as good as pot-grown plants...

VERBENA CUTTINGS. Cash prices. All transplanted in soil as good as pot-grown plants...

VERBENA CUTTINGS. Cash prices. All transplanted in soil as good as pot-grown plants...

VERBENA CUTTINGS. Cash prices. All transplanted in soil as good as pot-grown plants...

VERBENA CUTTINGS. Cash prices. All transplanted in soil as good as pot-grown plants...

VERBENA CUTTINGS. Cash prices. All transplanted in soil as good as pot-grown plants...

VERBENA CUTTINGS. Cash prices. All transplanted in soil as good as pot-grown plants...

VERBENA CUTTINGS. Cash prices. All transplanted in soil as good as pot-grown plants...

VERBENA CUTTINGS. Cash prices. All transplanted in soil as good as pot-grown plants...

VERBENA CUTTINGS. Cash prices. All transplanted in soil as good as pot-grown plants...

VERBENA CUTTINGS. Cash prices. All transplanted in soil as good as pot-grown plants...

VERBENA CUTTINGS. Cash prices. All transplanted in soil as good as pot-grown plants...

VERBENA CUTTINGS. Cash prices. All transplanted in soil as good as pot-grown plants...

VERBENA CUTTINGS. Cash prices. All transplanted in soil as good as pot-grown plants...

VERBENA CUTTINGS. Cash prices. All transplanted in soil as good as pot-grown plants...

VERBENA CUTTINGS. Cash prices. All transplanted in soil as good as pot-grown plants...

VERBENA CUTTINGS. Cash prices. All transplanted in soil as good as pot-grown plants...

VERBENA CUTTINGS. Cash prices. All transplanted in soil as good as pot-grown plants...

VERBENA CUTTINGS. Cash prices. All transplanted in soil as good as pot-grown plants...

VERBENA CUTTINGS. Cash prices. All transplanted in soil as good as pot-grown plants...

VERBENA CUTTINGS. Cash prices. All transplanted in soil as good as pot-grown plants...

VERBENA CUTTINGS. Cash prices. All transplanted in soil as good as pot-grown plants...

VERBENA CUTTINGS. Cash prices. All transplanted in soil as good as pot-grown plants...

VERBENA CUTTINGS. Cash prices. All transplanted in soil as good as pot-grown plants...

VERBENA CUTTINGS. Cash prices. All transplanted in soil as good as pot-grown plants...

Trade List for 1897. FREE ON APPLICATION. SEAWAHAKA GREENHOUSES

Oyster Bay, L. I., N. Y. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

CARNATIONS. Strong, healthy rooted cuttings.

LIZZIE MCGOWAN, at \$1.25 per 100; WM. SCOTT, at \$1.00 per 1000.

AUG. DENKER, Secaucus, Hudson Co., N. J. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

2000 McGowan, 3000 Scott, Cuttings from soil, \$5.00 per 1000.

4000 CAMPBELL VIOLETS, \$4.00. Not old divided crowns.

150 CINERARIAS, ready for 6 inch pots, \$5.00 per 100.

T. H. NORTON, Hightstown, N. Y. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

Carnations, Etc. HIGH GRADE ROOTED CUTTINGS. Write for price list.

H. WEBER & SONS, P. O. Box 67, OAKLAND, Md. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

CARNATIONS. Good healthy Stock. Grown Cool...

Table listing various carnation varieties and their prices per 100 or 1000.

Prepaid by express when cash with order. Mme. Crozy Anna, \$2.50 per 100.

C. S. BATTIN, South Charleston Ohio. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

NEW SCARLET Hobin Hood CARNATION (HILL).

We have grown Hobin Hood two winters! It grew up to the plant; it is the most rapid growing Carnation to date!

MORRIS FLORAL CO. Morris, Illinois. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

DOUBLE PETUNIAS. 25 varieties from 3-inch pots, per 100, \$4.00.

Table listing double petunia varieties and their prices per 100.

CHRYSANTHEMUMS. Rooted cuttings now ready, thoroughly well-rooted.

Rooted cuttings now ready, thoroughly well-rooted. HENDERSON, Mrs. W. H. Rand, Merry Monarch, P. Miller, etc.

GEORGE J. HUGHES, Berlin, N. J. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

The New Scarlet Carnation MORELLO

will be disseminated March 1, 1897. Get your orders in now. \$1.00 per 12, \$10.00 per 100.

HOPP & LEMKE, East Grand Rapids, Mich. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

ITS A GOOD THING MINNIE COOK. Get your stock now at home, where you know you are getting the best stock.

Meadow View Greenhouses, 7421 PATENT, N. J. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

CARNATIONS ROOTED CUTTINGS

of the leading varieties, clean, healthy stock. Positively no rust. Send for price list.

WM. SWAYNE, Kennett Square, Pa. P. O. Box 226. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

CARNATIONS. Daybreak, Scott, Tidal Wave, S. Sprays, Lizzie McGowan, Portia, etc.

VIOLETS. Lady Campbell, \$5.00 per 1000. Lakewood, \$3.00 per 100; Edw. G. Moore, \$4.00 per 100.

JOSEPH RENARD, Unionville, Chester Pa. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

FINE HEALTHY CARNATION CUTTINGS. From Stads, \$5.00 per 1000.

Sci. McGowan, Portia. Cash with Order.

A. ROTHAR & SON, 654 Central Ave., BROOKLYN, N. Y. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

Healthy Carnation Cuttings. COOL GROWN. NO RUST.

Lizette McGowan, William Scott, Portia, Erleneport, each \$1.00 per 100; Thos. Cuttings and etc. \$1.50 per 100.

NEW MEADOW GARDENS. W. S. NICHOL, Prop., Harrington Centre, K. I. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

CARNATION AND COLEUS CUTTINGS. Strong, well-rooted cuttings of the following varieties.

Strong, well-rooted cuttings of the following varieties: free from rust, Scott, Portia and McGowan, etc.

20,000 DELLA FOX CARNATIONS 20,000. Unrooted cuttings at \$1.00 per 100; \$5.00 per 1000.

ROSES.—Nice strong plants, from 2 1/2-in. pots. \$1.25, \$3.00 per 100; \$25.00 per 1000.

de VOEGHT & de WILDE, - Wilmington, Del.

NEW WHITE "ONARIO" CARNATION.. A money maker; prolific in bloom; good grower, and free from disease.

\$8.00 per 100; \$50.00 per 1000.

New Rose WHITE BOUGERE, a sport from the old variety "Bougere", a prolific bloomer, good grower and clear white in color.

Per dozen, \$3.00; per 100, \$12.00; per 1000, \$100.

JOHN H. DUNLOP, - Toronto, Canada. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.



WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

BALTIMORE. A New Pink Carnation. Color of Craig, large, tight, fragrant; stiff stem, good keeper.

Ready January 25. Rooted Cuttings, \$1.50 per doz; \$10.00 per 100.

CONRAD HESS, 329 Friendship Ave., BALTIMORE, Md. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

Carnation Cuttings. Strong and well rooted, of the following varieties.

Jubilee, Triumph, Armistead, Alaska, Bismark, Oscar Hole, Goldfish, Lizzie McGowan, Mme. Albertini, Montez, Peachbloss, Rose Queen, Silver Spray, Wm. Scott, Uncle John.

PRIMULAS, 3/4 inch, \$2.00 per 100. Send for list and prices on large lots.

Logan Ave. Greenhouses, - Danville, Ill. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

Carnations! (Rooted cuttings now ready.)

Mayor Fiegree, Meteor, McGowan, Daybreak, Scott, Portia, and other good ones.

Good Healthy ROSES Delivered. Send for price list.

CUT ROSES and CARNATIONS always in stock. H. DALE & SONS, - Brampton, Ont. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

ROOTED CUTTINGS. CARNATIONS.

Mrs. Chas. Dahme (Dorner '92). Mrs. Geo. M. Bradt (Dorner '92).

\$1.50 per doz; \$10 per 100; \$75 per 1000. Lily Dawn (May), Maud Dean (May).

\$3.00 per doz; \$10 per 100; \$75 per 1000.

Wm. Scott, Portia, Lizzie McGowan, Daybreak & Storm King, Portia & T. Wave, Mrs. Fisher, etc.

Alaska & Anna Webb, 1.50 12.50. Thos. Carlidge, 1.50 12.50.

EDDW. J. TAYLOR, Wholesale Carnation Grower, SOUTH BURY, CONN. Cash or Reference. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

VERBENA KING

50,000 Rooted Verbena Cuttings, the finest varieties in cultivation, true to name, 60 cts per 100; \$5.00 per 1000.

5000 for \$50.00; 10000 for \$45.00, express prepaid. No Rust or Mildew. Satisfaction guaranteed. Write very early for the LARGEST VERBENA GROWERS IN THE WORLD.

PETUNIAS. Rooted cuttings. Dresden and Henderson's latest strains, the finest on earth.

C. HUMFRED, Clay Center, Kansas. SEND FOR LIST. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

Rooted Cuttings.

Table listing various rooted cuttings and their prices per 100 or 1000.

CHAS. E. SMITH, Cor. Jefferson and Jackson Aves., YORK, Pa. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

**Boston.**

S. W. TWOMBLY, of this city, presented a beautiful floral design to President McKinley at the inauguration, and has been the center of the inauguration of republican presidents for twenty years or more. The design in this instance comprised an artistically arranged collection of acacia, white lily, hybrid and other roses, mimosas, geraniums, hydrangeas, columbines and white carnations, and finished with Parryesque fern all arranged in a circular form 4 feet in diameter. In the center was the seal and coat of arms of Massachusetts. Mr. Twombly's son, W. A. Twombly, accompanied the design to Washington.

J. H. Koller, manager of the foreign branch of the Massachusetts Benefit Life Association, was on Tuesday elected president of the company. He is a member of the family so well known to the florists of Boston.

There is not much to offer on the bud sale situation differing from last week though it is in some lines and with some dealers improving, and nearly all the retailers report some busy days. Stock continues plentiful, at moderate prices.

**The Lily Disease.**

Complaints from the lily growers are increasing this year, many having lost 50 per cent. of their bulbs from disease. One grower alone informs me that he has lost 75 per cent. of the 4500 he had, many of which had set buds and looked very promising up to a short time before they were ruined. The total loss would run up into many thousand plants, and to the uninitiated it would appear that the great majority of lilies at Essex is lost. It is, however, not so. The total loss is not so great. The more experienced, however, say there is no danger but there will be enough to go around, and that when the time comes they will appear in the market in large and small lots for all markets. If this proves true, we can only consider with dread the gut we would have had if all that had been planted had turned out well.

W. J. Kennedy manager of the Flower Market returned from a trip to New York and Philadelphia.

Mr. Becker, of Cambridge, is bringing a fine lot of plants along for Easter, his lily being exceptionally strong and healthy. *Nephrolepis exaltata bostoniensis* is showing in full stage of perfection and looks very promising.

An important business change is about to be made on Beacon st. Welch Brothers have given up their old store at No. 2, which has been their headquarters for many years, and which since the opening of the City Hall Flower Market, a few months ago they have used as their florist supply business, and also as a retail cut-flower department. They have now moved the supply business to the Providence at market, and no retail orders will be received. On the 30th of this month Julius Zinn, who has been for fifteen years with Newman—for several years an manager—will open a retail store at No. 2 Beacon.

A complimentary dinner was tendered to Ed. Hatch on Friday afternoon by a few of his many friends among the florists and growers of this vicinity. It occurred at the Hotel Savoy, and was an unusually pleasant affair and participated in by several prominent members of the profession from a distance, in addition to local talent. Among the visitors were Messrs. Scott, Buffalo; Graham, of Cleveland; Ridd, of Chicago, and Smith, of Adrian, Mich. These gentlemen, after attending the meeting of the Executive Committee of the S. A. F. in Providence, spent a day or two inspecting the points of interest in this vicinity.

Among the Bostonians who attended the annual banquet of the Providence Club on Wednesday evening were Messrs. W. J. Stewart, Michael Norton, Jackson Davidson, F. W. Fletcher and E. A. Wood.

W. K. W.

**Geraniums**, double Orant 2 1/2 in., \$2.00 per 100  
**Marie Louise Violets**, 2 1/2 in. pots, \$2.00 per 100. Marie Louise Violet runners, painted, good, healthy stock, 50c. per 100, \$1.00 per 100.

**Caladium Bulbs**, 5 to 7 in., \$1.50 per 100.  
**Carnations**. **Geranium Golden Bicolor** and **Veronica** cuttings, \$1.00 per 100, 75c. by mail.

Cash with Order.  
**EVERITT & INSALL**, Hackettstown, N. J.

**MOSS AND BOUQUET GREEN.**

We offer you fine moss at the following prices:  
*Broom Spangnum*, 50 cts. bbl.; 10 bbls. for \$48.00  
*Green Moss*, \$7.00 bbl.  
*Bouquet Green (Fresh picked)*, \$2.00 1/2

Larger orders at reduced prices.  
 Strictly cash, with order.  
**A. LUSBY & CO.** 2116 Diamond St., Phila.

**FINE FERNS.**

Strong, bushy plants of best varieties, for interiors.  
**P. cristata**, **P. hastata**, **P. aurea albolineata**, **A. Polveana**, **P. ocellata**, **P. adiantifolia**, and a few others.  
**JOHN WELSH YOUNG**, Gormantown, Pa.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**SIEBRECHT & SON,**

The Largest and Finest Collection of **PALMS**, **DRACANAS**, **FICUS** and **FERNS**, **ARAUCARIAS**, etc., in all sizes. Prices to suit all. One visit and you will always come here.  
**STOCK HOME-GROWN**  
 TELEGRAPH OR TELEPHONE, AND OUR CARRIAGE WILL SERVE YOU.  
**Rose Hill Nurseries**, New Rochelle, N. Y.  
 New York Office, 409 Fifth Avenue.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Galax Leaves.**

**CHAS. H. RICKSECKER**, Linville, N. C.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**EASTER PLANTS.**

Hydrangeas, Lilies, Kentias, Arecas, Latan's, etc., Dracanas.  
 Also the **BOSTON FERN** (N. Exaltata Bostonensis) at from \$6 to \$30 per 100.  
 Now ready, a fine lot of **SPECIMEN PLANTS** of Kentias, Heliconias, and Forsterias, 4 to 6 feet high, at from \$7 to \$10 each.  
 Also **GERANIUMS**, **HELIOTROPES**, and a general assortment of small plants for Easter trade. Cash with order.

**WM. A. BOCK**, North Cambridge, Mass.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CYCAS REVOLUTA**

The true long leaf variety, just arrived. Stems from 2 inches long upwards, \$1.00 per 100 lbs.; great reduction on quantities. Prices on all bulbous and decorative stock given by correspondence.

**F. W. O. SCHMITZ**, - - - JERSEY CITY, N. J.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Nephrolepis Exaltata Bostoniensis.**

In large and small quantities for Spring delivery, from \$40.00 to \$80.00 per 1000. Mine is the genuine stock.

**FRED. C. BECKER**, - - - 1730 Cambridge Street, CAMBRIDGE, MASS.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**FICUS ELASTICA**

4 inch pots, 10 to 12 inches in height.  
 \$3.50 per dozen, \$25 per 100.

**ANDORRA NURSERIES**  
 Wm. Warner Harper, Manager. CHESTNUT HILL, PHILA., PA.

**SPECIALTIES:**  
 Large Specimen Ornamental Trees, Hardy Rhododendrons and Azaleas.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**FINE STOCK OF PALMS**

**ARECA LUTESCENS**

6 in., 1 plant in pot, 20 to 24 in. .... \$1.00  
 6 in., 2 plants in pot, 24 to 30 in. .... 1.25  
 7 in., 1 plant in pot, 30 in. .... 2.50  
 7 in., 2 plants in pot, 40 to 48 in. .... 3.00

**KENTIA BELMOREANA**  
 Strong Home-Grown Plants.

5 in., 20 to 22 in. high. .... \$1.00  
 6 in., 24 to 30 in. high. .... 1.50  
 7 in., 30 to 36 in. high. .... 2.50

**LATANIA BORBONICA**

6 in., 3 to 4 leaves, 20 to 24 in. high, 30 in. broad. \$1.00  
 7 in., 7 to 8 leaves, 24 to 30 in. high, 37 in. broad. \$1.50

**PHENIX RECLINATA**  
 6 in., 24 to 30 in. high. .... \$1.00

All Plants Measured from Top of Pot.  
**JOSEPH HEAGOCK, WNCOTE, PA.**

**ADIANTUM CUNEATUM.**

STRONG AND BUSHY.  
 3 in. \$6 per 100; 2 1/2 in. \$3 per 100; \$25 per 1000 Cash with Order.

**CHAS. F. BAKER**, Utica, N. Y.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Ferns for Easter.**

ASSORTED, 2/2 CENTS.  
 2 1/2-inch pots, \$2.50 per 100, Cash.  
**EDWIN A. SEIDEWITZ**,  
 36 W. Livingston St., BALTIMORE, MD  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**ORCHIDS FOR CUTTING.**

The Largest and Finest Stock in the World  
**F. SANDER & CO.**, St. Albans, England. Bruges, Belgium.  
 Agent, A. DIMMOCK, care of Weeber & Dray, Seedman, 114 Chambers St., N. Y. City.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CHEAP PALMS!**

	Each inch	Each 1/2 in.	Each 3/4 in.	Each 1 in.
<b>Areca</b>	1.25	1.50	2.00	2.50
<b>Latania</b>	1.00	1.25	1.50	2.00
<b>Phoenix</b>	1.00	1.25	1.50	2.00
<b>Reclinata</b>	1.00	1.25	1.50	2.00

Send for list of other varieties and prices.  
**W. J. HESSER**, Gardener, Plattsburgh, Neb.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**JULIUS ROEHR'S,**

Headquarters for

**Palms and**

**Decorative Plants,**

RUTHERFORD, N. J.  
 P. O. Address, - - - Carlton Hill, N. J.

**NEPHROLEPIS EXALTATA**

.... BOSTONIENSIS....  
 THE BOSTON DROOPING FERN.

Excellent Specimen Plants in 6, 7 and 8 inch pots, at \$1.25, \$1.50 and \$2.00 each. Those that will readily root for double the price.

Small plants at \$1.00 per 100. 1000 per 1000, \$5.75. \$10 and \$15 per 100. Ready stock on orders booked for June to August delivery. \$20 and \$25 per 100 retail.

**HEATH PLANTS.**  
 1000 plants in flower and bud, in 4 and 5 inch pots, at \$2 and \$3 per 100. Now ready. Very fine plants. Always well.

**ROOTED CUTTINGS, DAYBREAK CARNATIONS.**  
 \$2 per 100, \$5 per 1000.

**L. H. FOSTER,**  
 45 KING ST. - - - DORCHESTER, MASS.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Decorative Plants**

**ARAUCARIAS PALMS**  
**PANDANUS VEITCHII**

All sizes. Write for Prices.  
**FERNS**, Assorted, from 2 1/2 inch pots, \$3.50 per 100.

**JOHN SCOTT,**  
 Keep Street Greenhouses, - - - BROOKLYN, N. Y.  
 Telephone Call 1207 Williamsburg  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE





RESPONSE.

Insertion will be given in this column to all communications, and the opinions expressed do not necessarily reflect our own.

Judging Carnations by Points.

Editor Florist's Exchange:

I have read in your valuable Florist's Exchange about the new scale adopted by the American Carnation Society at its Cincinnati meeting, for judges to go by in awarding points over this broad and varied field. So far, so good. I believe the present scale is an improvement on the one in Cincinnati, at the late convention, and was frequently asked by the exhibitor, "Why do you give the prize to so and so?" Knowing full well that any exhibitor has a perfect right to knock the grounds on which a judge bases his decision, would it not be far better to adopt a scale that comes closer to what we call the beautiful in flowers, than to follow in the footsteps of scales heretofore in vogue? Let me explain: I think the most important point in a carnation is the same in all, and well balanced; that is to say, the size of the flower must be in proportion to stem and foliage; and the best balanced flower ought to get a limit of 50 points for perfection. This is in carnations, but in chrysanthemums and other flowers as well. How would you base the award on an Emma Weber, or an Armazindy carnation to be a prizewinner, if it were not for this very thing? You would not. Some are far larger than these varieties, but cannot stand on their own pedestals and thus show their ineptness in an advertising public, and instead, they have their eyes fixed on the tablecloth, and turn the back of their heads to the judge. I have seen great ones on strong stems, but their heads are not much more in diameter than the stems. I have seen a variety of the same at Cincinnati, "Why don't you try the Flowers up so that we can see 'em?" or they would not be so large. I have seen a variety too, to look well on that big stem." A flower must have a stem to carry it erect, and a foot must be long to support it erectful.

The remaining 50 points could be divided so that my scale would read about as follows:

- Best balanced flower..... 50
- Color..... 15
- Form..... 15
- Stem..... 10
- Foliage..... 10

And, I believe that any good judge will have plenty of room by the first 50 points to place the prize where it belongs.

HAMILTON, O. THOS. BOCK

Seedlings and Certificates.

Editor Florist's Exchange:

Recent an article on this subject, page 245, has been published in your issue. We think that the writer has a bad focus on his subject, to say the least. The National Society has commended the best and most careful thought of the members of the Carnation Society. The present system is the result of the combined wisdom of such men as Dorner, Ridd, and the Louisville Seedling Society. I have known the growers. The system may not have reached absolute perfection, but it is nearly as good as any variety, but it is standard. The points laid down in the rules are certainly indicative of an excellent system of selection, and a standard against worthless introductions, and to raise the standard to the highest degree of excellence possible at the present time. As Mr. Ridd so aptly puts it, "The whole proceeding is a relative one, not necessarily a simple one as new varieties, but it certainly indicates and takes account of a variety possessing an unusual number of those points of excellence which go to make up the ideal variety."

I take issue squarely with the translation that is now being put forth at present with the National Society is with the intention of "cutting out" the best and the best thing, then upon the public by a sale of cuttings or of stock, such an unprincipled and selfish method of doing business and integrity of men who are the peers of any in the trade.

The usual care bestowed upon the entries at Cincinnati by the committees on awards, showed a very earnest desire to arrive at the best and the exact truth regarding the candidates for awards.

Of course, no cut and dried rules can determine as a finally the merit or desirableness of a new variety, but suppose that a variety should possess an accumulated amount of beauty and real merit; suppose that the jury chosen by the Society should fail to fully appreciate all its hidden charms; this jury, nevertheless, with a desire for absolute fairness, goes on and marks down credits for the fine qualities which it can see - a non-judging jury, a goodly and plenty of instances of large size, some color a pleasing color - all these qualifications it must have, to pass; and it is not for the Society to have those hidden beauties and high commercial qualifications to which our critic is so utterly susceptible, and of which he is so keenly appreciative, then indeed we have a novelty; the millennium of the carnation will arrive, and perfection is attained; there is no further use for committees, points, scales or competitive exhibitions. I fear that if the writer of the article in question were known he would be found to be, like Abraham Lincoln's tailor - a man with a grivance.

If the Carnation Society is so dull of vision in criticising its own flower, or so

The article in question is a capricious criticism; it does not suggest a single remedy, nor indicate a single improvement, nor suggest the trial of a different method; it seeks only to undermine faith, and to tear down that which our Society has been slowward with care building up, and without even suggesting a foundation stone for a new edifice.

Instead of weakening faith, we ought to strengthen it, and, having faith, add to its works, and this, supplemented by knowledge, will make for the best interest of this branch of our trade. E. G. HILL.

Seedsmen and the Tariff.

Editor Florist's Exchange:

I have read with interest a correspondent's reply to a recent article by Charles Black on "Seedmen and the Tariff." The free trade clamor which still lives and rears its head, despite the experience through which we are passing, with its appealing "free trade" delusions, its idle mills, idle workmen, and starving citizens. This correspondent's own line of reason,

by your correspondent in last week's "Exchange." F. W. B. Richmond, Indiana. While the issue of Lady Hume Campbell was in the hands of the printer, I had a number of violets to bloom they would not produce a flower, but in a week after getting more seeds, they made out a number of flowers. It was late before I made the discovery, but I think now they will pay well for lost time. I have a number of other varieties they are producing. The Campbell with me seems to be positively proof against disease, but only on a small scale; so far it is no equal to Campbell in healthiness. J. FRYER.

Sweet Pea Tests.

Editor Florist's Exchange:

I desire, through your columns, to call the horticultural public to the new and original work that I am doing with the sweet pea.

I have established a department for testing unnamed sweet pea novelties, and for their introduction, by my method of culture and nomenclature, rendering a full report on each variety, and on the results. If so requested, a comparison as to points, with the typical variety as known at present, in each of the three types of the growing sweet peas (L. Vivini), expanded, hooded and reflexed. These tests are sure to give the greatest amount of information of novelties, as they will be entirely impartial, and be accurate in the extreme, and will be made from the material by which the novelty grower has for his pet productions.

The plants from which tests are made will all be grown by my expert methods of culture, and will be very important in color will be infallibly given by my "Chromometer." Every sweet pea grower has been impressed with the various names of colors given in different catalogues for the same variety of the sweet pea.

No charge will be made for these tests to those regularly in the seed trade, but all novelties not in the trade will not be tested after this year. I have some thirty unnamed novelties so far for this year, and the greatest number of these are not yet introduced, among which is the new dwarf (L. cupulea), Pink Cupid, and many others. From the material I have I can send you a list of the material, and I will be pleased to receive samples of the same varieties from any one in the trade, or sweet pea specialists, on my word of honor that not a single point will be permitted to go out of my possession, or be allowed to produce seed, and no information given to any regarding the tests, excepting what may be requested by the senders. I have been engaged by W. Atlee Sears & Co. to test the entire list of sweet pea this year, in order to properly place them as to color, type and quality, which will be published by them in 1898, with my methods of culture and testing, as well as a full exposition of my nomenclature of the sweet peas, and points for the guidance of committees on nomenclature of the different sweet pea groups.

I will be glad for florists, or seedsmen, visit my testing grounds on any day, excepting Sunday, during July, and will be pleased to have you test the novelties which will be offered to the trade for some years to come, and I will, so far, permit of all being seen in the flower, and you may have them for sale, or for any other purpose. Information can be given as to the tests, excepting by express permission of the owners. W. Atlee Sears & Co. Sweet Pea Expert. Roaring Spring, Pa.

Pteris Serrulata Zelleri.

ing, if carried to its ultimate destination, will convince him or any other free trader that protection protects.

If our own mills, work-shops, farmers, and laborers are busy, then the price of labor must rise. If a protective tariff keeps out foreign goods, then the quantity of goods kept out must be made at home. If more are made at home, the law of supply and demand will create another market for our home labor, and wages are bound to rise.

If we pay our money to home producers, we keep that much more in the country, and instead of shipping gold to Europe, we will be putting it into the pockets of our own people.

Did this correspondent ever stop to consider that "combinations of capital" have built our railroads, opened up our vast wheat fields, developed our coal mines, harnessed the lightning, dammed up Niagara to do man's bidding, all under a protective tariff, while the price of wearing apparel, farm machinery, food, and everything else steadily decreased in value, until the purchase power of a day's wages was never so good as now.

Theory is one thing, my friend, but 20 years of prosperity, with "combinations of capital protected by tariffs," knock all your fine spun words into a broken jumble. I have seen "foreign things" wherever you meet them, and our own farmers and workmen meet protection against foreign labor and foreign goods, just as much as if that labor stood at our doors offering to do work at half price.

VERITAS.

Pteris Serrulata Zelleri.

This fern is said to be a distinct one, and one who has examined the stock. It is of very dwarf and compact habit, resembling the one known by the name of Zelleri in honor of Mr. Chas. Zeller, of Flatbush, N. Y., whose every body knows. Our illustration is drawn from nature, and is very faithful reproduction. Messrs. Sieber & Co. have secured the entire stock of this valuable fern, and will introduce it this season. The stock is said to be in a most healthy condition.

Volunteers.

I have had about the same experience with Lady Hume Campbell as that related



Philadelphia.

Business has now settled down to the usual contentions, and consequently there is an over-supply of nearly every kind of carnation. Good roots continue to sell fairly well, prices being about the same as in the past few weeks, but second-class stock is not moving. Carnations have dropped to 100 per 100, and good stock, including most of this figure. The greatest glut just now, is in violets; as they are scarcely being given away, and nearly every street corner variety is to be seen with violets. But even with this sales are not so brisk as usual. Lenten season is more in vogue this year than ever, so that most of the flower buyers are out of the way.

The chief topic under discussion this past week has been the large number of florists who are leaving the city, and it is evidently the judgment of the majority, that such a transaction does good, as it creates a love of plants among those who would not go to the florist to buy, but when once the desire is cultivated, may do so in the future. It certainly greatly aids the grower in getting a large quantity of surplus stocks.

Visitors in Town.

James Delany, Boston; J. L. Dillon, Bloomington; W. H. Jones of Boston Flower Co., P. P. Plerson, Scarborough, N. Y., who has been visiting the principal rose growers in the State, and who has returned here on Wednesday, from his southern trip, and will remain three days.

Here and There.

At the Pennsylvania Horticultural Society's monthly meeting, on Tuesday next, a very interesting paper will be read by J. W. Anderson, of the Orchard of What can be Accomplished by Spraying and Some Serious Enemies of the Orchard. Henry F. Mitchell will present papers on electricity at this meeting.

Growers.

JOSEPH H. ACOCK has made quite a success of his carnations, and has started this branch three years ago, and was compelled to build another house last Fall. He is fairly successful, and has a large quantity of which are in perfect health. The aereas are mostly in 1 and 1/2-inch and good sized plants, and are showing a lot of fine ashes, keeping the roots cool and healthy, and thus making perfect plants. He is also making perfect stock of K. Helmsone in perfect condition, showing that pains can be taken to grow successfully on a large rose place.

The varieties of roses now grown here by this grower, under the name of Beauty, a few from Ruser, Meteor, Bride and Bridesmaid. Carnations will be almost entirely dropped from the business, and the plants are not some very good seedlings, a pink one being worthy of special notice, having perfect form, good stem, and being of an exquisite shade of delicate pink. DAVID RUST.

Carnegie, Pa.

M. C. DUNLEVY took to Pittsburg about 9,000 carnations which had been ordered for decorating the special train that carried the late McKinley from Canton to Washington. On arrival, the President handed a bunch of these carnations to the engineer of the train, and he was to be distributed safely, and which act created a loud demonstration among the crowd gathered to meet the president.

Buffalo.

Every-day trade is coming on apace fairly well, though of course not so large as in the Fall. It is thought to be so far, and sometimes at Kastings's wholesale house, assume a "piled up" condition. The following are the exhibitors manifested at present in the forthcoming annual election and banquet of the Club, to occur on Monday next, and who are hoped to be the leading members from the executive committee present on their return from the annual meeting. The affair is to be held at the Relini Hotel. In connection with the banquet, the members are to occupy Parlor A in the afternoon with a display of new carnations, which is no doubt to attract a great deal of general interest.

William Scott and J. F. Cowell have been appointed to meet at the meeting of the Executive Committee of the S. A. F.

It is reported that Hughes & Co., of 35th St., have had their retail business to Mrs. Nusbaum, formerly head clerk with them.

Visitors.

H. R. Beaton, of Dayton, O.; E. B. Sage, Red Bank, Pa. V.D.I.

Trade Follows Wherever the Florists' Exchange Goes and the Florists' Exchange Spring Special Will Go Everywhere.

CIRCULATION 9 COPIES.

This edition will contain special features in reading matter and illustrations which will greatly enhance its value to advertisers.

DATE OF ISSUE

Advertisements should be sent in as early as possible in order to receive best attention and most advantageous positions. Insertion cannot be guaranteed if copy reaches us later than Wednesday, March 31.

THE FLORISTS' EXCHANGE, P. O. Box 1697, N. Y.

Index to Advertisements.

Table listing various florists and their advertisements, including names like Alternanthera, Baldwin A. M., Lawrence M., etc., and their respective page numbers.

Table listing various florists and their advertisements, including names like Quaker City Mach Co, Van-Edison Co, etc., and their respective page numbers.

### 100,000 Marie Louise Violets.

Strong, healthy, well-rooted runners, from new stock.

**60 cts. per 100; \$4.00 per 1000.**  
Cash, with order, please.

Would exchange for rooted Czarinas.

**M. J. PIERCE,** Adrian, Mich.  
WHEN WRITING MENTION THE FLORIST'S EXCHANGE

### GERANIUMS AND VIOLETS.

Geraniums—Best single, double and semi-double varieties for bedding purposes; also early root cuttings, \$1.75 per 100 labeled.

Violets—Marie Louise, good, healthy transplanted plants from Paris at \$2.25 per 100, or from seed in a few weeks at \$7.50 per 100.

Cash with order. Address

**H. B. WEAVER & BRO.,** Wheatland Mills, Pa.  
WHEN WRITING MENTION THE FLORIST'S EXCHANGE

### THE FARQUHAR—QUEEN OF VIOLETS

**HEADQUARTERS STOCK. TRUE AND PERFECTLY HEALTHY.**

Earliest, Freshest, Darkest and most Double. Planted one will flower and give a quantity of runners for stock. From 2 1/2 inch pots in bud, \$5.00 per 100. Strong Rooted Runners, \$1.50 per 100, by mail, \$16.00 per \$1000.

### C. E. WELD, VIOLET SPECIALIST, ROSLINDALE, MASS.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**SUPT. THE VIOLET**

Offers the following varieties of Violets for March delivery. All plants are in perfect health, having been grown cold.

None of my Violet houses are heated, thus insuring perfect health and vigorous growth.

**Princesses of Wales** (Princesses de Galles), introduced by me from France four years ago. \$1.00 per doz.; \$7.00 per 100.

**Princesses Beatrixes**, new, \$1.00 per doz.; \$7.00 per 100.

**Admiral Avellan**, new, \$1.00 per doz.; \$7.00 per 100.

**Luxurians**, 75c. per doz.; \$5.00 per 100.

**Patric Blanc**, 75c. per doz.; \$5.00 per 100. Also a large stock of other varieties, such as Chambrun, etc. Prices on application. Cash with all orders.

**FRANCIS SUPIOT, 57th St. and Lancaster Ave., PHILADELPHIA, Pa.**  
WHEN WRITING MENTION THE FLORIST'S EXCHANGE

### VIOLETS MY SPECIALTY!

On and after March 1st I will be ready to supply, in any quantity, stock of the following varieties:

- |   |   |
|---|---|
| <b>PRINCESS DE GALLES,</b> The Queen of Violet Violets. The largest and most fragrant strong grower and prolific. \$5.00 per 100; \$50.00 per 1000. | <b>LUXURIANS,</b> new, \$1.00 per doz.; \$7.00 per 100. |
| <b>CALIFORNIA,</b> \$1.00; \$8.00.  | <b>MARIE LOUISE</b> \$1.00; \$8.00.                     |
- All from good plants, rooted runners.
- Five French Medals; two American Medals; three Diplomas. First Premium Grand Central Palace, New York, under the auspices of New York Florists' Club.
- Send in your orders now. Cash with order or satisfactory reference.

### FERD. BOULANGER, Sea Cliff L. I., N. Y.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

### Dreer's Royal and Pansies



WE have in surplus beyond our regular requirements about 25,000 fine strong plants of our Royal Exhibition strain of Pansies; these are seedlings that were transplanted into cold frames in November, wintered in that shape, and must not be confounded with small seedlings out of seed bed.

We offer as long as surplus lasts at:

**\$1.00 per 100, or \$7.50 per 1000.**

**HENRY A. DREER, 714 Chestnut St., Phila., Pa.**  
WHEN WRITING MENTION THE FLORIST'S EXCHANGE

### PANSY PLANTS

Rehmid's international elocoe mixture of Pansies. Five large plants in bud or bloom. \$1.50 per 10; \$10 per 1000. From seed, 60 cts. per 100; \$4.00 per 1000; all grown to cold frames.

**J. C. SCHMIDT & CO.,**  
Wholesale Pansy Growers, Box 24, BRISTOL, PA.  
WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**Pansies Worth Raising . . .**

We can still furnish root plants, for sowing, and which may bloom in April, at \$4.00 per 100, (Cash express here. Now is the time to buy!) QUICK RETURNS are wanted.

Cash with Order.

**C. Soltan & Co.,** 199 Grant Jersey City, N. J.  
WHEN WRITING MENTION THE FLORIST'S EXCHANGE

### Brampton, Ont.

HARRY DALL is experiencing peculiarity with his roses, for it was this afternoon through the month of February. The bud leading over towards sunset makes a serious loss to the flower on the 15th of the sun in the morning cause the bud to straighten, but leaves a kink or bend in the neck. This prevents the roses from the best and finest bud, and as the stem is in proportionate thickness to the size of the flower, it is a problem Harry is trying to solve and which is causing him sleepless nights. He has hit upon a partial remedy by using a wire support, about 15 inches long, applied so soon as the bud is a certain size. This answers admirably, but ordinary stock, he is nothing out by the extra trouble.

**H. B. BIDMIST** and Mermet are the kinds most affected. Hoste, somewhat, but not to so great an extent. Some grand stock is being cut. At time of my visit a shipment was being made—Bride and Mermet, with 5 feet stems, and made in proportion. Woodens still keep well. Perils and Sunsets are yet profitable. Ousia is indispensable.

There will be good arrangements for Easter. California and Luxonne violets, with Snow Crest daisy, are grown in large numbers, and all all kinds. Here the double violet really is not in it this season.

Mr. Dall believes in replanting his apparatus but with young stock annually. He has become a disciple of the grafted stock method of rose growing, and intends expanding his business by this. With this decision after visiting the establishment of A. F. Plazan at Cromwell, and reading Fred Palmer's system, which he considers much simpler and less expensive.

### Washington.

The Inaugural Ball.

The decorations at the Inaugural Ball differed from those of former similar occasions in that everything in the way of painting and electric work was made subservient to the floral designs. The evergreen, flags and shields were used in very lavish profusion, and their gaudy colors were not so prominent as they were on previous festal occasions. This time the flags were few and far between, just enough to suggest their presence. The flowers and sprays of flowering vegetation. This time the flags were few and far between, just enough to suggest their presence. The floral decorations were of white and yellow cloth and background, and was arranged in every available place on the great hall, and the floral decorations were shut out from view by the three colossal arrangements of white and yellow chollis. Some similar and scraps of andromeda were used principally for spraying. Perhaps the finest work was shown in the decoration of the two music stands; the one in yellow at the east end of the building was arched in imitation of the golden doorway of the Transportation building at the World's Fair. In each of the upper corners of the structure were three large arched wreaths, made of gilded andromeda leaves. These wreaths had a background of green. In the arch were small white flowers, with fastidiousness of China silk, immense garlands of Meteor roses running along the entire front of the stand. In the center of the building, between the two rows of columns, was draped a white. The spraying of apparatus on this was very effective. Bridesmaid roses were made up in garlands and draped along the top of the stand; at the back of the stand were silvered ampion wreaths at each corner. Stretching across from each group was a thick band of gala leaves, on which the electric got in some fancy work displaying the American flag. Above the wreaths, and reaching to the second balcony, were two golden coronas which were made to appear as if they had been emptied of their contents, consisting of some two or three dozen nicely flowered red, white and yellow roses. The roses in moss and hid in greenery. This piece of work was especially telling.

**Milwaukee.**

Martin Doward, one of the oldest Scotchmen of the city, died March 2, aged 83. He was born in Montrose, Forfarshire, Scotland, in the town of Milwaukee in 1845. He was a shoemaker by trade, but entered the employ of the U. S. Patent Office in 1875. Here he retired, and for many years devoted his time to the business of a florist and landscape gardener. He leaves a widow, three daughters, and two sons.

**W. M.**

**CHAS. WALKER** is suffering from an attack of the grip.

### PANSY PLANTS.

My own Select Strain. Strong plants from frames. \$4.00 per 1000 cash.

**W. J. BINGLE, Box 211, Dayton, Ohio.**  
WHEN WRITING MENTION THE FLORIST'S EXCHANGE

### FINANSIES.

**THE JENNINGS STRAIN** of finest American Grown Pansies are up to date and ready to please. Fine stock plants from cold frames and bloom. All large flowering in great variety of colors. Will express \$20 per 100; \$150.00 per 1000.

**E. B. JENNINGS, Lock Box Southport, Conn.**  
WHEN WRITING MENTION THE FLORIST'S EXCHANGE

### VIOLET CUMPS

**MARIE LOUISE, Per 100, \$3.00.**

### ROOTED CUTTINGS

GERANIUMS, Double White, Pink and Red..... \$15 00 2 0  
GERANIUMS, mixed, Miss. Salicoid, Louis, Veronesi, 1862, Yara, Var. Stow,..... 12 50 1 50  
MR. STOV... GERANIUM..... 2 00  
REX BEGONIA..... 2 00  
STOBILANTHUS..... 15 00 2 0  
ALTERNATHERA, VIOLETS..... 1 00  
SWEET ALYSSEUM, double..... 1 00  
SALVIA, single, RED..... 1 00  
CARNATIONS..... 10 00 1 25  
COLEUS, separate..... 6 00 7 50  
ARILLO... mixed..... 6 00 7 50  
SNOWCROST DAISY, CYPERUS ALTERNIFOLIUS..... 2 00  
ROSE, Wermut, Bride,..... 2 00  
Bridesmaid..... 2 00  
TRAILING GREEN..... 1 00  
and Double White..... 2 50  
WINCA VARIEGATA, \$1.00, \$6.00, \$10.00, per doz.  
Write for prices on other rooted cuttings. Stock rose to name and extra care in selecting.  
Terms, Cash O. O.

**Syracuse, N. Y.**

The large nursery and packing house of the Green Nursery Company, situated on the town line between Chili and Riga, was burned March 25. The fire started in the cellar of the packing house. The flames spread rapidly and were soon beyond control, and in a few minutes the entire packing house and the adjoining barns were destroyed. The loss in the neighborhood of \$10,000, with an insurance of \$4000.

**Syracuse, N. Y.**

A special meeting of the Central New York Horticultural Society was held recently to arrange the schedule for the annual chrysanthemum show to be held next Fall. The prizes appropriated for the premium list was \$50.

**GREENE & UNDERHILL, Watertown, N. Y.**  
WHEN WRITING MENTION THE FLORIST'S EXCHANGE

# IT IS A WINNER! PRESIDENT CARNOT.

SIZE. FORM. STEM. FOLIAGE.

Continuous and abundant in blooming. There is an indescribable charm in its delicious coloring.

No one will regret investing in this Rose.

SEE OUR ADVERTISEMENT IN NEXT NUMBER.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**EVERY FLORIST OUGHT TO INSURE HIS GLASS AGAINST HAIL.**

For particulars address  
**JOHN G. ENLKER, Sec'y, Saddle River, N. J.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

### YOUNG ROSES.

1500 each of Brides and 'Mada. out of 2 1/2 in. pots, strong. I grew this stock to plant myself but have taken the creation ever so will sell them for \$3 per 100. Also for sale at \$12 per 100, 200 *Pieris Tremula*, in 4 in. pots ready for sale.

**Young Carnations, from Flats, or Scott, Daybreak, Wave, Albertini, Meteor, Garfield, Alaska, Puritan, Storm King and Eldorado, at \$2 per 100.** Clean strong stock.

**GEO. A. RACKHAM,**  
880 Van Dyke Ave., - DETROIT, MICH.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

### Hardy Roses.

Spring Flowering Bulbs.  
Reliable Flower and Vegetable  
SEEDS.  
For Catalogues address

**C. H. JOOSTEN,**  
IMPORTER,  
193 Greenwich Street, NEW YORK.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

**ROSES**...  
From 2 1/2 in. pots, strong and of excellent shape,  
\$2.50 per 100, \$3.00 per 100.

Bride, Bridegroom, H. M. Stanley, M. Niels, Marie Guillot, Mary Washington, Louis, Richard, Pink Queen, La Favorite,  
Rambler and Climbing Souper.

**GERANIUMS**...  
The very best varieties, strong plants, from 2 1/2 in. pots, ready to ship, in lots of 100, \$50 per 1000.

**Meteorini, Le Pileot, Jas. Y. Markham, Grayson, Pink Queen, La Favorite, Mrs. Chas. France, California.**

**Our New Seedling Geraniums,** J. A. Doyle  
- Bred to take the place of *Hiatarah* and other varieties of that class. It is the most beautiful in color, of flower, freedom of bloom, and is a decided hybrid, and one that has all the good qualities that go to make up the ideal bedding Geranium. \$4.00 per 100, \$5.00 per 1000.

**J. A. DOYLE, - Springfield, Ohio.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

50 at 100 Rate.  
500 at 1000 Rate.  
**CHAS. W. REMERS**  
**ROSES.** Strong, healthy, From 2 1/2 inch pots.  
La France, Bride, Meteor, Bridegmaid, \$3.00 per 100, \$5.00 per 1000.  
Meteorini, M. Niels, Marie Guillot, 5.00 per 100.  
Arctippia, Duchess of Albany, \$3.00 per 100.

**CARNATIONS.** 2 1/2 inch pots.  
Win. Stark, Lizzie McGowan, \$2.00 per 100, \$5.00 per 1000.  
Parthena, \$3.00 per 100, \$10.00 per 1000.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

### President Carnot Rose.

We won First Premium with this rose at the great Indiana Poinz' Minn show last November, with stems from 3 to 4 ft. long. We have a fine stock of own roots and grafted plants.  
Write for prices.

**W. W. COLES,**  
Maple Hill Rose Farm, - KOKOMO, IND.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

### ROSES.

**HIBISCUS AND GERANIUMS.**  
Roses, Strong plants, 2 1/2 in. pots, \$2.25 per 100; \$20.00 per 1000. By mail, 25 cts. per 100 additional.

Argippina	Marie Van Houtent
Arctippia Charles	Medina
Blue Nile	Metzner
Bridesmaid	Miss Camille
C. Nonport	Miss Cecile Heribod
C. Orsney	Miss Jos. Schwartz
Devoniana	Miss Lombard
Dr. Will	Miss Marcelline
Inch. de Brabant	Miss Schwaizer
Rose de Lyon	Papa Leblanc
Calcutta	Princess Megan
Arch. French	Queen's Smile
Henry H. Stanley	Snow Flisk
Paris	Southern Star
La Princesse Veat	Striped La France
Winnna Cochet	Victor Hugo
Darling	Winnna Cochet

TERMS CASH WITH ORDER.  
**R. H. MURPHEY, Urbana, Ohio.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

### THREE NEW RAMBLERS

Companions to Grimson Rambler.

**AGLAI, or YELLOW RAMBLER.**  
The only hardy yellow climbing rose. Has without 2 degrees below zero unpropagated.

**EUPHROSYNE, or PINK RAMBLER.**  
A clear light red.

**THALIA, or WHITE RAMBLER.**  
Pure white.

Send for free color plate and descriptive circular of Aglala. Every florist should handle these three important novelties. Strong plants from 2 1/2 inch pots, ready March 1st, \$5.00 per 100, \$15.00 per 1000.

Send for Trade List of hardy, field-grown Roses, Shrubs, Ornamental and Fruit Trees, small Fruit Plants, etc.

**JACKSON & PERKINS CO.,**  
NEWARK, NEW YORK.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**PALMS.**

25 at 100 Rate.	Strong, 2 1/2 inch pots.	Per 100
Lantana	18 inches high.	\$ 2.00
Phlox	18 inches high.	1.50
Chamaenaria	18 inches high.	1.50
Chamaenaria	18 inches high.	1.50
Chamaenaria	18 inches high.	1.50
Plantia borbonica	18 inches high.	25.00
Plantia borbonica	18 inches high.	3.00
Plantia borbonica	18 inches high.	3.00
Plantia borbonica	18 inches high.	3.00
Plantia borbonica	18 inches high.	3.00

### NEW AND CHOICE ROSES, CARNATIONS AND CHRYSANTHEMUMS.

All in A1 Stock, now ready at up-to-date prices.

**JOHN N. MAY, - Summit, N. J.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

### REINBERG BROS.

Strong, healthy ROSES From 2 1/2 inch pots.

**AMERICAN BEAUTY and TESTOUT.** \$3.00 per 100; \$30.00 per 1000

**GOLDEN DAE, PERLE BELLE, SIEBRECHT, METEON, BRIDE, BRIDESMAID, KAISERIN and LA FRANCE.** \$3.00 per 100; \$25.00 per 1000. No orders for less than 100 or of variety accepted. We are the largest Rose growers in the United States, and can fill all orders with the very best stock.

**Rose Cuttings, \$1.50 per 100; American Beauty, \$2.50 per 100.**

**CARNATIONS—Rooted Cuttings.**  
IVORY and DELLA FOR \$2.00 per 100; \$25.00 per 1000. **ROSE QUEEN.** \$2.50 per 100; \$25.00 per 1000. **WM. SCOTT, DAYBREAK, MARY NANCY, TIDAL WAVE, ALBERTINI, PORTIA, LIZZIE GILBERT, CAYBARK, LIZZIE MOODMAN, STORM KING and SILVER SPRAIT.** \$3.00 per 100; \$30.00 per 1000. No orders for less than 100 of any variety accepted. Special Prices on large lots. The above stock is well rooted and free from rust. Send orders to  
**51 WABASH AVE., CHICAGO, ILLS.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

### ROSES! ROSES!

**STRONG FIELD-GROWN DORMANT PLANTS.**

Large stock Gen. Jacquemot, Paul Neyron, Ulrich Brunner, Magna Charta, Baroness Rothschild, and other leading varieties of Hybrid Perpetuals, \$3.00 per 100; \$50.00 per 1000.

**MOSS ROSES** in the ten best sorts, \$2.00 per 100. **CLIMBING ROSES,** Baltimore Belle, Prairie Queen, Tennessee Belle, and Seven Sisters, strong, 2 years, \$6 per 100.

**Wichuraiana** (Memorial Rose) field-grown, \$5.00 per 100.

**CANNAS.** New Giant Flowered AUSTRIA, strong, 4 in. pot plants, \$3.00 per doz.; \$20 per 100. A large stock of the cream of the older varieties, such as Florence Vaughan, Queen Charlotte, Eldorado, Sunbeam, Alprouse Bouvier, Charles Henderson, Madam Crozy, President Carnot, Admiral Avelan, Edward Mieg, etc. Do not fail to get our prices before buying.

**CALADUM ESCULENTUM.** Small bulbs with good centers, 7 1/2 to 10 in., \$5 per 100. 6 to 7 1/2 in., \$3 per 100. 5 to 6 in., \$2 per 100.

A new pure white of the semiperforans type, very free flowering, \$2 per doz.

**GERANIUMS.** Strong 2 1/2 in. pot plants, large stock of S. A. Nutt, Marvel, Heterantha, La Favorita, and other best bedding sorts, \$25 per 1000.

Immense stock of Fruit Trees, Nut Bearing Trees, Grape Vines, and Small Fruits. One of the largest, if not the largest, assortment of Ornamental Trees and Shrubs, Climbing Vines, Bulbs, Hardy Perennials, etc., in America. And 32 greenhouses filled with what the average florist is most likely to want. Correspondence solicited. Catalogues and trade lists free.

**THE STORRS & HARRISON CO.,** Painesville, Ohio.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

SITUATIONS WANTED.

Rate, 10 cents per line 6 words, each in-... (Notice with with the agencies...

SITUATION wanted Young man, single, ten... (six years' experience. C. W. Carr...)

SITUATION wanted by young man as assistant... (room grower, 4 years' experience, first-class...

SITUATION wanted by young man, as first as-... (sistant (commercial), well up in general stock...

SITUATION wanted as greenhouse or ornate place... (with greenhouses, by a practical man. life ex-

WHO wants a practical florist and gardener... (Thomson calls for one who is capable of grow-

SITUATION wanted by young man, 18 years' ex-... (perience in England and America; good, steady...

GARDENER, 20 years' service, wants although... (assistant in commercial places 3 years' experi-

SITUATION wanted by first-class grower of roses... (carolinas, violets, "mann, etc. single, age 53...

WANTED An experienced florist, who has... (experience in all branches of the trade...

WANTED A competent foreman in gar-... (den, who is a worker and a good grower of...

WANTED. (At once, a young single man for a general com-

WANTED. Experienced man as working foreman, must... (understand growing of roses, carnations and...

SAMUEL J. BENTING, 58th St. and Elmwood Ave., Phila., Pa.

WANTED. A good, thoroughly experienced florist for... (growing outdoor flowers; single man pre-

GREENHOUSES AND LAND. (FOR SALE OR RENT.)

ON account of owner's death, the Clinton Green-... (houses in Clinton, N. Y., are for sale and...

FOR SALE AT BARGAIN. (Six greenhouses, 10,000 feet of glass, first-class...

FOR SALE. (Twenty-six miles from New York City, 4 green-

FOR SALE MECH. AND EASY TERMS. (One New BICYCLE and One Second-hand...

SMILAX FOR EASTER. (Fine heavy strings, only 10c. per string. Get...

50,000 SMILAX. (Per 2 lbs. pots, \$1.50 per 100, \$1.00 per 100...

FOR RENT. (A fine greenhouse of about 4000 feet of glass, with...

FOR SALE OR RENT. (Thirty acres of the finest market gar- den...

MARKET GARDEN. (P. O. Box 223, Newburgh, N. Y.)

FINE PLANTS. (Per 1000) 5000 Marguerites (Paris Dutch), 5-10c. each, \$5.00...

FOR SALE OR RENT. (A fine greenhouse of about 4000 feet of glass, with...

FOR SALE OR RENT. (A fine greenhouse of about 4000 feet of glass, with...

FOR SALE OR RENT. (A fine greenhouse of about 4000 feet of glass, with...

FOR SALE OR RENT. (A fine greenhouse of about 4000 feet of glass, with...

FOR SALE OR RENT. (A fine greenhouse of about 4000 feet of glass, with...

FOR SALE OR RENT. (A fine greenhouse of about 4000 feet of glass, with...

FOR SALE OR RENT. (A fine greenhouse of about 4000 feet of glass, with...

FOR SALE OR RENT. (A fine greenhouse of about 4000 feet of glass, with...

FOR SALE OR RENT. (A fine greenhouse of about 4000 feet of glass, with...

Brooklyn, N. Y.

R. MCCULLOUGH, Fulton st., has gone out... of business.

EMU JELLY has removed to Fulton st., New York.

R. ZABER, Nostrand ave., is rejoining over... the advent of a bounden boy.

C. D. LEE now occupies the store formerly... run by Seaber, at 40th st. and Third ave.

Mrs. JAMES ROBERTSON is conducting the... business daily carried on by M. Puchs, at 157 Bridge st.

Business here is moving slowly during... Oct. Flowers are not over-plaintful, but... sufficient for all dem.

PETER MALLON & Co. has the decorations... for the Brooklyn Bicycle Show; they are... in their perfect keeping at the grand display...

WM. KRICK has just received from Wash-... ington, the patent papers for his adjustable... flower and other articles that, he says, is...

MR. TRACY, of 236 Canal St., recently... suffered a great bereavement in the death... of his son, who was in business with him;

HENRI BEAULIEU has been given the sell-... ing agency for the firm of Ch. Molin, of... Paris, France, seed growers and horticultur-

Woodhaven, N. Y.

JOHN A. LOSCH, formerly engaged in the... nursery business, 1319 Third St., New York, is... hospital for the insane at Philadelphia. He...

GREENHOUSES AND LAND. (TO LEASE.)

ON account of owner going abroad for a... number of months, the John Henderson Co. will...

JOHN HENDERSON CO., Fishing, N. Y.

FOR SALE AT BARGAIN. (Six greenhouses, 10,000 feet of glass, first-class...

FOR SALE. (Twenty-six miles from New York City, 4 green-

FOR SALE MECH. AND EASY TERMS. (One New BICYCLE and One Second-hand...

SMILAX FOR EASTER. (Fine heavy strings, only 10c. per string. Get...

50,000 SMILAX. (Per 2 lbs. pots, \$1.50 per 100, \$1.00 per 100...

FOR RENT. (A fine greenhouse of about 4000 feet of glass, with...

FOR SALE OR RENT. (A fine greenhouse of about 4000 feet of glass, with...

FOR SALE OR RENT. (A fine greenhouse of about 4000 feet of glass, with...

FOR SALE OR RENT. (A fine greenhouse of about 4000 feet of glass, with...

FOR SALE OR RENT. (A fine greenhouse of about 4000 feet of glass, with...

FOR SALE OR RENT. (A fine greenhouse of about 4000 feet of glass, with...

FOR SALE OR RENT. (A fine greenhouse of about 4000 feet of glass, with...

FOR SALE OR RENT. (A fine greenhouse of about 4000 feet of glass, with...

FOR SALE OR RENT. (A fine greenhouse of about 4000 feet of glass, with...

FOR SALE OR RENT. (A fine greenhouse of about 4000 feet of glass, with...

FOR SALE OR RENT. (A fine greenhouse of about 4000 feet of glass, with...

FOR SALE OR RENT. (A fine greenhouse of about 4000 feet of glass, with...

FOR SALE OR RENT. (A fine greenhouse of about 4000 feet of glass, with...

FOR SALE OR RENT. (A fine greenhouse of about 4000 feet of glass, with...

FOR SALE OR RENT. (A fine greenhouse of about 4000 feet of glass, with...

01 Cts. WORTH OF TOBAC-OIL FUMIGATES, 2,000 SQ. FT. of floor space, exterminates at one application all Green Flies, is non-injurious to most delicate house plants...

25,000 GERANIUMS 25,000 NOW READY. Strong plants, 2 1/2 inch pots, \$3.00 per 100. Colours Rooted Cuttings, 75c. per 100; \$6.00 per 1000. Cash with order.

Pansies! Pansies! Bugout, Cassier, Odier, and Trimardeau. Large stock of plants, to be had last November in cold frames, ready to bloom, 50c. per 100...

STRONG, HEALTHY ROOTED RUNNERS OF MARIE LOUISE VIOLETS. \$4.00 per 1000. Also five lot of ANTHEMICUM VITATUM VAR., in a bunch, at \$8.00 per 100.

BETCHER BROS. OFFER Very Fine Geraniums, 2-inch, per 100, \$3.00. 1 1/2-inch, per 1000, \$15.00. Geraniums, 2-inch, per 100, \$3.00.

Another Batch of Strong Rooted Cuttings of the: Geraniums, 2-inch, per 100, \$3.00. Geraniums, 1 1/2-inch, per 1000, \$15.00.

Rooted Rose Cuttings. Heavily well-rooted cuttings from the best flowering wood. Meteor, Siebrecht, Wootton, Eleanor Augusta Victoria, 2 1/2 inch pots.

SPECIAL FINE STOCK - ROSES - 2-inch pots, ready for 3-inch. Bride, \$4.00 Per 100. \$35.00 Per 1000. Parrot de Jardin, \$4.00 Per 100. \$35.00 Per 1000.

W. C. SMITH, 62st and Market Sts., Phila. WOOD CAMELLIA, 4 inch pots, \$3.00. \$30.00 per 1000. PARLETT, \$3.00 per 100. TEAS, \$3.00 per 100. \$25.00 per 1000.

ADIANTUM CUNEATUM, Peris Cretica albo lineata, Peris hastata. These are fine healthy large ferns, out of thump pots.

ROSES. Out of 2 1/2 in. pots. BRUNNER, MAGNA CHARTA, BRIDE, BRIDESMAID, PERLE, CAFFRICA, 2 1/2 inch, per 100, \$3.00. \$30.00 per 1000.

ROSES. Out of 2 1/2 in. pots. BRUNNER, MAGNA CHARTA, BRIDE, BRIDESMAID, PERLE, CAFFRICA, 2 1/2 inch, per 100, \$3.00. \$30.00 per 1000.

ROSES. Out of 2 1/2 in. pots. BRUNNER, MAGNA CHARTA, BRIDE, BRIDESMAID, PERLE, CAFFRICA, 2 1/2 inch, per 100, \$3.00. \$30.00 per 1000.

ROOTED CUTTINGS. Geraniums, best named sets, \$1.50 per 100. \$15.00 per 1000. Petalside, Irene's strain, \$1.50 per 100. \$15.00 per 1000.

Cluacs & Boddington Co., Importers, Wholesalers and General Agents of Plants, Seeds and Bulbs, 60 & 60 1/2 W. 13th St., Telephone Call, 405 15th St., New York City.

SMILAX BULBS Two and three year old, \$2.00 per 100. Heliotrope, dark, rooted cuttings, \$1.00 per 100. Standard varieties of Carnation, 2 1/2 inch pots, \$2.00 per 100.

ASTERS. Queen of Market, white, blue, yellow, pink, and red. Christmas, white, blue, yellow, pink, and red. Comet, carmine, 3-inch, 30c. per 100. Liliput, mixed colors, 2 1/2 inch, 30c. per 100.

WE ARE HEADQUARTERS. Fine stock in 2 inch pots \$1.00 per doz.; \$6.00 per 100. Cash with order.

Jno. G. Heilm & Son, TERRE HAUTE, IND. Best seller ever introduced, has no equal as a money maker; begins to bloom profusely in February. Strong plants from 2 1/2 in. pots, \$4.00 per 100.

WE ARE HEADQUARTERS. Best seller ever introduced, has no equal as a money maker; begins to bloom profusely in February. Strong plants from 2 1/2 in. pots, \$4.00 per 100.

WE ARE HEADQUARTERS. Best seller ever introduced, has no equal as a money maker; begins to bloom profusely in February. Strong plants from 2 1/2 in. pots, \$4.00 per 100.

WE ARE HEADQUARTERS. Best seller ever introduced, has no equal as a money maker; begins to bloom profusely in February. Strong plants from 2 1/2 in. pots, \$4.00 per 100.

WE ARE HEADQUARTERS. Best seller ever introduced, has no equal as a money maker; begins to bloom profusely in February. Strong plants from 2 1/2 in. pots, \$4.00 per 100.

WE ARE HEADQUARTERS. Best seller ever introduced, has no equal as a money maker; begins to bloom profusely in February. Strong plants from 2 1/2 in. pots, \$4.00 per 100.

WE ARE HEADQUARTERS. Best seller ever introduced, has no equal as a money maker; begins to bloom profusely in February. Strong plants from 2 1/2 in. pots, \$4.00 per 100.

25 of each for 40c. by mail. **SAMPLE ORDER** HERR'S Fine Coleus and Verbenas. See full ad. to 4th column.

**E. G. HILL & CO.,** Wholesale Florists, RICHMOND, INDIANA.

**CHRYSANTHEMUMS!** Strong rooted cuttings of some of the best true to name for \$2.00 per 100. \$3c. per doz.

**CHRYSANTHEMUMS,** Best standard commercial varieties, from pots. Mrs. H. Robinson, Philadelphia, Queen, E. Dillestone, Major Bonafant, Mrs. M. N. Johnson, Lady Playfair, Nemoto, Helen Woodcock, J. E. Lager. Cash with order.

**20 CHRYSANTHEMUMS VARIETIES** For \$1.00, Postage Paid.

**HARVEY B. SNOW,** Camden, New York.

**NEW Chrysanthemums**

**Our Descriptive Carnations TRADE LIST** has been mailed.

**Violets** If it has not been received THE ASKING will place it on your desk.

**Roses** **NATHAN SMITH & SON,** Adrian, Mich.

**THE COTTAGE GARDENS, Queens, L. I.** SPECIALISTS IN

**Carnations, Cannas, Chrysanthemums, Geraniums and Dahlias.** SEND FOR OUR PRICE LIST.

**Yellow Monarch.** Japanese. Blooms certificated at New York and Boston, October 7, 1896.

**DALLEDOUZE BROS.,** (Flatbush.) BROOKLYN, N. Y.

**NEW CHRYSANTHEMUMS GEO. S. HALB**

**DEFENDER.** Bright Dark Crimson, reflexed, does not show under side of petals. 3 1/2 ft. size, 9 inches stout stem, good foliage-up to \$5.00, easy to grow. Best Crimson variety, N. C. S. Certificate. 50c. each; \$5.00 per doz.; \$35.00 per 100.

**GEO. S. KAEB.** Early White, Oct. 2d. Slightly reflexed, 3ft. size, 6 to 7 inches stout stem, good foliage to color. We have grown this 3 years and find it best all around Early White we have seen. N. C. S. Certificate. A money maker for you. 35c. each; \$5.00 per doz.; \$35.00 per 100. Distribution March 1.

**Fisher & Ekas,** Toll Gate, Belair Ave., Baltimore, Md.

**CHRYSANTHEMUMS.** Stocks, Fisher & Ekas', Hill's, May's, Smith's and Spaulding's leading novelties for trade here. Also fine stock of Red, Girond, Chebeque, Clark Goodman, Glory of the Pacific, Solo Lady Gode, Win-Ling, Miss F. Perrin, Modesto, Pink Ivory, Ruby Eye, Alonzoet, Wm. Simpson, Yama, etc. etc. sturdy stock, grown old. Standard commercial varieties in quantity.

**CARNATIONS.** Flora Hill, Emma Woelher, Lily Dean, Maid Dear, Major Pines, Moresin, Mrs. Chas. H. Johnson, Mrs. Geo. M. Brand, Victor and others at trade prices. 10,000 Alaska, every cutting from soil, \$3.00 per 100; \$10.00 \$10 per doz.

**VERBENAS.** Rooted cuttings Sand Islands, Finest quality, \$1.00 per 100; \$5.00 per doz.

**VERBENAS.** Rooted cuttings Sand Islands, Finest quality, \$1.00 per 100; \$5.00 per doz.

**YOU WILL NEED MY NEW SEEDLING JAPANESE INVOURED CHRYSANTHEMUM**

**"CASC."** A distinct shade of bright garnet. Stem short and strong. The best selling dark colored variety. Thousands ever offered, either for cut flowers or pot plants.

**CALVIN S. GODDARD, Woodford, Maine.**

**CHOICE STRONG ROOTS, \$6 PER 100.** I am again ready to quote prices and book orders

**NOVELTIES AND STANDARDS** in great variety. Prices lower and stock better than ever. Try my leader—John Elitch.

**W. W. WILMORE,** Box 382, Denver, Colo.

**GERANIUMS.** 40 Leading Varieties. Fuchsin, 12 varieties; Flowering Begonias, 12 varieties; Calceolarias, 12 varieties; Salvia, nice plants, 1/2 inch pots, \$7.00 per 100.

**GERANIUMS.** 40 Leading Varieties. Fuchsin, 12 varieties; Flowering Begonias, 12 varieties; Calceolarias, 12 varieties; Salvia, nice plants, 1/2 inch pots, \$7.00 per 100.

**GREENE COUNTY FLORAL NURSERY,** White Hall, Md.

**100,000 ERBENAS.** THE CHOICEST VARIETIES IN CULTIVATION. Fine pot plants, \$2.50 per 100; \$20 per 1000. Rooted Cuttings, 75c. per 100; \$6.00 per 1000.

**J. L. DILLON, Bloomsburg, Pa.**

**WELL-KNOWN CUTTINGS**

That GROW and Give Satisfaction.

We have shipped thousands of Rooted Cuttings all through the Winter to every State, and have not had a single complaint. We Pack Secure and guarantee satisfaction. At hundred rates we ship prepaid.

**25,000 REX BEGONIAS,** young plants, well-established, from and sent. In 15 varieties, labeled, at \$1.50 per 100; \$12.50 per 1000.

**8,000 FUCHSIAS,** Black Prince, Mme. Van der Straus, Monaco, White and other equally as good sorts, labeled true, \$1.25 per 100; \$10.00 per 1000.

**10,000 FLOWERING BEGONIAS,** in 25 varieties. Argentea Gustavia, Alba, Marguerite, Metallica, Diademata, Bertha de Chateaufort, etc. \$1.50 per 100; \$10.00 per 1000.

**4,000 COLEUS,** 25 sorts, 75c. per 100; \$6.00 per 1000.

**WILL EXCHANGE** for small plants of Anemone Japonica, Yatsuki, Primula Obconica and Someno, Sinuata, Grammaton Louisa, Hydrocarea, Otaki, F. Hoag and Ramona Picta, Harry Climbing and Hybrid Perpetual, Rosa, Davilla Stria Fern, Chrysanthemum Scandens, Particosa and Rhompha Panacea, Hortic. etc. Acknowledgment ESTABLISHED 1866.

**A. B. DAVIS & SON,** (Near Washington, D. C.) Purcellville, Va.

**LARGEST AND FINEST FLOWERS** **ERBENAS** HEALTHY VIGOROUS STOCK

**BEST MAMMOTH,** rooted cuttings..... per 100, \$1.25; per 1000, \$10.00  
**OLDER MAMMOTH,** rooted cuttings..... per 100, \$1.00; per 1000, \$8.00  
**BEST MAMMOTH,** strong pot plants..... per 100, \$2.50; per 1000, \$20.00  
**OLDER MAMMOTH,** strong pot plants..... per 100, \$2.00; per 1000, \$15.00

**STRONG ROOTED CUTTINGS.** Ageratum, blue and white..... \$1.25 per 100, \$10.00 per 1000  
Celosia, all landing sorts..... 1.00 8.00  
Fuchsin, double and single..... 2.00 16.00  
Peweeew, Dwarf Gem..... 2.00 16.00  
Hellebore, light and dark..... 1.25 10.00  
Moon Flower, true and white..... 2.00 15.00  
Salvia, Splendens and Wm. Bednan 1.25 10.00

**Stock in Line of Leading Varieties.** Coleus, fine clean cuttings, red, yellow and select best tangy, 50c. per 100; \$5.00 per 1000. Transplanted rocky plants, 50c. per 100; \$5.00 per 1000.  
Verbenas, Mammoth, fine colors, 75c. per 100; \$7.50 per 1000.  
25,000 Alaska, every cutting from soil, \$3.00 per 100; \$30.00 per 1000.  
25,000 Alaska, every cutting from soil, \$3.00 per 100; \$30.00 per 1000.  
Geraniums, for pot and bedding, \$1.50 per 100.  
Astragalus, large blue, most desirable, \$1.50 per 100.  
Hellebore, Salvia, Single Fuchsin, 1 1/2 inch pots, \$1.00 per 100; \$10.00 per 1000.  
And blue \$1.50 per 100. Cash with order. Write for full prices on larger quantities.

**D. K. HERR, Rider Avenue, Lancaster, Pa.**

**THE CHOICEST VARIETIES IN CULTIVATION.** Rooted Cuttings, 75c. per 100; \$6.00 per 1000.

**\* NO RUST OR MILDEW \*** Packed light and satisfaction guaranteed. Send for circular. We are the largest growers of Verbenas in the country. Our plants cannot be surpassed.

**J. L. DILLON, Bloomsburg, Pa.**

**5,000 GERANIUMS,** single and double, 25 sorts, Brunati, Octopus, La Favorite, etc. \$1.50 per 100; \$10.00 per 1000.

**20,000 BIRDY TREES,** Her Majesty, Juliette, Brunetta, May, Gerardo, Marie of Carlisle, Laura Wilmer and Snow. \$1.00 per 100; \$10.00 per 1000. Write for full price.

**4,000 EMPRESS OF CHINA,** the new ever-blooming bright apple blossom pink Climbing Rose, \$1.50 per 100; \$13.00 per 1000.

**4,000 BELIETOPE,** 10 best sorts, \$1.00 per 100.

**15,000 MADEIRA VINE ROOTS,** \$1.00 per 100; \$5.00 per 1000.

**HEALTHY VIGOROUS STOCK**

**ERBENAS**

**MISCELLANEOUS PLANTS.** Geraniums, fragrant, from 2 1/2 in. pots, \$1.00 per 100; \$10.00 per 1000.  
Lantana, 12 Red varieties, from 2 1/2 in. pots..... 400  
Pinks, all colors..... 400  
2 1/2 in. pots..... 600  
Famela, blue, strong..... 400  
Vines Variegata and Elegans 4 in. pots..... 400  
Vivanda, blue, strong..... 400  
Cannas, Dormant Tubers. Send for full price list, \$1.00 per 100.

**CHRYSANTHEMUMS**

**ROOTED CUTTINGS. POTTED PLANTS.** Aida Spalding, Mme. Fred. Bergmann, Helen Woodcock, Elmor D. Smith, Harry Man, Okubo, Oryzopsis, M. W. Johnson, Jeanie Palmer, M. Richard Dean, Gladys Spaulding, Mrs. Henry Robinson, Mrs. Nemoto, Pink Ivory, Mrs. Wm. Simpson, Niveus, Portia Palmer, Mrs. S. Humphreys, J. E. Lager, J. H. Troy, Harry Day, Mrs. J. S. Crane, Frank Thompson, Dorothy Toler, J. H. Starin, Fitcher & Manda, etc. Write for full price list, \$1.00 per 100.

**STRONG ROOTED CUTTINGS.** Ageratum, blue and white..... \$1.25 per 100, \$10.00 per 1000  
Celosia, all landing sorts..... 1.00 8.00  
Fuchsin, double and single..... 2.00 16.00  
Peweeew, Dwarf Gem..... 2.00 16.00  
Hellebore, light and dark..... 1.25 10.00  
Moon Flower, true and white..... 2.00 15.00  
Salvia, Splendens and Wm. Bednan 1.25 10.00

**WOOD BROS., Fishkill, N. Y.**

**WILL EXCHANGE** for small plants of Anemone Japonica, Yatsuki, Primula Obconica and Someno, Sinuata, Grammaton Louisa, Hydrocarea, Otaki, F. Hoag and Ramona Picta, Harry Climbing and Hybrid Perpetual, Rosa, Davilla Stria Fern, Chrysanthemum Scandens, Particosa and Rhompha Panacea, Hortic. etc. Acknowledgment ESTABLISHED 1866.

## LAVENDERS

### STANDARDS

Height of stems 3/4 to 1 foot	Each	\$1.00
Diameter of heads, 4 feet	.....	2.50
..... 5 feet	.....	3.50
..... 6 feet	.....	4.50
..... 7 feet	.....	5.50
..... 8 feet	.....	6.50
..... 9 feet	.....	7.50
..... 10 feet	.....	8.50
..... 11 feet	.....	9.50
..... 12 feet	.....	10.50
..... 13 feet	.....	11.50
..... 14 feet	.....	12.50
..... 15 feet	.....	13.50
..... 16 feet	.....	14.50
..... 17 feet	.....	15.50
..... 18 feet	.....	16.50
..... 19 feet	.....	17.50
..... 20 feet	.....	18.50

The Best in Trade. Packing 75c. ea.  
Cash with order, no preferences.

**DE SMET BROS., Purvisarven,**  
CHENT, BELGIUM.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

# WATER LILIES

## EGYPTIAN LOTUS and VICTORIA REGIA.

We are specialists in this line and carry full line of aquatic plants suitable for all purposes.

Our stock is unequalled in the United States; see our quarterly trade list and general catalogue. Estimates furnished.

**HENRY A. DREER, 714 Chestnut Street, PHILADELPHIA.**

Baltimore.

The Market. "The glut in violets did not occur until last week, when Saturday last they were sold for 15c per 100, the price being the double yesterday. No single ones are grown here to any extent. Carnations are still selling out. There was a slight overproduction of whites, but the finer colored ones were not overplentiful. Nasturtium roses are not over-plentiful. Nasturtium are going to waste; this is also the case with callas.

The Club. The annual election took place at last meeting. Our venerable colleague, James Pentland, received the highest honor, and was elected president. No doubt the position of president will be well filled this year. Mr. Moss was elected secretary, Mr. Hinton was chosen ready to serve. His previous record as president will enable him to act well in lines of duty. Mr. Binder as recording, and Mr. Binder as financial secretary, represent the private gardeners' interest. William B. Sands is officiating for the eleventh year as treasurer; none better. John Wagner was elected librarian.

At the adjournment the boys replied to the banquet hall, where 45 out of the 135 members of the Club participated in the feast. As usual, Mr. Pentland was interested in that capacity. The brethren told some interesting stories and made some beautiful and funny remarks, and at a late hour we dispersed.

Carroll's Meeting. Monday, March 23, has been selected for our next exhibition. Several novelties. All introducers are kindly requested to send their flowers for exhibition, so that our growers may have an opportunity to see the quality of the novelties that are being introduced. Anyone wishing to send flowers for that day should address them to Edwin A. Seidewitz, 36 West Lexington street, Baltimore, Md.

# TEES GRAPEVINES

Small Fruits.  
All kind and new varieties. Extra quality Warran-  
tied. **Lowest prices. Cash on delivery.** Free  
T. S. HUBBARD CO., EDELDON, N. Y.

## F. & F. Nurseries

SPRINGFIELD, N. J.  
State, MILBURN, N. J.  
D. & W. R. H.

We grow and keep in stock the most complete assortment of hardy nursery stock. Catalogue free.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

## PEACH TREES

free from scab of blossom by the hundred or thousand.  
Write for catalogue.  
List, various varieties, sizes and number of each, also other stock at low rates.

### W. P. BRINTON,

Christiana, Pa.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

## VEGETABLE PLANTS

**LETTUCE**, Big Boston and Grand Rapids, 10c per 100; 40c per 1000.  
**CABBAGE**, Jersey Wakefield and other varieties, 10c per 100; 30c per 1000.  
**TOMATOES**, New early, small plants for transplanting, 25c per 100; Royal Red, 30c per 100; 10c per 1000.  
**ASPERGUS, PEPPER and CUCUMBER PLANTS**, Price list on application.  
All with order, please.

**R. VINCENT JR. & SON, White Marsh, Md.**

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

## GOOD STOCK

Per 100

AGERATUM, blue, 2 1/2 in. pots	3 50
ACHYRANTHUS in three varieties, 3 1/2 in. pots	3 00
BIGNONIA, good assortment, 4 in. pots	3 50
..... 2 1/2 in. pots	3 00
CANVAS, 4 1/2 in. pots	2 50
..... Alpinese Bouvier	3 00
..... Charles Henderson	2 00
..... Queen Charlotte	2 50
..... Mane Crozy	2 00
..... Queen Charlotte	2 50

Prices of newer varieties on application.

## 50,000 PEACH

to offer at lowest prices.

**C. L. LONGSDORF, Floradale, Pa.**

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

100,000 Privet, 1 1/2 to 1 1/2.

20,000 AMPELOPSIS VEITCHII.

12 to 16 in., 4c; 2 ft., 5c; 3 ft., 8 1/2c; 7 1/2c.

Heading Age Fruit Trees, Prices on Application.

JAPAN MAPLES, 1 1/2 to 2 ft., 30c; 2 to 3 ft., 40c; 3 to 4 ft., 50c.

Tree Paenonia, 30 varieties, 3 years, 70c.  
Bambusa, 10 new varieties, 40c.  
Hardy Phlox, in tree clusters, 5c.  
Latania Borbonica, 3-inch pots, 5c.  
Hydrangea Otisaka, \$1.00 per 100.  
Lilium Hartii, in bud for Easter, etc., at the bud.

THE ELIZABETH NURSERY CO., ELIZABETH, N. J.  
WHEN WRITING MENTION THE FLORIST'S EXCHANGE

## ROOTED CUTTINGS.

Let us price your wants.

Trade List Free on Application.

CASH with order from unknown customers or C. O. D.

Amounts of 50c or more amounting to \$5.00 and over F. O. B., N. Y. City.

## SEAWANAKA GREENHOUSES, Oyster Bay, Queens Co., N. Y.

J. A. O. CLARK, Supt. P. O. BOX 34 W. M. L. SWAN, Proprietor.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

## AZALEA INDICA

For Easter forcing.

We offer a very fine lot of Azaleas, comprising the most distinct and best varieties in cultivation, embracing all shades of crimson, white, pink and rose color. They are shapely specimens, well "headed" double and single flowered and will make splendid plants for Easter decoration. It is almost impossible to ship Azaleas when in bloom and have them arrive in good condition, hence the necessity of procuring them in advance before the buds open.

These Azaleas have been grown especially for us by the largest grower in Belgium, and the greatest care has been taken to ensure plants well set with buds, carefully selected varieties that will be certain to please, and compact, shapely plants. By such arrangement we are enabled to offer this grand stock at the following very low rates.

Size,	Per doz.	Per 100.
3 to 11 inch heads, established plants, in pots	..... \$5.00	\$40 00
..... 11 to 12 "	..... " 50	55 00
..... 13 to 16 "	..... " 85	70 00

6 sold at dozen rates, 25 at 100 rates.

**PETER HENDERSON & CO.,**  
35 CORTLANDT STREET, NEW YORK.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

John Cook has a white sport of Maman Ockel. It has all the good qualities of the original, with the exception that it is a pure white color. It has a good growth and is mild-sprung.

Jettage. Harry Ekas is well again. He has a white sport of Philadelphia, with in town this week.

EDWIN A. SEIDEWITZ.

Dunkirk, Ind.

The Dunkirk Greenhouses, owned by James R. Johnston, and comprising 6,000 feet of glass, were badly damaged by fire on the night of March 1st. The stock, consisting of one house of carnations, one of roses, one of phloxes, etc., total loss to the plant will be rebuilt. Loss is estimated at \$2,000. It is supposed to have been started by tramps.

## NEW YORK CITY Strawberry

Finest flavor, large and solid.

2-3 inch specimens, 100 heads  
Elmira, Augustus House,  
3000  
Greenhouses, Peach, Japan  
..... 100  
Peach seed, Canton Free, 5c  
HARRISON'S, 1000  
WHEN WRITING MENTION THE FLORIST'S EXCHANGE

## "TOP OF THE POT"

Both in Size and Quality.

The following "Specialties" now ready:

Each	Per 100
Olea Fragrans, stocky and well	12-15 \$12 00
..... 16-20 "	15 00
Oranges and Lemons, best vars., 10-12	20 00
..... 13-15 "	25 00
Oranges, Otisaka, bushy	8-10 8 00
..... 11-12 "	12 00
Marcebal Nil Roesa, stat. 10-12	15 00
..... gyno, banded on Macetti, 3-4	15 00
..... 4-5 "	10 00
Marcebal Nil Roesa, stragg. 18-24	12 00
..... 18-24 "	15 00
Sport, Fanfic and Mignoneite	7 00
..... Rose, on cwn roots, \$6.00 per 1000	12 00
Ficus Finckela, 4 in. pots	8-10 20 00
..... 11-12 "	25 00
Hiotia Aurora, 4 in. pots	8-10 20 00
..... 11-12 "	25 00
Latania Borbonica, 4 in. pots	12-14 20 00
..... 5-6 "	15 00
Pandanus Utilis, 4 in. pots	12-14 20 00
..... 5-6 "	15 00
..... 7-8 "	18 00
..... 9-10 "	20 00
..... 11-12 "	25 00
..... 13-14 "	30 00
..... 15-16 "	35 00
..... 17-18 "	40 00
..... 19-20 "	45 00
..... 21-22 "	50 00
..... 23-24 "	55 00
..... 25-26 "	60 00
..... 27-28 "	65 00
..... 29-30 "	70 00
..... 31-32 "	75 00
..... 33-34 "	80 00
..... 35-36 "	85 00
..... 37-38 "	90 00
..... 39-40 "	95 00
..... 41-42 "	100 00

Phlox's Ecolonia and Leocania, 12 00  
Well formed, 4 in. pots, 12-15 25 00  
Phlox's Spiritus, very fine, 5 in. pots, 40 00  
Packing at cost, 50c per 100, 50c per 1000  
Less than 50 of sort. Seed for trade. Address  
P. J. BERKMANS, Augusta, Ga.  
WHEN WRITING MENTION THE FLORIST'S EXCHANGE



AZALEA INDICA.

STRONG PLANTS OF LILIUM HARRISI

Grown from 2 to 3 inch bulbs, buds about to show. ...

GERANIUMS. Mostly double, extra fine bedding varieties, like ...

Geo. H. Benedict, Yorkville, N. Y. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

NYPHEA ODORATA GIGANTEA,

50c. per doz.; \$3.00 per 100.

Liantia and Dwarf. Double Sweet Alyssum ...

DWARF BLUE AGERATUM, \$3.00 per 100

Chrysanthemum, Roses, and other plants. Price list on application, cash with order.

R. VINCENT, Jr. & SON, White Marsh, Md. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

GLEMATIS

Both dormant and in pot; good plants, \$3.50 per doz.; \$30.00 per 100.

SMILAX Strong plants from last year, 5/8 in. pots, \$1.50 per 100.

HERBACEOUS PEONY Ten named kinds, \$3.00 each, \$30.00 per 100.

F. F. LAUER, Bloomington, Ill. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

IF YOU IMPORT ANY

FLORIST OR NURSERY STOCK,

Don't forget to ask for Van Peltosen and Keeney's (Dutch and Italian) price list.

LOUIS VAN KOERT, General Agent, 295 Bowler's Street, St. Boston, Pa. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

FOR EASTER BLOOMING.

Harrisii Lilia, strong, short plants, foliage per pair, 6c a bud.

Azalea Indica, 12 to 16 inch, 65c each; \$7.00 per dozen.

Azalea Mollis, large plants, 60c each; \$1.20 per dozen.

Clematis, 4 in. large plants, \$3.00 per 100.

Calluna, 100 per 100; 100 per 100; \$2.00 per 100.

Calluna Violet Racers, \$1.00 per 100; \$5.00 per 1000.

WHITTON & SONS.

Wholesale Florists, City and Grand Sts., Wilkes, N. Y. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

GOOD STOCK AT LOW PRICE.

Case Jasmanum, Germania Florida, strong and stocky, 7 to 13 inches, 50c a doz.; \$3.00 to 100; \$25.00 per 1000.

California Privet, 3 to 4 ft., \$2.00 to 100; 2 to 3 ft., \$1.00 to 100; 1 to 2 ft., \$1.00 to 100.

Arbor Vitae Compacta, 1 to 1 1/2 ft., \$5.00 a 100; 3 to 1000; \$1.00 per 100.

JOHN MONKHOUSE, Caddo Nursery, Jewetta, La. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

SURPLUS STOCK

Berberis vulgaris 2 to 3 1/2 ft. \$5.00 per 100; \$1.00 per 1000.

Chrysanthemi 1 1/2 to 2 ft. \$2.00 per 100; \$1.00 per 1000.

Clematis 4 to 5 ft. \$3.00 per 100; \$1.50 per 1000.

European Beech 4 to 5 ft. \$2.00 per 100; \$1.00 per 1000.

Purple Beech 4 to 5 ft. \$2.00 per 100; \$1.00 per 1000.

Prunella 4 to 5 ft. \$2.00 per 100; \$1.00 per 1000.

Car. Leaved Elder 3 to 4 ft. \$2.00 per 100; \$1.00 per 1000.

Ulmus Americanus 3 to 4 ft. \$2.00 per 100; \$1.00 per 1000.

Viburnum Opulus 3 to 4 ft. \$2.00 per 100; \$1.00 per 1000.

T. R. WATSON, Old Colony Nursery, Plymouth, Mass. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

STRAWBERRY PLANTS.

Strong, Young, Healthy Plants, Securely Packed. Downing, Sharpless, Jessie, Haverland, Union, Spindell, Kentucky, Meek's Early, Middle-land, Van Deman, Beckler, Greenville, Dayton, Beverly, Lady Thompson, Tennessee Prolific, Tulpe, Enhance, Sumner's Gem, Belle, Princeton Chief—50 cts. per 100; \$2.00 per 1000.

Marshall Parkers' Queen—50 cts. per 100; \$2.00 per 1000.

Michigan Early—50 cts. per 100; \$1.50 per 1000.

Special Prices Given on Large Orders.

No. 1. HUBBARD'S "HONEYBERRY"—75 cts. per 100; \$5.00 per 1000.

Golden Queen—\$1.00 per 100; \$7.00 per 1000.

For other Fruit Trees, Small Fruit Plants, etc., send for Price List.

CHAS. BLACK, Hightstown, N. J. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Dreer's Special Offer. FOR MARCH.

AZALEAS FOR EASTER.



We are this season carrying an unusually large stock of Azaleas in the best varieties and in fine condition for Easter. As these plants can be shipped more safely when in bud, we wish to impress the importance of early orders. We will not be responsible for injuries arising from late shipment when the buds are developed. 4-inch pots, with fine bushy crowns, 10 to 15 inches in diameter, will set with buds, \$5.00 per doz.; \$40.00 per 100. 6-inch pots, fine plants, will set, 12 to 15 inches in diameter, \$8.00 per doz.; \$70.00 per 100. Specimen plants, \$5.00, \$2.50 and \$3.00 each.

TUBEROUS ROOTED GERANIAS.

Now is the time to plant for early flowering, the ground in the shade has been sent out by us for several seasons, the best that can be procured.

WE OFFER

- Singles in choice mixture, \$2.50 per 100; \$30.00 per 1,000. Separate colors, scarlet, crimson, white, yellow, orange and pink, \$2.00 per 100; \$25.00 per 1,000. Doubles in choice mixture, 1.00 per doz.; 7.00 per 100. Separate colors as scarlet, white, rose and yellow, 1.25 per doz.; 8.00 per 100.

GLOXINIAS.

folia type in fine mixture 1.00 400 100 3.00 1,000

SEASONABLE HERBACEOUS STOCK.

- Antennaria Tricolora, 1 year old clumps, \$1.00 per doz.; \$7.00 per 100. Aquilegia Crestata and Chrysantha, 1 year old plants, 75 cts. each; \$7.50 per 100. Aster Grandiflorus, finest of all the hardy varieties, with large violet flowers, 75 cts. each; \$7.50 per 100. Bellidiflorum Primroseum, 1 year field grown plants, 50 cts. each; \$5.00 per 100. Coropis Lanceolata, strong 1 year old clumps, 1.00 100 8.00 1000. Elymus Scirpoides, strong 1 year old clumps, 75 75 6.00 750. Galium, 75 75 6.00 750. Geranium, 75 75 6.00 750. Clematis Davidiana, strong 3-inch pots, 75 75 6.00 750. Heuchera sanguinea, strong 3-inch pots, 75 75 6.00 750. Dianthus Spectabilis Starfishes, strong clumps, 75 75 6.00 750. Dielstra Specabilis, strong clumps, 75 75 6.00 750. Digitalis (Foxglove), strong clumps, 75 75 6.00 750. Doronicum Excelsum, strong clumps, 1.00 100 8.00 1000. Epimedium Macranthum, 1 year old plants, 75 75 6.00 750. Funkia Japonica Alba, 1 year old plants, 1.00 100 8.00 1000. Galium, 75 75 6.00 750. Gaillardia Grandiflora, 1 year old plants, 1.00 100 8.00 1000. Helopsis Picturata, 1 year old clumps, 75 75 6.00 750. Heuchera sanguinea, strong 3-inch pots, 75 75 6.00 750. Hesperocallis, B. pl. Double Orange Lily, 75 75 6.00 750. Helianthus, 75 75 6.00 750. Japanese Iris, 2 ft. in varieties, 1.50 100 12.00 1000. Japanese Iris, 3 ft. in varieties, 1.50 100 12.00 1000. Helianthus Maximiliana, strong, 1.00 100 8.00 1000. Hypericum, 75 75 6.00 750. Lysichiton perfoliatus Pileusinus, 1 year plants, 1.00 100 8.00 1000. Lobelia cardinalis, 75 75 6.00 750. Iberis Gibraltarica, hardy Candytuft, 2 1/2 inch pots, 60 60 4.00 500. Iberis Gibraltarica, 2 1/2 inch pots, 60 60 4.00 500. Monarda Didyma, chimne, 75 75 6.00 750. Onoclea Fraseri and Splendens, 2 1/2 inch pots, 30 30 2.00 300. Lobelia cardinalis, 75 75 6.00 750. Platycodon Grandiflorum, 1 year old clumps, 75 75 6.00 750. Hardy Pine, in variety, Mrs. Stinkins, early, 75 75 6.00 750. Hardy Pinus, 25 varieties, 2 1/2 inch pots, 60 60 4.00 500. Primula Rosea, 60 60 4.00 500. Scilla Acaulis, 60 60 4.00 500. Statice Acaulis Sea Pink, clumps, 75 75 6.00 750. Tritonium Avaria Grandiflora, strong 2 year old, 1.25 100 10.00 1000.

HARDY VINES AND CREEPERS.

- Ampelopsis Vetchii, strong pot-crowns, 3-inch pots, \$1.00 per doz.; \$7.00 per 100; \$60.00 per 1000. Clematis, Hardy Hybrids, all leading varieties, 2 year old, arches JACKMANN, Henry, bunches of 100, 100, \$2.75 per doz.; \$20.00 per 100. Clematis Paniculata, strong 3-inch pots, \$6.75 per doz.; \$47.00 per 100; \$50.00 per 1,000. Clematis Coccinea and Crispi, strong 2 year old, \$1.00 per doz.; \$7.00 per 100.

For a full line of General Florists' Stock and especially Decorative Plants for which we are headquarters, see our Current Trade List, new issue of which will be ready about March 25th.

HENRY A. DREER, 714 Chestnut St., Phila.

JAPAN IVY

Strong 2-year field-grown, \$4.00 per 100. Barberry at a Bargain. NEW YORK: E. S. PETERSON, 80 Nassau St., N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

JAPANESE VAR. HOP.

The best vine for rapid growing; beats Coburn, and is much prettier; 3/8-inch, \$4.00 per 100. Put into 4-inch pots, will make nice selling plants.

Very fragrant White Lantana, 2 1/2-inch, \$6.00 per 100. CASH ONLY.

A. J. BINLEY, GLENS FALLS, N. Y. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

P. DUVERKERK,

1123 Summit Ave., Jersey City, N. J.

Just received from our Holland

Nurseries:

RHOODENDRONS, AZALEAS,

SPIREA JAPONICA, LILIUM SPECIOSUM,

PAEONIES, BLEEDING HEART,

POT GROWN LILACS, HYDRANGEA IN SORTS.

CLEMATIS and H. P. ROSES, in the best sort.

PRICES MODERATE.

"WHEN WRITING MENTION THE FLORISTS' EXCHANGE"

GLENWOOD NURSERIES

SPRING OF '97.

10,000 Ampelopsis Vetchii. Grown in 3-in pots, \$10 per 100.

5,000 Clematis Paniculata. From \$5 to 10 per 100.

5,000 Rosa Wichramana 1, 2 and 3 years old \$10 per 100.

10,000 Hesperocallis in variety. \$60 per 1000.

10,000 Dahlias, undivided, field-grown roots, none and color, \$1 per 100; \$10 per 1000.

30,000 California Pansies, 2 to 4 feet. Samples and prices on application.

Trade List for Spring containing full assortment of Trees, Shrubs, etc., is free ready-sent for on request. Correspondence solicited.

THE WM. H. MOON CO., Morrisville, Pa. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

FOR EASTER

FORCE FLOWERING SHRUBS:

Lilacs, Staphyless,

Deutzias, Snowballs,

Kalmias,

ROSES, H.P. and others.

Tree-roses, Clematis,

Paeonias, Hydrangeas,

Hardy Azaleas.

L. C. BOBBINK, Rutherford, N. J. Branch Horticultural Co., Boskoop, Holland.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WE MAKE A SPECIALTY OF GROWING

A. W. Smith's Hybrid Moonflowers

(Thomasia Noctiflora).

The above are strictly the best Moonflowers in cultivation; blooming from 30 to 45 days earlier than the old variety; producing four or five different shaped blooms and blooms from five to seven inches in diameter. The flowers are pure white.

Plants for stock now ready to sell from 24 inch plants at \$1.00 per doz.; \$7.00 per 100. No less than 50 plants at 100 rates. Orders for May will be located now.

We also have a lot of Chrysanths, choice varieties; blooming in 4 in. pots, which we sell plants for Easter, at 15 cts. per 100.

Also about 75 Liliun Harrisii, in 4 in. pots, showing buds.

Fine Geraniums, 4 in. pots, all colors, mixed 65 cts. per 100. We also carry on an immense stock of Easter Plants, in 6 in. pots, which we sell cheap for Easter; prices on application.

Hyacinths already budded (separate colors or mixed), only 25 cts. per 100.

CASH WITH ORDER.

GODFREY ASCHMANN,

102 Ontario St., Rising Sun, Philadelphia, Pa.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

J. K. ALLEN, Wholesale Commission Dealer in CUT FLOWERS, 57 W. 28th St., New York.

W. S. ALLEN, 17 West 28th St., New York. Correspondence Solicited.

FITZGERALD & HAMMOND, Wholesale Commission Dealers in CUT FLOWERS, 115 West 30th Street, NEW YORK.

FORD BROS. WHOLESALE FLORISTS, 111 West 30th Street, NEW YORK.

WM. H. CUNTER, Wholesale Florist, VIOLETS AND CARNATIONS A SPECIALTY. 30 West 29th St., New York.

MICHAEL A. HART, Wholesale & Commission Florist, 118 W. 40th St., New York.

H. A. HOFFMANN, Wholesale Florist, 54 W. 28th St., NEW YORK.

EDWARD C. HORAN, Wholesale Florist, No. 34 W. 29th St., New York.

JULIUS LANG, Wholesale Florist, 53 WEST 30th ST.

FRANK HILLMAN, Wholesale Commission Dealer in Cut Flowers, 408 East 34th St., New York City.

W. E. LYNCH, Wholesale Dealer in Cut Flowers. Send us your name for our Semi-Monthly Price List. We are Headquarters for FINEST CARNATIONS and ROSES, VIOLETS, VALLEY, ROMANS, SMILAX, ADIANTUM. 19-21 RANDOLPH ST., CHICAGO.

BASSETT & WASHBURN, Grovers and Wholesale Dealers in CUT FLOWERS. We grow the finest of American Beauties and other Roses. Also choice selected Valley all the year round. Carnations, Smilax, Adiantum, etc. 88, 90, 92 Wabash Avenue, CHICAGO, Ill.

WHOLESALE PRICES

Table with columns: NAME AND VARIETY, NEW YORK, BOSTON, PHILADELPHIA, CINCINNATI, ST. LOUIS. Lists various flower types and prices.

For Prices of Fancy and Special Stock see our Correspondence Columns. Prices are for quantities of one hundred unless otherwise noted.

REINBERG BROS., Wholesale Growers of Cut Flowers. 500,000 Feet of Glass. We can fill all orders on short notice with all leading varieties of ROSES and CARNATIONS. SALESROOM 51 Wabash Avenue, CHICAGO, Ill.

SAMUELS PENNOCK, WHOLESALE FLORIST. WELL FLOWERED MIGNONETTE Long Spikes Extra Good \$1.50 per 100. MYOSOTIS \$1.50 per 100. 1612-1614 Barker St. Philadelphla, Pa.

Illinois Cut Flower Co., J. B. DEAMUD, Manager. WHOLESALE COMMISSION FLORISTS, 59 Wabash Ave., Chicago. Consignments Solicited. KENNIGOTT BROS. COMPANY, Wholesale Cut Flower Company, 88 Wabash Avenue, CHICAGO, ILL. WIRE WORK A SPECIALTY.

THE NEW YORK CUT FLOWER CO. 119-121 West 23d Street, 112-114 West 24th Street, Telephone 733, 12th St., NEW YORK. THE LARGEST DEALERS IN CUT FLOWERS IN THE WORLD.

PURDY & BLAUVELT, Wholesale and Commission Dealers in CUT FLOWERS. MADEIRA FERN FIELDS A SPECIALTY. 57 WEST 30th ST., NEW YORK.

A. & F. ROLKER, Wholesale Dealers in CUT FLOWERS. 53 West 28th St. Telephone 2373 38th St., NEW YORK.

W. F. SHERIDAN, Wholesale Commission Dealer in CUT FLOWERS. 39 West 28th St., New York. Telephone, 24-38th St. PRICE LIST SENT ON APPLICATION.

FRANK H. TRAUTZ, CHARLES SCHENCK, THOMAS TRANDY & SCHENCK, Wholesale Florists, 38 W. 28th St. and CUT FLOWER EXCHANGE. NEW YORK. Telephone 931-18th St.

JOHN YOUNG, Wholesale Florist, 51 WEST 28th ST., NEW YORK.

WM. J. BAKER, Wholesale Florist, 1432 So. Penn Square, Philadelphia, Pa.

DUMONT & CO., WHOLESALE FLORISTS. CARNATIONS A SPECIALTY. No. 1305 Filbert St., Philadelphia.

EDWARD REID, Wholesale Florist. FINEST VARIETIES. Roses, Carnations, Violets. No. 40 South Sixteenth Street, Philadelphia.

CHARLES W. MCKELLAR, 59 Wabash Ave., CHICAGO. Wholesale Commission Florist. All consignments and orders entrusted to our care will be given prompt and careful attention. Ed. F. Winterrow, Mgr.

**Wholesale Florists** **JOBBERS IN**  
 ALWAYS ON HAND:  
 GARDENERS' SUPPLIES.  
 F. W. CUTLER, FLORIST'S SUPPLIES.

**FLORISTS' VASES.**  
 Horticultural Artisans.  
 64 HAWLEY STREET, - BOSTON.

**GEORGE MULLEN,**  
 Wholesale and Commission Dealer in  
**Cut Flowers.**  
 Best stock and lowest prices. Orders by mail, express, freight, or telegraph promptly attended to.  
 GEORGE MULLEN 18 Chapman Place, Boston.

**GEO. A. SUTHERLAND,**  
 SUCCESSOR TO WM. J. STEWART,  
**CUT FLOWERS and FLORISTS' SUPPLIES**  
**WHOLESALE.**  
 67 Bromfield St., Boston, Mass.

**City Hall Cut Flower Market**  
**WELCH BROS., Props.**  
 Regular Consigners Given Space Free of Charge. Space let to growers wishing to sell their own goods.  
 Flowers Shipped to all Points.  
**...SEND FOR PRICE LIST...**

**W. ELLISON,**  
**Wholesale Cut Flowers,**  
 Florist Supplies. Wire Designs.  
 2744 Franklin Ave., ST. LOUIS, MO.

**CHAS. G. FLECKENSTEIN,**  
**Wholesale Flowers,**  
 1323 Pine Street,  
 ... ST. LOUIS, MO.

**C. A. KUEHN,**  
 Successor to ELLISON & KUEHN,  
**WHOLESALE FLORIST,**  
 1122 Pine St., St. Louis, Mo.  
 A COMPLETE LINE OF WIRE DESIGNS.

**C. W. WORS,**  
**Wholesale Florist,**  
 313 N. LEFFINGWELL AVENUE,  
 ST. LOUIS, MO.  
**FINE ROSIES** - Shipped carefully to all parts of the country.

**HEADQUARTERS**  
 In Western New York.  
**TRY US**  
**ROSES, CARNATIONS,**  
**AND VIOLETS**  
**WM. F. KASTING** Wholesale Commission Florist.  
 495 Washington Street,  
 BUFFALO, N. Y.

**ROGERS PARK FLORAL CO.,**  
**Wholesale Growers of Cut Flowers**  
 OFFICE AND BALEHOUSE,  
 41 WABASH AVE., CHICAGO.  
 Headquarters for AMERICAN BLENDS.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**FLORISTS' SUPPLIES**  
 75 Cts. per 100 lbs.  
 Retail weight about 400 lbs.  
 THE BEST AND STURVEST BUT BE FRESH,  
 HOT DRESSED BY CUTLER. You can get the best of  
 H. A. Boothby, 38 Madison Ave., N. Y.

**ASPARAGUS PALMS, CASSIA UNUS,**  
**W. H. ELLIOTT,**  
 - Brighton, Mass.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

*Tiffin, O.*  
 If the present improved business conditions are to serve as a basis for the near future is certainly full of promise. Louis Ulrich is by no means an enthusiast, and hence his report, that the past few months has been the best in point of sales, collections, etc., that he had experienced for the longest while, may be regarded as significant. Encouraged by the outlook, Mr. Ulrich contemplates several improvements. He intends extending one of his cold-storage houses and may erect a handsome conservatory for his palms and decorative plants. One of the finest and most elaborate writing decorations ever accepted in Tiffin was that recently put up at the Trinity Protestant Episcopal Church, Mr. Ulrich being master of ceremonies. The imposing edifice was profusely and handsomely decorated, the flowers being chiefly pink roses. Palms, ferns and Harzli plants were used with splendid effect. Huge vases, holding long-stemmed roses, were placed on the altar, in the pulpit and in the baptismal font, while a bunch of pink carnations, tied with pink ribbon, adorned each seat in the auditorium. Over the center aisle, from the four large chandeliers, strings of pink and white plumage was suspended, the price for the carnation bouquets, and making a box of green and pink, and white for the bridal party passed. **INTERESTANT.**

*Grand Rapids, Mich.*  
 The members of the Florists' Club were the guests of George Hancock & Son, Grand Haven, on March 3. A pleasant time was spent in looking through the greenhouses, after which the guests were escorted to Ver Kuy's parlors, where they were served a sumptuous banquet by the Ladies' Society of the Methodist church. After the supper the Club returned to Mr. Hancock's home and here their session, which was a rose meeting. Crabb & Hunter had on exhibition Belle Stebbins, La France, Meteor and Bridesmaid. Henry Smith showed samples of Bridesmaid, Meteor, Mrs. Weston, Kalmia, La France and Souvenir de Woodstock, and the Grand Rapids Floral Company contributed Meteor and Bridesmaid roses and a few choice carnations. William Cunningham read a paper on the "Tea Rose." At the next meeting, to be held at the Eagle Hotel on March 16, it was decided to have a discussion on "Spring Bulbs." J. Van Schelle will prepare a paper on the topic. Thanks were extended to Mr. Hancock and his son James for the delightful entertainment. Mrs. J. Hancock was most courteous in her attentions to the ladies of the party, and the day was happily and profitably spent.

*Toronto.*  
 Business has continued good during the last week; a great many parties, etc. were held, and quantities of cut flowers were used. The rose crop has been plentiful, fog bulbs however are more abundant, but prices are generally very low, fine spikes of Dutch lilyacinths, selling for 60c. per dozen; tulips, from \$1.50 to \$3 per 100. Daybreak carnations are still scarce. Violets are very plentiful; there is no settled price for these now, each grower having a different figure, and all being low. There has been a better demand for lilacs, considerable funeral work creating this. Cattleya blooms are very well, but not many are offered just now. Trade is likely to be considerably quieter now, but in cut flowers always sell slowly in this city during Lent, but nice flowering plants generally go better, especially if the weather is warm. Messrs. John A. Mery, Dent Ammus, F. McMahon, H. Hall, and E. Daldouze called at J. H. Dunlop's place on their way home from Cincinnati.

**THOS. MANTON,**  
*Hackensack, N. J.*  
 A fire at the Red Towers greenhouses destroyed a portion of the two buildings devoted to palms. The fire originated from the heat, but no particulars as to loss or insurance could be ascertained.

**FLORISTS' SUPPLIES**  
 Cut Strings, 8 to 10 foot long, 50 cts. each.  
 Shipped to any part of the country.  
**Brighton, Mass.**



**M. RICE & CO.,**  
 Importers and Manufacturers of  
**FLORISTS' SUPPLIES,**  
 25 N. 4th St., Philadelphia, Pa.  
**NEW PALE GALAX LEAFES NOW READY.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**GALAX LEAVES and**  
**LEUCOTHOE SPRAYS...**  
**FOR ESTER**  
**WHOLESALE FLORISTS** should order a good supply now and be prepared for the rush later. Write the introducer at once for special prices.  
*Telegraph addresses: Kelsey, Cubaera, N. Y. C.*  
**HIGHLANDS NURSERY, WILMANTON, N. C.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CUT ROSES.**  
 Fine BRIDE, BRIDESMAID and PERLE on short notice.  
 Give us a trial.

**THE NATIONAL PLANT CO., Dayton, Ohio.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**COMPLETE LINE OF SUPPLIES**  
**WIRE WORK**  
**ALWAYS HAND**  
**BULBS**  
**PHONE 1257**  
**BOX 72**  
**ELLIS & POLLWORTH**  
**MILWAUKEE WIS.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**"SWEEET ROSIE O'GRADY"**  
 OR  
**ANYTHING IN "ROSIES"**  
**CUT-FLOWERS**  
**FLORISTS SEEDS**  
**AND SUPPLIES**  
**E. H. HUNT,**  
 401 N. LAKE ST. CHICAGO.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE  
**A Business Map.**

I would as soon start on a voyage around the world without a map as to try to run my business without the Exchange. **JULIAN, the Florist,** St. Thomas, Ont., Nov. 30, 1896.

**JOHN CONLEY & SON,**  
 MANUFACTURERS OF  
**TIN FOIL,**  
 2 and 4 Dominick Street,  
**NEW YORK.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE  
**CHOCOLATE COOLER CO.,**  
 GRAND RAPIDS, MICH.  
 Manufacturers of  
**FLORIST'S REFRIGERATORS.**  
 Send for Circular.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE  
**MEYER GREEN SILKALINE.**  
 Used for Strapping BURLAP and ASPARAGUS.



Will not fade, or rot like other cover. Made also in fancy colors for tying mats or for samples and prices.  
**JOHN C. MEYER & CO.,**  
 87 Summer Street, BOSTON, MASS., U. S. A.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Boston Florist Letter Co.**  
 Manufacturers of  
**FLORISTS' LETTERS.**  
 BOSTON, MASS. U.S.A.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

This wooden box is nicely stained and varnished, 16x30 1/2 inches in two sections, one for each side letter, given away with first order of 500 letters.  
 Block Letters, 1 1/2 or 2 inch sets, per 100, \$2.00  
 Script Letters, 140c.  
 Patterns with each letter or word.  
 Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.  
**N. F. MCCARTHY, Treas. & Manager.**  
 59 GREEN ST., BOSTON, MASS., U.S.A.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**W. G. KRICK'S**  
**Immortal Letters,**  
 Metal warefaced  
 4 inch x 3 1/2 inch  
 Folio and 1/2 inch  
 4 inch x 3 1/2 inch  
 3 inch x 2 1/2 inch  
 Established.  
 3 These Letters and  
 Designs are made of  
 the best immortelle  
 wood on wood or  
 metal. Front and  
 sides drilled in them  
 to insert tooth-sticks,  
 by which they are  
 fastened in the de-  
 sign. Give them a  
 trial. For orders send  
 these goods to be  
 sent to you. Price  
 in the market, 3  
 in Letters, \$2.50  
 per 100. Postage, 10c per 100. For other styles of  
 letters, Stationery and Designs, send for catalogue.  
 Before purchasing send for free sample and catalogue.  
 And compare with any other letter to the market.  
 For sale by all Florists' Supply Dealers.

**THE**  
**BEST.**  
**THE**  
**Perfect Flower Pot**  
**Handle and Range**  
 Is used for lifting plants out of the garden, also for hanging plants. For example: Longs on walls, etc. For 100 lbs. No. 1 will hold 100 lbs. For 200 lbs. No. 2 will hold 200 lbs. For 300 lbs. No. 3 will hold 300 lbs. For 400 lbs. No. 4 will hold 400 lbs. For 500 lbs. No. 5 will hold 500 lbs. For 600 lbs. No. 6 will hold 600 lbs. For 700 lbs. No. 7 will hold 700 lbs. For 800 lbs. No. 8 will hold 800 lbs. For 900 lbs. No. 9 will hold 900 lbs. For 1000 lbs. No. 10 will hold 1000 lbs.  
**W. C. KRICK, 1287 Broadway, Brooklyn, N. Y.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Cincinnati.

Market Notes.

In the fore part of the week trade started out brisk, and throughout the first week of March would be a hummer, but Lent put a damper on our hopes. Even roses were not wanted during the latter part of the week. Carnations are still in good demand and scarce, selling at \$1.25 to \$1.75 for ordinary, and \$2 to \$3 for fancy.

Tulips are plentiful, and La Helne, white, sell at 2c. and 3c. Yellow, of all kinds, are consigned to the barrel. Valley gees slow at 3c., and callas are selling at 50c. to \$1 per dozen; Harriell the same. Good Dutch hydrangeas sell at 3c. and 4c.; roses from 3c. to 6c., according to kinds and quality.

Jetties. The stores are all complaining of dull trade. Another heavy rainstorm again gave trouble to Fred, W. & K. Wolfe, and Ben. Gilne. A trip to their different establishments on Saturday showed destruction on every side; what little they had saved from the former backwater of the Ohio was destroyed by the flood of Mill Creek. The water had, in nearly all places, covered their benches from 6 inches to 3 feet in depth, and in some places the water had been 6 feet deep. Mud was all you could see everywhere. Fred, W. & K. Wolfe had a few plants and Dutch gees, and some carnations. His roses, planted mostly in 1895 beds, had been covered, only a few inches of the tops were sticking out. It is sorely possible that he may save a few of them. His lilies were entirely submerged. The weather, fortunately, is not very cold at this time.

At K. Wolfe's place everything is least \$3,000.

Ben Gilne's place also presented a sorry sight, and is also almost a total loss. I should say, at a rough estimate, including damage to H. Schlichter's plant that the aggregate loss now exceeds \$5,000. The market gardeners of the Mill Creek Valley estimate their loss at \$50,000.

H. W. Warden, Superintendent of Parks, was badly injured in a rear end collision on the E. & O. R. R. on Friday. A warehouse caught the express stop, on a freight following, dashed into the sleeper, killing one person and badly injuring the balance of the passengers. At the police station, Warden was doing well. I have not as yet learned how badly he was injured. The accident occurred near Lakeland, O.

Judge Smith's jury in the Superior Court on March 4 found a verdict in the suit of the Cincinnati & Co. against the J. H. McGowan Pump Company, in favor of the plaintiff for \$385, after a tedious trial. The case is an old one, having been on the docket for nearly ten years, and \$108 of the verdict was for interest on the claim. The suit was to recover damages for plants which Critchell & Co. lost by freezing in their greenhouses more than ten years ago, because of a defective working of a pump, which the McGowan Company had supplied, to furnish water for the holders. In the winter of 1887 the pump, in the midst of a spell of freezing weather, cut off the supply from the main pipes, and the plants froze. The suit was brought for \$1,500 with the above result.

PAUL BRINKOWITZ, of E. Bayersdorfer & Co., is the city clocking.

Card of Thanks.

We desire to express our sincere thanks to the many friends and brother florists of Robert J. Murphy for their kind words of sympathy in our sad bereavement. We especially thank the Cincinnati florists for their most beautiful floral offerings.

Mrs. R. J. MURPHY and FAMILY.

Little York, Ont.

FRANK DUFFORD is sending into Toronto Luxone violets, which for quality would be hard to beat. He also forces bulbous stock in considerable quantities, the demand for which is very good just now; in fact, for some time past. It has been difficult to supply the demand.

CHARLEY TIDY says Toronto may be slow, especially on Sundays, but "is about the best place to get floral pieces made up at short notice; and right up to date at that. Acceded to and endorsed by the writer.

MANTON BROS. are preparing a big stock for Spring market trade.

Kill AND SAVE THE BUGS! Does not injure the most sensitive plants. Endorsed by prominent florists. Used for fumigating or spraying indoors or out. 200 pounds of tobacco in one pint of Nikoteen. Sold by wholesale. Circular free. SEABOARD CO. CHICAGO. Quickly Does It.

STANDARD POTS. We are now ready to supply a superior quality of Pots in unlimited quantities. Catalogues and price lists furnished on application. A. H. HEWES & CO., NORTH CAMBRIDGE, - MASS. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Standard Pots MADE BY... Good Railroad Facilities KELLER BROS. Special Attention Given to Mail Orders. Price Lists Furnished on Application. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

STANDARD FLOWER POTS. In any quantity, and of the best quality. Get my price list before ordering elsewhere.

W. H. ERNEST, Director M. N. E., WASHINGTON, D. C. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

STANDARD FLOWER POTS. Our Specialty is ready packed crates of Standard Flower Pots, a large stock of which we keep on hand ready for shipment on day order or retail sale. 10 per cent. off for cash with order P.O.B. For Catalogue and list of names of Hanging Vases, Garden Vases, Jardiniere, Sets, Plant Movers, Address: Hillinger Bros., Man'rs, Fort Edward, N. Y.

AUGUST RÖLKER & SONS, New York. 138 and 139 W 24th St., NEW YORK CITY. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Neponset Flower Pots of Waterproof Paper, are sold as follows: Terms—Net cash with order. If ordered shipped by freight, add 50 cents cartage.

F. W. BIRD & SONS, Manufacturers. August Röler & Sons New York. P. O. Station E. W. M. FARGUHA & Co., Boston, Mass. Eastern Agent. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

GREAT REDUCTION IN PRICE. On account of the consolidation of the two firms—Rider Engine Company and the DeLamater Iron Works, which have heretofore manufactured the RIDER & ERICSSON HOT AIR PUMPING ENGINE a great reduction in prices has been made, and the enlarged and improved facilities enable the new firm to produce a better engine at a lower price offered for securing an abundant water supply for all purposes on Dairy, Stock and other farms, and for country seats, city residents, etc. New catalogue sent free, and will be sent to those who ask for them. Address, RIDER-ERICSSON ENGINE CO., 37 Stey St., New York City. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

STANDARD VENTILATING MACHINE. NOTHING Flimsy OR Complicated about it. E. HIPPARD, YOUNGSTOWN, OHIO. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

JOHN M. JACKSON, Successor to JACKSON BROS. Established 1825 NEW YORK STATE CHINA TILE AND PIPE WORKS. 80 Liberty St., New York. Round Tile. FOR GREENHOUSES, CONSERVATORIES, GRAPERIES, HOTBEDS AND FLORISTS' USE GENERALLY, AT LOWEST RATES. L. HARRIS & SON, 497 W. Broadway, New York. 89 Liberty St., New York. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

GLASS! FOR Greenhouses, Conservatories, Graperies, Hotbeds and all other purposes, at Lowest Rates. N. COWEN'S SON 392 & 394 West Broadway, New York. Formerly 154 and 156 So. Fifth Avenue. Estimate Freely Given. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

GLASS! FOR Greenhouses, Conservatories, Graperies, Hotbeds and all other purposes, at Lowest Rates. N. COWEN'S SON 392 & 394 West Broadway, New York. Formerly 154 and 156 So. Fifth Avenue. Estimate Freely Given. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

GLASS FOR GREENHOUSES, CONSERVATORIES, GRAPERIES, HOTHOUSES AND HOTBEDS. VANHORNE, GRIFFEN & CO. Agents for CHAMBERS & McKee Co., Jeannette Brands American Glass. Importers of French Glass. 13, 15 & 17 LIGHT ST., - NEW YORK. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Standard Flower Pots. Send for our New Price List with extra discounts. All our Pots, from 7 in. and upwards, have our Patent Elevator Bottom, which is a great advantage, as it insures perfect drainage. THE WHEILDEN POTTERY CO., 713 to 715 Wharton Street, PHILADELPHIA. BRANCH HOUSES: J. Kearney and Westside Ave., Jersey City, N. J.; Jackson Ave. and Pearson St., Long Island City, N. Y. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

FLORER POTS. We are Manufacturing a Full Line of STANDARD FLOWER POTS and HANGING BASKETS OF THE BEST QUALITY. Shipping Facilities First-Class, thereby Securing Lowest Freight Rates. Our goods are well packed, and breakage is nominal. Give us a trial. See for Price List. Address THE SYRACUSE POTTERY CO., 403 M. SALINA ST., SYRACUSE, N. Y. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

THE JOHN J. PETERS COMPANY (INCORPORATED) COMPRESSED PULVERIZED A Quick Germinator and Crop Forcer. FACTORY: Little Ferry, New Jersey. OFFICE: Long Island City, New York. NATURAL. OODLESS WHEN WRITING MENTION THE FLORISTS' EXCHANGE

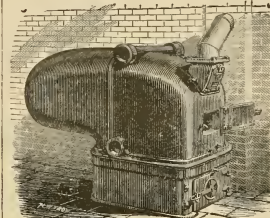
NEEP FERTILIZER. Beats Every Chemical Fertilizer on Earth. Pure Sheep Fertilizer permanently improves the soil. Matreses the largest and best crops. Quick and lasting in its action. TRADE MARK. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**LORD & BURNHAM CO.,**  
**HORTICULTURAL ARCHITECTS AND BUILDERS,**  
 STEAM AND HOT WATER HEATING ENGINEERS.  
 Plans and Estimates furnished on application.



Largest Builders of Greenhouse Structures. Six Highest Awards at the World's Fair.  
 Send four cents postage for Illustrated Catalogue.  
**LORD & BURNHAM CO.,**  
 ARCHITECTURAL OFFICE, 160 FIFTH AVE., COR. 21st STREET, NEW YORK.  
 Factory: Irvington-on-Hudson, New York. Mention paper

**GREENHOUSE HEATING AND VENTILATING,**  
 Horticultural Architecture and Building.



**Hitchings & Co**

ESTABLISHED 1844.  
 233 Mercer Street, NEW YORK  
**FIVE PATTERNS OF BOILERS.**  
 NINETEEN SIZES.  
 Perfect Sash Raising Apparatus.  
 Rosehouses, Greenhouses, Etc., of Iron  
 Frame Construction erected complete or the  
 Structural Iron Work shipped ready for erection.  
 Iron Frame Benches with the  
 "Perfect Drainage Bench Tie"  
 or Slant Top.  
**SEND 4c. POSTAGE FOR ILLUSTRATED CATALOGUE.**

**HAVE YOUR COLLECTIONS MADE**  
 THROUGH THE  
**NATIONAL FLORISTS' BOARD OF TRADE,**  
 271 BROADWAY NEW YORK.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE.  
 SHIP TO THE Best for Florists,  
 Hoists, gardeners, etc. in  
**Kelley's Florists' Shears**  
 and Flower Cutters.  
 Circulars from THE FLORISTS'  
 EXCHANGE, 160 FIFTH AVENUE, CHICAGO, ILL.

WHEN WRITING NO MENTION THE FLORISTS' EXCHANGE.

**SUMMER IN WINTER**  
 By Using  
**Standard Greenhouse Boilers**  
 One cent gets our Catalogue.

**GIBLIN & CO.,** • Utica, N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

**MASTICA**

For Glazing Greenhouses. A substitute for putty. Superior in every way.  
**MASTICA AND MASTICA GLAZING MACHINES** were given Highest Award of S. A. F. at Philadelphia. Address for circulars,  
**F. O. PIERCE CO.,** 170 Fulton St., N. Y.  
 Sole Manufacturers.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

The Biggest Little Thing on Earth  
 the **LIGHTNING**  
**BUG Exterminator.**

Use any kind of poison, dry or liquid. Only I mix it in a tin, which equals 50 lb. poison with any other substance. A bucket of water and a spoonful of poison makes for a good plank. Not a drop wastes. No plants killed. As fast as you walk, do the job. I have used it for years. This time I have it with order—pay after you try it. Mention this paper to **W. H. BENTLEY, 206 N. 3rd St., PHILADELPHIA, PA.**  
 Y. I. B. For terms and list in perfection. The name is put on the plants like a dew on the leaf dew. The most delicate plants will not be injured. Return if not satisfactory.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

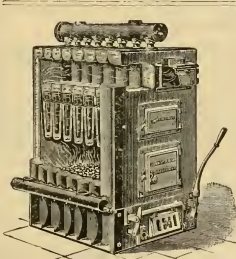
**Modern Greenhouse Heating.**

One of our boilers, 10,880 feet of two inch pipe, and sixty tons of coal will heat 22,400 feet of glass (four 30x300 feet double gable houses) to 65 degrees in coldest winter weather; they have done it, and will do it for you—we guarantee it. Our boilers are not only the best of their kind, but the best made. They have the largest "firebrigt" direct surface, are the easiest cleaned, handled and set up; and from engineering acts they are the ideal frictionless, economical water heating boilers of our day.

**Plenty's Horticultural Works,**  
 148-156 Randolph Ave.,  
**JERSEY CITY, N. J.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CALIFORNIA RED CEDAR**  
 Never Decays.  
**A. DIETSCHE & CO.** 619 Sheffield Avenue, CHICAGO.  
 MANUFACTURERS OF  
**RED CEDAR AND CYPRESS GREENHOUSE MATERIAL.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

SEND FOR OUR NEW CATALOGUE, WHICH SHOWS  
**The New Automatic Cable Ventilator**  
 As it is put up in the house complete. We also give you prices with a guarantee that each machine sent out will operate your house successfully. Roll machines now made in two sizes.  
**A. G. WOLF & BRO.,** Dayton, Ohio.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE



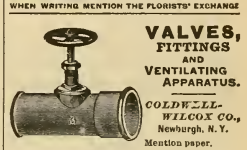
**ATTENTION, FLORISTS!**  
 It will be to your advantage to look into the merits of the Scollay "Invincible" Hot Water Boiler.  
 It is all that its name implies, and don't forget it.  
 Cuts and full information mailed on application.

**JOHN A. SCOLLAY,**  
 74 & 76 MYRTLE AVE.,  
**BROOKLYN, NEW YORK.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE



**Butted Glass**  
 This is no longer an experiment, it has come to stay. There are various ways of making Butted Roofs, but the best way is with the  
**Cipper Bar.**  
 With this bar you can make a roof that is absolutely free from drip, and glass cannot be torn out by the wind. Butted glass makes a tight roof, a warm house and saves fuel. It lasts longer, looks better and costs less than the old-fashioned roof. But do not think that this is the only bar we sell, for it is not; we furnish what people want and there is nothing to greenhouse material that you cannot get from us, and all of open-air-dried Cypress clear of bright sap, stained sap, knots and all other defects.  
**LOCKLAND LUMBER CO.**  
 LOCKLAND, O.  
 Mention paper. Write for Circulars or Estimates.

**Evans' Improved Challenge.**  
 Roller heating, self-acting device, automatic stop, solid link chain, makes up 120 PROVED CHALLENGE the most perfect apparatus in the market.  
 Write for catalogue and prices before placing your orders elsewhere.  
**Quaker City Machine Co.,** RICHMOND, IND.

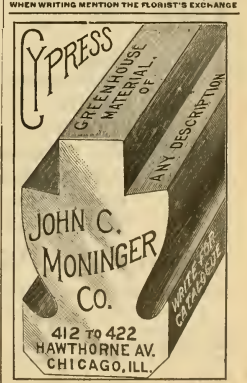


WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**IF YOU WANT A GOOD SASH LIFT**  
 For a Very Little Money Get



For Descriptive Catalogue Send to  
**J. D. CARMODY, Evansville, Ind.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE



WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**"GOLDEN BEAUTY."**

New Yellow Caena, clear, bright color, massive flower, continuous bloomer, vigorous grower, dwarf habit. As good as the best. READY NOW. 50c. each; \$4.00 per doz.; \$25.00 per 100.

**NEW CANNAS**

**"JOHN WHITE."**

The beautiful new variegated leaf variety. Finest plant for all decorative purposes produced in years. Stock in superb condition and leaf variety. Finest plant for all decorative purposes produced in years. Stock in superb condition and READY NOW. 75c. each; \$7.50 per doz.; \$50.00 per 100.

Also **QUEEN CHARLOTTE, ALPHEUS BOUVIER, MME. CROZY, J. C. VAUGHAN, J. D. CABOS, EX. CRAMPBEL,** \$1.00 per doz.; \$6.00 per 100. All from 4 inch pots. Cash or reference with orders. Circular and colored plate for the asking.

**JOHN WHITE, Elizabeth, New Jersey.**

**WELCH BROTHERS, DEALERS IN FLORISTS' SUPPLIES,**

No. 3 Beacon Street. - BOSTON. Wire Designs, Wheat Stewes, Baskets, Inmortelles, Cape Flowers, Cdn. Flowers, Boxes, and all other supplies, at prices to meet competition.

**AURST RÖLKER & SONS, DEALERS IN ALL FLORISTS' SUPPLIES, Seeds and Bulbs,**

136 West 24th Street, NEW YORK.

Wholesale only. Trade Lists mailed on application with business card. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**RAFFIA,**

Of Best White Quality, Braided. Direct from the Packers in Madagascar.

Apply for quotations to

**ANDRE L. CAUSSE,** 105-107 Hudson St., New York.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CEDAR OIL INSECTICIDE**

Soluble in Water. Kills Moths, Fleas, Beet, Thrip, Spider, Etc. Our American substitute for Fir Tree Oil is equally good and much cheaper. Florists' real time. \$1.25. 1/2 tin, 50 cts.; use from one pint to one quart to 50 gallons of water; dip or spray. Sold by mail, or apply to nearest depot.

**August Röiker & Sons, New York,** 136 West 24th St., P. O. Station E.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WE ARE HEADQUARTERS ON

**BULBS FOR FORGING, FLOWER SEEDS FOR FLORISTS, ENGLISH MUSHROOM SPAWN**

SPECIAL PRICES ON APPLICATION. JOHN GARDNER & CO., Seedsmen, Box 1366, Philadelphia, Pa.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE



**Florists' Supplies.**

Largest Stock in the Country. All goods up to date, and of superior quality. Send for Illustrated Catalogue.

We are prepared to supply

**GALAX \* LEAVES**

in any desired quantity.

**H. BAYERSDORFER & CO.,**

56 N. FOURTH STREET, PHILADELPHIA, PA. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**NEW CAPE FLOWERS.**

**A. HERRMANN,**

404-412 E. 34th St., New York, Near Ferry.

Manufacturer of Floral Designs. Importer and Dealer in Florists' Supplies.

Write for Catalogue. Free to the trade. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**The Allegheny City Fertilizer Works**

**DR. EDW. L. CZARNIECKI & SON,**

43 First Street, ALLEGHENY, PA.,

Guarantee their following brands of FERTILIZERS to be Absolutely Strictly Pure and free from South Carolina Rock, or any other adulteration. Send for samples and catalogue, which will speak for themselves.

Their works are open at any time for the public's inspection and they make but one grade of goods, viz: Pure Raw Bone Meal, Pure Raw Bone Phosphate Pure Potato Manure, and Special Lawn and Garden Fertilizer.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**GLEMATIS** 2 year old plants, \$2.00 per doz. 3 year old plants, \$3.00 per doz.

**GARNATIONS** All the Novelties at ruling prices. Best Standard varieties, from soil \$2.00 per 100.

**CHRYSANTHEMUMS** Best Standard varieties. Price on application.

G. EISELE, 11th & Jefferson Sts., Phila Pa. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**BURPEE'S SEEDS**  
PHILADELPHIA  
WHOLESALE PRICE LIST FOR FLORISTS AND WHOLESALE GROWERS  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CLARK BROTHERS,** Manufacturers and Printers of

**PAPER SEED BAGS**

Of every description except Lithograph Bags. 61 ANN STREET, NEW YORK.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**TOBACCO STEMS**

Large Bales (300 lbs.), \$1.50 ... STRONG AND FRESH

**Tobacco Dust,** 2c. per lb. **REMARK:** the best material for tying, does not injure the plants; it goes farthest and is cheapest; first quality long fibre at 1 lb. \$1.00 & 100 lbs.

**H. G. FAUST & CO.,** 61 & 63 N. Front St., Philadelphia, Pa.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**THE BEST FOR ALL FLORISTS.** **ROSE LEAF EXTRACT OF TOBACCO INSECTICIDE** FOR SALE BY Seed Stores. For Free Pamphlet, write to LOUISVILLE SPIRIT (under Tobacco Co.) Louisville, Ky.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**THE W. & T. SMITH CO.**

Have on Lands that **MUST BE CLEARED**

**ASH** (Fraxinus). 7 to 15 feet.

**BEECHES.** Assorted, 3 to 6 feet.

**ELMS.** Assorted, 8 to 10 feet, and **CAMPERDOWN,** extra 2 year heads.

**MAGNOLIA ACUMINATA** and **TULIP TREES,** 4 to 7 feet.

**MAPLES.** Norway, Silver, ycamore and Sugar, 6 to 10 feet.

**MOUNTAIN ASH.** European, Oak Leaf and Weeping.

**POPLARS.** Lombardy, Carolina, Balsam and Bolleana, 6 to 15 feet.

**WILLOWS.** New American, Rosemary, Babylonica and Kilmarnock.

**FINE TREES** at very low prices.

**CUT-LEAF BIRCH,** very fine, 8 to 12 feet.

**Norway Spruce, Arbor vitæ** and other Evergreens.

A LARGE COLLECTION OF

**SHRUBS**

Largely Altheas, Almonds, Deutzias, Euonymus, Hydrangeas, Japan Quinces, Lilacs, Spiraeas, Snowballs, Weigelas, &c., &c. **DAHLIAS, Dry Roots. HERBACEOUS PAEONIES** and **CLIMBING VINES.** Send list of wants for **Special Prices** on above named stock, and for our regular Spring Trade List.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**W. & T. SMITH CO., GENEVA, N. Y.**

# THE FLORISTS' EXCHANGE

We are a straight shoot and aim to grow into a vigorous plant.

A WEEKLY MEDIUM OF INTERCHANGE FOR FLORISTS, NURSERYMEN, SEEDSMEN AND THE TRADE IN GENERAL.

VOL. IX. NO. 12.

NEW YORK, MARCH 20, 1897.

One Dollar Per Year.

"Every Bulb's a Pearl"

**THOSE TUBEROSES**  
Beat anything I ever  
saw; very large.

(Signed) W. A. MUNROE.

Providence, R. I., March 10, '97.

"Every Bulb's a Pearl."

There is no doubt about it. We have the finest stock in the country. Bulbs are selected 4 to 6 inches in circumference—the True, Dwarf Pearl, and have given satisfaction wherever shipped. Our Tuberoses are grown on one plantation—on new land each season—scientifically cultivated, harvested and cured. They cannot be surpassed in quality while the price is no higher than charged for ordinary strains. The general stock of Tuberoses bulbs is getting scarce. Do not delay ordering too long.



Per 1000 ..... \$7.50 Per 10,000 ..... \$55.00  
Per 5000 ..... \$32.50 250 supplied at 1000 rate.

While we make Tuberoses a leader, do not forget that we carry select stocks of all other Spring Bulbs, Seeds and Plants.

**PITCHER & MANDA, Short Hills, N. J.**  
JOHN N. MAY, Receiver.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## LILY OF THE VALLEY

.. FOR EASTER ..

We offer at a bargain stock remaining unsold at this date in order to close it out. We have only 12 cases left unsold, which we offer as long as unsold at

\$20.00 per case of 2500 pips, net cash.

This is the same grade of Valley that brought \$35.00 per case early in the season, but we now offer it at cost in order to close out the stock. Prices is cheap, quality the very best, highest quality selected German pips. Speak quickly if you want it.

## TUBEROSE PEARL.

In order to close out our surplus of Tuberoses Bulbs, we make the following exceptionally low offer, viz:

Extra Quality Bulbs, \$1.00 per 100; \$7.00 per 1000.  
" " " " 5.00 lots at 6.00 " "  
" " " " 10.00 " " 5.50 "

## TUBEROSE BEGONIAS.

We are headquarters for Tuberoses Begonias, and can supply the very finest quality of these bulbs in any quantity. Large buyers should write us for special prices. We can offer these bulbs in large quantity lower than you can import them. We offer them in separate colors, white, pink, scarlet and yellow.

SINGLE, \$3.00 per 100; \$25.00 per 1000.  
DOUBLE, 8.00 " " 70.00 "

Write for our descriptive catalogue and complete wholesale list, if you have not already received same.

**F. R. PIERSON CO.,**  
TARRYTOWN-ON-HUDSON, NEW YORK.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## SEND FOR OUR PRICE LIST OF HIGH GRADE SEEDS AND BULBS

If You Have Not Received One.  
FLOWER AND VEGETABLE SEEDS IN PACKETS.

We Do Not "Commission" or Place Seeds Out "On Sale."

But we supply Florists with seeds put up in handsome colored packets for retailing at \$25 per 100, or \$10.00 per 1000. These Packets, besides having a lithograph of the flower and the common and botanical name on the front, have a description of the flower and outline directions on the back and a blank space for name and address, which will be printed on same if ordered in 1000 lots or more. SEND FOR SAMPLE.

Price of Peas, Beans and Corn in Packets, \$4.00 Per 100.

**DWARF PEARL TUBEROSE BULBS**, 4 to 6 inches in circumference, \$7.50 per 1000.

**TUBEROUS ROOTED BEGONIAS**, sound stock, 6 colors, separate, \$5.00 per 100.

**GLOXINIAS**, named varieties, \$5.00 per 100.

In Making Up Your Order for Florists' Flower Seeds, Don't Fail to Include Some  
**ALLEN'S DEFIANCE MIGNONETTE**

Offered this Season at \$5.00 per doz., and 35 cts. per packet, containing 1-8 ounce.

**F. E. McALLISTER CO.** Seed and Bulb Merchants, 69 Cortlandt St. N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## Rose Hill Nurseries.

THE LARGEST AND FINEST STOCK IN AMERICA.

### ARECA LUTESCENS.

DOZ. HBN.  
3/4 in. pots, bushy, 12 to 15 in. high... \$2.00 \$3.00  
" " " " 15 to 20 in. high... 4.00 5.00  
" " " " 20 to 25 in. high... 6.00 8.00  
" " " " 3 to 5 ft. 4, \$5 and \$3 each.

### COCOS WEDDELIANA.

DOZ. HBN.  
3/4 in. pots, extra fine, 6 and 8 leaves \$2.00 \$3.00  
" " " " extra fine strong... 2.50 3.00  
" " " " 8 in. pots, extra fine, very strong, selected... 3.50 35.00  
3/4 in. pots, extra fine, very strong, selected... 4.00

### KENTIA BELMOREANA.

EACH DOZ.  
5 in. pots, extra strong, bushy, 5 to 6 leaves, 18 to 20 inches high... \$4.75 \$8.00  
" " " " heavy 2 to 2 1/2 ft. high... 1.50 15.00  
" " " " 7 in. pots, heavy 2 1/2 to 3 ft. high... 2.00 24.00  
" " " " 8 in. pots, 36 to 40 in. decorative size \$3.50 to \$6.00 each.

### KENTIA FORSTERIANA.

DOZ. HBN.  
3 in. pots, 12 to 15 inches high... \$2.00 15.00  
" " " " 15 to 18 " " " " 4.50 35.00  
" " " " 2 to 2 1/2 ft. high, \$1.25 each.  
" " " " 2 to 2 1/2 " " \$2 to \$2.50 "

### PHENIX RECLINATA.

8 in. pots, 15 to 18 in. high, \$1.00 each; \$10.00 doz.

### LATANIA BORNICANA.

5 in. pots, 2 ft., specimens... \$15.00 doz.  
" " " " perfect specimens, 7 1/2 inches, 18 doz " " " " 8 " " " \$2-\$2.50 each

### LIVISTONA ROUNDIFOLIA.

4 in. pots, 10 to 12 in. high, \$1.25 each; \$15.00 doz.  
" " " " 12 to 15 " " " " 1.50 " 18.00 "

### BRACENASA (in variety).

Without doubt or exception we have the grandest lot in the country. Open for inspection.

4 in. pots, \$1.00 per doz.  
" " " " 6.00 " (colored and coloring).

### FERNS. FERNS. FERNS.

If you are going to buy, it will pay you to get a sample of our grand stock.

3 1/2 in. pots, in var., \$4.00 per 100; \$35.00 per 1000.

**Nephrolepis cordata compacta.**

The largest stock of this grand variety.

3 in. pots, fine stock... \$15.00 per 100.  
" " " " fine specimens, 15-18 in. high, \$4.00 per doz.; \$35.00 per 100.

**Pteris tremula giganteum.**

4 in. pots... \$35.00 per 100  
" " " " 6.00 per doz.  
" " " " .60 each.

†The above information taken from top of notes. The measurement is a brief list of our associates. Our own wholesale list, giving description of all new novelties, will be ready soon. Do not order till you see it.

Write, Telegraph or Telephone us and our Carriage will meet you.

\*Address all communications to the Nurseries.

**SIEBRECHT & SON,**  
NEW ROCHELLE, N. Y.  
N. Y. OFFICE: 409 5 Ave.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

IDES OF MARCH

Are ill winds, and not in demand.



When Sowing ASTER SEED Plant Only the Best German Strains.

Table listing various flower strains like TRUFFAULTS, VICTORIA, BRANCHING, and BAMBOO CANES with their respective prices per 100.

Our complete trade list will be mailed free to all Florists upon application.

WM. ELLIOTT & SONS NEW YORK.

Lilium Superbum.

SPECIAL SALE OF BULBS ORDER AT ONCE.

5,000 Bulbs, last size, \$15.00 per 100; \$2.50 per 1000...

Grand opportunity to buy. Address, Kawana Assignee, Highland Nurseries, N. C.

SWEET PEAS FOR FLORISTS

A surplus of the following varieties enables us to name these low prices:

Table listing various sweet pea varieties like GRAPE MAY, APPLE BLOSSOM, BLANCH FERRY, etc., with prices per lb.

At the above prices they will be sent by express or freight at purchasers' expense. Add 8 cents per pound extra if desired sent by mail.

L. L. MAY & CO., St. Paul, Minn.

Tuberose

Dwarf Pearl, 4 to 6 inches in circumference, 65c. per 100; \$5 per 1000. \$4.75 per 1000 in 5000 lots.

Lilium Auratum

7 to 9 inches, 50c. per doz.; \$3.25 per 100.

John Gardiner & Co.

P. O. Box 1306. Philadelphia, Pa. WHEN WRITING MENTION THE FLORIST'S EXCHANGE

Prize-Winning

DAHLIAS

AN UNPRECEDENTED RECORD.

23 First Prizes, Certificate of Merit, 2 Diplomas, and highest mention wherever.

If you want the Very best Dahlias that bloom send for our list descriptive trade list now free. Address W. P. PEACOCK, Dahlia Specialist, ATCO, N. J.

Berlin Lily of the Valley Pips IN CASES OF 2,500, FROM COLD STORAGE.

APPLY TO C. C. ABEL & CO., P. O. BOX 930, NEW YORK

CANNA AUSTRIA

GREEN PLANTS READY NOW \$40.00 per 100.

CHAS. H. ALLEN, Floral Park, N. Y.

BEGONIAS, TUBEROSES AND GLADIOLI.

I have to offer in Extra Choice lots of Tuberoses, Begonias, Single stems, in 4 separate colors—white, pink, yellow and scarlet—at the following prices—100 for \$2.00; 500 for \$8.00; 1000 for \$16.00. EXCELSIOR PEARL TUBEROSE BULBS—Large size at \$1.00 per 100; 500 for \$3.00; 1000 for \$6.00. Smaller sizes at single per 100, 500 for \$2.00, 1000 for \$3.00. GLADIOLI—Finest mixed colors on the market. Large size \$1.00 for 100; 500 for \$4.00; 1000 for \$8.00. Smaller sizes same to lower this Special Offer at 50 cents per 100 for 500; 1000 for \$2.00. All these Bulbs are the best on the market, and I guarantee satisfaction. Prices quoted are for bulbs to be sent by express or freight. If foreign quantities are wanted, ask for special quotations. Stock limited, and all orders will be filled promptly as long as it remains open. Address F. B. MILLER, Seed-Grower, Box 2, Rose Hill, New York

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

GET THE BEST ASTER SEED

of the celebrated Simple Aster, separate colors, pink and white, also mixed. Seed well cleaned, plump and good. Crop of 1896. For sale in any desired quantity by

JAMES SEMPLE, Box 2, BELLEVUE, PA.

ORDER YOUR GOODS FOR SUMMER DELIVERY IN TIME

Early Orders are the BEST, get the BEST STOCK, get the BEST PRICES

We quote you now for delivery in July to SEPTEMBER.

Freesia refracta alba, Tree Fern Stems, Calla Ethiopica, Palm Seeds, Li. Longiflorum, California Forcing Chinese Narcissus, Bulbs.

NEW PRICE LIST on above out NOW. Send for it.

Address all communications to H. H. BERGER & CO. (Established) San Francisco, Cal.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE



DAHLIA

—FOR—

DEALERS AND FLORISTS. Not cheap stuff to be gotten rid of at any price, but

HIGH GRADE, at reasonable rates. Price List on application. Stock quantity desired.

CUSHMAN GLADIOLI CO.,

Euclid, O.

ASTERS

Queen of Market white, blue pink, fringed, etc. Blue, white, anthemium, mixed, Victoria, etc. Corol, carnage, trunk pki. 30c. Lilioid, mixed red and yellow, etc. Dwarf Branching, mixed, trade pki. 2c. Dwarf Branching, mixed, trade pki. 2c. Dwarf Branching, mixed, trade pki. 2c.

RECORDED Nonpareil color, Washington 17, you think them for their write to Washburn and get free seeds.

N. BEAULIEU, Woodhous, L. I., N. Y. WHEN WRITING MENTION THE FLORIST'S EXCHANGE

ASTER SEED.

Vick's Branching, White and Semple's White and Pink, \$1.50 per doz; Snowball, \$1.00 per doz.

Seed well cleaned and from selected stock, crop of 1896.

For sale in any desired quantity by J. C. KEBBLER, 687 Monroe Ave., Rochester, N. Y. WHEN WRITING MENTION THE FLORIST'S EXCHANGE



WHEN WRITING MENTION THE FLORIST'S EXCHANGE

FRANCIS BRILL, GROWER OF CHOICE

LONG ISLAND CABBAGE SEED

All leading varieties and finest strains. Also dealer in the Finest American-Grown Cauliflower.

HEMPSTEAD, LONG ISLAND, N. Y. WHEN WRITING MENTION THE FLORIST'S EXCHANGE

Single Begonia Bulbs

in separate colors. Per 100, \$5.00; per 1000, \$50.00.

Tuberose, per 100, \$7. All other seasonal bulbs on hand.

Ask for price list.

HULSEBOSCH BROS., Englewood, N. J. WHEN WRITING MENTION THE FLORIST'S EXCHANGE

PALM SEED.

Washingtonia Sonora, Per 100, \$1.00; per 500, \$3.00; per 1000, \$5.00.

CALIFORNIA NURSERY CO., Niles, Cal. WHEN WRITING MENTION THE FLORIST'S EXCHANGE

JUST RECEIVED FROM JAPAN

JAPANESE IMPERIAL CONVOLVULUS SEED.

Very bright, plump and well cleaned. Grown by H. H. Amora, an American, resident in Japan for 25 years. Includes the best and most selected strains. \$1.00 per lb; \$9.00 per 10 lb. Order at once. Supply limited. Free trial on 100.

JACKSON & PERKINS CO., Newark, New York. WHEN WRITING MENTION THE FLORIST'S EXCHANGE

SEEDS FOR Profit Sweet Peas

Wholesale Catalogue on application. Weeber & Don, Seed Merchants and Growers, 114 Chambers St., New York City.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

DAHLIA Seed. FRESH ON HAND

Table listing various dahlia varieties and their prices, including Champion carmine, Queen of the West, etc.

J. L. SCHILLER, Rutherford, N. J.

# SEED TRADE REPORT.

Points and information from seedsmen, and all interested in this column, solicited. Address EDITOR, THE FLORISTS EXCHANGE, P. O. Box 167, New York.

## Free Seed Distribution.

The following telegram from Mr. T. W. Wood, Chairman of the Seed Trade Committee, is highly encouraging:

"Have just returned from Washington seedsmen can kill the Free Seed Appropriation if they continue the pressure upon Congressmen and Senators to urge them to renewed efforts, and not let up until the work is accomplished."

We take pleasure in reproducing the following expression of opinion from the Hon. E. F. Loud, representing the Fifth District of California, the author of the new Postal Law bill, who expressed himself during his canvass as being opposed to free seed distribution. This gentleman carries some weight in Congress, and he is the only one who sends the largest seed-growing section in the United States. He believes all the growers of California are opposed to this system, understanding with that much of the seed distributed is bought abroad at very low prices. This gentleman's letter is forwarded us through Messrs. C. C. Morse & Co. of Santa Clara, Cal., to whom it was addressed:

"I have always regarded the distribution of seed by the Government as business beyond the jurisdiction of the postal administration of law. Fully one-half or two-thirds of the seed distributed is sent to growers who never see it. As a rule they are not of superior quality, neither are they rare. Twenty-five cents would buy all that seed that is never seen. If it were not for it costs the Government, besides the transportation and handling, which is a very large item, about fifty or sixty or a hundred thousand dollars a year. As well, I think, I could send flowers or cornmeal or clothing, which might be sold, to distribute this very ordinary character of garden seed."

From Hon. J. H. Brownell, House of Representatives, Washington, D. C., March 18, 1897. Editor Florists' Exchange.

I am in receipt of your printed circular concerning the Free Seed Distribution. I concur most heartily with all criticisms on the Government distribution of seed contained therein, and assure you of my most hearty support in endeavoring to correct the abuse. J. H. BROWNELL, M. C.

Replying to your letter of the 15th inst. I wish to say that you can most certainly use my influence in the matter, and I will heartily co-operate in breaking up the so-called seed distribution, which is not only a waste of money, but a rank imposition upon the people themselves. J. H. BROWNELL, M. C.

The Florists' Exchange would respectfully suggest that the Seed Trade Committee, through their chairman, address a strong personal letter of protest to every individual Congressman and Senator, asking him whether he favors continued free seed distribution or not; and if in favor of the same his reasons therefor. The letter should be a simple, logical statement of the seedsmen's position, written in such a manner as will command the attention of every citizen, and in such a way which will compel an answer. This method would afford opportunity for a personal discussion of the case with many members who, despite their conscientiousness, might be inclined to favor the appropriation, and enable the committee, through further correspondence, to meet and overcome the false beliefs under which the members in favor of free seed distribution might be laboring, and perhaps finally to bring about a majority of that which is just and right. The letter should be written with a view to meet-

ing the sentiments of the party addressed, it being well known that Representatives and Senators are most in favor of free seed distribution than are those coming from other sections where the character of the soil is more fertile. As we understand it the greatest pressure upon our Representatives comes from the Florists' Exchange, and from free seeds.

All signs point to the fact that when the appropriation bill for free seeds is again brought up in the House it will meet with more opposition than ever before. The Florists' Exchange in its receipt of several letters from Senators and Congressmen, and in its receipt of many petitions, is to defeat further free seed distribution, and if the crusade is actively and intelligently kept up there is no reason why it will cannot be defeated. We have received information that possibly a change may be made in the bill, but we sincerely trust that in whatever form the bill be presented it will meet with the same, which certainly deserves.

Retail seedsmen when writing in protest to their Congressmen should make mention of the fact that the buying, mailing and distribution of seeds by Government is vitally injurious to trade in this country. Their neighbors can thus obtain their supply free, they have no need to buy from them, and their Congressmen, if Congress is being constantly increased and better seed sent out, and now that it is the intention that a constituent can order from his Congressman any seed desired, and in quantity sufficient to start a business, to completely the destruction of their trade; hence they desire their Representatives to vote against Government appropriation of seed, and in any form it may be presented, as the measure is unjust and opposed to the spirit of the Government.

Editor Florists' Exchange. As all the seed trade is interested in the fact that the Government is making a distribution of seeds by the Government, which is proving itself so injurious to the seed trade, and is being carried out throughout the country, I therefore think they should know something of what we are doing.

In addition to other work which has been accomplished the past week, 5,000 copies of the Florists' Exchange Circular, which was mailed with a copy of the accompanying letter to all principal newspapers and florists, has been distributed. We reason to believe that it is having a good effect from responses already received.

As we are desirous to write to all the seed trade personally, but I should be very glad if they would keep such with me, and make any suggestions which they think would further the object we have in view. I think, further, that nearly all the seed trade should aid in killing this appropriation by promising what they are willing to do to complete the destruction of the trade. The balance could be called for if needed; money left over will be returned to the donors.

It is not fair that a dozen firms (which is the number who have at present published Florists' Exchange Circulars) should write to all the seed trade personally, but I should be very glad if they would keep such with me, and make any suggestions which they think would further the object we have in view.

I enclose a few extracts of letters which I think are interesting. E. W. WOOD, Chairman, Richmond, Va.

(Copy of Letter to Newspapers.) I enclose you extracts from the "Florists' Exchange Circular" which I have just published. I think I ask your kind attention. The annual free distribution of seeds is a very great injury to the seed trade, and to the seed business. This year there were given away by the Government, about twenty million packets of seeds. The Congressman and Senator had as his quota, forty-two thousand five hundred packets of garden seeds, and a large number of seeds as well as to every county store that handles seeds, for if their customers can get their seeds free, they will not buy. The bill, which was contemplated in the last bill, it will ultimately destroy all dealers in seeds in this country, and it is the same as if it had been done for the past few years. Seedsmen have been compelled to curtail their business, and to sell their seeds at prices by this unjust and unequal competition.

The free distribution of seeds is against the spirit of our government, which maintains a free trade with the Government, and not the Government the people. It likewise fosters paternalism and beggary.

The seedsmen of this country have incurred large amounts of money in advancing the seed trade, and have been so enterprising that they have really become leaders in developing and disseminating new and improved varieties of seeds and plants, and have been willing to pay the cost of the improvement of the Government; but when the Secretary of Agriculture came into office and tried to carry out the policy of the Government, he has been so unwise as to plant or cuttings of rare, new or valuable varieties, he received comparatively few orders for them, and he has been so unwise as to acceptance. It is an extravagant appropriation, and burdens the mails with hundreds of thousands of seeds, adding a very large amount to the annual deficit of the Post Office Department.

I hope that you will give your editorial support and influence in opposition to the appropriation for the purchase and free distribution of seeds by the Government, and send a marked copy of your paper containing editorial on this subject to your Congressman, or to Mr. WOOD, Chairman.

Messrs. N. W. Ayer & Son, of Philadelphia, well known advertising agents and a firm which probably places more seed trade orders than any other agency in this country, and who are therefore in the best of positions to notice the effect of the free seed trade. This advertisement has been upon the business of their patrons, have taken upon themselves at their own expense to send 100,000 newspapers to the very strong personal letter calling attention to the abuse, together with numerous copies of the Florists' Exchange Circular on the subject. Their efforts on behalf of the seed trade are deserving of the highest praise, and we trust that in increasing the popular indignation against continued free seed distribution, the Florists' Exchange newspapers we quote extracts which we deem worthy of reproduction:

Extract from letter sent to ten thousand newspapers by N. W. Ayer & Son, newspaper advertising agents, Philadelphia.

Dear Sir:—The free distribution of the distribution of free seeds by the Government has reached a point where, in our judgment, it is no longer a matter of expediency, but of principle. It is a fact that the seedsmen of the country are completely ruined by this trade, and to much as any other branch of trade, and it is equally true that in the aggregate it probably spends as much money in a given period of time in advertising in the newspapers as any other line of business, and are therefore invited to the friendly offices of the newspapers in securing their just and reasonable rights.

It is not sufficient to justify our calling your attention to this question; but strong as they are, the interests of the country are at large, and the individual and national capacities, is yet greater.

The legislation that permits favoritism to a certain class of people is not only wrong in principle and unjust in action, but it is also a waste of money. This phase of the question alone is sufficient to demand the abolition of the practice. Even more so, when we consider the opportunity for its use for political effect, making favors of the Government depend upon personal influence.

While costing the people of the United States a very large amount of money annually, the free seed trade is a waste of money for the purpose for which it was provided. The original intention was to obtain from the Government a certain amount of such reports as would be useful in the advancement of the agricultural and horticultural interests of the country. The Government records show that there are absolutely no returns of any value whatever.

It is not sufficient to justify our calling your attention to this question; but strong as they are, the interests of the country are at large, and the individual and national capacities, is yet greater.

It is not sufficient to justify our calling your attention to this question; but strong as they are, the interests of the country are at large, and the individual and national capacities, is yet greater.

# PROTESTS.

There is not much left to be said in regard to this Government seed business, as the subject has been well handled by the Florists' Exchange, and the only question is if our Congressmen and Senators persist in running a Government seed store in the face of the opposition of the vast majority of the able and wise seedsmen of this country, and cannot be convinced of the shamefulness of the policy, we will have to let them go ahead, appropriate money for the purchase of seeds and advertise for them, and let them do as they please.

Is there any law compelling seedsmen to make bids for the order, and would it be so unwise as to let them do as they please? Is there any law compelling the seedsmen in the United States agree between themselves that they will not bid for a Government contract? Would this not be the quickest way to convince our able men at Washington, and that there is a higher power than God, and that we are higher power than God, and that we are not absolutely subservient to their will and demand? With the refusal of seedsmen to furnish seeds, what could they do but take them in their sign, pull down the blinds, lock up their stores, and refuse to do any more until they can find seedsmen who will furnish the seed. Just so long will this needful for a Government contract. We are loyal to ourselves, and let the Government seed order alone.

It is not sufficient to justify our calling your attention to this question; but strong as they are, the interests of the country are at large, and the individual and national capacities, is yet greater. There is no doubt but what the lavish distribution of seeds throughout this country has reached a point where, in our judgment, it is no longer a matter of expediency, but of principle. It is a fact that the seedsmen of the country are completely ruined by this trade, and to much as any other branch of trade, and it is equally true that in the aggregate it probably spends as much money in a given period of time in advertising in the newspapers as any other line of business, and are therefore invited to the friendly offices of the newspapers in securing their just and reasonable rights.

It is not sufficient to justify our calling your attention to this question; but strong as they are, the interests of the country are at large, and the individual and national capacities, is yet greater.

It is not sufficient to justify our calling your attention to this question; but strong as they are, the interests of the country are at large, and the individual and national capacities, is yet greater.

General Manager The Cleveland Seed Co. We are, it is almost needless to say, most emphatically "with you" in your views regarding Government free seed distribution, which is clearly a prostitution of government authority.

We are, it is almost needless to say, most emphatically "with you" in your views regarding Government free seed distribution, which is clearly a prostitution of government authority.

The warm, dry time has been followed by a spell of cold and violent storms, and under which seed growers in low-lying districts at present labor. The French variety of seeds, which they are in the case completely under water, while many of the farms in the Fen districts of England are now being washed away by the sea. This has checked business all around, for even on the light lands, work about the country has been stopped, which were beginning to make progress, will not benefit by the check, for although

only a few degrees of frost have been registered... Dealers who laid in large stocks of recent importations of Lilium auratum on account of the epidemic of the Dutch bulb, have reason to regret their purchase...

The demand for the different varieties of Lilium lancifolium, which fell off rapidly last year, is back on the hands of the dealer. Florists have found the monstrous variety of L. lan. album at once easy of sale and profitable, and the smaller bulbs are offered at a cheap rate, a brick trade is being done.

EUROPEAN SEEDS.

NEW YORK.—Leon Hulseboch will travel in this country in the interests of Hulseboch Brothers, bulb merchants, importers of European seeds, &c. J. J. Comot, representing Carter, Dunnet & Beale, and A. Ingram, representing J. G. & Co. London, arrived in the city this week.

CORRESPONDENCE.

Insertion will be given in this column to all communications free from animus. But opinions expressed do not necessarily reflect our own.

Seedlings and Certificates.

I have read your article on "Seedlings and Certificates" with the greatest interest, recognizing that it opened up a much-needed discussion, which might eventually result in the betterment of our florist certificates which pretend in any manner to determine the commercial value of a new creation.

I had made up my mind to say nothing upon this subject, but Mr. Hill's insinuation in your paper, that I might have some one with a grievance seems to call for such a reply as will demonstrate that the present system of rules is not based under the petticoats of an editorial article.

The unjust insinuation that the "Florists' Exchange" has been guilty of farming out its editorial columns deserves a rebuke that will henceforth be a warning to those who would attempt to question the morale of your editorial staff.

(The article which called forth Mr. Hill's letter and which was published on page 224 of March 6 issue, was not written by a carnation grower nor by a contentant.—Ed.)

In this letter I will deal only with the commercial values that the advocates of certificates are endeavoring to fix. I will not touch upon the value of florist certificates with, for it is manifest that the commercial feature is what proves so attractive to the public, and I will deal also the rock upon which the certificate sign is destined to be wrecked.

It is no longer the granting of such certificates may degenerate into an effort on the part of a few growers and dealers to give their countrymen an introduction to new varieties of plants to the end that their own particular productions may receive the advantages of the rule. The interests of equally worthy members of the fraternity who may be averse to "wire-pulling" and who may be unable to stand the waste of time and money necessarily incurred in following up and attending the exhibitors.

Mr. Hill's somewhat arrogant denial of the use of certificates for the purpose of booming the sale of his own varieties is rather neutralized by an inspection of page 23 of the G. H. & Co.'s spring trade list for 1893.

I quite agree with Mr. Hill that no fair judge would have withheld the certificate awarded to Mr. Dornay and Mr. Graham at Cincinnati, but there were several other exhibitors to whom I wish almost any unbiased narration would have awarded certificates. The damage done is not the certificate awarded, but by certificates withheld from varieties fully as meritorious, fully as profitable to the grower as the variety to which the public, and upon which the seedling grower has expended fully as much time, care and expense which could have been fully entitled to recognition as was Mr. Graham's selection and propagation of a sport from Daybreak.

The difficulty with the whole certificate business is that the "Peers" are endeavoring to make the certificate affair a close corporation, so saddled with rules, regulations, expenses and obligations that the plain ordinary seedling grower may feel that he is not wanted, that his productions are slighted, and as a natural consequence he will drop out of the society, and that body will peter out to a few who will be engaged in a mutual admiration society.

Witness the five-dollar entry fee (put on for the avowed purpose of discouraging the small grower and obliterating his new seedlings), the dollar charge for registering names, the snap changes in the rules for exhibitions, which might appear to have been made for the purpose of giving some one the advantage. Would it not be better if the "Peers" placed themselves upon the level of the ordinary florist and made him know that his efforts were fully as well worth recognition as the efforts of the "big guns," who can tickle each other with favors? If this were accomplished, would you not have little cause to complain of the decadence of your societies?

Would it not be well to cease making certificates "affaires commerciales," and instead leave each seedling grower to introduce his own productions upon his own reputation, he will be hereafter issued with respect the legitimate results of his own reputation? Is it safe, is it just, to saddle the grower with the responsibility of vouching for the commercial value of an untried seedling?

Is not the opinion of the raiser who has studied, during an extended period, the peculiarities of the plant he offers far more value than the "opinion," i. e., "certificate" of any set of judges, when that opinion of necessity is formed from the inspection of a bunch of flowers, and a plant especially grown for the purpose of being awarded a certificate?

Are the opinions of the neighborhood florists of this country such children that they cannot get along unless the "Peers" make rules and regulations by which to govern them, which they must buy their new creations? Would it not be well to let the grower who brings a European variety to this country, saddle it with a new name, and foists it upon his brother florists, reap his just deserts? Would it not be well to let the dealer who brings here a European chrysanthemum and foists the trade by a skillful and unscrupulous use of language by the languages—meet the reward that is justly his due, and would it not be well to let the grower who deceives, who does not deceive, who has been honest

and conscientious and dealt fairly, meet with the just reward which his reputation will surely bring him?

Is it fair that because we have had a few "ray deceivers" among the trade we should assume that the grower to be trustworthy and to attempt to exact from honorable men the payment of a license to do business in the way of a florist?

While there may be some introducers of new varieties whose representations cannot be believed, whose previous record is such that they may stand in need of such a license, the honest grower who has succeeded in foisting the trade even when marching under a certificate banner?

Is there any known test of the commercial value of any plant save its introduction, its general culture and its general sale to the public? Will ten thousand certificates either help or hinder a variety which a florist cannot grow, which will not produce sufficient flowers, or which his customer refuse to buy?

Is it not a piece of brazen assumption for any judge of judges, to attempt to either condemn or indorse the commercial value of a creation without having given it a practical test? It seems to me as if all the certificates thus far issued have been mere guesses, and that all the certificates that will be hereafter issued will continue to be mere guesses. The certificates issued in the past certainly have been no proof of the value of a plant as to the commercial value of a flower, and I fail to see wherein we are to be any better off in the future.

The limits of this letter will not admit of suggesting any remedies, but if Mr. Hill cares to carry on the discussion I will endeavor in another letter to indicate such a course of action by the society as will avoid the impractical dangers now marked out by the "Peers." In the meanwhile, let us hear from Mr. Hill's clever pen again. C. W. WARD, Queens, March 15, 1897.

The New Trade Bill.

The proposed new tariff bill fixes the rates of duty on all bulbs, plant trees, shrubs, vines, roots, etc., for growth in the open air, at 20 cents per doz. and 10 cents per doz. for those to be taken in vases; thus, all raw material used by the florist will in future pay a pretty steep rate of duty. The bill, as it stands, is very long ago, the S. A. F. took a limited action to have the old 20 cent rate removed under the proposed new tariff bill. How does this intended return to the old

G. J. BENEDICT.

...FLORIST...

Palms and Ferns of Extra Quality Always on Hand.

Grand, A. H., Feb. 11th, 1897

Mr. H. A. Stoothoff.

Dear Sir:—

I am glad I can indorse Tobac-Oil. What I say is absolute fact, not fancy. My houses contain ferns and common bedding stock, callas, palms in fine variety, orchids in bud bloom, etc. To brother florists desirous of a safe article for destruction of Aphid I say, Use Tobac Oil. I find it safe and clean, doing the work thoroughly. I have used it where tender ferns and delicate flowered orchids were in bloom and they showed no ill effects. It can be vaporized, and hardly any odor is noted when house is filled with vapor, which permeates the air in a very few moments; customers could come in any time during the vaporizing process and I do not think they could notice any objectionable odor. The work done by it is truly magical. I am glad to recommend it. I apply it by placing the required quantity of Tobac-Oil (diluted) in an iron stove kettle, removing the griddle from my coil heating boiler and inserting the kettle; soon the Tobac-Oil is to a boiling pitch and the vaporizing done. Respectfully yours,

G. J. Benedict

system of heavy duties please our American florists now? Will they get more money for their flowers, or will they get out of what people should this duty come?

Will it not be a good plan to invite discussion of this subject for your special issue of April 3? A grand trade-airing on this subject, before the law be passed, may be the best thing to do. The trade of the country should certainly have a chance to speak its mind publicly and plainly. I have already certified and published in your issue, and have been invited to vote on the subject. I have not yet returned it to you, by filling out a blank vote printing in the paper, but returning it to your office to be canvassed. I am sure you will be glad to receive it, and forward it, together with your issue of April 3, to the Committee on Ways and Means of the House of Representatives.

Thus Congress will get a chance to learn the wish of the majority of our trade, nobody can contradict that the voice of the favored ones only, or more aggressive one, has been listened to, and we all will be satisfied that the will of the majority be done, whether we favor a duty or not.

How does this strike you?

A REPUBLICAN READER. (Our correspondent's idea strikes us most favorably, and, on the editorial page, our thanks are tendered to you, giving the discussion invited.—Ed.)

Tariff on Seeds.

Editor Florists' Exchange: In your issue of March 6, page 216, fourth column, you give an opinion which believes that the duty of 40 cents per bushel as given in the act of 1890, shall be "illegally" referred to Paris, and changed. This is incorrect and misleading as regards peas, as they are dutiable at 20 cents per bushel in the act of 1890, and have never been changed since. Previons to 1890 the duty on peas was 40 cents per bushel.

Knowing you will be glad to correct an error, we thought you would be glad to see this. JOHN H. ALLAN Seed Co. Pictou.

Toronto.

Trade Notes. Carnation show-downs are very plentiful here now; violets are offered by the thousand. Roses are still fine and abundant. The weather has been very bright, and nearly all the carnations offered in the show are generally rather slow. One of our growers is sending to present a new, nice box of roses, enclosing his card in the boxes, and there is no doubt he will increase his number this year.

There has been no plant trade on the market this Spring, as the Saturdays have to be given to the carnation show. It will go on now, and there is every prospect of warm weather soon. THOS. MANTON.

Providence.

The Market. Business has revived a trifle during the past week, but is still far from brisk. There is a demand for flowers, and a majority of which are of the first quality. All roses, however, are scarce in this market, but what few are in demand are secured from Boston. Violets are fine and in large quantities. The indications are that there will be a considerable shortening up of the supply at Easter. Jetties.

MATHEW MACNAIR has been nominated by the Prohibitionists for Representative to the General Assembly from his district.

J. AUSTIN SHAW, representing Siblebrot & Son, of New York, was a recent visitor. While in Providence he was met by several florists, is contemplating the building of three greenhouses in the Spring on his farm at Conant, near Providence.

The Mason Box Company at Attleboro, which manufactures a large number of the florists' boxes now in use, is making radical changes in the interior of their box. Preparations are being made for the putting in of several new machines for box making. A new gasoline engine has already been placed in position, and is about to be run. A new flower press has been purchased.

WALTER MCNORRIS has gone on a visit to Glasgow, Scotland.

WILLIAM MITCHELL has been confined to his home during the past fortnight by a cold of appendicitis, but is now improving.

RANDALL BOOKER, of Johnston, R. I., intends to enlarge his plant nursery, by building another house for carnations and violets.

THOMAS JOHNSON and wife are contemplating a Southern trip next month. W. H. M.

Live Sphagnum Moss and Orchid Peat BEST QUALITY. For Prices, etc., address, Bernhard Lapp, New Providence, N. J. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

FOR SALE CHEAP. Scott, McGowan, Weaver, Portia. Will exchange one thousand for a thousand. PORTIA, BENS. J. PASS-NORE, New Providence, N. J. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

CHAST. SIEBERT'S BLESS'D FLORIST OF PITTSBURGH PA GROWS & SELLS CARNATIONS THAT PAY. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Carnations, Etc. HIGH GRADE ROOTED CUTTINGS. Write for price list.

H. WEBER & SONS, P. O. Box 57, OAKLAND, Md. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

LAST CALL. 8000 RHOSSES. Rooted cuttings, Mermet, Breda, Nipetox, per 1000, \$0.00; per 1000, \$1.00. Bridewell, La France, Meteor, Paris, Papa Doreo, \$1.25 per 1000; \$1.00 per 1000. CARNATION PATENT. Scott, Portia, McGowan, A. Albertini, \$1.00, 85c per 1000. K. NIPETOX, \$1.00 per 1000. Meteor, 40 cts. per 1000; \$2.75 per 1000. By mail add 10 cts. per 1000. Cash with order.

J. J. LAMPERT, Xenia, Ohio. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

50,000 CARNATIONS. ROOTED CUTTINGS, FLAT GROWN.

L. McGowan, Eldorado, Wm. Scott, Portia, Dayton, Silver Spray, Alaska, J. Harrison, Tidal Wave, Meteor, Rose Queen, \$1.50 per 1000; \$2.00 per 1000.

MARIE LOUISE. 10,000 Violets, flat grown, \$1.50 per 1000; \$1.00 per 1000. Cash with order. HENRY A. NIEMEYER, Erie, Pa. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Garnation Cuttings. Strong and well rooted, of the following varieties: Jubilee, Triumph, Amethyst, Alaska, Bridewell, Dean Hole, Goldenrod, Lizzie McGowan, Mrs. Albertini, Mrs. Peachblow, Rose Queen, Silver Spray, Wm. Scott, Uncle John.

PRIMULAS, 3/4 inch, \$2.00 per 1000. Send for list and prices on large lots. Logan Ave. Greenhouses, - Danville, Ill. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Garnations. (Rooted cuttings now ready.) Mayor Pliegree, Meteor, McGowan, Day-break, Scott, Portia, and other good ones. Good Healthy Stock Delivered.

ROSES for Spring. CUT ROSES and CARNATIONS always in stock. H. DALE - Brampton, Ont. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

ORCHIDS and PROTEES. The Finest Collection in Existence.

L. CHINARD, 15 QUAI ST. ANTOINE, Lyons, France, who has made a specialty of these two articles for many years past, and obtained numerous prizes medals, offers seed sown from over 100 superb varieties, at \$15.00 per 100 packets. Special terms for large quantities. Remitt Draft on Paris or Lyons with orders.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Boston.

The Boston wholesale market this week has been in a fairly good condition, stock of good quality moving readily, with the exception of violets and bulbous flowers. Violets particularly are in abundant and prices uncertain. Roses and carnations and all other regular lines, including smilax, are in good demand. Flower orders have not shown any advance. The retailers are doing a satisfactory business all along and the wholesalers report good shipping business.

Spring Show Next Week. The Spring show of the Massachusetts Horticultural Society opens at Horticultural Hall next Tuesday and continues until Friday, remaining open day and evening. Both halls will be filled with choice exhibits, making the event of great importance.

Market Around. The seedsman in the vicinity of Market street report a very favorable opening in trade in that line, with prospects of a good Spring's business.

THE RETAILERS are beginning to make inquiries for flowering plants for Easter trade.

JULIUS ZIEN is settling established at his new retail store, No. 3 Beacon st.

C. P. GRIMMER has everything in good condition at his new store, which is particularly attractive.

H. J. GOMMANS, representing K. J. Kurkij of Ghent, Belgium, is looking up business for this season. He is located at his headquarters at the United States Hotel.

M. CHARLES V. WHITTEN died at his home in Dorchester, at 3 o'clock Thursday morning. He was a well-known business man and had been for many years at the head of one of the largest clothing houses in New England. He was an ex-warden, ex-director of the Commonwealth Bank, and occupied many other positions of trust and honor. On his bequest the estate in Dorchester is an extensive range of greenhouses which have been under the management of Lawrence C. Cutler. Mr. Whitten was about 60 years of age, was a resident of Dorchester for 40 years, and leaves a widow, two sons and two daughters.

Phidelphea. State of Trade.

There has been very little business during the past week; all kinds of flowers have sold slow, even roses, which have gone well all along, have stood still the past few days. Prices for good dovers have remained firm, but second-class stock could be had at any fair price.

Carnations have sold fairly well, but at a reduced price. There has been a better sale for first-class flowers, the stores asking more for these, so that poor stock finds buyers. Violets are continuing quiet and only really first quality blooms are bought by the stores.

Northern daffodils are now very abundant, and in many cases the sales scarcely pay express charges. Good double Violets are selling slow. \$3.00 is the little room for these southern single.

Horticultural Society. The meeting on Tuesday last, was poorly attended. Federsze gave a very interesting lecture on "Spraying Orchards." It was one of the best that has been delivered before the Society in some time. He also answered many questions regarding spraying. City uses for carnations are recommended, using the Bordeaux mixture, with 5 ounces of Paris green and the arsenite of lead solution, 1 to 15.

W. R. SHLEINER had on exhibition a vase of new carnations, mostly of the line, which was greatly admired; it is of a color that is wanted, and will be welcomed by all. As he named the variety a cardinal red, death of St. Eisenhart.

W. T. EISENHART, father of R. M. Eisenhart, died on Friday last, at Doyistown, Pa. He was a resident of Boston for 50 years. D. R.

Paterson, N. J. The Park Commissioners, at a special meeting held Monday afternoon last, passed a resolution expressing sympathy with the city and with the family of the late Henry McCrow, park superintendent.

Hot-Bed Sars. Tensons white-ledged. Corners secured with ironed-wilpins. Every detail of construction perfect. Made of Chem. Cymex Lumber. Quick Shipments.

We have in stock and can ship immediately: 3 ft. x 6 ft., 3 rows 10 in. glass, 1 ft. 3 in. x 6 ft. 4, 8 in. x 6 ft. 5, 8 in. Not glazed, 1 1/2 in. thick.

Delivered Prices. Quoted on application. State size and quantity wanted. No order too small to receive careful attention, and no one too large for our facilities.

LOCKLAND LUMBER CO., Lockland, Ohio.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

SALE OR EXCHANGE. Carnations, rooted cuttings, McGowan, 25c per 1000; Kurling, 35c per 1000; Blanche, 40c per 1000; Wm. Harrison, G. A., \$1 per 1000; Gentsia, 4 in. pots, \$6 per 1000; Violets, extra large, \$2 per 1000; Double Stocks, 2 in pots, \$2 per 1000. Cash with order, or on exchange for other varieties of Carnations and Double Petunias.

B. P. WYNNIS, Lebanon, Pa. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Novelties of Malmaison Carnation.

Self colored, 2 to 4 inches across. Very fragrant. Marie, 12 to 14 inches. Princess Mary, 6 to 8 inches. Miss Edward Pymant, 15 inch. Fruit of 1000 seedling. The old varieties, 1/2 inch plant.

Bowler Carnation, rarely. It is the time to get color. Order now, 1000. \$2.00 per 1000.

3 1/2 inch - Sonnet de St. Mary, self pink, per 1000, \$1.00. 4 inch - Fuchs, self, single, 1000, \$1.00. 4 inch - Cactus Dahlia, new, for 4 cut flowers, 1000 plants, true to name, 1000, \$1.00. 4 inch - Rose plants, true to name, 1000, \$1.00.

CASH WITH ORDER, PLEASE.

ALBERT KNAPPER, Frankford, Phila. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

SPRINTERS. Good healthy Stock. Grown Cool.

Wm. Scott... \$1.00 McGowan... \$1.00 Day-break... \$1.00 A. Wood... 1.25 Portia... 1.00 Uncle John... 1.00 Good healthy Stock... 1.25 Prepared by express when cash with order.

Mrs. Croy Canua, \$2.00 per 1000.

G. S. BATTIN, South Charleston, Ohio. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

GOOD TIMES will come if you grow good carnations. Your customer want the best flowers, and we can sell you the best varieties to produce them.

Messie, new scarlet, extra fine... \$4.00 \$75.00 Fire Pink, white, large and fine... \$2.00 \$19.00 Mrs. McBury, light pink, large... \$2.00 \$70.00 Mrs. W. White, Special Scott... \$2.00 \$70.00 Mayor Pliegree, yellow, large, fresh... \$2.00 \$75.00 Mrs. Dubois, clear pink, fresh, early... \$2.00 \$75.00 Mrs. Bread, A. White, marked extra... \$2.00 \$75.00 C. A. Bana, shell pink... \$2.00 \$75.00 Lillibush, white, small... \$2.00 \$75.00 Mad Bred, white, bush-center... \$2.00 \$75.00 Fairy, blue and white... \$2.00 \$75.00 Belle Falls, beautiful pink... \$2.00 \$75.00 Mrs. Bread, A. White, marked extra... \$2.00 \$75.00 Billie, large, scarlet... \$2.00 \$75.00 8 inch stock of standard varieties, send for complete list.

GEO. HANGOCK & SON, Grand Haven, Mich. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Another Batch of strong Rooted Cuttings of the

California Giant Daisy. Now ready, \$1.00 per doz.; \$8.00 per 100.

RUDOLPH FISCHER, Great Neck, N.Y. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

GARDEN, ETC. HOSE. "Miscellaneous Standard" for cutting roses, etc. at 5c, 3, 10c, 4 prtg., mounted in one foot hose made of the best Florists try a single length. Agents wanted. UNTERKEDD 573839, 10, 18 2nd Street, S.W. WRITE WRITING SECTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Have your COLLECTIONS MADE THROUGH THE NATIONAL FLORISTS' BOARD OF TRADE, 27 BROADWAY, NEW YORK.

SUMMER IN WINTER. By Using Standard Greenhouse Boilers.

GIBLIN & CO., - Utica, N. Y. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

MASTICA. For Glazing Greenhouses. A substitute for putty. Superior to all other kinds. MASTICA AND MASTICA GLAZING MACHINES. Also Green Glazing Machines. S. & A. at Pittsboro, N.C. Address for circular, F. O. PIERCE, 60, 170 Fulton St., N.Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

GEDAR OIL SOAP. The best for all purposes. It is all around the market; the best preventive if used as a regular wash soap.

August Roiker & Sons, New York, 150 West 44th St., N. Y. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

THE BEST ROSE LEAF EXTRACT FOR ALL TOBACCO PIPE FLOWERS.

The Biggest Little Thing on Earth. Bug Exterminator.

Does any kind of poison, dry or liquid. Only put a few drops on the leaves of the plants with your hand, and it does the work. No sprayer or stop water. No glass bottles. No bottles. No glass bottles. No glass bottles. No glass bottles.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Does not injure the most sensitive plants. Endorsed by all horticulturists.

Does not injure the most sensitive plants. Endorsed by all horticulturists.

Does not injure the most sensitive plants. Endorsed by all horticulturists.

Does not injure the most sensitive plants. Endorsed by all horticulturists.

Does not injure the most sensitive plants. Endorsed by all horticulturists.

Does not injure the most sensitive plants. Endorsed by all horticulturists.

Does not injure the most sensitive plants. Endorsed by all horticulturists.

Does not injure the most sensitive plants. Endorsed by all horticulturists.

Does not injure the most sensitive plants. Endorsed by all horticulturists.

Does not injure the most sensitive plants. Endorsed by all horticulturists.

Does not injure the most sensitive plants. Endorsed by all horticulturists.

Does not injure the most sensitive plants. Endorsed by all horticulturists.

Does not injure the most sensitive plants. Endorsed by all horticulturists.



# THE W. & T. SMITH CO. Have on Lands that MUST BE CLEARED

**ASH** (*Fraxinus*). 7 to 15 feet.

**BEECHES**. Assorted, 3 to 6 feet.

**ELMS**. Assorted, 8 to 10 feet, and **CAMPERDOWN**, extra 2 year heads.

**MAGNOLIA ACUMINATA** and **TULIP TREES**, 4 to 7 feet.

**MAPLES**. Norway, Silver, Sycamore and Sugar, 6 to 10 feet.

**MOUNTAIN ASH**. European, Oak Leaf and Weeping.

**POPLARS**. Lombardy, Carolina, Balsam and Bolleana, 6 to 15 feet.

**WILLOWS**. New American, Rosemary, Babylonica and Kilmarnock.

**CUT-LEAF BIRCH**, very fine, 8 to 12 feet.

Norway Spruce, Arbor vitae and other Evergreens.

A LARGE COLLECTION OF

## SHRUBS

and for our regular Spring Trade List.

Largely Altheas, Almonds, Deutzias, Euonymus, Hydrangeas, Japan Quinces, Lilacs, Spiraeas, Snowballs, Weigelas, &c., &c. **DALIAS**, Dry Roots. **HERBACEOUS PAEONIES** and **CLIMBING VINES**. Send list of wants for **Special Prices** on above named stock.

**W. & T. SMITH CO., GENEVA, N. Y.**

# GENEVA, NEW YORK.

## VEGETABLE PLANTS.

**LETTUCE**. Big Boston and Grand Rapids 15 extra per 100 \$1 per 1000.

**CABBAGES**. Jersey Wakefield and other varieties, 15 per 100 \$1 per 1000.

**ONION SETS**. New York, small plants for transplanting, Extra Early Red, Royal Red, Louis, and others.

**THE EGG, PEPPER and CALIF. BLOOM PLANTS**. Price list on application.

**R. VINCENT JR. & SON**, White Marsh, Md.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## FAY'S CURRANTS FOR SALE.

Price of 3-year No. 1, \$22.50 per 1000.

" 2-year, No. 2, \$16.00

" 3-year, No. 1, \$28.00

Packing free.

**F. BURDETT**, Clifton, Monroe County, N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## How Can You Make \$10

Easier than by buying and selling 100 Peach trees. Best standard sorts, No. 1 also. We supply them, \$4 per 100, F.O.B.

**W. P. BRINTON**, Christiana, Pa.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# TREES

**F. & F. Nurseries**, Springfield, N. J.

1000 Sugar Maple, 12 to 15 feet; 15 to 25 inches caliper.

75 Weeping Purple-leaved Maple, 12 to 15 feet; 10 to 15 inches caliper.

500 Common Maple, 10 to 12 feet; 15 to 25 inches caliper.

750 Wire-leaved Maple, 12 to 15 feet; 15 to 25 inches caliper.

150 White-leaved Horse Chestnut, 10 to 12 feet; 15 to 25 inches caliper.

150 Purple Birch, 10 to 12 feet; 15 to 25 inches caliper.

**WILLIAM WARNER HARPER, Manager**, Chestnut Hill, PHILA., Pa.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# Andorra Nurseries.

Specialties: large specimen ORNAMENTAL TREES, large hardy RHODODENDRONS and AZALEAS.

2500 Norway Maple, 12 to 15 feet; 15 to 25 inches caliper.

3000 Sugar Maple, 10 to 12 feet; 15 to 25 inches caliper.

1200 Western Catalpa, 10 to 14 feet; 15 to 25 inches caliper.

75 Weeping Birch, 8 to 12 feet; 2 to 3 inches caliper.

200 Purple Hawthorn, 8 to 12 feet; 15 to 25 inches caliper.

1000 Oriental Plane, 12 to 15 feet; 15 to 25 inches caliper.

500 Italian Poplar, 10 to 12 feet; 15 to 25 inches caliper.

1500 European Linden, 10 to 12 feet; 2 to 3 inches caliper.

**WILLIAM WARNER HARPER, Manager**, Chestnut Hill, PHILA., Pa.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

10,000 California Privet, one year old, 15 to 20 inches, two or more branches, at \$1.50 per 100; \$10 per 1000.

12 to 15 inches, at \$1.50 per 100; \$10 per 1000.

**Double Pearl Tuberosa Bulbs**. No. 1—4 to 6 per 100; \$7 per 1000. No. 2—3 to 4 good flowering bulbs, 50c. per 100; \$5 per 1000; all packed to carry safely without extra charge.

**CHAS. BLACK, Hightstown, N. J.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## COMMONWEALTH OF PENNSYLVANIA. DEPARTMENT OF AGRICULTURE.

TO WHOM IT MAY CONCERN: This is to certify that I have this 11th day of October, 1897, inspected the nursery stock of G. L. Longsdorf, grown at Florida, County of Adams, State of Pennsylvania, and found to the satisfaction of the provisions of "San Jose Scale, Rosetta, Yellowed, or other injurious insects or diseases" that such trees transferred on Nursery Stock from the nursery to the orchard grounds.

Signed G. O. GROFF, Special Agent.

## 50,000 PEACH to offer at

**C. L. LONGSDORF, Florida, Pa.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## Rhododendrons

of American-grown hardy sorts.

**Japanese Maples**

and other Rare Plants.

**Parsons & Sons Co.**

LIMITED,

Kissena Nurseries, Flushing, N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## ...I HAVE A... FINE STOCK

—OF—  
Pears, Cherries, Peaches, Apples, Quinces.

- MANY IN BEARING SIZES.
- 2,000 Elm..... 14 to 16 feet.
  - 8,000 Elm..... 10 to 14 "
  - 8,000 Norway Maple..... 10 to 12 "
  - 8,000 Sugar Maple..... 10 to 12 "
  - 700 Cut-leaved Birch..... 8 to 10 "
  - 800 Golden and Scattered Elm..... 10 to 16 "
  - 500 Hood-leaved Maples..... 9 to 12 "
  - 1000 Norway Spruce..... 10 to 12 "
  - 700 White Fringe..... 4 to 8 "
  - 1,200 Purple-leaved Beech..... 4 to 8 "
  - 15,000 California Privet..... 2 to 8 "
  - 15,000 Evergreen, all sizes.
  - 8,000 Rose, X, X, etc.
  - 10,000 Shrubs and Climbing Vines, XX line.
  - Superintendents of Parks and Cemeteries, and those wanting stock for their customers, should call on me or write. Two Railroad, 170, Express Co.'s and Westchester to New York City. Address: **STEPHEN CRANE, Norwalk, Conn.** Proprietor of Norwalk Nurseries.
- WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## PEACH & PLUM TREES

FOR SPRING DELIVERY, 1897.

Reliable and clean stock at low wholesale rates. Send for Surplus Lists.

## ASPARAGUS ROOTS.

2 and 3 Years, Strong.

**ALEXANDER PULLEN**, Lilford Nurseries, MILFORD, DEL.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# ROSES!! ROSES!!

STRONG FIELD-GROWN DORMANT PLANTS.

Large stock Gen. Jacqueminot, Paul Neyron, Ulrich Brunner, Magna Charta, Haroun Rothchild, and other leading varieties of Hybrid Perpetuals, \$9.00 per 100; \$100.00 per 1000.

**MOSS ROSES** in the ten best sorts, \$9.00 per 100. **CLIMBING ROSES**, Baltimore Belle, Prairie Queen, Tennessee Belle, and Seven Sisters, strong, 2 years, \$6 per 100.

**Wichuriana** (Memorial Rose) field-grown, \$8.00 per 100.

**CANNA**. New Giant Flowered AUSTRIA, strong, 4 in. pot plants, \$3.00 per doz.; \$20 per 100. A large stock of the cream of the older varieties, such as Florence Vaughan, Queen Charlotte, Eldorado, Sunbeam, Alphonse Bouvier, Charles Henderson, Madame Crozy, President Carnot, Admiral Aveilan, Edward Mig, etc. Do not fail to get our prices before buying.

**CALADIUM ESCULENTUM**. Sound bulbs with good centers, 75¢ per doz. 6 to 7½ in., \$3 per 100. 5 to 6 in., \$2 per 100.

**BEGONIA PURITY**. A new pure white of the semperflorens type, very free flowering, \$2 per doz.

**GERANIUMS**. Strong 2½ in. pot plants, large stock of S. A. Nutt, Marvel, Heteranthe, La Favorite, and other best bedding sorts, \$25 per 1000.

Immense stock of Fruit Trees, Nut Bearing Trees, Grape Vines, and Small Fruits. One of the largest, if not the largest, assortment of Ornamental Trees and Shrubs, Climbing Vines, Bulbs, Hardy Perennials, etc., in America. And 25 greenhouses filled with what the average florist is most likely to want. Correspondence solicited. Catalogues and trade lists free.

**THE STORRS & HARRISON CO., Painesville, Ohio.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## OPINIONS

### A Talk on Carnations

At the regular meeting of the New York Gardeners' Society, held on Saturday, March 13, C. W. Ward, of the Cottage Queens, N. Y., gave an interesting and instructive presentation, for exhibition, and general purposes. He pointed out that in a commercial variety early and continuous flower qualities were essential. There were some varieties that were "croppers," as, for instance, Buttercup and Eldorado, neither of which was a continuous bloomer; there was always an intermission in their flowering. The same was prevalent in Scott, though the intermission was not so marked as in some other varieties. This tendency to crop could be changed somewhat by pinching in the field; endeavoring to avoid cutting all the buds back at one time so as to prevent getting all the buds together. There were also some varieties that can be "stumped" by checking and thereby forcing the flowers.

Mr. Ward named the following carnations as being in his experience the best crops of the kind: **PINK**—Scott, Daybreak, C. A. Dana and Tidal Wave.

**YELLO**—(the most difficult list to lay out at the present time.)—McGowan, Alaska, Storm King, Flora Hill and Harrison's White. In the last one finding a place in the list on account of it being a sport from Scott.

**VARIEGATED**—Mrs. George M. Broad and Armaszdy.

**YELLOW**—Buttercup, Eldorado and Mrs. Magre.

**SCARLET**—The only variety in this color the speaker had ever been able to make a crop, but he succeeded in placing it in the best commercial scarlet-to-day, but, unfortunately, the flowers were too small.

**Double** carnations, Mr. Ward enumerated:

**PINK**—Pridemast, Daybreak, Maid and Tomp.

**WHITE**—Storm King and Flora Hill.

**VARIEGATED**—Lily Dean, Mrs. George M. Broad and Armaszdy.

**YELLOW**—Buttercup and Mayor Pines.

Eldorado can also be grown, but it is very hard to succeed in making it. He obtained perfect flowers of this variety by placing a rubber band around the bud as soon as the flower begins to open.

In regard to seedlings, Mr. Ward stated it was becoming a difficult matter to select the best variety to grow. It was entirely impossible for him to tell anything about a carnation until he had grown it sometimes three years. By studying the habits of many seedlings, it was possible to grow splendid flowers and obtain large crops.

In the discussion a number asked a question regarding Mayor Pines carnation being opposed to heavy feeding—rich soil. Mr. Ward had seen the variety at the originator's place; there, he thought, the plants were fed regularly; the soil was rather heavy. However, in his own garden, he saw the plants about Thanksgiving; they were then in full flower. The stems were about 20 centimeters in diameter, and the flowers 3 inches in diameter. It seemed to him that a rich soil suited the variety, but that the soil at the originator's place; the stem and flower were right, and it was a magnificent keeper.

When questioned as to the relative to the propensity of Scott to burst at the present time, Mr. Ward said it was inexplicable. The reason that was given was that the variety, which every variety of carnation has, after it has been forced for any considerable length of time, this intermission was, the freer you have a variety, the more cuttings it produces, the greater the number of flowers you grow from them. The more you propagate it the sooner it begins to flower. Intermission to whether obtaining cuttings from different places, who help the matter, the speaker replied that it was not, and again, it might not be entirely true. He said there the cuttings had been cut and whether or not the stock had been cut in the country, he would prefer to get the plants, and examine the plants; and then, by the time he had cut them, to ascertain how well the cuttings struck. The pretty good test of the vitality of a carnation can be obtained if the cuttings struck readily; if they came out without any spot or without any burning of the leaves, it is a sure sign that the vitality of the plant was unimpaired. One thing

noticeable in the falling away of vitality was the difficulty with which cuttings could be struck. There was a great deal of the productiveness of the plant when the striking of the cuttings was not affected at all by the vitality of the plant, and it did not blossom much, if any. This had occurred in several kinds; in that case, the vitality of the plant, much more than when the plant was very productive. If one finds a variety, the cuttings of which do not strike readily, he may make up his mind that something is wrong.

Chris Besold, Minola, N. Y., made a few remarks about his new varieties, Mrs. Francis Jost and Nero. From what is possible, by selection of good cuttings, to obtain improved plants of a variety that might appear to be a different strain altogether. He advised against using cuttings affected with viruses. Plants attacked with spots by proper attention, could be got into good condition again.

Among the exhibits shown were the varieties Mrs. Francis Jost and Nero, from Mr. Besold, the former being certified; Maid Dean and Lily Dean, from John M. Ward, the latter was awarded a certificate. H. Moutch, Bay Ridge, sent two seedlings, red and white, receiving honorable mention for their beauty.

### Selection of Varieties.

Propagating is still at its height. A great many growers are busily engaged with this, while a greater number are buying either for their own use or for resale. The stock will prove profitable additions to their stock.

Some of us are thus engaged it might be well for us to pause and reflect on how many varieties we may be growing, which have not been selected for any special purpose to make them really profitable and worthy of further consideration.

Among the discarded and less than twelve varieties, five of these were novelties of 1896. Doubtless many others discarded, which may not be worth the trouble.

When planting time came last fall we realized that it would be far better and more profitable to discard the older and more tried varieties of the same color, and which were superior to them in every respect.

Although we claim to be situated in a region most favorable for the culture of carnations, we have had to pay for the seedlings for the time, labor and the space they have occupied, and the sums they cost us. Had these varieties originated with us, I hardly think they would have been discarded, and the sums they cost us. I know of nothing more injurious to our business than to disseminate novelties which will not pay for themselves. The rate "stunt," that it would be folly to attempt to grow with profit.

Some of us do not wish to infer that these new carnations did not exhibit some good qualities at the place of their origination, but all of them did show some good points in us, but their bad points were so far in excess of their good ones as to render them unprofitable. Some of these varieties might have passed fifteen or twenty years ago, but it must be remembered that great changes have taken place in the culture of the carnation since then, and one, which is to displace, or even divide the honors with it, will not be in the picture. It will be a gem of the first water.

This year we will discard some eight or ten varieties, five of which are novelties of last year.

Most of these and all of the new ones, selected, will be in the picture for the year, they were deemed as unworthy of a place there.

On the subject of most of the novelties sent out each year, and while we find it convenient to discard some at the present time, it is not the whole of the matter, we feel satisfied with the result.

It does not always get all of the best ones, which will be the most profitable to do this without buying some of each and every one as they are sent out each year. It would be the most unprofitable to do this without buying some of each and every one as they are sent out each year.

Now, I would not advise an indiscriminate purchase of all the new varieties, neither would I advise, by in large quantities, for the average florist cannot afford to do either of these. Small quantities, and as many varieties as possible is the better plan.

By this method the most profitable ones can be selected without much loss, and if a large quantity of any one or more of them the following season the order can be placed intelligently.

We do not wish to be profitable, however, to buy largely of a few which give promise of being extra fine and decided acquisitions.

When this can be done the full benefit of a novelty can be reaped.

As when every attention was given them, and as a result of this treatment, you discard many varieties for something else, which may not be a whit better, or not even as good.

A reference to the past few years shows me that we discard about or nearly as many new varieties as we do of standard sorts.

It is a mistake to think we are not advancing, but we are not advancing so far, but there is much chat mixed with the wheat, that only an impartial and thorough man can see and judge and separate.

I hope to see the day when all growers of seedlings will have a proper regard for the quality of their seedlings, and not their expenses in experimenting in seedlings by disseminating varieties which, in their better judgment, should be consigned to the waste pile, or at least kept at home.

The confidence of the average florist in the ability of the grower to propagate by practices as these, and if that confidence is to be restored, let us have a higher grade of seedlings.

Nobody objects to paying a good price for a good thing, but to pay a good price for rubbish is not a good thing. It is little more than the average florist can afford.

I am not leveling these remarks at any particular individuals; those who are guilty will feel self-conscious, and if this article should help to bring about the desired result, I will feel more than repaid.

I trust that by speaking thus I do not make any enemies, for this is not my wish. Those who go into the seedling business should not do so with the expectation of reaping a bountiful harvest, for there is considerable work and expense attached to it, and it is not easy to liquidate this expense by offering a poor or medium quality to the trade as a grand money maker.

It is better to possess a few, and have a purpose of putting it on the market. It is better to possess a few, and have a purpose of putting it on the market, and abide by that judgment, than to be the disseminator of a worthless variety.

H. WEBER.

### Nivea Carnation Again.

I desire to state that in the Fall of 1898, in purchasing Winter stock of white carnations of H. A. Cook of Shrewsbury, Mass., I did not see the variety Nivea. I ordered, saying that it was a new seedling of mine, but that he did not know whether it had been previously introduced. He sold me without any restrictions whatever. It has since been introduced, and I have propagated it for many years, and have a purpose of putting it on the market.

It is better to possess a few, and have a purpose of putting it on the market, and abide by that judgment, than to be the disseminator of a worthless variety.

Spencer Mass., A. W. HOTT, Ado. Mar. 16, 1897.

### FLOUS CARNATION DELLA FO!

MYERS & SATTMAN, Wyndmoor, Chestnut Hill, Phila.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

### THE CARNATION NOVELTIES,

Other new sorts, also noted introductions, and well-known standards. Our Fine New Illustrated Catalogue Now Ready. FREE.

**CARNATION AND COLEUS CUTTINGS.**  
Strong, well-rooted cuttings of the following varieties, free from rust, Scott, Portia and McGowan, \$1.00 per 100. Alaska, Storm King, Peach Bloss, Helen Keller, Minnie Cook, Iago, Lizzie Gilbert, Mrs. Jost and Daybreak \$2.00 per 100. Beira Bro. Eldorado and Boston \$3.00 per 100. Colorado, no name but, Vereschaffel and Golden Breeze \$1.00 per 100. Cash or satisfactory reference.

**CEO. M. EMMAWS, Newton, N. J.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

### Healthy Carnation Cuttings.

**COOL GROWN, NO RUST.**  
Lizette McGowan, William Scott, Portia, Eriosa, Mrs. Jost, Storm King, Peach Bloss, Helen Keller, \$1.00 per 100. Lillian, Thomas Curdies and Elizabeth \$1.00 per 100. Cash or satisfactory reference.

**NEW MEADOW GARDENS.**  
Barrington Centre, M. J. W. S. NICHOL, Prop.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

### ROOTED CARNATION CUTTINGS.

**Scott and Portia,**  
\$1.25 per 100; \$1.00 per 1000.  
**Lizette McGowan,**  
\$1.00 per 100; \$1.25 per 1000.

**THE BURLINGTON, N. Y.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

### ELDORADO

The finest Yellow Carnation in cultivation, Rooted cuttings, \$5.00 per 100 \$3.00 per 1000.  
**LADY CAMPBELL VIOLETS.**—Rooted runners, 50 cts. per 100.  
**GIANT DOUBLE ALYSSUM.**—\$1.00 per 100 \$3.00 per 1000. Send for Circular.

**W. R. SHELMIER, Avondale, Pa.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

### BALTIMORE

A New Pink Carnation. Color of Ciner, large, light, fragrant; stiff stem, good keeper. Ready January 25. Rooted Cuttings, \$1.50 per doz.; \$10.00 per 100.

**CONRAD HESS,**  
328 Franklin Ave., BALTIMORE, MD.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

### The New Scarlet Carnation

**MORE**  
will be disseminated March 1, 1897. Get your orders in now. \$1.00 per doz.; \$10.00 per 100. \$7.00 per 1000.

**HOPP & LENKE,** East Grand  
Avenue, Bay, Mich.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

### IT'S A GOOD THING

**MINNIE COOK**  
Get your stock now at home, where you know you are getting selected stock.  
\$3.00 per 100; \$25.00 per 1000.

**Meadow View Greenhouses, PAERLPRINT, N. J.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

### CARNATIONS

**ROOTED CUTTINGS**  
of the leading varieties, clean, healthy stock. Positively no rust. Send for list.

**WM. SWAYNE, Kennett Square, Pa.**  
P. O. Box 326.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE



## Decorative Effect of Trees and Shrubs in Winter.

(Continued from page 265).

*Porphylla Fortunei* is not generally thought of as an ornamental shrub in winter, but I have been especially attracted this year by a large clump of it in the arboretum. It is quite a new shrub, and has a mass of greenish yellow. Planted in a mass it is very effective; individually it attracts less attention. *Clethra alnifolia* is noticeable on account of its old persistent seed pods, blue gray in color, with the bluish white of the stamens showing. Thus typical though a winter shrub, it is extremely showy on account of its large clusters of reddish brown seed vessels, which last until the plants start into growth in spring time. *Rhus aromatica* is pleasing to the eye on account of its speckled flower clusters borne on the extremities of the slender grayish leafy stems. The same might be said of all catkin bearing shrubs, as *carpinus*, *alnus*, *myrica*, etc.

*Pyrus nigra* holds its black, buckcherry like fruit all winter, the one objection in noting this being that the berries wither upon the approach of severe weather. *Pyrus malinella* has a beautiful covering of snow over its bark of a brownish tint color which makes it stand out conspicuously in winter. Among the other ornamental shrubs Hamamelis, Virginiana, or the witch-hazel, is very noticeable in winter on account of its persistent deciduous leaves, which, like those of some of the other, remain on the plant throughout the winter. This persistent character of the leaves may not be a desirable point in the estimation of all, in that it conveys the idea that the plant is dead; to me, however, it is desirable in a limited quantity to vary the color of the winter scene, the common European chestnut, is very attractive in winter on account of its large terminal clusters of thickly set black berries.

Rhodotydes kerrioides, when well set with terminal clusters of four hard-shelled blackberries, is very fine for winter. While *Hamamelis*, the black elder, does not retain its leaves in winter, it is very attractive throughout the winter, yet it should not be omitted from a list of this kind, as it is still an effective plant during the holidays. The same can be said of the Japanese form, *Hamamelis*, which is vastly more prolific, but bearing berries of a smaller size. *Celastrus scandens* and *Celastrus articulata* are two of the best vines for running over a trellis work in winter. The idea of getting pretty winter effects, as the small drooping clusters of orange colored berries make the winter scene more attractive.

In trees the birches seem to stand in front as the most beautiful in the winter, and the most characteristic persons express an admiration for this class of trees, which seems to have a greater charm than any other. The most attractive is the weeping birch, *Betula alba*, probably the most common, especially *B. alba laciniata*, which has the most attractive and graceful in winter, the white trunk marked here and there by the black connections of the slender branches. The tree has the habit of the slender branches, making it a very beautiful tree. *Betula papyrifera*, or the paper birch, is also very attractive in its native haunts; a broad-spreading tree of medium size with smooth white bark and a trunk like that of the birches, with a dish single form a curious contrast with its slender reddish bronze branches. *Betula nigra*, with its distinct character from the others, but no less desirable. When standing alone it is singularly graceful. The stem of the plant is very white, the trunk is brown bark, very loose and torn; the trunk is dark gray, rough and with little resemblance to the bark of any other birch, with the possible exception of the blue black birch. The young shoots are brown, and the light green of the bark of the trunk, the bark of the tree is very much broken, showing a great variety of color.

The shrubs in the arboretum of trees which produce fine winter scenery, especially so if it is pruned severely every year or two, as in the case of the young shoots, keeping it more in the form of a shrub than a tree. The other day I had

the pleasure of driving through a white road near Dehman. It was during the middle of the day, the sun was well up, and the day was clear. We came to see into full view of this beautiful stretch of white road, about fifteen feet high and as wide as the distance between the trees. I cannot make any statement positively. It was a pleasure to remain long in the middle of the road, and to see the sun and describe all the species and varieties of this large group of plants in regard to their color and their uses. It was a pleasure to see an artist, but the bars vary in brown, yellow, light green and dark green, and in color. The season is not yet advanced. The most developed catkins which in the winter months show greatly the color of the catkins. The colors are: saix vitinea eretizemensis, saix itria, saix aca, saix (cassian variety), saix corvina, and saix pectinata are a new lot. I saw in the nursery rows of the arboretum as being especially noticeable on account of its constant color of the leaves.

Among our smaller trees, Acer Pennsylvania, or striped maple, possesses many varieties to a number of winter colors. The one smooth bark, olive green with orange and white marking through out the year, is the most beautiful. The leaves are very bright red. Acer spicatum when cut down to the ground springs up from the base of the trunk in a very short time. It presents a pleasing effect similar to some of the ornamental trees of the corner, the young shoots are very bright red. This is also true of many of the other species, but not so to the same extent. The leaves of the species I might mention others, as the spruce, castragis, physocarpus, etc., but while I have not seen them in winter, I have the idea of the number of our hardy woody plants which are decorative through all the winter. The most beautiful of these are the greater part of the winter is charming, and you will notice that the greater part of the winter is charming. The most beautiful and desirable plants for summer plantations, which prove that in autumn and winter, the most promising remedy yet discovered at the present time.

I might mention others, as the spruce, castragis, physocarpus, etc., but while I have not seen them in winter, I have the idea of the number of our hardy woody plants which are decorative through all the winter. The most beautiful of these are the greater part of the winter is charming, and you will notice that the greater part of the winter is charming. The most beautiful and desirable plants for summer plantations, which prove that in autumn and winter, the most promising remedy yet discovered at the present time.

I have spoken exclusively regarding deciduous trees and shrubs as though they were in winter all the year. This is not so, and I am a great admirer of the evergreen, but in treating this subject writers too often leave out of consideration the beauties of our deciduous trees, and therefore at this time call them more especially winter trees. While it is true that we cannot spare our evergreen trees it is evident that we could in dispense with these trees in winter. There is a certain number in evergreens which, though not trees, certainly does not lose their leaves in winter. There are a number of deciduous plants, changing from month to month, and from season to season, and an artist in the art of their transformations throughout the year.

In speaking of evergreens it is not my purpose to list them, but to draw attention to me to enumerate all of our hardy trees and shrubs which belong to that great and valuable family, conifer. A visit to Mr. H. H. Hunney, who has a large collection of trees and to the pinetum in the arboretum would be more instructive than anything that I could say of this class of plants. They are: Abies, pines, spruce, larch, yew, cedar, and cypress. The most beautiful of these is the one which belongs to his noble family will be found, and a careful study should be made of the plants which are to plant for both summer and winter work.

When walking through any grounds in winter, which are well planted with trees, a landscape architect will reveal to the eye some plant which especially appeals to him. It is not the most beautiful of the other equally beautiful though less conspicuous shrub or tree. In giving you a list of the trees and shrubs which are to be planted in the winter, I have mentioned those which will withstand our New England climate, and are highly attractive in winter. I have also mentioned those which I have mentioned to you, and my suggestions will prove of value to your future work.

## Diseases of Forcing House Vegetables.

Bulletin 73 of the Ohio Agricultural Experiment Station is devoted to studies of some of the more common plant diseases of the forcing house and garden, especially those encountered in the culture of vegetables under glass, an industry which is assuming very considerable importance in Ohio and other Northern States. The bulletin is illustrated with several plates.

Commonly known as "damping off" at the Station of lettuce rot, a disease which affects the head varieties especially, when grown under glass. The Grand Rapids variety seems to suffer least. Too high temperature, especially at night, is conducive to the rot. Through ventilation and care in watering are the remedies suggested. Other diseases of lettuce are leaf blight, leaf perforation and downy mildew. Experience at the station and elsewhere has demonstrated that when lettuce is watered by sub-irrigation it is much less liable to these diseases than when watered.

Another class of diseases affecting especially cress, tomatoes, begonia, cucumbers and some other plants is caused by small eel-worms or nematodes, microscopic in size, which work in the roots of the plants, causing minute enlargements or galls. The symptoms of attack are stunted growth, yellowing and drooping of the leaves, especially dying of the leaves at the point or lateral margins, with a scalded aspect. In roses, which are the most liable of all plants to nematode attack, the disease is known as "die-back" or "die-back." The steaming of the soil before planting is the most promising remedy yet discovered at the present time.

The powdery mildew of composite plants has been successfully combated upon cucumber by the use of lime, and with weak solution of potassium sulphate or copper sulphate. Probably the downy mildew of the cucumber would yield to the same treatment.

The sudden withering of outdoor cucumbers is due to a bacterial disease, which is carried by plants and seeds, and the cucumber beetle. No effective prevention is known, but burning of diseased plants and the destruction of the beetle are indicated.

The sudden withering of leaf and fruit of cucumbers is found in the East and is likely to cause trouble to pickle growers in Ohio. Spraying with Bordeaux mixture is indicated. This disease, as well as for a new leaf-blight of the muskmelon, causing many rather large, dried spots in the leaves, followed by dying and curling under from the tips to the margins.

Tomato leaf-spot, the most common fungous disease of tomatoes grown under glass. This caused serious loss in the station greenhouse in 1913, where it was introduced from a plant over from which it spread throughout the houses. The disease first appears as rusty brown patches on the lower surface of the leaves, and these patches enlarge the leaf becomes yellow, with and finally dies. In cases of serious attack the leaves are withered, and in any case its growth will be seriously checked.

Tomato leaf-spot, as with lettuce rot, thorough ventilation is required, and spraying with diluted Bordeaux mixture is indicated. Cucumbers are also subject to other forms of leaf blight and spot, some of them affecting fruit as well as foliage. All diseases of this class should be carefully watched, and in any case its growth will be seriously checked.

The bulletin is a report of progress in the study of plant diseases made at them but little known, and in case of serious outbreaks of such diseases gardeners are recommended to send samples of diseased plants to the Experiment Station at Wooster, with full description of soil, treatment, etc.

## OBITUARY.

Henry McCrowe.

Henry McCrowe, who for the past three years had been Superintendent of Parks at the City of New York, died on Monday, the 14th day last, March 14, of Bright's disease. He was 50 years of age. Mr. McCrowe had been in the service of the City of New York and was inspected for work for the past three months.

Deceased was born at Twickenham Ferry, near London, and in his younger days was apprenticed to Vetch. After serving at Twickenham Ferry, he was employed by the Royal Engineers, he became manager of the extensive parks surrounding the home of the Marquis of Blandford in Ireland, and had charge of the park-like domains of Lord Peck, Sir John Garnet, Capt. Hill, and J. Murphy, the brewer, and Dist. He worked some time in Sander's nurseries at St. Albans. He came to America ten years ago as an gardener to J. R. Picher, Esq., and then went to Woodstock, Vt., where he gathered together an extensive collection of plants. Subsequently he became gardener to Mr. J. R. Brown of Bellport, L. I., and to the City Land-escape works, among which was the laying out of the grounds of Banker Lanier at New York City, in partnership with J. S. Parks, he commenced in the florist business at Patchogue, L. I., which he relinquished to accept the position he held at the time of his death.

Mr. McCrowe had an intimate knowledge of plants and was a very successful orchid grower. He was superintendent of the New York Flower Shows for two successive years, and his work was of a high and much acceptance. Obliging at all times, he was well liked by all the exhibitors. At

The Late Henry McCrowe.

the last election of officers of the New York Florists' Club, he was the unanimous candidate for the presidency. He leaves a widow and six children—three boys and three girls.

The funeral took place Wednesday, March 17, Messrs. S. C. Nash, John G. Eiler, A. L. Don, A. Dimmock, W. J. Stewart and J. W. Withers, representing the N. Y. Florists' Club, were the pallbearers. Interment was in the Holy Sepulchre Cemetery, Patterson, N. Y.

The Paterson Daily Press pays the following tribute to the deceased park superintendent: "Mr. McCrowe came into the employ of the Commission and took charge of the parks in New York City. His advance in the development and artistic embellishment of the parks under his management was quite noticeable to all, and universal expressions of sympathy and regard are heard over his untimely death. His work was so carefully planned and executed for every piece of work he undertook seemed to blossom into beauty. He was a master hand in his profession, which he carried out on a scientific basis. There were many who were good gardeners, but he undertook, for he always knew his mind's eye beforehand how a piece of work should be done, and he always completed. He was schooled in every root and branch of landscape gardening, and in the art of planting and strictly implements, as he was also with the draughtman's pencil. As a grower of flowers, ornamentals, and shrubs, he was such as only England, the home of landscape gardening, produces. Mr. McCrowe was a man of high character, and a thoroughly grasp and digest all that he had to do to the enrichment of his mistreated mind."

**The Sweet Pea.**

A paper on "The Sweet Pea, the Flower for Everybody," was read before the Massachusetts Horticultural Society Saturday, Feb. 12, by R. T. Fernald, of New Bedford, in Orchard. Mr. Hutchins said in part:

"With regard to the history of the sweet pea, Francis Copani, an Italian botanist in Sicily, about 1700, was the first cultivator of this flower. There were four original species, two of them natives of Ceylon and two of Sicily. The Gandolle, however, speaks of two only, the other two being variations of these. Mr. Eckford of England began specializing this flower in 1885. Mr. Laxon also introduced some valuable novelties, but to Mr. Eckford must be attributed a large part of the honor in developing sweet pea to its present beauty. Today California is the second great factor in sweet pea. That State is supplying the best trade stock we have, and exports almost the balance of the world's supply. It seems to me that England, France and Germany must refer to the sweet pea as the California stock. Some growers in California do not hesitate to grow 250 acres of the flower so as to supply every known variety.

"Those who failed in the culture of sweet pea last year had plenty of good company. I bent all my energy to escaping the blight, and succeeded only in seeing my vines go up ten feet, blooming in a scattering way after they were five feet high. There were two main causes, the first being that we had no frost to check a rapid start, and this was followed by an excess of rain during the growing season. One of the worst vices of sweet pea is a tendency to rank vine and no bloom. Last year we had exactly the conditions to produce that. Make the plant work, if you want to increase the bloom. The root is the part of the plant that works, and the stiffer the soil the more wholesome exercise it gets. The sweet pea does not have a soft bed beneath it, but a bed that induces a less hardy growth, induces the root and weakens it for its after-work. It favors a top growth beyond the power of the root to support. It stimulates growth at the expense of bloom. We have been following the trench system, that is, we have dug an inch and a half beneath it, and fertilizer, and the very looseness of this bed under our seed and vines has been enough to make mischief. The soil should be made firm by treading down. We have weakened the plants by this soft treatment, and then have impressed them at the tenderest age four inches below the sunny surface of the ground and suffocated the still more by filling in the earth before they were at all hardened. Hence the clay loam at the bottom should be done away, the soil is a light loam. Clay loam ought to produce good flowers.

"I should be better off if I used the trench method. I have a soft, spongy soil, I plow it in the Fall, going over each furrow three times. Then I dig out about six inches where my rows are placed, treading the soil, if I find it soft. In the Spring I plant my seeds in the trench deep or shallow and cover an inch, and roll the soil above and along the sides. If you have a clay loam, it will set sufficiently. I believe in spading in the Fall for the purpose of mixing, but I should let the frost do this. Then I believe in the "firming" of the ground and avoiding the other things that have smothered our tender plants. One by one I have tried all the good things that have been recommended, but I resort to tar paper, and give my vines two feet in size to the ground every few feet to prevent the roots running lengthwise of the rows.

"I have been very early and successful. After the frost is out of the warmest part of the garden is the time to plant the seed, and continuing to do so until the first of this purpose. Plant the seed liberally enough for all various losses. I plant the seed once in a row, and sow ten feet. Use more than that if it is cheap mixed seed. After all losses the plants will come up. I have sown the seed apart. Some of the devil that did not go into the swine went into the cutworm. If I could find a way to get that devil out, I have many of them I shall surely have my

pride humbled soon. I believe in going at him in the Fall. Just as soon as the frost has spoiled things, put on a good dressing of salt, freeze him out by spading up as late as possible. I find virtue in bran and paria green; a pair of bran with a table-spoonful of the poison stirred in, sweetened a little, and sown on the surface or lightly hoed in in the Spring is a simple remedy. Dverting the worms by planting something of no value for them to feed on helps. Go out early in the morning and kill them before breakfast.

"The last two seasons have brought them other pest, I call it a louse. It colonizes on the under side of the foliage, near the base of the vine, and causes whitish translucent spots on the leaves. Go at it vigorously with tobacco tea or a force of water from the hose. I use the latter, but with the excess of rain, it caused the vines to grow up at the expense of bloom last year. The balance of the rules for culture are simple and thoroughly done. Run or trellis strongly, and give the vines room to ramble. Water freely after the blooming

About 25 men are employed the year around to take care of the place. The palmetto and cocos palms are grand. Plants of 25 feet and over in height were 7-8-planted with ease, and are growing nicely, particularly the cocos, which are very abundant, and look pretty with the blue flowers and fruit of good size. The lavas are well kept, and borders are planted with blooming plants. Many beds of various sorts of plants are scattered over the grounds. Among the plants noticeable for their thrift and beauty, were fine beds of crotons, about 20 varieties, highly colored; acalyphas of great size, aralias in variety, also coleus and bigonia. Observers and hibiscus grow to good size, and look very bright, particularly the hibiscus with its large red flowers. Among the larger plants and trees, the most conspicuous and the grandest of these, according to Mr. Hegarty, is the large Ficus, a good sized tree bearing a fine large bloom leaf resembling an orchid. It is also very fragrant. The graceful cocos, pal-

metto also multiply very rapidly, and could no doubt be grown in this locality, as well as in Bermuda.

"The weather here is delightful, the thermometer stands at about 85 degrees, but a mid-ocean breeze makes one feel very comfortable.

"I was also astonished to see the grand carnations and roses which are shipped from the north to St. Francisco, and have control of the florists' trade from St. Augustine to Miami. I must say I never saw any better carnations than those of C. A. Dana, one of Dorner's new seedlings, I believe. The flowers were of splendid size and color, and had strong long stems. I saw a rose which was shipped from Long Island, was his regular shipper, and he never saw anyone else's in his packing house. The rose was of the best condition, and he can keep them so for almost a week after he receives them. They bring \$1.50 per dozen, which is not too much, taking into account the heavy express charges and other considerations. American Beauty from North, shipped to New York, were fine blooms; they bring \$1.50 to \$2.00 per box. Bride and Bride-maid do not ship so well. Mr. Foster says, occasionally he gets good flowers. E. C. REINEMAN.

**A Standing Wreath.**

The accompanying illustration is a representation of the wreath exhibited by Wm. I. Brower, New York, in the recent funeral competition for the Plumb Cup, held before the New York Florists' Club, from which body the designer received a certificate of merit. The wreath is based on a triangular base, a point to which the committee judges took exception, claiming it to be architectural in form. The base was formed of green leucotoea and andromeda leaves, springing from which were sprays of brown leucotoea foliage. The wreath itself was 23 inches in diameter, made of brown glaucous leaves, fringed with Adiantum cucullatum, having a cluster of Bride-maid roses, and a spray of white roses to the left. The standard was comfortable and with smile.

**Flower Catalogue Defense.**

It must be with sorrow that Rochesterians see in the outside press stirring allusions to those lovely prospective pamphlets which anticipate the flowers that bloom in the Spring; for the weak jokes and sad humor directed toward the flower catalogues can be only a source of pain to this literally blooming community whence they emanate. Like his entering vine of the pumpkin, we have observed this vein of comment creeping far, and in a growth more luxuriant than that of any number having ever seen before. An editorial in the Brooklyn Eagle is an example. It likens a flower catalogue at the end of the season to a patent medicine sinance as a vehicle of promise unfulfilled. It says, with a ring of scorn in its speech, that without one of these catalogues one "can have no idea of the size to which roses and onions attain. And the colors—why they nearly make one weep with their brilliancy." Now, flower catalogues are a subject on which Rochester is sensitive, and it may be added that we know more about an American grower and his light and Buffalo and Syracuse know—all put together, and here there is a deep regret, that they have not been more liberally dealt with their highly colored promise of flowery Spring. May we not even claim some of their dazzling characteristics? We was found the suggestion of poster art, and shall we permit these books of hopeful messages and benedictions to be idly scorned? No literature of the city is so widely circulated as they, through them the flower city has become a household word. To turn the thoughts of Innumerable Darby and Joaze to floriculture, to those lovely pictures of sun-drenched cottages, and backyards that are living groceries, and to turn the thoughts to Illinois, is a triumph that might be envied by any great florist. The floral trade is great, also the Japan plum, and a few other sorts. Screw pines grow rapidly and attain good size. Fine specimens of acave, perfect in shape and of large size, generally bloom in about five or seven years.

Among the flowering plants the vines are much seen; in fact they grow wild here. I have seen them in the Dutch Abyssinia is used for bordering, as is also alternanthera, phloxes and hardy pinks, petunias are also plentiful. In Canada Crozy, A. Bonvier, and several other sorts are grown, and doing fairly well. Hardid Illies thrive here, some of the stems bearing from 40 to 80 blooms. They

riped comes, but not too much before. Into the rows north and south to give the flowers both morning and afternoon sun on both sides. You are favorably situated here as any garden with sweet peas. Almost anywhere near the sea coast they thrive.

**A Trip Down South.**

I have now reached the southern limit of my trip—a beautiful spot, rich in tropical vegetation, and grounds well laid out, surrounding magnificent hotels of which the Hotel Royal Poinciana is as fine and complete as any found in the United States. The gardens are in charge of Robert Hegarty, a native of Providence, who has done much in the few years he has been here, though at times laboring under great difficulties, the climatic conditions being so different from those in the North.



Standing Wreath, exhibited by Wm. I. Brower, New York, in competition for Plumb Cup. Awarded a Certificate of Merit by N. Y. Florists' Club.





REMBERG BROS.

Strong, Healthy ROSES From 2 1/2 inch pots.

AMERICAN BEAUTY, \$1.50 per 100; ... GOLDEN GATE, \$2.00 per 100; ...

Rose Cuttings, \$1.50 per 100; American Beauty, \$2.50 per 100.

CARNATIONS—Rooted Cuttings.

IVORY and DELLA FOX \$3.00 per 100; ... WM. SCOTT, DAYBREAK, MINGI, WANKS, ...

51 WABASH AVE., CHICAGO, ILLS.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

CHAS. W. EMMERS

Strong, healthy. From 2 1/2-inch pots. ... L. F. FRENCH, Florida, ...

CARNATIONS.

Norset, 2 1/2-inch pots. ... Wm. Scott, 1 Lizzie Newell, \$2.00 per 100; ...

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

AM. BEAUTIES

2 and 2 1/2 inch pots. ... Arcas, Kentias, Latanias.

PALMS

See large ad last week.

JOSEPH HEACOCK, Wyncote, Pa.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

ROSES

From 2 1/2 inch pots, strong and in excellent shape. ... Bride, Bridemaid, ...

than I shall need for my own use. Grand plants in 2 1/2 pots, at \$3.00 per 100.

CASH WITH ORDER.

BENJAMIN DORRANCE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

YOUNG ROSES.

1200 each of Bride and Maid, out of 2 1/2 inch pots, strong. I grew stock to plant myself but have taken the carnation fever so will sell them at \$2 per 100.

Young Carnations, from Flats, of South, Daybreak, Storm, Allertown, ...

GEO. A. RACKHAM, 880 Van Dyke Ave., DETROIT, MICH.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

THREE NEW RAMBLERS

Companions to Crimson Rambler. ... AGLIA, or YELLOW RAMBLER. The only hardy yellow climbing rose.

EUPHROSYNE, or PINK RAMBLER. A clear light rose.

THALIA, or WHITE RAMBLER. Pure white.

Sent for free color type and descriptive circular of Aglia. Every florist should become one of these three important novelties.

Send for Trade List of hardy, self-growing roses, shrubs, ornamental and French roses, small fruit plants.

JACKSON & PERKINS CO.

NEWARK, NEW YORK.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

Cincinnati.

Market News.

Should Lent continue as it has begun, we shall not complain. While high prices for stock of all kinds is a thing of the past...

Generally during this Lenten season carnations have been a drug, but from appearance of our growers will be strictly in it for Easter.

The Easter Outlook.

Easter is drawing near, and the order for all kinds of stock very promising. I noted while walking through the market Saturday evening last that pot plants were selling quite lively.

Saturday was our regular monthly exhibition and meeting.

The Hoffmeister Floral Co. staged some good Beauty of Clematis, Bride, Misses and Bridemaid roses, and a fine pot of Harrist.

R. W. Rittermeister had a choice lot of Emma Wecker. He received a certificate from W. M. Tullis...

The meeting of the Florists' Society was well attended by the committee by routine business transacted.

Harry Edwards, of Newport, Ky., is all smiles: 'It's girl.' JOHN LONZER & SONS, of Hamilton, suffered severely through the late high water.

FRED KLINGE, florist at the House of Refuge, will soon become a Benedict.

THE QUEEN CITY FLORAL CO. will close their stock and all orders by the 15th.

There are whippers in the air that Cincinnati may have a chrysanthemum show this fall...

COME early and avoid the rush. Send your advertisement for the 'Florists' Exchange Spring Special' by return mail.

President Carnot Rose.

We grow First Premium with this rose at the St. Louis Exposition...

W. W. COLES, Maple Hill Ross Farm, KOKOMO, IND.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

Rooted Rose Cuttings.

Healthily well-rooted cuttings from the best flowering rose, M. Lescage Siebrecht, ...

L. M. & CO., St. Paul, Minn.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

Chicago.

Slate of Trade.

Stock of all kinds is accumulating, and prices are falling. Trade among home dealers the past week was poor, but...

Few carnations now go above \$1.50, while those of very fair quality can be had for \$1, down to 50c. to 50c. per 100.

The very best Harrist sell at \$6 down to \$4.50, but with the very best quality, but sell fairly well, the price ranging from \$4 to \$5.

Burbank has a rounder and broader leaf, more sturdy and as far as flower qualities: the blooms following each other so that the head is always fine.

There is some talk as to what Easter prices are to be for the roses in the market. The lateness of the event this year is not likely to encourage expectations of high prices.

CHANGIAN is doing a lot of shipping, and business bids fair to be very good. The three great features at this place are chrysanthemums and roses.

Burbank has a rounder and broader leaf, more sturdy and as far as flower qualities: the blooms following each other so that the head is always fine.

Yello Crocus now up well and will be a taker as a bedding yellow. Italia is showy, but flimsy. The variety Philadelphia, an improved form of Flamingo, is a very taking flower here.

CHARLES T. NEILICH has started a retail store at 239 N. State st. W. F. PRYOR, of Kennett, Mo., is sending in to Hunt the old carnations...

NEW BUILDINGS. One bears occasionally of new additions going up, but John C. Moninger Co. and A. Dietrich & Co., state the past few months...

Another show town-out-of-door daffodils, and other bulbous flowers, have appeared in this market. E. J. PRYOR, of Kennett, Mo., is sending in to Hunt the old carnations...

Binghamton, N. Y. J. B. Tully is adding a violet house, 140x 18 feet. He reports a capital season.

W. M. Eldridge & Co., are adding a rose house, 18x100 feet. Business, especially in funeral work, has been very good of late.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

# E. G. HILL & CO., Richmond, Ind.

The three new Ramblers in large quantity, at \$10.00 per 100. **AGLAIA** (Golden Rambler); **THALIA** (White Rambler); **EUPHROSYNE** (Pink Rambler).

**Meteor, Bride, Bridesmaid, Mrs. Morgan, Kaiserin, Belle Siebrecht,** and leading forcing Roses, at lowest prices for fine stock.

**BEDDING ROSES.** The very finest sorts of Teas, H. T's, and Polyanthus, \$35.00 per 1000.

Our Celebrated Collection of **GERANIUMS.** A large stock of S. A. Nutt, Mrs. J. M. Gaar, and other good bedders. Please refer to our trade list.

**CHRYSANTHEMUMS.** Best commercial varieties in quantities for Florists' use. Fine dwarf early sorts that require no staking. Plant some **Golden Trophy**, bright yellow, large, beautiful foliage, fine stem, a pure incurved. Ready to cut October 18th. Bears close planting and needs no tying. Two fine early whites are **Barbara Forbes**, and **Queen of the Earlies.** Special prices on quantities for benching.

## E. G. HILL & CO., RICHMOND, IND.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# Souv. du... President Carnot

## THE ROSE OF THE FUTURE.

A SUPERB HYBRID TEA ROSE of delicate shell pink color, blooms produced abundantly on strong stiff stems, an A1 forcer, as well as bedder for out of doors. No wide-awake Florist can afford to be without it. Order quick and get **STRONG, HEALTHY PLANTS**, out of 2½ inch pots, the finest in the country. Ready now.

Price, \$3.00 Per Doz.; \$15.00 Per 100; \$125.00 Per 1000.

50 at 100 Rates. 500 at 1000 Rates.

**ERNST G. ASMUS, West Hoboken, N. J.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# THE NEW ROSE PRESIDENT CARNOT

FROM 2 1-2 INCH POTS. \$15.00 PER 100; \$125.00 PER 1000.

HEALTHY YOUNG STOCK.

READY NOW FOR DELIVERY.

- Mosella**, "Yellow Souper", 2½ inch pots.....\$5.00 per 100; \$40.00 per 1000
- Pink Souper**, 2½ inch pots..... 5.00 per 100; 40.00 per 1000
- Climbing Wootton**, a very vigorous climber, identical with Wootton in bloom, perfectly hardy in this latitude.....\$10.00 per 100; \$70.00 per 1000
- Carmine Pillar**, 2½ inch pots, a fine climber, hardy.....\$10.00 per 100
- Cocos Weddeliana**, 3 inch pots, beautiful plants..... 20.00 per 100

- Areca Lutescens**, 3½ inch pots, ready for a shift.....\$15.00 per 100  
Also fine stock of larger sizes, prices on application.
- Cocos Weddeliana Seed**, fresh crop, just received.....\$8.00 per 1000
- Areca Lutescens Seed**, fresh crop..... 6.00 per 1000
- Livingstonia Rotundifolia**, 2 inch pots..... \$10.00 per 100; 80.00 per 1000
- Asparagus Sprengeri**, 2½ inch pots, good stuff.....\$10.00 per 100  
A plant of great value for decorative purposes.

**ROBERT CRAIG, - - - 49th and Market Streets, Philadelphia, Pa.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## ...NEW ROSE... SOUV. DU PRESIDENT CARNOT

Strong, healthy plants, from 2½ inch pots, \$15 per 100; \$125 per 1000. Ready now.

### AMERICAN BEAUTY ROSES.

We have this year an exceptionally fine stock of **AMERICAN BEAUTY ROSES**, in 2½ inch pots, ready now to shift into 3 inch. \$6.00 per 100; \$50.00 per 1000.

### ULRICH BRUNNER ROSES.

Extra strong, from 2½ inch pots, rooted from hard wood cuttings. This stock is gilt-edged, either for growing in the greenhouse for forcing, or for planting in the open ground. \$4.00 per 100; \$35.00 per 1000.

### NEW BEDDING ROSE MOSELLA.

This grand new Rose will be as popular as Clothilde Souper. It is always in bloom, and produces medium sized double flowers of a creamy white color, shading to apricot yellow in the center. We have a splendid stock, and have reduced our price. Strong plants, from 2½ inch pots, \$5.00 per 100; \$40.00 per 1000. Strong plants, from 4 and 5 inch pots, \$3.00 and \$4.00 per dozen, according to size.

- CLIMBING METEOR**, strong, from 2½ inch pots, \$6.00 per 100.
- AGLAIA, or YELLOW RAMBLER**, 2½ inch pots, \$10.00 per 100.
- CRIMSON RAMBLER**, 2½ inch pots, \$3.50 per 100; \$30.00 per 1000.

WE HAVE A SPLENDID STOCK OF WINTER FORCING ROSES.

Before placing your order, send in your list for prices. Address

**ROBERT SCOTT & SON,**  
19th and Catharine Sts., Phila., Pa.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

SITUATIONS WANTED.

Rate 15 cents per line & words, each insertion... Cash with order...

FLORIST wants situation in flower store; speaks English and German...

SITUATION wanted by single young man, sailor and householder...

YOUNG man wishes situation in greenhouse, two years' experience...

FIRST-CLASS florist's landscape, also mak-up-ger... Scandinavian 33, single...

SITUATION wanted as gardener on private place with greenhouse...

SITUATION wanted as gardener, by married man, 39, single family...

WHO WANTS a practical florist and gardener thoroughly experienced...

SITUATION wanted by young man, first or second class florist...

SITUATION wanted by a single man, thirty-one years; six years' experience...

SITUATION wanted as normal in commercial establishment...

GARDENER and Florist wants position in commercial place...

SITUATION wanted by first-class grower of carnations, violets...

FIRST-CLASS Gardener and Florist, practical in all branches...

A YOUNG MAN (married) having received his education as a practical florist...

HELP WANTED.

WANTED An experienced florist, who grows all the plants...

WANTED As foreman, an experienced rose-grower, sober and reliable...

FLORISTS and GARDENERS. Wanted, for private and commercial places...

WANTED. A quick and steady man for a small concern...

MAN WANTED. Who can make himself useful with tools...

F. T., care Florists' Exchange.

FRANK McMAHON, Springfield, N. J. WHEN WRITING MENTION THE FLORIST'S EXCHANGE

HELP WANTED.

WANTED. A thoroughly competent decorator and mak-up-er...

J. NEWMAN & SONS. 51 Tremont St., Boston, Mass.

GREENHOUSES and LAND.

FOR SALE OR RENT. On account of owner's death, the Clinton Greenhouse...

FOR SALE CHEAP. 18,000 feet of well established coast-land...

GREENHOUSES FOR RENT.

In thriving Westport New York City. 10,000 ft. glass established 25 years...

FOR SALE OR RENT.

Thirty acres of the finest market-garden land in Orange County...

MARKET GARDEN.

On account of owner going abroad for a number of years...

FOR SALE.

A florist establishment, all fully stocked and in first-order...

FOR SALE.

A florist establishment, all fully stocked and in first-order...

FOR SALE.

A well-established florist business, on the most popular locality...

FOR SALE.

An excellent, fully stocked florist's place, with greenhouse...

FOR SALE.

For further particulars, address Florist, care Florists' Exchange.

FOR SALE CHEAP AND EASY TERMS.

One New BICYCLE and One Second-hand, taken for debt.

STOCK WANTED.

Wanted prices on 100 to 1000 Hardy Hybrid Rose plants...

WANTED.

Wanted prices on 100 to 1000 Hardy Hybrid Rose plants...

WANTED.

Wanted prices on 100 to 1000 Hardy Hybrid Rose plants...

FOR SALE CHEAP AND EASY TERMS.

George Kruse, 515 Ocean Ave., N. Y. City. WHEN WRITING MENTION THE FLORIST'S EXCHANGE

Buffalo.

Trade is moderate in most lines. Flowers are becoming plentiful, especially carnations, roses and violets...

Friday evening the following officers were elected for the ensuing year: President, E. A. Anderson...

Bowling.

The return match between the North Hudson and Flatbush Florists' Bowling Clubs...

Flatbush.

Table with columns: Player Name, First, Second, Total. Lists names like P. Riley, H. Dandelouze, R. H. Bond.

North Hudson.

Table with columns: Player Name, First, Second, Total. Lists names like G. Brown, G. McGowan, C. Wache.

FINE PLANTS CHEAP.

Geraniums, Double Giant, 2-3in. pots, Per 100 \$8.00. Begonia Variegata, 8in. 2 1/2-in. pots, 2.00.

10,000 ALTERNATHERAS.

A. Amabile and A. Nana, good strong plants of 2 1/2 in. pots, \$2.50 per 100...

PRIMROSES.

From 1/2 and 1 in. pots, covered with large bright yellow blossoms...

FROM THE NORTHWEST.

Agrestium. Strong plants out of flats. Per 50, \$1.00. Peony. Large, fine, small white & large...

FROM THE NORTHWEST.

Agrestium. Strong plants out of flats. Per 50, \$1.00. Peony. Large, fine, small white & large...

FROM THE NORTHWEST.

Alternantheras, Begonias and Geraniums. Veronicea 75c to 1.00, per 100. \$4.00 to \$6.00 per 100...

BARGAIN - Ivy Geraniums.

6 of the finest sort, 2 1/2-in. strong, per 100, \$4.00. Double Petalium...

ROOTED CUTTINGS. Good Ones

Verbeas, 2 1/2 varieties, 50 cts. per 100, \$7.50 per 1000. Petalium. Double, 2 1/2 in. pot, \$1.50 per 100.

ROOTED CUTTINGS.

Geranium, best named sorts, \$1.50 per 100, \$15.00 per 1000. Heliotrope, best variety, \$1.00 per 100.

ROOTED CUTTINGS.

Geranium, best named sorts, \$1.50 per 100, \$15.00 per 1000.

CASH PRICES.

All transplanted in soil; as good as pot-grown. Carnation, Scott and McGowan, \$1.00 per 100.

CASH PRICES.

All transplanted in soil; as good as pot-grown. Carnation, Scott and McGowan, \$1.00 per 100.

BEGONIAS.

Alphonse Bourier, Chas. Henderson, Mme. Croissant...

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE



Pansies Worth Raising

We can still furnish good plants, full grown, and which may bloom in April, at \$4.00 per dozen... Cash with order.

C. Soltan & Co., 199 Grand Avenue, Jersey City, N. J.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

PANSY PLANTS

Schmidt's international choice mixture of Pansies... Wholesale Pansy Growers, Box 24, BRISTOL, PA

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Pansies! Pansies!

Bugnet, Cassier, Odjar, and Trinardeau. Large stocky plants, transplanted last November...

Whitton & Sons, Florists, City and Green Streets, UTICA, N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

PANSIES.

Roemer's Prize Pansies, extra fine stock, plants from cold frames, in bud and bloom...

PETER BROWN, Lancaster, Pa. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

PANSIES.

THE JENNINGS STRAIN OF Finest America Grown Pansies are up to date and sure to please.

E. B. JENNINGS, "Lack Back" Southport, Conn.

DROWER OF THE FINEST PANSIES. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

NEW Chrysanthemums

Our Descriptive TRADE LIST has been called. If it has not been received, we will place it on your desk.

NATHAN SMITH & SON, Adrian, Mich. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

VIOLET GLUMPS

MARIE LOUISE. Per 100, \$3.00

ROOSED CUTTINGS

GERANIUMS, Double White, Pink and Red... MRS. POLLOCK GERANIUM, 12 50 1 50

VIOLET GLUMPS

MARIE LOUISE. Per 100, \$3.00

ROOSED CUTTINGS

GERANIUMS, Double White, Pink and Red... MRS. POLLOCK GERANIUM, 12 50 1 50

ROOSED CUTTINGS

AGERATUM, blue and white... FEVERFEW, Dwarf Gem... SALVIA, Splendens and Wm. Bedman 1 25

GREENE & UNDERHILL, Watertown, N. Y. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

VIOLETS MY SPECIALTY!



On and after March 1st I will be ready to supply, in any quantity, stock of the following varieties:

- PRINCESS DE GALLES. The Queen of single Violet... LUXONNE... MARIE LOUISE

Five French Medals; two American Medals; three Diplomas. First Premium, Grand Central Palace, New York...

FERD. BOULON, Sea Cliff L. I., N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

SUPOT THE VIOLET KING

Offers the following varieties of Violets for March delivery. All plants are in perfect health...

FRANCIS SUPOT, 57th St. and Lancaster Ave., PHILADELPHIA, PA.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

THE FARQUHAR—QUEEN OF VIOLETS

HEADQUARTERS STOCK. TRUE AND PERFECTLY HEALTHY. Earliest, Freshest, Darkest and most Double.

C. E. WELD, VIOLET SPECIALIST, ROSINDALE, MASS.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

SAMPLE ORDER

25 of each for \$5. by mail. HERR'S FINE COLOUS and Verbenas. See full ad. in page 273.

100,000 VERBENAS.

Finest pot plants, \$2.50 per 100; \$20 per 1000. Rooted Cuttings, 75c per 100; \$6.00 per 1000.

\* NO RUST OR MILDEW \* Packed light and satisfaction guaranteed. Send for circular.

..... J. L. DILLON, Bloomsburg, Pa.

LARGEST VERBENAS

BEST MAMMOTH, rooted cuttings... OLDS' MAMMOTH, strong pot plants... BEST MAMMOTH, strong pot plants

STRONG CARNATIONS ROOTED CUTTINGS

Jubilee..... Per 100, \$3.00... Armasing, Ivory, Della Fox, Tri-umph..... 5 00 40 00

MISCELLANEOUS PLANTS.

Geranium, fragrant, from 2 1/2 in. plants... Lantana, 12 line varieties, from 2 1/2 in. plants

CHRYSANTHEMUMS

ROOSED CUTTINGS. POTTED PLANTS. Ada Spaulding, Mrs. Fred. Bergmann, Helen Bloodgood, Silmer D. Smith, Harry May, Galiland, Olympia, M. M. Johnson, Jennie Falkner

STRONG ROOTED CUTTINGS.

Ageratium, blue and white..... \$1.25 \$30 00... All colors, allending north..... 1 00 8 00

BROD BROS., Fishkill, N. Y. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Springfield, Mass.

Market News. Generally, the Lenten season has not affected the market in this city, but just now trade is extremely quiet.

Prizes for Sweet Peas. The Hampden County Horticultural Society... The Society has awarded special premiums for its Sweet Pea Show...

Hamilton, Ont.

F. G. FOSTER has been quite ill for some time past, suffering from a nervous trouble which has confined him indoors for several weeks.

W. F. G.

THE Index to Advertisements

in the 'Spring Special,' April 3, will be a list of wide-awake business men. You should be on that list.

100,000 Marie Louise violets.

Strong, healthy, well-rooted runners, 60 cts. per stock, \$4.00 per 1000.

M. J. PIERCE, Adrian, Mich. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

GREEN AS GRASS

Mammoth Verbenas. Rooted Cuttings, in separate colors. Per 100, \$60.

FRANK S. PAYNE, Barnard Crossing, N.Y. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

VERBENA KING

500,000 Rooted Verbena Cuttings, the finest variety in cultivation, true to name, and have a good supply for 5000 to 25000; 10,000 for \$45.00, express prepaid.

PETUNIAS.

Rooted cuttings, Dreeer's and Henderson's... G. HUMFELD, Clay Center, Kansas. SEND FOR LIST.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE





**Wholesale Florists**  
LOCATED BY HAND,  
 CUTTINGS,  
 BUDS,  
 WIRE

**JOBBERS IN  
 FLORIST'S  
 SUPPLIES.**

*N. F. White*

**FLORISTS' VASES.**  
 Horticultural Inlucners.  
 24 HAWLEY STREET, - BOSTON.

**GEORGE MULLEN,**  
 Wholesale or Commission Dealer in  
**Cut Flowers.**  
 Best stock and lowest prices. Orders by  
 mail, express, telegraph, or tele-  
 phone promptly attended to.  
 GEORGE MULLEN 18 Chapman Place, Boston.

**GEO. A. SUTHERLAND,**  
 Successor to Wm. J. Stewart,  
**CUT FLOWERS and FLORISTS' SUPPLIES**  
 WHOLESALE.  
 67 Bromfield St., Boston, Mass.

**City Hall Cut Flower Market**  
**WELCH BROS., Props.**  
 Regular Consignors Given Space Free  
 of Charge. Space left to growers wishing  
 to sell their own goods.  
 Flowers Shipped to all Ports.  
**...SEND FOR PRICE LIST...**

**W. ELISON,**  
**Wholesale Cut Flowers,**  
 Florist Supplies, Wire Designs.  
 2744 Franklin Ave., ST. LOUIS, MO.

**CHAS. G. FLECKENSTEIN,**  
 Wholesale Flowers,  
 123 PINE STREET,  
 ...ST. LOUIS, MO.

**C. A. KUEHN,**  
 Successor to ELISON & KUEHN,  
**WHOLESALE FLORIST,**  
 1122 PINE ST., St. Louis, Mo.  
 A COMPLETE LINE OF WIRE DESIGNS.

**C. W. WORS,**  
**Wholesale Florist,**  
 313 N. LEFFINGWELL AVENUE,  
 ST. LOUIS, MO.  
 FINE ROSES—Shipped carefully to all  
 parts of the country.

**HEADQUARTERS** In Western New York.  
 TRY US  
 ROSES, CARNATIONS,  
 AND VIOLETS.  
**WM. F. KASTING** Wholesale  
 Commission  
 Florist.  
 495 Washington Street,  
 BUFFALO, N. Y.

**ROGERS PARK FLORAL CO.,**  
 Wholesale Growers of Cut Flowers  
 OFFICE AND SALESROOM,  
 41 WABASH AVE., CHICAGO.  
 Headquarters for AMERICAN BEAUTIES.

**TOBACCO STEMS** 75 Cts. per 100 lbs.  
Rules weight about 40 lbs.  
 THE BEST AND BRANDEST SORT OF FRESH,  
 BUTTER-BRUISED TOBACCO, TO BE HAD OF  
 H. A. STOOTHOF, 315 Madison Ave., N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**ASPARAGUS PLUMOSUS NANUS,**  
**W. H. ELLIOTT,** - Brighton, Mass.  
Cot Strings, 8 to 10 feet long,  
 50 cts. each.  
 Shipped to any part of the  
 country.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**SMILAX FOR EASTER**  
 Fine heavy foliage, only 1c. per string. Get  
 in your orders early. Cash with order.  
**A. J. BALDWIN, Newark, Ohio.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE



**M. RICE & CO.,**  
 Importers and Manufacturers of  
**FLORISTS' SUPPLIES,**  
 26 N. 4th St., Philadelphia, Pa.  
 NEW FALL CATALOGUE NOW READY.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**GALAX LEAVES and  
 LECUOTHE SPRAYS . . .**  
 FOR EASTER  
**WHOLESALE FLORISTS** should order a  
 good supply now also be prepared for the next trial.  
 Write the introducer at once for special prices.  
 Telegraph address: Kelsey, January, N. C.  
**HIGHLANDS NURSERY, KAWANA, N. C.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CUT ROSES.**  
 Fine BRIDE, BRIDESMAID  
 and PERLE on short notice.  
 Give us a trial.

**THE NATIONAL PLANT CO.** Dayton, Ohio.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**COMPLETE LINE OF SUPPLIES**

**WIRE WORK**

WE MAKE  
 WE IMPORTERS  
**BULBS**  
 PHONE 1557  
 BOX 73

ALWAYS ON HAND  
 FINE STOCK  
 EVERYTHING

**ELLIS & POLLYWORTH**  
 MILWAUKEE WIS.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**"SWEET OGRADY"**  
**ROSIE**

OR  
**ANYTHING**  
 IN  
**"ROSIES"**

**CUT-FLOWERS**  
 FLORISTS SEEDS  
 AND SUPPLIES  
 CAN BE HAD OF  
**E.H. HUNT,** 68 Lake St. CHICAGO.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Pittsburg.**  
 Trade News.  
 During my absence the past month  
 trade was reported as fair, and prices were  
 upheld well, but the past week has been  
 rather quiet. Stock seems to be plentiful,  
 but there is no great glut, and prices are  
 fair and firm. Bulbous stock takes the  
 lead now. Good tulips sell at from 2c. to  
 3c. wholesale, realizing from 50c. to 81 per  
 dozen. Dutch hydrangeas from 1 to 1 1/2 per  
 dozen for good blooms. Harriall lilas are  
 still plentiful, being quoted at about 1/4  
 per hundred, and selling at retail from 75c.  
 per dozen up. From present indications,  
 the supply for Easter will be heavy.  
 Some good fairly well, while others price  
 is 5c. to 6c.; at retail, from 1/2 per dozen up  
 to 1 1/2. Good carnations bring 1/2 per  
 hundred, selling at 55c. per dozen up.  
 W. Lauch is cutting some fine A. Albertal at  
 present.

It is not often that violets are as abundant  
 as at present, but for all that, prices  
 realized are better than for some years  
 in the East, although the demand is not what  
 it generally is at this time.  
 Plant sales are very slow yet, with lots of  
 stock offered.

**A Gas Explosion.**  
 Years ago, when natural gas was used  
 by all growers for fuel in heating green-  
 houses, explosions were very rare, although  
 the gas was handled carelessly at times;  
 but lately they are occurring more fre-  
 quently. Last Sunday C. Hinkel, near  
 Allegheny City, suffered quite a loss by an  
 explosion of gas, which accumulated in the  
 greenhouses or boiler shed, and became  
 ignited by the flame under the boiler.  
 The boiler house and all the contents of the  
 greenhouses damaged. Walter Hinkel,  
 who was in the building at the time, was  
 badly hurt.

**Jolliffe.**  
 I. S. Carr, of Monongahela City,  
 has opened a branch store in Washington,  
 Pa. Louis Schmitt, who had lately changed  
 of Wyand's place for a number of years, is  
 now with C. Hinkel, and Fritz Muehler's foreman  
 went to Wyand's.  
 E. W. Richards, of New Brighton, paid  
 a visit to the city last week.

The next Florist's Club meeting takes  
 place Thursday, March 25. An interesting  
 program has been prepared by the com-  
 mittee.

L. H. Neff, the Builder at Florist, has pur-  
 chased the store of GIBBONS & McGINNIS,  
 on Sixth st. This is one of the best and  
 oldest stands in the city, and will no doubt  
 flourish under Mr. Neff, who is one of the  
 most enterprising and energetic florists in  
 our vicinity. E. C. RIEBEMAN.

**Washington.**

Among the Stores.  
 Every body who has been fairly busy for  
 the last few weeks, but the prices are away  
 below what they used to be, and seem to be  
 in sinking worse all the time. In the  
 F street stores, carnations are selling at  
 25c. per dozen; violets, the very best, at  
 50c. per bunch and roses anywhere from  
 25c. to 1.50 per dozen for teas. The opening  
 day of Congress used up quite a quantity  
 of material; and next Monday the  
 Senator had a basket or some other kind  
 of floral offering, and many of them had  
 over a dozen pieces.

The Agricultural Appropriation Bill.  
 The Agricultural Appropriation  
 Bill was re-introduced in the House Mon-  
 day. There are no changes in the bill  
 from when it left the House last session.  
 Mr. Smith ill.

Supt. W. K. SMITH has been confined  
 to his home for the past two weeks, suffer-  
 ing from gastric trouble. He hopes to be  
 about in a day or two. G. W. OLIVER.

If you have not tried an ad. in one  
 of our Spring specialties, ask some  
 one who has what he thinks about  
 them. The next will be issued April 3.

**JOHN CONLEY & SON,**  
 MANUFACTURERS OF  
**TIN FOIL,**  
 2 and 4 Dominick Street,  
 NEW YORK.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CHOCOLATE COOLER CO.,**  
 GRAND RAPIDS, MICH.  
 Manufacturers of  
**FLORIST'S REFRIGERATORS.**  
 Send for Circular.

**PAPER** Toothpicks.  
 AND Paper Bags.  
**TWINE.** Waxed and Tissue  
 Papers—all sizes.  
**W. A. SOHL,** 147 E. 42d St.,  
 NEW YORK

**RAFFIA**  
 Of Best White Quality, Braided. Direct from  
 the Packers in Madagascar.  
 Apply for quotations to  
**ANDRE L. CAUSSE,**  
 105-107 Hudson St., New York.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**EVERETT B. CLARK & SONS,**  
 Sole Manufacturers of the  
**GENUINE TROWBRIDGE GRAFTING WAX**  
 and Wholesale Growers and Dealers in  
 strictly New England Foreign Wax Seeds.  
**MILFORD, CONN.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**TOBACCO STEMS** **STRONG AND FRESH**  
 Large Bales (300 lbs.), \$1 50  
**Tobacco Dust,** 2c. per lb.  
 Retailer, the best material for tying, does not  
 injure the plants; it goes farther and is  
 clearer than the quality long stored at 1c. a lb.,  
 \$100 a 100 lbs.

**H. G. FAUST & CO.,** 61 & 66 N. Front St.,  
 Philadelphia, Pa.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**MEYER GREEN SILKALINE.**  
 Used for Stragles SMILAX and ASPARAGUS.



Will not fade, or rot like other colors. Made only in factory  
 colors for fine exposures. Send for samples and prices.  
**JOHN C. MEYER & CO.,**  
 28 Summer Street, BOSTON, MASS., U. S. A.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Boston Florist Letter Co.**

Manufactured by  
**FLORISTS' LETTERS**

Produced by ROY BEE  
 1250 Broadway, New York

This wooden box is nicely stained and varnished, 10x30  
 1/2 made in two sections, one for each letter, given  
 away with first order of 1000 letters.  
 Block Letters, 1 1/2 or 2 each line, per 100, \$2.00  
 Script Letters, \$4.00.  
 Patterns with each letter or word.  
 Used by leading florists everywhere and for sale by all  
 wholesale florists and supply dealers.  
**N. F. McCARTHY, Treas. & Manager.**  
 16 WATER ST., BOSTON, MASS., at MARKET ST.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**WALKER'S EXCELSIOR FOOD****For House Plants.**

An odorless, soluble preparation easy to handle and used in a concentrated form.

A little book entitled "Care of House Plants" supplied with each package. Directions for using and guaranteed analysis stated on every package. PRICE—One-cent package, sufficient for 25 plants for one year, 25c; by mail, 40c. One-half-pint, sufficient for 125 plants for one year, by mail, 25c.

Agents wanted everywhere. Liberal terms.

**THE WALKER FERTILIZER CO.,**  
1110th Spring St., N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**STANDARD POTS.**

We are now ready to supply a superior quality of Pots in unlimited quantities. Catalogues and price lists furnished on application.

**A. H. HEWS & CO.,**  
NORTH CAMBRIDGE, - MASS.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Standard Pots**

MADE BY...

Good Railroad Facilities **KELLER BROS.**  
For Shipping...  
Special Attention Given to  
New York Orders

Norristown, - Pa.

Price Lists Furnished on Application.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**STANDARD****FLOWER POTS**

In any quantity, and of the best quality.

Get my price list before ordering elsewhere.

**W. H. ERNEST,**

Station M, N. E., WASHINGTON, D. C.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**STANDARD FLOWER POTS.**

Our Specialty is ready packed crates of Florida Standard Pots, a large stock of which we keep on hand ready for shipment on day orders as follows:

Size.	Per 1000.	Size.	Per 1000.
1 1/2"	41 00	1 1/2"	10 00
2"	32 00	2"	12 00
2 1/2"	25 00	2 1/2"	15 00
3"	20 00	3"	18 00
3 1/2"	16 00	3 1/2"	22 00
4"	12 00	4"	25 00
4 1/2"	9 00	4 1/2"	28 00
5"	7 00	5"	32 00
5 1/2"	5 00	5 1/2"	35 00

10 per cent. off for cash with order. F. O. B. Fort Edward, N. Y. For order list of Standard Flower Pots, Garden Jars, Jarolites, Seed Pans and Glass Chryslers with Handles for cut flowers, Address:

**AUGUST RÖLKER & SONS, Agents,**  
132 & 138 W 24th St., NEW YORK CITY.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Modern Greenhouse Heating.**

One of our boilers, 10,800 feet of two inch pipe, and sixty tons of coal will heat 28,400 feet of glass (four 20x30 double gable houses) to 65 degrees in coldest Winter weather; they have done it, and will do it for you—we guarantee it. Our boilers are not only the best of their kind, but the best made. They have the largest "firebrigt" direct surface, are the easiest cleaned, handled and set up; and from engineering facts, they are the ideal frictionless, economical water heating boilers of our day.

**Plenty's Horticultural Works,**

148-156 Randolph Ave.,

JERSEY CITY, N. J.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Milwaukee.**

JACOB FREYTAG has finished a plant which for convenience and appearance would be hard to excel. The greenhouses consist of five, each 30x23 feet, running in a row by lines facing north and south with an office at one end and boiler shed at the other. Several of the old houses which are set in good order, though relegated to the background, will be used for violets and bedding stock. One of the best selling plants for winter is the carnation in pots, also canna. I noticed a fine yellow, a white and a blue carnation. The yellow Crysleams are in good demand; the plants are well grown, many running eighteen inches across, and fine strain.

CURME BROS. report a favorable seed return; this is an important branch of their business, and one which they are making strong. They raise considerable stock at the greenhouses which are under the supervision of Mr. Currie, Sr., one of the old type of Ayrshire gardeners who usually succeed in what they undertake. The whole of the cut produced is consumed, with much purchased outside, at their downtown store.

C. B. WHITALL intends devoting more attention to the retail branch of his trade; to facilitate matters he is removing the business of the Wisconsin Flower Exchange to his store downtown, where ample accommodation is afforded for the carrying on of an independent concern. He reports an excellent season, all things being considered and predicts a bright outlook for the future.

W. S. SCOTT, of the firm of Eriksen & Scott, and treasurer of the local Florists' Club, left something to be desired by Pittsburgh. In the meantime the business of the club is in abeyance, and the members are anxiously awaiting Scott's return.

W. M.

**Saginaw, Mich.**

WM. ROTHEE intends building a large carnation house, which promises to be a unique one, and may mark a departure in the building of carnation houses. He will also make other extensive alterations and improvements.

CHAS. PATCH will add two more rose-houses to his already extensive plant; these will run east and west, with the short span to the south. While at Mr. Fruch will overhaul his other houses and equip them with the best ventilating appliances.

MESSRS. GROHMANN BROS. will likewise be kept busy making improvements and alterations.

Weddings, socials, and banquets have kept the florists more than ordinarily active. The most noteworthy event of recent date was the annual banquet of the 77m-Club. For this occasion the immense stage of the Masonic Temple was transformed into a tropical hower by the artistic arrangement of palms and decorative plants. A unique feature introduced was an improved curtain of wild smilax arranged in a way to represent an immense natural vine growing over the stage, having 25 feet of colored incandescent lights embedded here and there in the green. Messrs. Grohmann Bros. had this decoration in charge.

J. B. GOETZ reports a splendid trade all along the line, especially in funeral work.

INTERANT.

**Bay City, Mich.**

MESSRS. BOEHRNER BROS. report trade as always ahead of anything they had experienced ever since they are in business. Their roses and carnations, of which they grow the best standard varieties, are in splendid condition. Their true joy is the distinction of being the first in the Saginaw Valley to build their houses with the short span to the south. They are much pleased with the result.

INTERANT.

**London, Ont.**

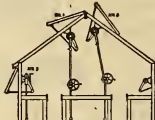
J. GAMMAGE & SONS report a very satisfactory season. Plant trade is increasing both wholesale and retail. They lease a nice central, drawing attention to a well grown general stock, particularly young roses.

W. M.

**YOUR Trade List printed in the "Florists' Exchange Spring Special" will go to 9000 live business men.**

**STANDARD VENTILATING MACHINE.**

NONE  
**EQUAL IT**  
IN  
**Strength**  
AND  
**Durability**  
Send for Catalogue.



**NOTHING**  
Flimsy  
OR  
Complicated  
about it.

**E. HIPPARD, YOUNGSTOWN, OHIO.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**GLASS**

FOR GREENHOUSES, CONSERVATORIES, GRAPERIES, HOTBEDS AND FLORISTS' USE GENERALLY, AT LOWEST RATES.

**A. FULLER & SONS,**

497 W. BROADWAY, NEW YORK, 45 LIBERTY ST., NEW YORK

Bro. Houston and Hester Sts., New York, 2nd Broadway and Church Sts.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**GLASS!**

For Greenhouses, Conservatories, Graperies, Hotbeds and all other purposes, at Lowest Rates.

**N. COWEN'S SON 392 & 394 West Broadway, New York.**

Formerly 154 and 156 No. Fifth Avenue. Estimates Free Given.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**GLASS**

FOR GREENHOUSES, CONSERVATORIES, GRAPERIES, HOTHOUSES AND HOTBEDS.

**VANHORNE, GRIFFEN & CO.**

Agents for CHAMBERS & MCKEE CO., Jeannette Brands American Glass.

Importers of French Glass, 13, 15 & 17 LAIGHT ST., AND 27, 29 & 31 VARICK ST., NEW YORK.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Standard Flower Pots.**

Send for Our New Price List with extra discounts. All our Pots, from 1 in. and up, have our Patent Elevator Bottom, which is a great advantage, as it incurs perfect drainage.

**THE WHILLDIN POTTERY CO., 713 to 719 Wharton Street, PHILADELPHIA.**

BRANCH HOUSES: Kearney and Westside Ave., Jersey City, N. J.

100th Street, New York City, N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**FLOWER POTS**

We are Manufacturing a Full Line of

**STANDARD FLOWER POTS AND HANGING BASKETS**

OF THE BEST QUALITY.

Shipping Facilities First-Class, thereby Securing Lowest Freight Rates.

Our goods are well packed, and breakage is nominal. Give us a trial. Send for Price List.

Address **THE SYRACUSE POTTERY CO., 403 N. SALINA ST., SYRACUSE, N. Y.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**THE JOHN J. PETERS COMPANY**

(INCORPORATED)

**PULVERIZED**

**COMPRESSED**

A Quick Germinator and Crop Forcer.



Beats Every Chemical Fertilizer on Earth.

FACTORY:

Little Ferry, New Jersey.

OFFICE:

Long Island City, New York.

**NATURAL ODORLESS**

Pure Sheep Fertilizer permanently improves the soil.

Matures the largest and best crops. Quick and lasting in its action.

**CLEAN TO HANDLE.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**The Allegheny City Fertilizer Works**

**DR. EDW. L. CZARNIECKI & SON,**

43 First Street, ALLEGHENY, PA.,

Guarantee: their following brands of FERTILIZERS to be Absolutely Strictly Pure and free from South Carolina Rock, or any other adulteration. Send for samples and catalogue, which will speak for themselves.

Their works are open at any time for the public's inspection and they make but one grade of goods, viz: Pure Raw Bone Meal, Pure Raw Bone Phosphate Pure Potato Manure, and Special Lawn and Garden Fertilizer.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**LORD & BURNHAM CO.,**  
HORTICULTURAL ARCHITECTS AND BUILDERS,  
STEAM AND HOT WATER HEATING ENGINEERS.

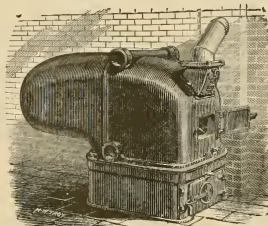
Plans and Estimates furnished on application.



Largest Builders of Greenhouse Structures. Six Highest Awards at the World's Fair. Send four cents postage for Illustrated Catalogue.

**LORD & BURNHAM CO.,**  
ARCHITECTURAL OFFICE, 160 FIFTH AVE., COR. 21st STREET, NEW YORK.  
Factory: Irvington-on-Hudson, New York.

**GREENHOUSE HEATING AND VENTILATING,**  
Horticultural Architecture and Building.



Mention paper.

SEND 4c. POSTAGE FOR ILLUSTRATED CATALOGUE.

**Kitchings & Co**

ESTABLISHED 1844.  
233 Mercer Street, NEW YORK  
FIVE PATTERNS OF BOILERS.  
NINETEEN SIZES.  
Perfect Sash Raising Apparatus.

Roseauze, Greenhouses, Etc., of Iron Frame Construction erected complete, or the Structural Iron Work shipped ready for erection.

Iron Frame Benches with the "Perfect Drainage Bench Type" or Slate Tops.

**Kansas City, Mo.**  
The monthly meeting of the Club was held, March 11, at the office of C. C. Ripley, an enthusiastic amateur. President Murray is progressive, and has an able corps of assistants. The subject for this particular night was the best and most profitable plants to grow for Christmas; and as we were betwixt and between, Easter as well was discussed. A full list was prepared by Messrs. A. Newell and A. Barbe, which, while embracing nothing but what is generally grown and well known, provoked much discussion pro and con.

Walter Mott was present, and gave the members the benefit of his Eastern observations. The preliminary schedule of the Chrysanthemum Show to take place next Fall was read by Secretary Barnes. It contains a liberal premium list, and encourages design work, which is a wise move, as this profitable branch of the florists' business has been allowed to decay for which many instances the members are themselves to blame. An interested member was M. L. Goodman, who is superintendent of the landscape department at Port Arthur.

**R. S. BROWN & SON** have recently completed a useful range of four houses, one of zinc, two of copper, and one of galvanized iron, of which they are large shippers West and Southwest. The method of heating is with boiler tubes connected to Carmody's new boiler, while Evans' machine does the ventilating; and, by the way, the fame of the illustrious representative of this machine, as a vocalist, is being wafted, as is his machine, the country o'er.

**JAS. PATTY** has become quite a celebrity in connection with carnations, of which he brought a fine specimen to the Club to show the boys what splendid plants can be grown.

**PROBST FLORAL CO.** report a very satisfactory season. They are having a big run houses built last summer none too many; they are 1 and 2, each 10 feet and 12 feet, and also Meteor and Bride roses. In addition to cut flowers, much flowering stock is raised in the house of cyclamen in fine shape for Easter being one of the features. W. M.

**St. Joseph, Mo.**  
L. J. STUPPY has had great success with M. Louise violet this winter, one of the few whose stock has improved instead of deteriorating. He has cut heavily of roses and carnations, but, with others, is looking for the easiest. Well, J. Hille's bill is at present. I saw some grand stock with J. Freytag at Milwaukee. Mr. Stuppy has been sick for some time, being threatened with pneumonia, which it is to be hoped he will escape. His tank is conducting business as usual.

D. S. REICHAUD is also under the weather, but expects to soon be around again. He has a good lot of stock.

**JAS. KIDD** is issuing an attractive mailing plant catalogue which cannot fail to be read with interest. W. M.

TRADE follows wherever the "Florists' Exchange" goes, and the "Florists' Exchange Spring Special" will go everywhere.

**PIPE VALVES**  
Wrought Iron, Pipe, Valves, Cocks, Fittings, etc., for Steam and Hot Water; Rubber Hose, Pumps and Well Pumps.  
WM. H. KAY, 42 Dey St., New York.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CALIFORNIA RED CEDAR**  
Never Decays.  
A. DIETSCH & CO. 619 Sheffield Avenue, CHICAGO.  
MANUFACTURERS OF  
RED CEDAR AND CYPRESS GREENHOUSE MATERIAL.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

SEND FOR OUR NEW CATALOGUE, WHICH SHOWS

**The New Automatic Cable Ventilator**

As it is put up in the house complete. We also give you prices with a guarantee that each machine sent out will operate your house successfully. Roll machines now made in two sizes.

**A. Q. WOLF & BRO., Dayton, Ohio.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**GREAT REDUCTION IN PRICE.**

On account of the consolidation of the two firms—Rider Engine Company and the DeLamater Iron Works, which have heretofore manufactured the

**RIDER & ERICSSON HOT AIR PUMPING ENGINE**

a great reduction in prices has been made, and the enlarged and improved facilities of the new firm to produce a better engine than ever before offered for securing an abundant water supply for all purposes on Dairy, Stock and other farms, and for country seats, city residences, etc.

New catalogues are ready, and will be sent to those who ask for them.

**RIDER-ERICSSON ENGINE CO.,**  
22 Cortlandt St., New York, N. Y.      56 Little St., Chicago, Ill.  
191 & 193 High St., Boston, Mass.      129 & 131 N. 7th St., Phila., Pa.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**The Right Cypress for Greenhouse Material.**

Have you heard of Cypress Greenhouse Material that has not been satisfactory? If you have it does not follow that Cypress is not the best lumber to use. There is White Cypress, Yellow Cypress and Red Cypress; there is Cypress that grows on the high lands and Cypress that grows in the swamps.

All of these different kinds are not suitable for greenhouses. Do you know which kind is best and do you know that kind when you see it? If not you would better buy from those that do know and will deliver exactly what they sell. We introduced Cypress for greenhouse construction and pushed it to the front. We know all about it. For fifteen years we have made a specialty of furnishing it, and during this time we have built up a reputation that we cannot afford to jeopardize. We send out the best only.

**Lockland Lumber Co.,**  
LOCKLAND, O.

Write for Circulars or Estimates.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**EVERY FLORIST OUGHT TO INSURE HIS GLASS AGAINST HEAL.**

For particular address  
**JOHN G. KILLER, Sec'y, Saddle River, N. J.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**VALVES, FITTINGS, AND VENTILATING APPARATUS.**  
COLDWELL-WILCOX CO.,  
Newburgh, N. Y.  
Mention paper.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

IF YOU WANT A GOOD SASH LIFT For a Very Little Money Get

**THE NEW DEPARTURE VENTILATING APPLIANCE.**

For Descriptive Catalogue Send to  
**J. D. CARMODY, Evansville, Ind.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CYPRESS GREENHOUSE MATERIAL**

OF ANY DESCRIPTION.

SEND FOR CATALOGUE.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**JOHN C. MONINGER CO.**  
412 to 422 WASHINGTON AV. CHICAGO, ILL.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**SCOLLAY'S IMPROVED PUTTY BULB**

For Glazing Sash, Etc., — ALSO THE—  
**PATENT PLANT SPRINKLER**

For sale by your Seedsmen, or sent, postpaid for \$1.00.  
**JOHN A. SCOLLAY,**  
76 & 78 Myrtle Ave.,  
BROOKLYN, N. Y.

SEND STAMP FOR CATALOGUE.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

"GOLDEN BEAUTY."

New Yellow Canns, clear, bright color, massive flower, continuous bloomer, vigorous grower, dwarf habit. As good as the best. READY NOW. \$50c each; \$4.00 per doz; \$25.00 per 100.

Also QUEEN CHARLOTTE, ALPHONSE BOUVIER, MME. CROZY, J. C. VAUGHAN, J. D. CABOS, EX. CRAMPBELL. \$1.00 per doz; \$6.00 per 100. All from 4 inch pots. Cash or reference with orders. Circular and colored plate for the asking. JOHN WHITE, Elizabeth, New Jersey.

"JOHN WHITE."

The beautiful new variegated leaf variety. Finest plant for all decorative purposes produced in years. Stock in superb condition and READY NOW. 75c each; \$7.50 per doz; \$50.00 per 100.

50,000 SMILAX, by mail, 50c per 100, \$5.00 per 1000.

NEW READY, Strong plants, 2 1/2 inch pot, \$2.00 per 100; \$25.00 per 1000. Also budding and basket plants later.

Colours: Bred and Cuckoo, 75c. per 100; \$6.00 per 1000.

GEORGE W. GASKILL, WARREN, OHIO.

GERANIUMS Not Named.

4-inch pots, double, white, pink or scarlet, single. \$1.00 per 100.

2 1/2-inch pots, double, white, pink or scarlet, single. \$2.50 per 100.

Heela, new scarlet, single, 2 1/2-inch \$3.50 per 100, JAMES FROST, Greenville, Ohio

GERANIUMS Double Grant 2 1/2 in., \$2.00 per 100.

Pansies, in bud and bloom, \$1.25 per 100. Stills, in bud, \$1.00 per 100. Golden Bedder and Versicolorii Colours Cuttings, \$1.00 per 100.

EVERITT & INSALL, Hackettstown, N. J.

GERANIUMS Double Grant 2 1/2 in., \$2.00 per 100.

Pansies, in bud and bloom, \$1.25 per 100. Stills, in bud, \$1.00 per 100. Golden Bedder and Versicolorii Colours Cuttings, \$1.00 per 100.

EVERITT & INSALL, Hackettstown, N. J.

GERANIUMS Double Grant 2 1/2 in., \$2.00 per 100.

Pansies, in bud and bloom, \$1.25 per 100. Stills, in bud, \$1.00 per 100. Golden Bedder and Versicolorii Colours Cuttings, \$1.00 per 100.

EVERITT & INSALL, Hackettstown, N. J.

GERANIUMS Double Grant 2 1/2 in., \$2.00 per 100.

Pansies, in bud and bloom, \$1.25 per 100. Stills, in bud, \$1.00 per 100. Golden Bedder and Versicolorii Colours Cuttings, \$1.00 per 100.

EVERITT & INSALL, Hackettstown, N. J.

GERANIUMS Double Grant 2 1/2 in., \$2.00 per 100.

Pansies, in bud and bloom, \$1.25 per 100. Stills, in bud, \$1.00 per 100. Golden Bedder and Versicolorii Colours Cuttings, \$1.00 per 100.

EVERITT & INSALL, Hackettstown, N. J.

GERANIUMS Double Grant 2 1/2 in., \$2.00 per 100.

Pansies, in bud and bloom, \$1.25 per 100. Stills, in bud, \$1.00 per 100. Golden Bedder and Versicolorii Colours Cuttings, \$1.00 per 100.

EVERITT & INSALL, Hackettstown, N. J.

GERANIUMS Double Grant 2 1/2 in., \$2.00 per 100.

Pansies, in bud and bloom, \$1.25 per 100. Stills, in bud, \$1.00 per 100. Golden Bedder and Versicolorii Colours Cuttings, \$1.00 per 100.

EVERITT & INSALL, Hackettstown, N. J.

WATER LILIES

Our stock is unequalled in the United States; see our quarterly trade list and general catalogue. Estimates furnished. HENRY A. DREER, 714 Chestnut Street, PHILADELPHIA.



Florists' Supplies.

We are prepared to supply in any desired quantity.

H. BAYERSDORFER & CO., 56 N. FOURTH STREET, PHILADELPHIA, PA.

EGYPTIAN LOTUS and VICTORIA REGIA.

We have specimens to the land carry a full line of aquatic Plants suitable for all purposes. Superior Quality. Send for illustrated Catalogue.

Largest Stock in the Country. All goods up to date, and of superior quality. Send for illustrated Catalogue.

We are prepared to supply in any desired quantity.

H. BAYERSDORFER & CO., 56 N. FOURTH STREET, PHILADELPHIA, PA.

THE CAPE VERDIA.

A. HERRMANN, 404-412 E. 34th St., New York, Near Ferry.

Manufacturer of Floral Designs, Importer and Dealer in Florists' Supplies.

Write for Catalogue. Free to the trade.

AUGUST RÖKLER & SONS, DEALERS IN ALL.

FLORISTS' SUPPLIES, Seeds and Bulbs, 136 West 24th Street, NEW YORK. Wholesale only. Trade Lists mailed on application with business card. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

WELCH BROTHERS, DEALERS IN.

FLORISTS' SUPPLIES, No. 2 Beacon Street - BOSTON. Wholesale. Cash. Flowers, Cut Flowers, Boxes and all other supplies, at prices to meet competition.

E. G. HILL & CO., Wholesale Florists,

RICHMOND, INDIANA.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

CALENDULUM ESCULENTUM.

Clean, extra bulbs, 6 to 12 in., \$1.00 per 100; 100 to 120 in., \$3.00 per 100; 10 to 12 in., \$1.00 per 100; 12 to 14 in., \$1.50 per 100; 14 to 16 in., \$2.00 per 100; 16 to 18 in., \$2.50 per 100; 18 to 20 in., \$3.00 per 100. Pearl Tuberosa bulbs, 2 1/2 size, \$2.50 per 1000. Extra Box, \$2.50 per 1000. Also, Grandiflora, Hardy Camellia, and all other good plants. Jas. N. Lamb, Southview Parkville, N. C. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

CLEMATIS 2 year old plants, \$2.00 per doz. 3 year old plants, 3.00 per doz. GARNATIONS All the Novelty at ruling prices. Best Standard varieties. Best \$2.00 per 100.

CHRYSAEMTHEMUS Best Standard varieties. Price on application.

C. EISELE 14th & Jefferson Sts., Phila Pa. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

ROSA WICHURANNA (Monarda Rose), extra, large Japanese running rose, open ground plant, well rooted 3 1/2 inches, \$1 per 100; 4 to 12 inches, \$1.50 per 100; 12 to 14 inches, \$2.00 per 100; 14 to 16 inches, \$2.50 per 100; 16 to 18 inches, \$3.00 per 100; 18 to 20 inches, \$3.50 per 100. Also, other roses, including the new variety, white, purple and blue, single and double, and all other good plants. Free from E. V. TEAS, 17th Avenue Irvington, Ind.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

WE ARE HEADQUARTERS ON BULBS FOR FORCING, FLOWER SEEDS FOR FLORISTS, ENGLISH MUSHROOM SPAWN.

SPECIAL PRICES ON APPLICATION. JOHN GARDINER & CO., Seedsmen, Philadelphia, Pa.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

CANNAS and CROTONS.

1000 CANNAS for March delivery, in strong 1 1/2 inch pots, \$3.00 per 1000. Also, other varieties, including the new variety, white, purple and blue, single and double, and all other good plants. Free from E. V. TEAS, 17th Avenue Irvington, Ind. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

P. J. BERGMANN, Fruiterer, Augustus, Ga. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

Room Wanted!

And must be had at any price.

Per 1000 Ageratum, Blue and White, rooted cuttings, 50c. Fuchsias, all the leaders, rooted cuttings, 15 00 per 1000. Best buds, 10c. per 1000. Double Grant, 2 1/2 in. pots, 30c. per 1000. Heliotrope, 6 varieties, rooted cuttings, 5 00 per 1000. Little Gem, 3 1/2 in. pots, 10c. per 1000. Salvia Splendens, rooted cuttings, 5 00 per 1000. Mts. of Snow, rooted cuttings, 10 00 per 1000. White, 2 1/2 in. pots, 2 50 per 1000. HEADQUARTERS FOR ...

COLEUS

Ornison Yerachafisti and Golden Queen, \$2.00 per 1000. COLEUS in variety, \$4.00 per 100. \$1.00 at 1000 rates. Fifteen cents extra per 100. Selection of sorts to suit with cash.

Cash with Order. J. E. FELTHOUSEN, Schenectady, N. Y. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

A FEW SENSATIONS!

Asparagus Sprengeri. Just received advices from the disseminators of this grand perennial plant, for open ground, (as follows): Special Prices for 15 year old, other strong plants. \$15 per 1 year old, strong plants. \$1.50 per 1000.

Cannas, from India and Italy. by mail. Anatra, \$2.50 per 100; Italia, \$3.00 per 100. All the plants in this list are of the best ever propagated and of the finest quality. Send \$1.00 and get a large sample bill, containing numerous eye-views and special prices for larger quantities.

Cocos and China Seed. Fresh seed just arrived. \$5.50 per 1000. Box contains 1000 seeds, \$23.00.

Lily of the Valley. Choice selected forcing plants. \$7.50 per 1000, or box of 2500 plants, \$17.00.

Tuberose Bulbs. "Dwarf Pearl." As fine a sample as ever seen. Hard packed, 600 in a bin, \$6.00 per bin, or 5 bins for \$29.00.

Caladium Esculentum. "Elephant's Ears." Any size bulb you want from 5 to 9 inches in circumference; clean and sound. \$3.50 per bulb, or 100 for \$35.00. Quality level in proportion.

Asparagus Plumosus Nanus Seed. \$10.00 per 1000 seed. Sweet Peas. Emily Henderson, 25c. Simple's Aster, white, pink, or mixed, per lb.; 5 lbs. for \$1.00. Importers, Exporters and Growers' Agents of.

GLUCAS & BODINGTON CO., PLANTS, SEEDS AND BULBS, Telephone Call, 403-18th St. 501 and 503 W. 13th St., New York City. WHEN WRITING MENTION THE FLORISTS' EXCHANGE!

# THE FLORISTS' EXCHANGE

We are a straight shoot and aim to grow into a vigorous plant.

A WEEKLY MEDIUM OF INTERCHANGE FOR FLORISTS, NURSERYMEN, SEEDSMEN AND THE TRADE IN GENERAL.

VOL. IX. NO. 13.

NEW YORK, MARCH 27, 1897

One Dollar Per Year.

"Every Bulb's a Pearl"

**THOSE TUBEROSES**  
Beat anything I ever  
saw; very large.

(Signed) W. A. MENROE.

Providence, R. I., March 10, '97.

"Every Bulb's a Pearl."

There is no doubt about it. We have the finest stock in the country. Bulbs are selected 4 to 6 inches in circumference—the True, Dwarf Pearl, and have given satisfaction wherever shipped. Our Tuberoses are grown on one plantation on new land each season—scientifically cultivated, harvested and cured. They cannot be surpassed in quality while the price is no higher than charged for ordinary strains. The general stock of Tuberoses bulbs is getting scarce. Do not delay ordering too long.



Per 1000 ..... \$7.50  
Per 5000 ..... 32.50  
Per 10,000 ..... \$55.00  
250 supplied at 1000 rate.

While we make Tuberoses a tender, do not forget that we carry select stocks of all other Spring Bulbs, Seeds and Plants.

**PITCHER & MANDA, Short Hills, N. J.**  
JOHN N. MAY, Receiver.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## THE NEW CLIMBING ROSE YELLOW RAMBLER—REGLAID

The Only Hardy Yellow Climbing Rose Yet Introduced.  
A Worthy Companion to the Wonderful Crimson Rambler.

This new Rose bids fair to have as wonderful a sale as its predecessor, the Crimson Rambler. We have a large stock of it, and offer it at the following exceedingly low prices, viz:

Strong Plants, 2 1/2 inch pots, \$50 per doz.; \$15.00 per 100.  
\$50

Full description of this valuable novelty, also a beautiful colored illustration of same, a reproduction of a painting by the celebrated artist, Paul de Longueval, will be found in our descriptive catalogue, which will be sent on application to any one who may not have received it. We can supply you the

### NEW ROSE, PRES. CARNOT

in any quantity, fine, strong, healthy plants, 2 1/2 inch pots, at \$15.00 per 100; \$125.00 per 1000

### WINTER-FLOWERING ROSES

is large and in exceptionally fine shape. We offer all the leading varieties as follows:  
Felicite, Bride, Metzer, Bridemaid, Mme. Cassin, \$5 per 100; \$40 per 1000.  
Mme. Caroline Testout, Kaiserin Augusta  
Victoria and Mrs. Pierpont Morgan, \$6 per 100; \$50 per 1000.  
American Beauty, \$9 per 100; \$80 per 1000.

Our Wholesale List and Complete Descriptive Catalogue will be sent Free on Application to any who may not have received them.

**F. R. PIERSON CO.,**  
TARRYTOWN-ON-HUDSON, NEW YORK.

### TUBEROUS BEGONIAS AND TUBEROSE PEARL

At lowest Wholesale Rates in Quantity. Write for Price

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

SEND FOR OUR PRICE LIST OF

## HIGH GRADE SEEDS AND BULBS

If You Have Not Received One.

FLOWER AND VEGETABLE SEEDS IN PACKETS.

We Do Not "Commission" or Place Seeds Out "On Sale."

But we supply Florists with seeds put up in handsome colored packets for retail at \$125 per 100, or \$10.00 per 1000. These Packets, besides having a lithograph of the flower, the common and botanical name on the front, have a description of the flower and cultural directions on the back and a blank space for name and address, which will be printed on same if ordered in 1000 lots or more. SEND FOR SAMPLE.

Price of Peas, Beans and Corn in Packets, \$4.00 Per 100.

**DWARF PEARL TUBEROSE BULBS**, 4 to 6 inches in circumference, \$7.50 per 1000.

**TUBEROUS ROOTED BEGONIAS**, sound stock, 6 colors, separate, \$3.00 per 100.

**GLOXINIAS**, named varieties, \$5.00 per 100.

In Making Up Your Order for Florists' Flower Seeds, Don't Fail to Include Some

**ALLEN'S DEFIANCE MIGNONETTE** offered this Season at \$1.50 per oz., and 35 cts. per packet, containing 1 1/2 ounce.

**F. E. McALLISTER CO.** Seed and Bulb Merchants, 69 Cortlandt St. N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## THE BURBAK CANNA.

The new giant yellow Orchid-flowered variety with musc-like foliage. '95 unquestionably the finest of the new Orchid-flowered class and a GRAND 'Yell'. Realizing the true merit of this grand California seedling, we placed plants of it at once in the hands of members of the **CANNA COMMITTEE** of the Society of American Florists. They say of it, **UNANIMOUSLY** as follows:

MR. D. ZIEGLER, of Northham, Mass., of the same Company, who tested it with all the best new ones, says: "Yellow Burbak is the best yellow in cultivation now, very large flowers of a handsome, bright shade of nearly pure yellow."

MR. J. T. TEMPLE, of Danvers, Vt., of this Committee, says: "This is the best yellow I have seen in 15 years' experience."

MR. FRED KANTZ, head gardener of South Park, Chicago, and an expert judge of Cannas at the World's Fair, says: "The flowers were much admired in the park this summer. The foliage is like rubber; it is always good; you can't beat it."

MR. JAMES DEAN, chief of the New York horticultural display at the World's Fair, says: "Burbak is a new plant without comparison of a new class of these beautiful flowers."

Seeing  
is  
Believing

Now ready, fine plants from 2 1/2 inch pots, each, 75c. doz.; \$35. 25 for \$15; Doz. lots ppd. to London, 37s.; doz. lots prepaid to Hamburg, 38 marks.

**CANNAS, WE CARRY LARGE WELL ASSORTED STOCK.**

**LILIUM HARRISII, PRICES NOW READY.**

**VAUGHAN'S SEED STORE,**  
NEW YORK, 14 Barclay St. P. O. Box 688, CHICAGO.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE



BEGONIAS, TUBEROSES AND GLADIOLI.

I have to offer an Extra Choice lot of Tuberoses Rooted Begonias, Single, large size, in 4 grades...

GET THE BEST ASTER SEED

of the celebrated Simple Aster, mixed. Separate colors all sold except pink. Seed well cleaned, plump and good.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

GLADIOLI

DEALERS AND FLORISTS.

Not cheap stuff to be gotten rid of at any price, but HIGH GRADE, at reasonable rates.

CUSHMAN GLADIOLUS CO.,

ORDER YOUR GOODS FOR SUMMER DELIVERY IN TIME Early Orders are the BEST, get the BEST STOCK, get the BEST PRICES

We quote you now for delivery in JULY to SEPTEMBER. Freesia refracta alba, Tree Fern Stems, Calla Ethiopica, Palm Seeds, Li. Longiflorum, California Forcing Chinese Narcissus, Bulbs.

NEW PRICE LIST on above out NOW. Send for it. Address all communications to H. H. BERGER & CO., (Established 1878.) San Francisco, Cal.



CANNAS CANNAS CANNAS

Roots are strong, in perfect condition, and absolutely true to name

- Suberbia the best dwarf yellow, 100 \$200
Albinoe Bouvier, 150 250
Cape P. de Suzoni, 250 200
Chas. Henderson, 250 200
Cherif de Bezon, 250 200
Compt H. de Choiseul, 250 200
Etrusque, 250 200
Flamboyant, 250 200
Florence Vaugou, 250 200
Froese ou Croz, 250 200
Geoffroy St. Hillaire, 250 200
Paul Brunat, 250 200
Paul Marquet, 250 200
Pres. Caroz, 250 200
Suzee Charlotte, 250 200
Wm. Elliott, 250 200

- TUBEROSES. Excelsior Pearl, 4 to 6 in., 100 \$1.50
GLADIOLI. Common Mixed, 1/2 in., 50 40.00
CALADUM ESCULENTUM. 1st size, 9 to 1 1/2 in., 6 40.00
2nd size, 6 to 8 in., 2 40.00
3rd size, 3 to 4 in., 1 40.00
OXALIS. Helphi, Laslandr, Shamrock, 15 1.00

THE LOVETT CO., LITTLE SILVER, N. J. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

FRANCIS BRILL, GROWER OF CHOICE LONG ISLAND CABBAGE SEED. All leading varieties and sweet strains. Also dealer in the Finest American-made Cellulose Seed.

HEMPSTEAD, LONG ISLAND, N. Y. WHEN WRITING MENTION THE FLORISTS' EXCHANGE. GLUCAS & BODDINGTON CO., Importers, Exporters and Growers' Agents of Plants, Seeds and Bulbs.

SEEDS for Profit Sweet Peas. Wholesale Catalogue on application. WEBER & DON, Seed Merchants, 114 Chambers St., NEW YORK CITY.

FINE PLANTS CHEAP. Geranium, Double Grand, 2-4 in. pots, \$2.00. Begonia Variegata, 5 in. pots, \$2.00.

NICHOLAS AMOS, Keynote Conservatory, Crestline, Ohio. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

GREEN AS GRASS Mammoth Verbenas. Rooted Cuttings, in separate colors. Per 100, \$5.00.

ROOTED CUTTINGS. Geraniums, best named sorts, \$1.50 per 100. Petunias, Dyer's Strain, \$1.50 per 100.

10,000 ALTERNANTHERAS (Red and Green). A. Amabilis and A. Nana, good, strong plants, out of 23 1/2 in. pots, \$2.00 per 100.

PRIMROSES. From 1/2 and 3/4 in. pots, covered with large pure white flowers, \$1.00 per 100. COLEUS, rooted cuttings from soil, so best bedding varieties, as well as many fancy sorts.

THE COTTAGE GARDENS, Queens, L. I. SPECIALISTS IN Carnations, Cannas, Chrysanthemums, Geraniums and Dahlias.

MENTION PAPER. SEND FOR OUR PRICE LIST.

100,000 VERBENAS. THE CHOICEST VARIETIES IN CULTIVATION. Fine pot plants, \$2.50 per 100; \$20 per 1000. Rooted Cuttings, 75c per 100; \$6.00 per 1000.

LARGEST AND FINEST FLOWERS. HEALTHY VIGOROUS STOCK. BEST MAMMOTH, rooted cuttings, per 100, \$1.25; per 1000, \$10.00.

MISCELLANEOUS PLANTS. Geraniums, fragrant, from 2 1/2 in. pots, \$1.00. Pansies, 12 fine varieties, from 2 1/2 in. pots, \$1.00.

WOOD BROS., Fishkill, N. Y. WHEN WRITING MENTION THE FLORISTS' EXCHANGE. Ageratum, blue and white, \$1.50 per 1000. Celosia, all leading sorts, \$1.00 per 1000.



It is purity of family, of genus, of species of that it is a right as it is intended to conform. We ask this question by way of information.

The free distribution of seeds is a travesty of the original act of Congress which has made the abuse possible and of which the inventor cannot be held responsible. But what influence can the sections have with its Representative in Congress? It is not in our power to appropriate, if he is, at the same time, profiting by the practice he condemns?

The right agent is the inventor, Mr. Smith, to the letter, but where he upholds the system, and criticizes the acts of Secretaries and Congress, he is not intended to carry out the law as he understood it, and to put a stop to a howling abuse, we must do it for him. At the same time, at the same time, we scarcely think inspiration had much to do with the appointment of Mr. Smith, while we do not question it while he is able to judge better when we see what he does. Our influence and acts are what we need. Our environments, we are apt to think what we do, either from our own volition, or in obedience to custom, or to right. Mr. Smith is at the head of another branch of the Government's charitable institutions, viz., the distribution of seeds. Each member of Congress, and all others as high or higher in rank is entitled to a certain amount of seeds, which is sufficient for an ornamental garden, which are sent free of transportation charges to the United States. Each member, too, is entitled to a bouquet of regulation size at regular intervals. This is a matter so familiar to the face," and the practice of sending plants to them is probably the most generous of seeds sent out from the country free, seem justifiable. Surely if it is, the other is, and truly so, to the last, as well as to the law at the last, last season was more liberal to the dear people than ever before, or ever will be. It is not the distributing was, for all applicants were to select just what they wanted instead of what is given. If the selection is good, this is better. But why stop here? If seed is the beginning of wealth, why not attempt to cultivate the growing crop? Surely if an M. C. wishes to be a grower, he should be so. It then, why not go and grow, and in case a man has not the land to furnish that, why not rent a few acres, and there, there hand. There is a certain class of politicians that is exceedingly anxious to do everything, and to do as little as possible. These men are called socialists, and their motto is "free distribution, commencing with free seed distribution."

Turning to the serious side of the question there is a work the Department of Agriculture can and should do—a work in its line of duty. It is to encourage agricultural industry, and agricultural progress. The inventor of a new machine or appliance, a patent medicine, the author of a new method of conducting business, in many years. But the originator of a new vegetable, fruit or flower has no protection whatever. He must sell his seed for one or two years.

The original act, which was approved March 3, 1837, was intended to encourage and distribute among the people new and valuable seeds and plants. To that end the inventor is to receive a certain amount of seeds for one or two years.

What an insignificant work for a country to buy from its inventor, and pay for it the price (we say nothing of quality) and distribute them under the seal of the Department of Agriculture, and to let the chain of American progress. Better, by far abolish the Department, than have it controlled by a few men, who will do for the people what that is worth, or that cost but one-half cent per paper, the price to look for them in the department stores.

New York. Wm. Maggat, Wetherfield, Conn., was the visitor this week.

St. Louis City, Ia.—A local paper reports that since the Sioux City Nursery and Seed Company, which is the largest of a receiver, he has made a profit of \$5,000.23.

St. Louis, Mo., Feb. 25, 1897, which has the face value of the former as \$123,700.46, and the latter as \$123,700.46, which can be realized on sale at \$83,830.93.

Bernuda Harris Bulbs.—It is reported that growers of bulbs in the island of Cuba, are making combinations, with the end in view of maintaining a certain percentage of the product and join one or the other. It is also said that the crop will be short, owing to the present inferior condition of the plants.

European Notes.

The March exhibition of the Royal Horticultural Society in London is regularly the largest and most interesting of developments in cinerarias, and this year has been no exception to the rule. A considerable number of new varieties were looked for, but only one grower (J. Douglas) appeared in opposition to James Peck. The combined display of the exhibit was that it was the finest he has ever staged. The colors were greatly improved, and many of the new varieties bloomed very large and of superb shape and substance."

There were also an animated controversy has been going on in Europe respecting the best method of raising the plants. The Cambridge Botanic Gardens numerous experiments have been made with various methods, and it is thought that a final settlement of this disputed point.

The following extracts from an article by the Rev. Canon H. C. G. in the "Gardeners' Magazine" is of most popular value: "Cineraria cruenta is most likely one of the parents, and some of the best specimens of this variety have been crossed with it. Some gardeners, have shown seedlings from C. cruenta, presumably raised in the garden, and these seedlings have been well on the road to our present garden varieties. It is not, however, the case, as it is crossed in some way by the garden forms, for I have proved that seedlings from H. C. G.'s seedlings and those from the original C. cruenta are not different."

English gardening books published about 1790, reference is made to "Cineraria cruenta," and it is stated that the woolly-leaved African C. lanata, and the blue-leaved variety, C. cruenta, 1793, is stated to "far eclipse all other sorts cultivated in our gardens." The Florist for 1849, referring to the above, says: "Yet these are all purple sorts of the most starchy and open description imaginable. What would the admirers of such flowers have said to the beautiful productions of the present day?" p. 177.

Another point of interest in the colored plate of four of the finest varieties known, three of them raised by James Peck, and one by J. Douglas. The diameter of the largest bloom is not quite 1 1/2 inches, and the colors are as follows: "The first is a large, double, and of the same work, A. Kendall, one of the foremost cultivators of the present day, has the following properties of a good cineraria:—"In judging the properties of a cineraria, first consider, but where every other property is equally good, a large size of the petals is the first thing I should hope yet to see every pip as large as a half crown, and as round as a full moon. That which is the most perfect, and perfectly that flower will pass, but if the petals reflex is a fatal point, and cannot be remedied, the flower is lost. I should see the recent developments of his favorite flower it would have caused him many of a cineraria's properties, but where every other property is equally good, a large size of the petals is the first thing I should hope yet to see every pip as large as a half-crown, is 1 3/16 inches; many of the blooms exhibited by James were about 3/4 of an inch in diameter, and in some cases the size was exceeded. The tasteful master of floral fairs, and the size and position of the petals is still insisted upon, the cupped petals are the most valuable, and more beautiful reflexed flowers that were at first so much despised. The range of colors is also a matter of great importance. One other very interesting exhibit at the meeting before referred to was a beautiful variety named 'Mrs. Nichols', and another named Salpurga. The flower has all the

attractive qualities of the parent variety. As regards seeds in general, the situation is practically unchanged since the last year's report. The supply of seed appears to be exhausted, and rain, hail, sleet and snow are adjudged between a cold winter, in which the quantity of seed cold, biting winds.

The cultivation of our Spring trade is the large demand for all varieties of beans of the Windsor and Long Pod, and the quantity of seed is declining in value every day. By the death of Charles Sharpe, of Sleaford, a well-known and prominent figure is removed from the European seed trade. His great business abilities and extensive knowledge of the soil, and the art of acquiring a considerable fortune, and so on, continues were his successes that only when he entered the world of politics that he sustained defeat. A short time back the business he founded was turned over to a limited company, but he retained his interest in it to the last.

EUROPEAN SEEDS.

Boston.

The Spring Show. The annual Spring exhibition of plants, flowering bulbs and cut flowers of the Horticultural Society of Boston, occurred on Tuesday, Wednesday, Thursday and Friday of the past week. The success of the show, in respect to the quality of exhibits among the best ever held in Boston, and the fine weather of the day, with beautiful weather, but the attendance, so far as the general public was concerned, was not so good. It is thought to have been, considering the magnitude and excellence of the exhibition. However, the exhibition was successful in all respects, and the competition in many of the classes far exceeded expectations.

The exhibits of the Horticultural Society occurred on Tuesday, Wednesday, Thursday and Friday of the past week. The success of the show, in respect to the quality of exhibits among the best ever held in Boston, and the fine weather of the day, with beautiful weather, but the attendance, so far as the general public was concerned, was not so good. It is thought to have been, considering the magnitude and excellence of the exhibition. However, the exhibition was successful in all respects, and the competition in many of the classes far exceeded expectations.

The exhibits of the Horticultural Society occurred on Tuesday, Wednesday, Thursday and Friday of the past week. The success of the show, in respect to the quality of exhibits among the best ever held in Boston, and the fine weather of the day, with beautiful weather, but the attendance, so far as the general public was concerned, was not so good. It is thought to have been, considering the magnitude and excellence of the exhibition. However, the exhibition was successful in all respects, and the competition in many of the classes far exceeded expectations.

The exhibits of the Horticultural Society occurred on Tuesday, Wednesday, Thursday and Friday of the past week. The success of the show, in respect to the quality of exhibits among the best ever held in Boston, and the fine weather of the day, with beautiful weather, but the attendance, so far as the general public was concerned, was not so good. It is thought to have been, considering the magnitude and excellence of the exhibition. However, the exhibition was successful in all respects, and the competition in many of the classes far exceeded expectations.

The exhibits of the Horticultural Society occurred on Tuesday, Wednesday, Thursday and Friday of the past week. The success of the show, in respect to the quality of exhibits among the best ever held in Boston, and the fine weather of the day, with beautiful weather, but the attendance, so far as the general public was concerned, was not so good. It is thought to have been, considering the magnitude and excellence of the exhibition. However, the exhibition was successful in all respects, and the competition in many of the classes far exceeded expectations.

The exhibits of the Horticultural Society occurred on Tuesday, Wednesday, Thursday and Friday of the past week. The success of the show, in respect to the quality of exhibits among the best ever held in Boston, and the fine weather of the day, with beautiful weather, but the attendance, so far as the general public was concerned, was not so good. It is thought to have been, considering the magnitude and excellence of the exhibition. However, the exhibition was successful in all respects, and the competition in many of the classes far exceeded expectations.

Show Notes. W. E. Doyle, by H. K. Southworth, made a fine display of Lady Campbell Violets, which he has made up for this Winter.

Nives carnation showed up well, in better condition than it has been seen before at the exhibitions. W. H. Spooner showed a few specimens of the new variety Spenser, similar to Baroness Rothschild, and said to be an improvement on it.

A number of prominent gardeners from different sections of the State were in attendance on the opening day. R. & J. FARQUHAR & Co. showed some new varieties of plants.

JAMES COMLEY made, as usual, an interesting exhibit of cut flowers, including hybrid roses, carnations, and several of his Japanese introductions. W. A. MANDA, of South Orange, N. J. showed the new improved, golden-leaved variety, two new hybrid Wiganthus roses. —Manda's Triumph and Ross Rambler—and a pair variegated canes, which was pronounced fine.

JACKSON DAWSON showed a fine specimen of Crimson Laurel in full bloom. Several of his specimens were certainly wonderful specimens.

J. F. KILLEN, representing C. H. Johnson, has been present about town for the past few days.

JOHN R. POTERBERG has been in town in the interests of the F. R. Pleson Company.

J. M. VAN ZANTEN, of M. V. Van Zanten & Sons, of Lisse, Holland, is in Boston. W. K. W.

Pittsburg.

The Market. There has been no improvement in trade over that of last week, and not much to expect until the first of the Easter holidays arrive. Stock of cut flowers is very good and quite varied, but the prices are high. Carnations and roses are still quoted at pretty good figures, and the market for these flowers is very changeable.

Here and there. The Elliott greenhouse in Allegheny, Pa., extensive range, has been rented to A. G. SKYRING, the well-known German gardener.

W. HATCH, of Carrick, will shortly join the ranks of benedicts. Several letters in town during the week were from Mrs. M. A. O'Neil, of Akron, O.; Mrs. Shepard, representing the Akron Pottery Co. of Akron, O., and Wm. Hagmann, of Cleveland, O. Dr. Dyer passed through the city on his way West.

A New Cyclamen Pest. The Cyclamen are ranked by most of our growers and the park conservators in both cities. The Phipps conservators in Schenck park generally make a fine and extensive display of these plants, but this season they are causing lots of trouble.

One of the most serious enemies to the common pests of the greenhouses, such as green fly, thrip, etc., but these can be kept under control by proper attention. Good time. This new insect, doing great injury to the blooms, does not work on the leaves, but on the calyx. It is found at the base of the calyx, and can be readily seen under a microscope.

E. C. REINEMAN.

ORANGES BUSINESS.

MARLBOROUGH, MASS.—Mrs. W. H. Stone and Miss Nellie Brown have opened a florists' establishment on Washington street, in the corner of the other building near the florist's business at 113 Whitehall st. In addition to his retail business, he will also do wholesale business.

JACKSONVILLE, ILL.—Joseph Hill, florist, has removed his retail store to 232 West State st., and has added to it a florists' business line of field, garden and flower seeds.

MONTICELLO, ILL.—Arthur Hart and his wife have removed to the business to George Foster. The new firm is Foster & Cheonwith. Mr. Hart re-enters the employ of his father-in-law.

TRENTON, N. J.—The Mercer Floral Company has been incorporated, capital \$100,000. The firm is composed of Anthony R. Kuser, John L. Kuser and Benedict C. Kuser, of Trenton.

VEGETABLE PLANTS.

Nonsepal Flower Pots

of Waterproof Paper, are sold as follows:

Table with columns: Size, Capacity, Price per 100, etc.

Less quantities than full crate at 100 rates.

August Rölker & Sons

New York. P. O. Station E.

STANDARD FLOWER POTS

In any quantity, and of the best quality.

W. H. ERNEST

Station M. N. E., WASHINGTON, D. C.

STANDARD FLOWER POTS.

Table with columns: Size, Price per 100, etc.

AUGUST RÖLKER & SONS, AGENTS

136 & 137 W 24th St., NEW YORK CITY.

STANDARD POTS.

We are now ready to supply a superior quality of Pots in unlimited quantities.

A. H. HEWS & CO., NORTH CAMBRIDGE, - MASS.

Standard Pots

Good Railroad Facilities KELLER BROS.

Special Attention Given to Mail Orders.

PAPER AND TWINE.

Toothpicks. Paper Bags. Waxed and Tissue Papers—all sizes.

H. A. SORL, 147 E. 42d St., NEW YORK.

RAFFIA

Of Best White Quality, Tradeed, Direct from the Factories in Madagascar.

Apply for quotations to ANDRE L. CAUSSE,

105-107 Hudson St., NEW YORK.

LETTICE—Big Boston, Grand Rapids, Boston Maricot and White Leaf, 10c per 100.

CABBAGE—Jenny Wakenfield, Henderson's Succession and Early Summer, 15c per 100.

TOMATO—Extra Early Red, Royal Red, Stenos and Fargo, 15c per 100.

EGG PLANTS—New York Improved, 25c per 100.

PEPPER—Ball Nose, Ruby King, Sweet Mountain and Cayenne, 35c per 100.

WHITE PLUME CELERY, now cheap for 150c and 15c per 100.

Are headquarters for all kinds of Vegetable Plants, if you want them in large quantities send for price list.

Cash with order.

R. VINCENT JR. & SON, White Marsh, Md.

CABBAGE plants, 100,000, ready now.

TOMATO 50,000, ready April 15th.

CAULIFLOWER plants, (Snowball) 100,000, ready April 1st.

Trade Price List of vegetable and other plants in stock.

E. C. HARGADINE, Felton, Delaware.

MRS. THEODOSSIA B. SHEPHERD, Hybridizer and Grower of Navettes, offers the entire stock of some Grand New Hybrids, New Abnuttans, and a New Dwarf Double Fringe Valeriana, \$100 off.

Wholesale and Retail, Ventura by the Sea, California.

10,000 California Privet, one year old, 15c to 20c per bunch, at \$1.50 per 100.

Double Pearl Tuberose Bulbs, 1 1/2 to 4 inches, \$1.00 per 100.

CHAS. BLACK, Hightstown, N. J.

Rooted Cuttings.

CASH PRICES. All transplanted in soil as good as pot-grown plants.

15 1/2 inch Camphel—Strong, 75c per 100.

15 1/2 inch Camphel—Standard, \$1.00 per 100.

15 1/2 inch Camphel—Dwarf, Best Standard Variety, \$1.00 per 100.

15 1/2 inch Camphel—Dwarf, Best Standard Variety, \$1.00 per 100.

15 1/2 inch Camphel—Dwarf, Best Standard Variety, \$1.00 per 100.

15 1/2 inch Camphel—Dwarf, Best Standard Variety, \$1.00 per 100.

15 1/2 inch Camphel—Dwarf, Best Standard Variety, \$1.00 per 100.

15 1/2 inch Camphel—Dwarf, Best Standard Variety, \$1.00 per 100.

15 1/2 inch Camphel—Dwarf, Best Standard Variety, \$1.00 per 100.

15 1/2 inch Camphel—Dwarf, Best Standard Variety, \$1.00 per 100.

15 1/2 inch Camphel—Dwarf, Best Standard Variety, \$1.00 per 100.

15 1/2 inch Camphel—Dwarf, Best Standard Variety, \$1.00 per 100.

15 1/2 inch Camphel—Dwarf, Best Standard Variety, \$1.00 per 100.

15 1/2 inch Camphel—Dwarf, Best Standard Variety, \$1.00 per 100.

15 1/2 inch Camphel—Dwarf, Best Standard Variety, \$1.00 per 100.

15 1/2 inch Camphel—Dwarf, Best Standard Variety, \$1.00 per 100.

15 1/2 inch Camphel—Dwarf, Best Standard Variety, \$1.00 per 100.

15 1/2 inch Camphel—Dwarf, Best Standard Variety, \$1.00 per 100.

15 1/2 inch Camphel—Dwarf, Best Standard Variety, \$1.00 per 100.

15 1/2 inch Camphel—Dwarf, Best Standard Variety, \$1.00 per 100.

15 1/2 inch Camphel—Dwarf, Best Standard Variety, \$1.00 per 100.

15 1/2 inch Camphel—Dwarf, Best Standard Variety, \$1.00 per 100.

15 1/2 inch Camphel—Dwarf, Best Standard Variety, \$1.00 per 100.

15 1/2 inch Camphel—Dwarf, Best Standard Variety, \$1.00 per 100.

Hot-Bed Sash

Temps white-leaded. Corners reinforced with iron angle-iron. Every detail of construction perfect.

Quick Shipments.

We have in stock and can ship immediately:

- 3 ft. x 6 ft., 3 rows 10 in. glass. 4 ft. 3 in. x 6 ft., 4 " 8 in. " 4 ft. x 8 ft., 5 " 8 in. "

Not glazed, 13 1/2 in. thick.

Delivered Prices

Quoted on application. State size and quantity wanted. No order too small to receive careful attention.

LOCKLAND LUMBER CO., Lockland, Ohio.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

HAVE YOUR COLLECTIONS MADE

NATIONAL FLORISTS' BOARD OF TRADE, 271 BROADWAY, NEW YORK.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

CEDAR OIL INSECTICIDE

random seed. Kills Scale, Mealy Bug, Thrip, Spider, Etc.

Our American substitute for Fire Tree Oil is equally good and much cheaper.

August Rölker & Sons, New York, 136 West 24th St., P. O. Station E.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

TOBACCO STEMS

Large Bales 600 lbs., \$1.20 per 100.

Toobacco Dust, 2c per 100.

Raffia, the best material for tying, does not injure the plants; it keeps furthest and is cheapest.

H. G. FAUST & CO., 614-G 10th, Front St., Philadelphia, Pa.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

THE BEST FOR ALL Florists.



WHEN WRITING MENTION THE FLORISTS' EXCHANGE

EVERETT B. CLARK & SONS,

Sole Manufacturers of the GENUINE TOWNSHIP GRAPING WAX.

and Wholesale Growers and Dealers in all other New England Grapes Seeds.

MILFORD, CONN.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Beets & celeriac for each 500 feet of four signs.

THE NEW AND THE OLD

Does not injure the most sensitive plants. Endured for generations.

Quickly Does It.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

THE INDEX to Advertisements in the "Spring Special," April 3,

will be a list of wide-awake business men. You should be on that list.

BEDS.

Now that we have got our muck on, and warm weather is with us, we find watering has to be resorted to.

By not using so much artificial heat, and syringing almost daily, the beds are liable to get overwatered in places; likewise, we may be deceived by the moist look of the muck, for if you dig down a little it is often found the soil is very dry.

This is due to injurious air, if over-watering, but will cause the flowers to come small, with a crooked-neck bud. Examine the beds thoroughly, as careful watering at all seasons is the high road to success.

The weather we have been having lately is very trying, the thermometer some nights reading from 50 to 55 degrees. If a house is closed up early it will stand about eight as far as temperature is concerned, but this is just the condition to cause a soft, watery growth that will give lots of trouble a little later on.

Black spot, mildew and red spider will very quickly put in an appearance. A circulation of air should be maintained at all times, so if your temperature runs too high heat on one pipe around the outside of the house will do the trick.

It is surprising the brightening effect this has on the atmosphere.

We have been using some hose lately where very small-sized glass was used, and lots of wood in the roof, causing a scarcity of strong light, which is so important for us to have if we wish to grow good flowers.

It is very next to impossible to obtain glass of such quality as these on such a variety as Hoist, the Bride, etc. would advise people running such houses not to neglect painting pipes with sulphur and lime, and if held enough to get a very shining film, which is not used as a preservative in mid-day, and used on sulphur. The best way to do this is to get a small brush and dip it in the wash and fill the air with the sulphur; it will then settle very finely over the plants.

Clubbed Soupless is a very useful rose for those who are engaged in the retail business for seed purposes, and is popular during Summer. The longest thorns, when disbanded, give very nice flowers every day for a long time of the season.

It is an easy and quick grower, but as it is only for Summer work, the sooner the young plants are put up, the better.

Always plant one or two benches in a carnation house, and when the house is needed for carnations again, the plants are dug out of the bed with as much soil as possible left on them, and heeled-in a bench out-of-doors.

The variety is very hardy, but should use a little spray manure basket on during Winter. As soon as the frost is out of the ground, get them up, and set out three or four, put into as small sized pots as possible, and set in a good light.

When they very quickly make strong plants for planting out. These old plants will do much better in the soil than the young stock, but the latter gives longer stems. I may add they are very easily propagated in a hotbed in July and August, and make the flowering plants in 4 inch pots, for Spring sales, selling readily at all seasons.

When placed out the house they should be treated the same as our other roses; but where they commence to show the glass should be kept to hand, and not quite so much air given, which will induce a very delicate color. H. H.

New Hotbed Mat.

The R. T. Palmer Co., 113 Worth St., New York, are introducing a new hotbed mat. It is covered with harpels, filled with much screened rubble.

The standard sizes are 65 feet and 3x6 feet, but it can be made to any length desired. These have been found to be quite satisfactory in warm mats; they are pliable and easy to handle; are very warm, and have the advantage of being much cheaper than the former.

THE INDEX to Advertisements in the "Spring Special," April 3,

will be a list of wide-awake business men. You should be on that list.



Sweet Peas for Florists.

As a result (probably) of my letter to your issue of March 13, regarding sweet peas, I have been asked by a number of florists, my opinion as to the most desirable sorts of sweet peas for the florist who grows cut flowers, and who does not desire to grow more than is necessary.

For the benefit of these gentlemen and others who may be interested, I give below the best twelve varieties for cut flowers for the florist, based on the character of the flower and the information gained from florists who have made a specialty of growing sweet peas.

First we have the white, as they sell fifty per cent. better than any other. For florists to use Embl. and others of this class should be planted very early, to be followed by Blanche Burpee, which is the best of the white, as well as the largest and most prolific.

The next in order as a seller is the pink and white, of which Blanche Perry is the present the best specimen, although a better one is on the way. The seed of this is the best white, as well as the largest and most prolific.

Of the self-pinks, Lovely is the finest, and we create a color when it becomes known, being a late novelty. It is large, bears many flowers, and has excellent, long stems.

For a deep rose, I think for the florist one will be found superior to any other color for the last and can be held on the vines longer than any other of its color, which is a great advantage to the florist in many cases.

For a red, there is none that can match Boston Brilliant, and one which is not so sweet, as the good points yet developed in all the sweet peas, but will sun-black in hot weather. A line of these and others will not be produced, and I prophesy that this will sell alongside the whites when they are known.

Mars is also a good red, but one that class red is all the cut flower grower will care to have.

In the shades of mauve, Burpee's New Cousins, a selection from the Cousins of Burpee with the finest color of any I have as far in the lead, and is destined to become a good seller. It should be bunched alone. For a dark mauve, I can recommend Dorothy Tennant, although it will not sell alongside of the Cousins, as it is a little heavier, and the latter casts it in the shade, but where this shade is desired, it is found to be the best of the dark ones. It is very lasting on the vine, and keeps well in the vase.

For a florist who will desire a varied assortment, which is Aurora, introduced this year; it leads all in its class, from every angle of view. It is a beautiful variety, many fairs, and is flaked and striped on a wide ground with intense orange-salmon. It is the finest of all, and best adapted for mailing, as its brilliant color carries it well. It also goes well with white or dark colors, and will catch the eye of every flower lover who likes brilliancy of color.

Of the dark varieties, I think the Forenoon will sell best, as it is larger and of better substance than the Stanley, which is so trying to the eye when massed, while the former masses well.

For delicate effects in the line of decorations, Ramona in pink and Juncata in white will give the best opportunity, while Maid of Honor will mass well as a binged variety, giving a delicate effect.

Some growers are very apt to mass all of them—but are all good sellers, the latter not having yet arrived when the florist can sell the latter varieties. I have been asked my opinion as to the reason why so hard to get in the market are these sweet peas in some localities, to which I reply that the people are becoming educated in the matter, and are doing the work of the experts, as shown in the many sweet pea shows, has demonstrated that the high bred, as it is called, by those who have seen these will not purchase the poorly grown stock which is generally to be had. When they get into the market sweet peas such as the specialist grows, people will buy them. You cannot sell massily roses, neither can you sell many of the poverty-stricken sweet peas offered to the flower buying public. The trouble is with the florist, and not with the public. I know I could market my peas to good advantage, having been asked to sell a dozen of the crop last year. (Get good seed, give expert culture, and to your stock, and you will have a man, and you will sell it.)

Some statistics as to what a row of sweet peas will produce, and the best to grow in interest. By planting them three inches apart in the row, and two rows in the row, we get one bush to the foot. These eight plants when skillfully grown will produce thirty five sprays each, on an average, making 340 cut sprays, average-

GHRYSANTHEMUMS.

Boek's, Fisher & Eka's, Hill's, Ma's, Smith's and Spaulding's leading varieties of trade price per line stock per doz. 400. Choice Clara (Toussain), 60/100 of the new variety, Pink Ivory (Roth Hill), 60/100, Sweet Vin (Simmons), 60/100. All standard commercial varieties in quantity.

CUTTINGS.

Flora Hill, Emma Weaver, Lily Dear, Maid Dear, Meyer King, Morella, M. de Chas. 11, Dublin. One line stock per doz. 400. Choice Clara (Toussain), 60/100 Alaska, sturdy cuttings from soil, \$1.00 per 100.

10,000 Wm. Scott, sturdy cuttings from soil. FARGUHAM VIOLETS, from 21/2 p. pots, \$3.00 per 100. Choice 2/2 p. pots.

THEO. F. BECKETT, NEWLY ISLAND, GLENFIELD, PA. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

ing three flowers to a spray, or 720 separate flowers to the foot! This is a conservative estimate, as many specialists will run much over it.

SAM. A. HAMILTON, Sweet Pea Expert.

PLANTS AND FLOWERS.

A WHITE SEEDLING CARNATION—I send you three flowers of a second year's seedling carnation, a cross between Daybreak and a pink APRIL PRINCE.

Send me a seedling of Silver Spray, crossed with Scott. The flowers were grown for the purpose of testing the effect of care and treatment, along with other kinds.

CONN. M. E. KRAUS, A large well-built flower, full to the center, with a firm, clay and strong stem; the petals have lots of substance, and are nicely serrated. It looks a promising carnation.—Ed.]

CARNATION AND COLEUS CUTTINGS. Strong, well-rooted cuttings of the following variety, \$1.00 per 100: Alaska, Rose Queen, Storm King, 2/2 p. pots, \$1.00 per 100. Lizzie Gilbert, Meteor and Daybreak \$1.00 per 100. Celestina, 2/2 p. pots, \$2.00 per 100. Golden Emblem, 2/2 p. pots, \$2.00 per 100. Golden Breeze, \$1.00 per 100. Cash or satisfactory reference.

GEO. M. EWANES, Newton, N. J. HEALTHY STRONG NETWORK THE FLORISTS' EXCHANGE.

Healthy Carnation Cuttings. COOL GROWN, NO RUST. J. H. WEBER & SONS, P. O. Box 57, OAKLAND, Md. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

NEW MEADOW GARDENS, W. S. NICHOL, Fort Harrison Centre, K. I. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

ROOTED CARNATION CUTTINGS. Scott and Portia, \$1.25 per 100; \$10.00 per 1000. Daybreak, \$1.50 per 100; \$12.00 per 1000.

Lizzie McGowan, \$1.00 per 100; \$8.00 per 1000. THE BOO! FLORAL CO., Ithaca, N. Y. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

ELDORADO The finest Yellow Carnation in cultivation. Rooted cuttings, \$2.00 per 100; \$15.00 per 1000.

LADY CAMPBELL VIOLETS.—Rooted runners, \$1.00 per 100; \$5.00 per 1000. GIANT DOUBLE ALYSSUM.—\$1.00 per 100; \$3.00 per 1000. Send for Circular.

W. R. SHELMEYER, Avondale, Pa. SPRING STOCK SPECIAL. Choice 2/2 p. pots, \$3.00 per 100. Choice 2/2 p. pots, \$3.00 per 100. Choice 2/2 p. pots, \$3.00 per 100. Choice 2/2 p. pots, \$3.00 per 100. Choice 2/2 p. pots, \$3.00 per 100.

VERBENAS.—ROOTED CUTTINGS and seedlings, \$1.00 per 100. Choice 2/2 p. pots, \$3.00 per 100. Choice 2/2 p. pots, \$3.00 per 100. Choice 2/2 p. pots, \$3.00 per 100. Choice 2/2 p. pots, \$3.00 per 100.

50,000 SMILAX, \$1.00 per 100. Choice 2/2 p. pots, \$3.00 per 100. Choice 2/2 p. pots, \$3.00 per 100. Choice 2/2 p. pots, \$3.00 per 100. Choice 2/2 p. pots, \$3.00 per 100.

50,000 SMILAX, \$1.00 per 100. Choice 2/2 p. pots, \$3.00 per 100. Choice 2/2 p. pots, \$3.00 per 100. Choice 2/2 p. pots, \$3.00 per 100. Choice 2/2 p. pots, \$3.00 per 100.

50,000 SMILAX, \$1.00 per 100. Choice 2/2 p. pots, \$3.00 per 100. Choice 2/2 p. pots, \$3.00 per 100. Choice 2/2 p. pots, \$3.00 per 100. Choice 2/2 p. pots, \$3.00 per 100.

50,000 SMILAX, \$1.00 per 100. Choice 2/2 p. pots, \$3.00 per 100. Choice 2/2 p. pots, \$3.00 per 100. Choice 2/2 p. pots, \$3.00 per 100. Choice 2/2 p. pots, \$3.00 per 100.

50,000 SMILAX, \$1.00 per 100. Choice 2/2 p. pots, \$3.00 per 100. Choice 2/2 p. pots, \$3.00 per 100. Choice 2/2 p. pots, \$3.00 per 100. Choice 2/2 p. pots, \$3.00 per 100.

50,000 SMILAX, \$1.00 per 100. Choice 2/2 p. pots, \$3.00 per 100. Choice 2/2 p. pots, \$3.00 per 100. Choice 2/2 p. pots, \$3.00 per 100. Choice 2/2 p. pots, \$3.00 per 100.

50,000 SMILAX, \$1.00 per 100. Choice 2/2 p. pots, \$3.00 per 100. Choice 2/2 p. pots, \$3.00 per 100. Choice 2/2 p. pots, \$3.00 per 100. Choice 2/2 p. pots, \$3.00 per 100.

50,000 SMILAX, \$1.00 per 100. Choice 2/2 p. pots, \$3.00 per 100. Choice 2/2 p. pots, \$3.00 per 100. Choice 2/2 p. pots, \$3.00 per 100. Choice 2/2 p. pots, \$3.00 per 100.

50,000 SMILAX, \$1.00 per 100. Choice 2/2 p. pots, \$3.00 per 100. Choice 2/2 p. pots, \$3.00 per 100. Choice 2/2 p. pots, \$3.00 per 100. Choice 2/2 p. pots, \$3.00 per 100.

FAMOUS CARNATION DELIA A FOX!

MYERS & SANTIAM, Wyndmoor, Chestnut Hill, Phila. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

BALMORE CARNATIONS

Another New Pink Carnation. Color of Craig, large, firm, - good for forcing. Ready January 25. Rooted Cuttings, \$1.50 per doz.; \$10.00 per 100.

CONRAD HESS, 329 Friendship Ave., BALTIMORE, Md. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

The New Scarlet Carnation

will be disseminated March 1, 1897. Get your orders in now. \$1.00 per 12; \$10.00 per 100, \$7.00 per 1000.

HOPP & LENOX, Ensl Grand American Institute Carnation Show, March 8th.

Received a special cultural certificate for blooms exhibited at Farmers' Club American Institute Carnation Show, March 8th.

Cuttings for this prize stock, \$3.00 per 100; \$25.00 per 1000.

MEADOW VIEW GREENHOUSES, FAIRFAX, Va. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

CARNATIONS Daybreak, Scott, Tidal

cuttings for this prize stock, \$3.00 per 100; \$25.00 per 1000. Choice 2/2 p. pots, \$3.00 per 100. Choice 2/2 p. pots, \$3.00 per 100. Choice 2/2 p. pots, \$3.00 per 100.

JOSEPH RENARD, Unionville, Chester Pa. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

Discontinued

JOHN HACKETT & CO., 324 New Elmwood Ave. PHILA. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

Novelties of Malmalson Carnation.

Self color, 3 to 4 inches across, very fragrant. \$1.00 per 100; \$10.00 per 1000. Choice 2/2 p. pots, \$3.00 per 100. Choice 2/2 p. pots, \$3.00 per 100. Choice 2/2 p. pots, \$3.00 per 100.

ALBERT KNAPPER, Frankford, Phila. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

Hard Times Are Going! Good Times Are Coming!

25,000 Sold, 25,000 Standing for Sale. \$1.00 per 100; \$10.00 per 1000. Choice 2/2 p. pots, \$3.00 per 100. Choice 2/2 p. pots, \$3.00 per 100. Choice 2/2 p. pots, \$3.00 per 100.

ALBERT KNAPPER, Frankford, Phila. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

Hard Times Are Going! Good Times Are Coming!

25,000 Sold, 25,000 Standing for Sale. \$1.00 per 100; \$10.00 per 1000. Choice 2/2 p. pots, \$3.00 per 100. Choice 2/2 p. pots, \$3.00 per 100. Choice 2/2 p. pots, \$3.00 per 100.

ALBERT KNAPPER, Frankford, Phila. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

Hard Times Are Going! Good Times Are Coming!

25,000 Sold, 25,000 Standing for Sale. \$1.00 per 100; \$10.00 per 1000. Choice 2/2 p. pots, \$3.00 per 100. Choice 2/2 p. pots, \$3.00 per 100. Choice 2/2 p. pots, \$3.00 per 100.

ALBERT KNAPPER, Frankford, Phila. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

Hard Times Are Going! Good Times Are Coming!

25,000 Sold, 25,000 Standing for Sale. \$1.00 per 100; \$10.00 per 1000. Choice 2/2 p. pots, \$3.00 per 100. Choice 2/2 p. pots, \$3.00 per 100. Choice 2/2 p. pots, \$3.00 per 100.

ALBERT KNAPPER, Frankford, Phila. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

ALBERT KNAPPER, Frankford, Phila. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

# LOOK HERE. Carnation Cuttings

From healthy and well-grown stock

Willis Scott, McGowan, Portia, \$1.25 per 100; \$10 per 1000.

Della Fay, Webb, Mrs. Fisher, Alaska, Albertini, Tidal Wave, Storm King, Boston, Dr. Bridesmaid, Emily Pearson, \$1.00 per 100; \$10 per 1000.

Della Fay, Gold Finch, \$4 per 100.

Fellow's New Red. Flower twice the size of Portia, same color and fine shape, \$5.00 per 100. Order of 500 cuttings filled at 100 rates, not less than 100 of a kind. Cash with order.

**JAMES E. BEACK,**  
Successor to J. H. Beach & Son,  
617 Park Ave., Bridgeport, Conn.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# GOOD TIMES

will come if you grow good carnations. Your customers want the best flowers, and we can sell you the best varieties to produce them.

Per 100 Per 1000

Marelo, new scarlet, extra fine..... \$1.00 \$75.00

Floer Hill, white, large and free..... 12.00 100.00

Mrs. Murray, light pink, large..... 15.00 100.00

Harrison's White, Spout from Seattle, 10 00

Mrs. Piogree, yellow, large, free..... 10.00 75.00

Mrs. Duham, clear pink, free, early..... 10.00 75.00

Mrs. Brad, white, marked scarlet..... 10.00 75.00

C. A. Dana, shell pink, fine..... 12.00 75.00

Lily Dean, white, marked pink..... 10.00 75.00

Maud Dean, white, bush center..... 10.00 75.00

Ivory, very productive, white..... 2.00 25.00

Della Fay, beautiful pink..... 4.00 25.00

Jubilee, large, scarlet..... 6.00 50.00

Also large stock of standard varieties. Send for complete list.

**GEO. HANCOCK & SON, Grand Haven, Mich.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# NEW SCARLET ROBIN HOOD

(REIL.)

We have grown Robin Hood two winters. It gave us 44 blooms to the plant. It is the most rapid growing Carnation to date; full crop at 4 weeks 3 inch bloom; the coming light scarlet Carnation. Try a few plants, it does well for us, why not for you. Order of 500 strong healthy cuttings at \$3.00 per 100 only, (prepaid). Cash with order.

**MORRIS FLORAL CO.**  
Morris, Illinois,  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# HERR'S CARNATIONS.

**YOU RUN NO RISK.**

If the Cuttings are not satisfactory, you return them at my expense. Unlimited quantities at reasonable prices.

Varities.—McGowan, Alaska, Ivory, Harrison's White, Scott, Daybreak, Abundance, Triumph, Brakesmaid, Della Fay, Victor, Emma Wocher, Portia, Fred Dornor, Carlisle, Wava, Ida Fay, Meteor, Rose Queen, Eldorado, Keller and Armazidy.

Pansies. Smilax. Violets.

**ALBERT M. HERR, L. B. 496, Lancaster, Pa.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# 50,000 CARNATIONS

**ROOTED CUTTINGS, FLAT GROWN.**

L. McGowan, Eldorado, Wm. Scott, Portia, Daybreak, Silver Spout, Alaska, J. J. Harrison, Della Fay, Meteor, Rose Queen, \$1.00 per 100; \$12.00 per 1000.

**MARIE LOUISE.**

10,000 cuttings, \$1.00 per 100; \$12.00 per 1000. Cash with order.

**HENRY A. NIEMEYER, Erie, Pa.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

RESTLESS THE SLEEPLER

FLORIST OF PITTSBURGH, PA. GROWS & SELLS CARNATIONS THAT PAY.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# SEEDLING CARNATIONS FOR 1897.

**CAPT. KING.** Variegated White and Pink, an early and continuous bloomer, very fragrant and a good shipper, shows extra fine and clear, an exceedingly attractive and profitable variety.

**JOSEPH JEFFERSON.** Deep Pink, very large and showy flowers, on long, stiff stems, color resembling "The Carnation," much larger flower.

Send For Wholesale List of New and Standard Carnations, Stock Strong and Healthy, NO RUST.

**C. J. PENNOCK, The Pines, KENNETT SQUARE, PA.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# THE CARNATION NOVELTIES, MAYOR PINGREE AND MORELLO

Other new sorts, also noted introductions, and well-known standards. Our Fine New Illustrated Catalogue Now Ready. FREE.

# DAN'L B. LONG, BUFFALO N. Y.

Jobbing Florist and Growers' Agent,  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Harrison's White.**

NEW CARNATION, SPORT FROM WM. SCOTT.

40,000 SOLE UP-TO-DATE.

All leading Carnationists are purchasers.

Strong, vigorous grower, requiring no support.

Described and illustrated in Florists Exchange, Nov. 21, page 1044.

COME AND SEE IT.

Price: \$10.00 per 100, \$40.00 per 500, \$70.00 per 1000

Cash or satisfactory reference. All orders filled in factory.

**JOHN HARRISON,** Near Bidwell Ave., Greenville, JERSEY CITY, N. J.

Take Bayonne or Greenville Car from Pennsylvania E. R. Parrot set off at Bidwell Ave.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# NEW YELLOW CARNATION MAYOR PINGREE

BESTGER BROS., Canal Dover, O.

**MR. FRED BREITMEYER, MT. CLEMENS, MICH.**

Dear Sir,—Regarding the Mayor Pingree Carnation, I have traveled extensively the few years past and have viewed nearly all the new varieties introduced in their original habitat, but none have pleased me so well as M. P. as to growth, freedom of bloom, if fact nearly every essential factor that goes towards making the perfect carnation. I have crossed it with many other kinds and for crossing it seems admirable. We have some seedlings that doubtless will give us something very fine, if vigorous growth is any criterion upon which we may pin our hopes, etc.

Any one who does not secure some plants of it will make a mistake, doubly so to those who are in the fascinating part of plant breeding. Thanking you for the plants you sent, etc.

**THE CORNELL UNIVERSITY, College of Agriculture, L. H. BAILEY, Prof. of Horticulture, ITHACA, N. Y.**

**MR. FRED BREITMEYER, DETROIT, MICH.**

My Dear Sir—I am greatly obliged for the photograph of the Carnations, which is very good. We are growing a picked lot of Carnations this year and we have a pretty good shape considering that this is one of the dullest climates in the North. Of all the varieties which we have, the Pingree has attracted the most attention. It is the best yellow which we have ever grown, and if it holds up everywhere as it has with us, it seems to me that it is a coming variety. The flowers are good shape, long keepers; the plant is exceedingly strong, and the stems are long enough and strong enough to satisfy John Thurpe's idea of a typical flower.

Yours very truly,  
**L. H. BAILEY,**

**P. S.**—As a pot-plant I know of nothing that has the stamina of Pingree.

Ready Now. \$1.50 Per Doz.; \$10 Per 100; \$75 Per 1000.

—FOR SALE BY—  
**JOHN BREITMEYER & SONS, THE COTTAGE GARDENS,**  
Miami and Gratiot Aves., DETROIT, MICH. QUEENS, L. I.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# Every Tom, Dick and Harry

raises red, white and pink Carnations consequently you will meet with much competition if you do not the same.

Raise something else; for instance,

# YELLOW and VARIETATED VARIETIES.

They are Money Makers.

Minnie Cook, Rooted Cuttings, \$2.00 per 100; \$15.00 per 1000.

Kitty Glover, From Soil, \$3.00 per 100; \$25.00 per 1000.

Salute, \$3.00 per 100; \$25.00 per 1000.

Flowers Honnie, rooted cuttings \$5.00 per 100; \$40.00 per 1000. From soil, \$6.00 per 100; \$50.00 per 1000.

**GRALLERT & CO. COLMA, SAN MATEO CO., CAL. NO RUST.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# FIFTY THOUSAND

Rooted cuttings of the new Seedling Carnation, originated by Mr. H. A. Cook, of Shrewsbury, Mass., grown by the subscriber, and now being put upon the market as—

# ...NIVEA...

Cuttings now ready and free from rust. \$1.00 per 100; \$35.00 per 500; \$60.00 per 1000.

**DAYBREAK, SCOTT, STORM KING, PURITAN, METEOR, GOLDFINCH, HECTOR, ALBERTINI,** and others, \$1.25 per 100; \$10.00 per 1000.

**A. W. HOYLE, Spencer, Mass.**  
And 511 Wiltghinton St., Sta. O. DORCHESTER, MASS.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# CARNATIONS

All the leading new varieties; good clean, well rooted stock.

Mrs. Chas. H. Duham, delicate pink..... 100 1000 \$75

Mrs. Geo. M. Bradt, white, striped scarlet..... 10 75

C. A. Dana, shell pink..... 10 75

Flora Hill, white..... 12 100

Mrs. McBurney, salmon pink..... 12 100

Mayor Pingree, yellow..... 10 75

Morello, scarlet..... 10 75

Maud Dean, bluish..... 10 75

Lily Dean, white, striped pink..... 10 75

Harrison's White, white..... 10 75

If not already received send for our price list, which contains all the leading standard varieties at moderate prices.

**F. DORNER & SONS GO., La Fayette, Ind.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# ROOTED CUTTINGS. CARNATIONS.

Mrs. Chas. Duham (Dorner '92).

Mrs. Geo. M. Bradt (Dorner '93).

\$1.50 per doz.; \$10 per 100; \$75 per 1000.

Lily Dean (May), \$2.00 per doz.; \$10 per 100; \$75 per 1000.

Per 100 Per 1000

Wm. Scott..... 1.00 7.50

Lizzie McGowan..... 1.00 8.00

Daybreak & Storm King..... 1.50 12.50

Portia & T. Wave..... 1.10 10.00

Mrs. Fisher..... .25 11.00

Meteor..... All sold.

Eldorado..... 2.00

Alaska & Anna Webb..... 1.50 12.50

Thos. Carlisle..... 1.50 12.50

**EDW. J. TAYLOR,** Wholesale Carnation Grower, Cash or Reference, 515 Broadway, N. Y. CITY.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## Buffalo.

## Market News.

Last week a miscellaneous call for flowers and plants, and shops and buyers, augmented business to a favorable extent, and helped to clean up all desirable stock in outdoor and indoor plants for the week. This week several store openings have also helped somewhat, J. H. Hebotock has a good display of plants on hand on Monday and Tuesday, while most of the cycle stores are still in for display.

It will be continued to be plentiful for all ordinary demands, occasionally showing a surplus in kinds. Prices have a low tendency, and the weather has prevailed to materially improve plant growing conditions, and the prospects are bright for the supply with the ready and good variety for Ester.

J. G. Pickelmann, of French st., shows his usually nice lot of L. longiflorum of low growth, fine character, apparently budded just right. Keitch & Son have almost a house full of cinerarias of good growth as regards flowers and foliage.

W. A. Anderson in the unexpected death of his sister Lillian, a most estimable young lady of 23 years, has been serving in the position of lookkeeper in her brother's store for a number of years, was well liked and whose death was very much missed. The funeral occurred on Sunday last.

PHILIP BREITMEYER, of Detroit, Mich., paid us a pleasant visit on Friday of last week.

## Annual Club Meeting and Election.

As given out, this was held on Friday, March 12, at 8 o'clock, on Washington st. A lack in numbers was probably made up by the active interest of those present. At the afternoon high weather had arranged in Parlor A a second display this season of the new varieties of carnations which attracted much attention.

Exhibits included: From L. A. Galliamus, Syracuse, N. Y., a new seedling red of fine character for commercial use, but two crimson, rather weak stem, but full flowered. From R. Witterstaetter, Sedalaville, Ohio, a new white, very fine, full flowered, and his new white Evelina, which looked nice.

From E. Eric, Pa., sent a new seedling called Lizzie Tong, of the Helen Keller type. Though not quite so large, it is a favorable for productiveness.

John Burton's white seedling was very attractive for its purity.

E. G. Hill & Co., Richmond, Ind., showed Mrs. McBurney, Triumph, Flora Hill, and Jubilee. The latter, no doubt, attracted foremost attention during the display.

Breitmeyer & Sons, Detroit, Mich., sent a fine bunch of Maya Pingree.

Hopp & Lemke, Grand Rapids, Mich., sent a new red Maya.

T. A. Webb, of Corfu, N. Y., showed a red seedling that held its head up well, which he has had on his premises several years, but is not yet stocked up over. A new carnation, Ontario, showed the appearance of free flowering qualities, but inferior to the best. It has three pink seedlings, similar to the above, but shade, also an unusually large one a shade of red. From H. H. H. sent new roses. White Bougere, attracted considerable attention, and looks very similar to the old one. In looking at the new varieties, while a vase of Bride, Bridemaid and Mergot, showed the continued good quality of size of the flowers grow across the border.

John N. May, Summit, N. J., sent Lily Belle, and Mand. The latter, which they looked well, but the latter apparently suffered on route, as it went to sleep quickly. Mr. May also carried a new variety of carnation roses, which surely showed that to be a flower of the finest character.

At the Club meeting in the evening the report of attendance was 10. The subject of the meeting was the report of the journal subject to the call of the president, which means that, in effect, a general report on regular meetings has been taken.

After the meeting proper, the Club adjourned to the banquet rooms, where just as was done to a well arranged menu furnished by Ashley & Garvin. President Anderson, in the position of toastmaster, made Mr. May and the meeting very responsive from the following: The topic of Grower, Wholesale and Retailer, received

due attention from Chas. H. Keitch; Novelties, Dan B. Long; Violets, from the Grower, Sandpools were duly dilated upon by R. H. C. Bard, of Syracuse, and quotations of flowers and plants of growers now known all the way to J. H. Dunlop, of Toronto, favored us with a detailed response to "Nicheity in Carnations." W. A. Adams was, as usual, called upon for a toast to the ladies. Needs to be held the subject graciously discussed. Wm. Legz responded to the Secretary. H. J. Wise gave a nice dissertation on the value of the Florist's Exchange, was taken care of by Philip Scott, and the position of the Commission Man was duly defended by W. F. Kastig.

Inter-spersed between the speeches the Club was pleasantly entertained by some musical talent, which included vocal solos by Messrs. Numan and Wasmert, and string music by a quartette of various instruments.

The out-of-town visitors included Thos. Mansfield and F. B. Lewis, of Lockport, N. Y.; H. J. Wise, East Aurora; John H. Dunlop, Toronto, Ont.; R. H. C. Bard, Syracuse, N. Y.

J. P. Cowell, recently returned from an extended trip East, having visited New York, Philadelphia, and Boston.

Recent visitors included Daniel Keller, of Reed & Keller, New York; C. O. Umsted, representing K. J. Knyk, of Holland.

Vini.

## Baltimore.

## The Market.

Lent has not brought the glut of flowers of past years. Cool stock is selling well. Violets are nearly done with; some growers are trying to keep the flowers on the plants for Ester, boards and white wash being used to shade the glass; but this warm spell continues, I am afraid there will be very few violets about on Easter day.

## Carnation Meeting.

A large attendance was present at last Club meeting. We had a grand display, but our own breeders did not bring much stock. J. Breitmeyer & Sons, of Detroit, Mich., sent Mayor Pingree, which showed recent culture. They were greatly admired, and it was a pity the quality was somewhat impaired by their three day long journey. The stem of this variety is something remarkable.

Burton's white seedling is very fine, stem extra, flowers not over large.

vase that Mr. Burton sent was very much admired.

Baltimore, Mr. Hess's new seedling, a good solid pink, was fine, but it lacks in quantity. Mr. Hess is not in an accession of cuttings, and in the hands of our expert growers, it would no doubt prove a valuable variety.

H. Weber & Sons shipped some very fine standard varieties. P. Erdman and W. H. H. Brod have been present with extra good stock. Emily Pierson, shown by Mr. Erdman, was good; he recommends the variety for its fine blooming quality. Albertini, staged by Woodfall Bros, was immense. This firm had also a vase of different varieties, which showed up well. This was also the case with Fisher & Ekas, Lehr Bros, and Mr. Kipp exhibited some good flowers.

A grand exhibit was that of John Cook's new rose, Mrs. Robert Garrett. This is really a beautiful production, a very pleasing shade of pink, nearly the color of Souv. d'un Ami, large, with very thorny stems. It should be a very prolific bloomer. This variety received a certificate of merit from the local Novelty committee.

Mr. Cook's white sport of Maman Cochet was not shown at its best. No doubt this will make a good bedding variety.

The violets exhibited by Mr. Richmond and Lehr Brothers were very fine. Mr. H. H. Brod exhibited a very fine Ruby King, is a good thing, similar to General Grant in color, but of a very stocky growth. It received the local committee's certificate of merit.

The best treat we had had this season was the display of the "Water and Fountains of the Caration," by Mr. Peber, Jr. of Oakland, Md. Upon being asked in regard to the length of stem, he was under the impression that plenty of ventilation will produce a good, strong stem. He is right, the application of salt water as being beneficial.

John Donn told of carnation plants growing 4 feet high in some of the islands in the English Channel.

Mr. Von Donhoff spoke on bulb-growing in Holland. He said, after careful examination, he had found no place in this country where bulbs are grown successfully. In view of this fact, he considered it inadvisable to place a tariff on Dutch bulbs.

## G. N. BENEDICT.

...FLORIST...

\* Palms and Ferns of Extra Quality Always on Hand.

Concord, Ch. H., Feb. 11th, 1897

Mr. H. A. Stoothoff,

Dear Sir:

I am glad I can endorse Tobac-Oil. What I say is absolute fact, not fancy. My houses contain ferns and common bedding stock, callas, palms in fine variety, orchids in bud bloom, etc. To brother florists desirous of a safe article for destruction of Aphid I say: Use Tobac Oil. I find it safe and clean, doing the work thoroughly. I have used it where tender ferns and delicate flowered orchids were in bloom and they showed no ill effects. It can be vaporized, and hardly any odor is noted when house is filled with vapor, which permeates the air in a very few moments; customers could come in any time during the vaporizing process and I do not think they could notice any objectionable odor. The work done by it is truly magical. I am glad to recommend it. I apply it by placing the required quantity of Tobac-Oil (diluted) in an iron stone kettle, removing the griddle from my coil heating boiler and inserting the kettle; soon the Tobac-Oil is to a boiling pitch and the vaporizing done. Respectfully yours,

G. N. Benedict

Notes. One of our well-known florists lately received a communication from Hamburg, appointing him a judge at the contest on the subject of the language of the language, threw the document into the basket, with the remark, "Another of those 'what-ifs' and 'what-alogs.'" "Where ignorance is bliss," etc.

Bulbous stock will be difficult to keep back for Easter trade.

EDWIN A. SHLEWITZ.

## Cincinnati, O.

Business during the past week was extremely low. Carnations were the only flowers that sold. We predict that the demand at Easter will be good, as usual, but the quantity of stock with which the growers? Appearances indicate that it will be scarce, but it is yet a little early to say much about the matter. The market Saturday was only fair, prices ruling very low. Violets by the thousand were for sale at 5c. and 10c. per bunch of 10 or 15.

Death of J. C. Cook.

Joseph S. Cook, one of the pioneer florists of Hamilton Co., died at his late residence on Walnut Hill, Thursday, March 18. He was originally a citizen of New York, and came to this State in 1840. He arrived in this city in the year of 1840. In 1848 he engaged in the florist business, and since that time he has been very successful and built up a considerable establishment. Mr. Cook was thirty-two years old, and leaves a widow and five children.

Here and There.

AUGUST HOFFMEYER, a few weeks ago, broke his thumb, and Saturday last stepped on a rusty iron rod, the sharp end of which passed between his shoe and his foot.

MISS CARRIE HOFFMEYER is just recovering from a severe skull spell.

WALTER H. BAYLER was severely injured in a recent railway accident, is unable to be at his office.

WALTER H. BAYLER, of Charleston, W. Va., says: "My damage from the recent high wind will amount to about \$200, and I am not contented." Nearly all the boys in this city who suffered from the high winds are getting from their stock another sign for the start.

E. G. GILLET.

Those who were at the carnation meeting and visited the place of A. Sunderbruch's Sons, at the sale of a large lot of carnation Day-buds, which, for growth and color, rival the finest. The shade of color is a beautiful "candy." Plants very healthy, caused no doubt by the quantity of lime mixed with soil, and careful watering. Overhead syringing is done on very bright days.

The vagaries of Lilium Harrison are illustrated in the following: A number of plants, ranging from 5 to 6 feet in height, and carrying from eleven to thirteen buds each, bulbs—very large, and showing an early stage disease developed, as with scarcely an exception it has done in other cases, but instead of showing the characteristic sickly plants, they were thrown out early, and the balance seems to have benefited by the absence of the disease. Plants very healthy, considering the smoky surroundings. This place, as with other large establishments, is a very fine one, and is situated on a hillside.

J. A. PETERSEN obtained a number of florists who ran out to see his now famous carnation, Outcast. Mr. Petersen has been notified of the intention of his fellow countryman, Dr. Hansen, the celebrated explorer, to visit him at an early date, possibly in the month of March. He will be a gala one and mutually delightful.

Mrs. H. L. Sunderbruch will, by the arrangement of the late H. H. H. Fadden place on April 15 next. It is reported Mr. McFadden, Jr., will run on to the other end of the line, the extension conducted of late. The commission house will be run separately by the same parties as before, and associated with the late H. L. Sunderbruch.

W. C. Nolan is making preparations for a big spring business.

Akron, O. W. M.

W. A. HELFER is the latest addition to the craft here. He erected, last summer, about 10,000 feet of glass, and has met with such success, as to cause a large enlargement of the plant during the ensuing Summer. The handsome Hoffman wagon exhibited at the fair, and purchased by Mr. Heller, and has been put to good use by ALMOND & SON report a good season.

W. M.

CHEAP PALMS!

Table listing various palm species such as Areca Lutescens, Cordyline Australis, and Latania Borbonica with their respective prices per inch and per foot.

Send for list of other varieties and prices. W. J. NESSEL, gardener, Plattsmouth, Neb.

FERNS

Varieties Suitable for Fern Dishes, etc. ADIANTEM CUNEATUM, 3 inch, \$5.00 per doz. Cash with Order.

CHAS. F. BAKER, Utica, N. Y.

EASTER PLANTS.

Hydrangeas, Lilies, Kentias, Arecas, Latanias, Dracaenas.

Also the BOSTON FERN (N. Exaltata Bostoniensis) at \$1.00 to \$2.00 per doz.

WM. A. BOCK, North Cambridge, Mass.

"TOP OF THE POT"

Both in Size and Quality. The following "Specialties" now ready:

Table listing various plants like Orange Fragrans, Olives, Ficus Elastica, Biota Aurea Mana, and Latania Borbonica with prices.

Packing at cost. Above rates do not apply to less than 50 of any sort.

P. J. BERKMAN, Augusta, Ga.

Large table listing various plants including ABRUATUM, ACHYRANTHES, BEGONIA, CANNAS, CHEYBANTHEM, COLLETTIA, ECHVEFERIA, FUGLIEA, GERANIUMS, HELIOTROPE, MUSA ENSETTE, and SWAINSONA with prices.

ROOTED CUTTINGS.

Trade List Free on Application. CASH with order from unknown customers or C. O. D.

SEAWANNA GREENHOUSES, Oyster Bay, Queens Co., N. Y.

AUSTRALIA

GREEN PLANTS READY NOW \$20.00 per 100. CHAS. H. ALLEN, Floral Park, N. Y.

BETSCHER BROS. OFFER

Very Fine Geraniums, 2-inch, per 100, \$1.00. Very Fine Begonias, 2-inch, per 100, \$1.00.

Galax Leaves.

CHAS. H. RICKSECKER, Linville, N. C.

FERNS. SPECIAL OFFER.

Strong plants in nice condition for immediate use. Six varieties.

JOHN WELSH YOUNG, Germantown, Pa.

ORCHIDS FOR CUTTING.

The Largest and Finest Stock in the World. J. SANDER & CO., St. Albans, England.

Ferns for Easter.

ASSORTED, 2¢ CENTS. 2 1/2 inch plants, \$2.50 per 100, Cash.

EDWIN A. SEIDEWITZ, 36 W. Lexington St., BALTIMORE, MD.

NEPHROLEPIS EXALTATA

...BOSTONIENSIS... THE BOSTON DROOPING FERN.

Elegant Specimen Plants in 6" and 8 inch pots at \$75. 6 inch plants, \$2.00 per doz.

HEATH PLANTS. 100 plants in flower and buds, to 4 and 5 inch pots, at \$2.00 per doz.

L. H. FOSTER, 45 KING ST., DORCHESTER, MASS.

FINE STOCK OF PALMS

Table listing various palm species like ARECA LUTESCENS, LATANIA BORBONICA, KENTIA FORSTERIANA, and BELMOROSA with prices.

JOHN BADER, Allegheny City, Pa.

WATER LILIES

Our stock is unequalled in the United States; see our quarterly trade list and general catalogue. Estimate furnished.

HENRY A. DREER, 714 Chestnut Street, PHILADELPHIA.

EGYPTIAN LOTUS and VICTORIA REGIA.

We are specialists in this line and carry for all purposes.

HENRY A. DREER, 714 Chestnut Street, PHILADELPHIA.

Nephrolepis Exaltata Bostoniensis.

In large and small quantities for Spring delivery, from \$40.00 to \$50.00 per 1000. Mine is the genuine stock.

FRED. C. BECKER, 1730 Cambridge Street, CAMBRIDGE, MASS.

CYCAS REVOLUTA

The true long leaf variety, just arrived. Stems from 2 inches long, up to 18 inches per doz. Price on all bulbous and decorative stock by correspondence.

F. W. O. SCHMITZ, JERSEY CITY, N. J.

GOOD STOCK LOW PRICES.

Table listing various plants like Pandanus Uittii, Areca Lutescens, Kentia Belmoreana, and Cycas Weddelliana with prices.

STRAWBERRY PLANTS.

Strong, Young, Healthy Plants, Separately Packaged. Beware of cheap ones. No. 1 CUTHBERT RASPBERRY - 75 cents per doz.

CHAS. BLACK, Hightstown, N. J.



Entered at New York Post Office as Second Class Matter.

Published Every SATURDAY by  
**A. T. DE LA MARE PTD. AND PUB. CO. LTD.,**  
 2, 4, 6, 8 Duane St., New York.  
 P. O. Box, 1097. Telephone 2154 Central

**SUBSCRIPTIONS:**  
 \$1.00 per year to United States, Canada and Mexico. \$2.00 per year to foreign countries in postal union. Payable in advance.  
 New subscriptions will commence with the first number after receipt unless otherwise ordered. Back numbers can be supplied when wanted.  
 The date on address label shows when the subscription expires and is the subscriber's receipt. No other receipt is sent.

**ADVERTISEMENTS:**  
 Copy must reach this office not later than Thursday night to secure insertion in issue of the following Saturday.  
 Rate, \$1.00 per line. Special positions extra.  
 Discounts on contracts of one month or more, and on contracts for large parties made on account, by cash or satisfactory reference.

General Eastern Agent:  
**W. K. WOOD,** ..... West Newton, Mass.  
 General Western Agent:  
**EDGAR SANDERS,** 1659 Belmont Ave., Chicago

**ADVERTISEMENTS** and all other material will be guaranteed insertion unless it reaches this office not later than **THURSDAY NIGHT.**

**Exclusively a Trade Paper.**

THE FLORISTS' EXCHANGE is published in the interests of those commercially identified with the Florist, Seed and Nursery business. New subscribers are requested to enclose business card or other proof of their connection with these trades.

**Subscribers**

Should give notice to the publishers at the end of their time if they do not wish to continue taking paper, otherwise it is continued and payment exacted.

**BOOKS.**

Send for our catalogue of horticultural books. It contains all the leading publications in this line.

**BINDERS.**

We have for sale two styles of covers for preserving the copies of the FLORISTS' EXCHANGE. Price, full cloth, 45c.; paper, cloth, with leather back corners, 75c.

**Contents.**

BERMUDA LILY FLOWERS ..... 296  
 CATALOGUES RECEIVED ..... 306  
 CORRESPONDENCE ..... 306  
 OBITUARY ..... 306  
 WILLIAM MAGILL, Charles Eliot ..... 306  
 QUESTION BOX ..... 306  
 PLANTS AND FLOWERS ..... 302  
 DON'T FAIL TO WRITE TO THE ..... 298  
 SWEET PEAR FOR FLORISTS ..... 292  
 TARIFF QUESTION, THE ..... 306  
 TRADE NOTES ..... 294  
 Bellingham, Buffalo, Cincinnati ..... 294  
 New York, St. Louis ..... 297  
 Cincinnati ..... 298  
 Cleveland, Knoxville, Tenn., Phila- ..... 301  
 Indianapolis ..... 302  
 Syracuse ..... 307

**For the Busy Man.**

The Special Edition of the FLORISTS' EXCHANGE appears next week.

Directed to write on the Tariff Question; read in your letter early.

**Our Special Edition.**

The reading matter in next week's Special will be devoted largely to commercial orchids and their culture. The services of some of the best growers in the country have been secured for the purpose of his method of growing whereby he has obtained success.

There will also be a chapter devoted to some little known but profitable Easter plants.

These chapters will be liberally illustrated. A symposium on the all-important subject of Feeding Plants Under Glass will prove an interesting feature, in which the practice carried out by several growers will be presented.

In addition, we hope to lay before our readers a very serviceable article on the subject of greenhouse heating from the pen of Professor Taft, in which that gentleman will give his valuable advice on the selection of boilers, piping, etc. for large and small greenhouse establishments.

The tariff question is the thoroughly ventilated in our Special, pro and con. Already we have received a number of queries on this question of a quibbled question; but we ask all interested to send in their opinions at once, so that we may present a complete and authoritative article to our National legislators before the proposed Act becomes a law.

The Agricultural Appropriation Bill was reported to the Senate Wednesday afternoon, from Appropriation Committee as it passed the House.

**The Tariff Bill.**

The misleading extracts published last week by more than one paper, have induced many to question which of the various editions was correct. The FLORISTS' EXCHANGE's account was correct in every particular, as published, and we reprint the extracts of our edition in full, with conditions affecting the seed trade, so that, having every thing plain set before them, our readers will be able to judge for themselves the discussion which we herewith invite on the subject.

**A Subject for Debate.**

**THE TARIFF QUESTION.**  
 Let the Trade Decide.

To Be Discussed in the Special Edition of THE FLORISTS' EXCHANGE, (April 3).

The whirligig of time has brought about the quadrennial sea-saw of political faith, and the changes consequent thereto have involved the business men of the country into the consideration of an altered tariff, deemed absolutely necessary to the health and welfare of the country.

Although great pressure is being brought to bear on passing a revised tariff at the earliest possible moment, there will be sufficient time afforded to intelligently discuss the measure as it affects seed-growers and nurserymen, in all its bearings, and to this end, we would outline the following method of procedure.

Our Special Edition will be published April 3, and will come into the hands of 9,000 gentlemen, principally employes, so that the tariff will be made known.

To appear in that issue we invite a short, concise letter, for or against the proposed new enactments, from every reader interested.

As this is a subject which directly or indirectly touches you we will expect many letters, and so caution the writers to keep the debate free from extraneous remarks. Business policy, not politics, must be the guide mark. All communications should reach us not later than March 31.

A coupon will be printed in next week's issue on which our readers will be expected to vote, and to return to this office within ten days, when the results will be at all times made known. To avoid any delay to the Committee on Ways and Means for consideration, before their final session, this will be made known to the wishes of the majority, and that they will carry due weight with our legislators we have no doubt.

The following are the proposed tariff provisions affecting the Florist:

**DUTY TABLE.**

- PAR.
- 240 Beans, dried, fifty cents per bushel of sixty pounds.
- 250 Peas, dried, fifty cents per bushel of sixty pounds.
- 251 Peas, green, runners, or other small packages, one cent per pound.
- 251 Plants, trees, shrubs, vines, bulbs and roots of all kinds, for growth in the open air or otherwise, not specially provided for in this Act, thirty per centum ad valorem.
- 253 Seeds of all kinds not specially provided for in this Act, forty per centum ad valorem. [This includes all vegetable seeds.]

- FREE LIST.
- 545 Grasses and fibers; not dressed or manufactured.
- 567 Moss, crude or unmanufactured.
- 599 Myrobala.
- 602 Nuts, \* \* \* Palm nuts, \* \* \*
- 617 Plants, trees, shrubs, roots, seed cane, and seeds, imported by the Secretary of Agriculture or the United States Botanic Garden.
- 680 Seeds: Asine, caraway, cardamon, cotton, cummin, fennel, fennugreek, flaxseed, galbanum, rapeseed, and Job's bread, or bitter, sugar beet, mango wuzel, orange, or sugar cane, wheat, and all other grain and grass seeds; all the foregoing not specially provided for in this Act, fifty per cent.

If the above paragraphs go through, all bulbs, palms, orchids, and florists' stock for forcing, will hereafter pay an import duty of 50 per cent.

All vegetable seeds will be taxed forty per cent.

All flower and grass seeds will come in free.

Nursery stock will pay thirty per cent; but—

If the Free Seed Distribution is to be maintained, and dealers refuse to bid for the Government contract, the Secretary of Agriculture will have the power (under paragraph 617) to import seed, free of duty.

The proposition of the FLORISTS' EXCHANGE and our voting opponents on the tariff question is just the thing, and should call for a general response on this question.

It is all very well for a few people to get together and "claim everything" for their side of the case; but votes tall, and when several thousand people have the opportunity of expressing their views directly on a given proposition, there is some basis for the statement as to the consensus of opinion on the question at large.

Persons that do not believe that legislation should follow the wishes of any particular trade or organization, even where the desire is practically unanimous for such legislation, based upon special advantages, or on other grounds, unless such legislation is for the good of the country at large. In other words, I believe that the Government should be in the interests of seventy million of people, not at the request or behest of a comparatively few persons, or in the interests of a few persons of the many.

Whatever one's personal views may be, however, we should be such that we should stand upon this important question as to what the majority of the trade really do desire. The question of sectional interests, the prevailing sentiment through the medium of the FLORISTS' EXCHANGE ballot will not be a general proposition.

New York. **FRED'K W. KILBET.**

**Bermuda Lily Flowers.**

The unjust and reprehensible practice of flooding the American markets with cut lilies from Bermuda at Easter is likely to assume a more aggravated form in this year than heretofore. Hitherto our growers have been confronted with the competition in this line having its origin with the bulb growers themselves in the islands, whose circulars, containing offers, were scattered all over the country. The competition is being augmented by the offers of parties located in the States, and of which the following is a sample:

"We can furnish you with boxes containing sixty Bermuda Easter lily buds for

\$3.00 per box. All orders must reach us by the 1st of April, as we import only such quantities from Bermuda as are ordered, and orders must contain a part remittance, at least, of a guarantee."

Curiously enough, the firm making this offer enclosed a circular to the party addressed, advising that it can supply "Bermuda bulbs; Lilium Harrisii our speciality."

This is adopting with a vengeance the tactics of the Bermuda growers, so loudly condemned and justly complained of by the American florist in former years. It is grossly unfair to solicit and obtain a man's trade in a raw material upon which you have a corner, so to speak, and then throw yourself in competition with him in the finished product at a figure he cannot stand out against. Such a grab-all practice is bound, sooner or later, to have its reaction. It is a deterrent to business and should be stamped out.

**OBITUARY.**

**William Magill.**

We announce with deep sorrow the loss, through death, of an old, valued and efficient co-worker in the cause. Although unknown to the majority of the trade, Mr. William Magill, who was now creditably filling the position of Treasurer of our company, Mr. Joseph Magill, had been identified with the FLORISTS' EXCHANGE from its inception until recent months ago, when falling health compelled him to withdraw from all active work. Owing to his watchful care and close scrutiny was largely due the freedom from typographical errors, both in the regular issues and advertisements, which has been characteristic of our columns.

A thorough printer, well versed in all the mysteries of the art, he was ever ready to render aid and assistance, and his advice, and in his career of fifty years at the business he has graduated many scores of young men, who are now creditably filling their mission in life. The writer of this article has much to remember him by in all his life.

His integrity was spotless, his devotion to the interests he served could not be exceeded, and he was ever a most unflinching courtier, pleasant in his intercourse with all his associates, his comrades in this office, and his business associates in word and deed, consistent to the end. He repeatedly expressed his pressing his firm conviction of a future and a better state, and passed away peacefully and fearlessly, Thursday morning, March 25.

Mr. Magill was born in Scotland, April 10, 1828, and came to the United States in 1849, and for the past 26 years has been a respected citizen of Jersey City Heights, N. J.

**Charles Eliot.**

Charles Eliot, a member of the concern of Olmsted, Olmsted & Eliot, the well-known landscape architects of Brookline, Mass., died on Thursday morning at 37 years of age. The deceased was a member of the Massachusetts Horticultural Society, and devoted to his chosen profession. The funeral services will be held at the residence, 105 W. K. W.

**Providence.**

Among the many plans to beautify the new addition to the Government park none have been received with more hearty support for every one concerned, including all the members of the Massachusetts of the Grand Army Posts of this state, and the various veteran organizations to plant a tree for every soldier who has been selected, with one tree for each organization, and to call the whole the Veterans' Park. The trees to be native of the state, and to be planted in soil from the many places in Rhode Island having an interesting connection with the war, will include maples, elms, birches, and oaks. It was suggested that the grower plant in the soil the tree for the pointed star forming the badge of the Grand Army. The planting will probably take place, with appropriate Grand Army ceremonies, on Arbor Day.

New York.

Wholesale Market. Business is dull, but little is being done in any line. The supply is not heavy, but not much over current demand. Monday and Tuesday stock sold out at some prices; Wednesday and Thursday much of it remained on hand.

Roses went as low as \$15 per 1000 on straight slips; some kept stock of fair quality choice buds at \$19 per 1000, good firsts and extras sold at \$4 and \$0 per 1000. A few better quality flowers, such as figures, but sales were limited. Beauty cleared out at the regular price quoted for carnations, except for a few. Lighter and irregular to give any quotation upon them. A few more roses sold fairly well, the supply not being over plentiful.

Carnations, perhaps, were steadier, both in demand and sales than any other line of stock, going at normal prices. Violets were too abundant to find purchasers for all; the average daily supply now must be about 200,000. Prices on these varied from 15c. to 40c. per 100, a few select hundreds making perhaps 50c. Valley sells worse than here; \$17.50 per 1000 being top price for special stock.

All kinds of indoor stock are selling low. Myrsine and alseum and stock of that character finds but few buyers. Sweet peas are better but not in moderate demand, well, with figures varying from \$1 to \$2 per dozen bunches, there being so much difference in stem and flower.

JAMES M. KING, who for ten years was with Ed. Horan, and within this past year with Thos. Young Jr., started in the common house on an equal account this week at 49 West 29th street.

Retail Trade.

There is nothing of importance doing in this line just now, funeral work creating the bulk of the larger orders. At the present time storekeepers and their buyers are very excited about Easter supplies than any other thing, being more out of town looking around, they bring more in their stores. The prospects are that plants will be abundant and good, the larger size, and the plants will be abundant and good. The larger size, and the plants will be abundant and good. The larger size, and the plants will be abundant and good.

Historians in town were A. B. Scott, Philadelphia, and H. C. Agar, New York, Cal.

St. Louis.

Club News. The regular monthly meeting and annual rose meeting of the Florists' Club was held Thursday last. President Kunz presided.

The rose exhibits were of the highest order. John N. May caused a fine lot of new and Lily Daze variegations. These were of the highest order. John N. May caused a fine lot of new and Lily Daze variegations. These were of the highest order.

Robert F. Tesson had a fine vase of such of the roses as the new, Bride, Woodstock, Meteor and Perle roses, and a vase of lily of the valley and Callifloras.

Frank Fillmore exhibited a vase containing Bride, Princesmaid and Perle, and also some assorted carnations. They were very fine.

A. S. HARRIS of the St. Clair Floral Co. has been reading an address at the previous meeting to prepare an essay on "Growing Roses and Carnations," to be read at the meeting. The doctor prepared the essay with great care, but he did not read it, and thereby made a fiasco.

J. G. GLEASON, formerly with John Herwick, has been reading an address at the previous meeting. Mr. Herwick's Easter lilies are looking well. J. E. K.

Issue will be the Special Spring Trade Edition.

Just the time to Catch Buyers. The Trade are Waiting for it.

CIRCULATION 9,000 COPIES TO LIVE BUSINESS MEN. If your advertisement has not been sent in, MAIL IT AT ONCE.

Insertion cannot be guaranteed if copy reaches us later than Wednesday, March 31.

THE FLORISTS' EXCHANGE, P.O. Box 1697, New York

Index to Advertisements. Lists names of advertisers and their corresponding page numbers, categorized by section such as Canna Plants, Amaryllids, and Florists' Exchange.

Plenty's Horticultural Works. Lists various horticultural products and services, including seeds, plants, and nursery stock, with associated prices and contact information.

# BESTER PLANTS' MY SPECIALTY.

ERICAS—Fine plants, well flowered.....	\$0 75 to \$3 00
AZALEAS—Fine plants, well flowered.....	75 " 12 00
HYDRANGEAS—All sizes, seem to.....	1 00 " 7 00
LILAC—Splendid plants.....	1 00 " 2 00
METROSIDEROS (Bottle Brush).....	1 50 " 3 00
KALMIA LATIFOLIA.....	1 50 " 3 00
LILIU LONGIFOLIA.....	3000 pots.
TULIPS and HYACINTHS.....	several thousand.

A Large Stock of ARAUCARIAS and PALMS.

## ANTON SCHULTHEIS, College Point (L.I.), N.Y.

Opposite R. R. Depot, North Shore Division, Trains every Half Hour.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

### Chicago.

State of Trade.

On referring to last year's reports, I find there is not much difference between the prices now and then. There appears to have been a shortage of roses than as compared to the present supply, which is pretty ample, and, as a rule, good in quality. In such other localities, it might be getting plentiful, as we find an increasing quantity shipped from outside to this market. Dealers seem to manage to clear out fairly well. After the orders of buyers of prime stock and shipping orders have been filled, prices drop. There is a margin of \$5 for best less down to \$1 for left over and poor quality flowers. American beauty can now be had, bringing \$4 per dozen for extras, \$15 to \$25 for next quality, with demand beyond the supply.

Carnations are holding their own at \$1 to \$1.50; some extra fine Triumph, Jubilee, and other varieties from J. & Co. McKellar's, are selling at \$1 to \$5.

Lots of single double flowers are in from the South, selling slow at \$1 per 100.

Violets are still abundant, and being low in price, lots are worked off.

Some extra fine mignonette and pansies have been arriving from New York; the pansies being grand and fine, averaging 3 to 3½ inches. No sweet peas are as yet exposed in this market; a few are in, but they find a market through growers' hands, retailing at 50c a dozen; \$3 per 100 is about the wholesale price.

There is considerable talk around as to what Harriell will sell for at Easter. Some dealers are ready to place orders if an agreement can be made as to price.

Among the wholesale men, reports as to figures vary, the most general opinion being that these lilacs will bring, by the dozen, \$1.50; by the hundred, \$10. A few talk of \$15 as the high-water mark. There is some content that \$10 will be the very highest. There is some fear that Bermuda flowers may be sent here again, but if so, they will hardly interfere with the first quality stock. Unless all things fall, there will be sufficient home-grown flowers to supply demand, around Town.

E. H. Hunt will move May 1, to 76 and 78 Wabash ave., where he has erected the second floor, space 46x160 feet. This brings all the wholesalers but Randall and Block of Chicago to the same place.

St. Patrick's Day was a dreary, wet day here and bad for street business. A few of the flower chambers was much evidence in the wholesale houses. A good deal of the common oxalis, with a few other varieties, was sold. Surely the clovers could be easily grown for the purpose and would be nearer to the genuine thing.

Harry Bunyard, of Pitcher & Manlin, St. Louis, Mo.; C. G. Grant, of Lincoln, Ill.; M. Stanch, of the M. A. Hunt Company, and Mr. Knecht, of W. J. & M. S. Vesey, Fort Worth, Tex., and EDGAR SANDERS.

## THE "Florists' Exchange Spring Special," to be issued next Saturday, will go to 9000 five business men. You better be in it.

## CRAPEVINES

All old and new varieties. Extra quality. Large and small plants. Descriptive Catalogue Free. Write to THE FLORISTS' EXCHANGE, 1125 Broadway, New York.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

### PEACH TREES.

A good stock of one-class trees of the most reliable variety, healthy, true to name and thoroughly rooted. Some have 14 seasons' growth free from canes and disease; certificate of entomologist on file. Select Experiment stock sent with price list. If you want reliable peach trees get 'em before you purchase. Also 1,000,000 Reliable Strawberry Plants, of choice varieties, for sale. Do not throw money away on untested varieties. For price list, address CHAS. H. ACK, Highland Park, N. J.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

### OCEAN CITY Strawberry

Finest flavor, large and solid. Bear seasonably. Donald's Seedling, Japan, and other varieties. A new production of rare merit. Greenhouse Peach, Japan, and other varieties. For price list, address HARRISON'S NURSERY, BERLIN, Md.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

## Rhododendrons

of American-grown hardy sorts.

## Japanese Maples

and other Rare Plants.

## Parsons & Sons Co.

LIMITED,

Kissena Nurseries, Flushing, N. Y.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

COMMONWEALTH OF PENNSYLVANIA.

### DEPARTMENT OF AGRICULTURE.

FLORADALE, Pa., Oct. 7, 1897.  
TO WHOM IT MAY CONCERN:—This is to certify that I have this 17th day of October, 1897, inspected the nursery stock of C. L. LONGSDORF, grower at Floradale, County of AGUIA, State of Pennsylvania, and found no indication of the presence of the Pear, Apple, Plum, Yellow, or other injurious insects or diseases; that said stock is transferred to Nursery and Horticulture, in the interest of agriculture. (Signed) G. O. GROFF, Special Agent.

## 50,000 PEACH to offer at lowest prices.

C. L. LONGSDORF, Floradale, Pa.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

## DELAWARE COLLEGE AGRICULTURAL EXPERIMENT STATION.

DEPARTMENT OF HORTICULTURE AND ENTOMOLOGY.

HORTICULTURE AND ENTOMOLOGIST.

NEWARK, DEL., Dec. 15, 1896.

DEAR SIR:—It is to certify that I have examined a large number of trees and plants in your nursery for peach yellow, peach root and San Jose scale, and have been unable to find any of the above diseases or any other injurious insects or diseases. Yours very truly,

H. K. HAROLD POWELL.

DELAWARE COLLEGE AGRICULTURAL Experiment Station

## PEACH & PUM TREES

FOR SPRING DELIVERY, 1897.

Reliable and cheap stock in low wholesale prices. Good for job lots.

## ASPARAGUS ROOTS.

2 and 3 Years, Strong.

ALEXANDER PULLEN,

1125 BROADWAY, NEW YORK, N. Y.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

# LOW PRICES

## JAPAN MAPLES.

1½ to 2 ft.....	\$0 25
2 to 3 ft.....	45
3 to 4 ft.....	75

## AMPELOPIS.

Ampelopsis Veitchii, 12 to 18 in.....	5c.
" " " " 2 ft.....	5c.
" " " " 3 to 3½ ft.....	75c.
Chinese Honeycreeper, 8 to 9 ft.....	5c.
" " " " 10 to 12 ft.....	\$5.00 per 100

## HOLLYHOCKS.

Hollyhocks.....\$3.00 per 100

## TREE PÆONIAS.

30 varieties, 3 years.....\$0 50

"John White," (new). Price on application.

Queen Charlotte, 4 in. pots.....\$5.00 per 100

## CANNAS.

12 to 18 in.....\$15.00 per 1000

18 in. to 2 ft.....50.00

2 to 3 ft.....20.00

2 to 3 ft. Heavy.....40.00

Larger sizes, prices on application.

## SHADE TREES.

3 and 4 in. in diameter. Prices on application.

AZALEA MOLLIS, strong, well-budded.....\$0 25

CRIMSON RAMBLER ROSE, 4 ft.....25

Bearing Age Plum, Apple, Cherry, Peach, Apricot and Quince Trees. Prices on application.

Strawberry-Raspberry and Golden Mayberry.....\$3.00 per 100

## THE ELIZABETH NURSERY CO., ELIZABETH, N. J.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

## ROSES

FAY'S CURRANTS FOR SALE.

Price of 2-year, No. 1, \$22.00 per 1000.

" " 2-year, No. 2, \$18.00

" " 3-year, No. 1, \$25.00

Packing free.

F. BURDETT,

Clifton, Monroe County, N. Y.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

## Andorra Nurseries.

Specialties: large specimen ORNAMENTAL TREES,

large hardy RHODODENDRONS and AZALEAS.

2500 Norway Maple, 12 to 14 ft, 2 to 3 in. caliper.

3000 Sugar Maple, 12 to 15 feet, 3½ to 2½ in. caliper.

800 Sweetest Purple-leaved Maple, 12 to 15 feet, 2 to 3 inches caliper.

800 Norway Maple, 12 to 12 feet, 1½ to 2½ in. caliper.

700 White-flowering Maple, 12 to 12 feet, 1½ to 2 in. caliper.

500 White-flowering Horse Chestnut, 10 to 15 feet, 1½ to 2½ inches caliper.

150 Purple Birch, 10 to 12 ft, 1½ to 2 in. caliper.

200 Golden Catalpa, 12 to 18 feet; 1½ to 3 in. caliper.

1200 Western Catalpa, 10 to 14 feet; 1½ to 2½ in. caliper.

75 Weeping Birch, 8 to 12 ft, 1 in. caliper.

200 Red Birch, 12 to 15 ft, 1½ to 2 in. caliper.

1000 Oriental Plane, 12 to 15 feet, 1½ to 2½ in. caliper.

50 Holleran Poplar, 16 to 18 ft, 1½ to 2½ inches caliper.

1500 European Linden, 10 to 12 feet, 2 to 3 inches caliper.

WILLIAM WARNER HARPER, Manager, Chestnut Hill, PHILA., PA.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

## ROSES

## STONG FIELD-GROWN DORMANT PLANTS.

Large stock Gen Jacqueminot, Paul Neyron, Ulrich Brunner, Magna Charta,

Baroness Rothschild, and other leading varieties of Hybrid Perpetuals, \$5.00 per 100;

MOSS ROSES in the ten best sorts, \$9.00 per 100. CLIMBING ROSES,

Baltimore Belle, Prairie Queen, Tennessee Belle, and Seven Sisters, strong, 2 years, \$5 per 100.

Wichariana (Memorial Rose) field-grown, \$5.00 per 100.

## CANNAS.

New Giant Flowered AUSTRIA, strong, 4 in. pot plants, \$3.00 per doz.; \$20 per 100. A large stock of the cream of the

elder varieties, such as Florence Vaughan, Queen Charlotte, Eldorado, Sunbeam,

Alphonse Bouvier, Charles Henderson, Madam Crozy, President Carnot,

Admiral Avellan, Edward Migé, etc. Do not fail to get our prices before buying.

## CALADIUM ESCULENTUM.

Sound bulbs with good centers, 7½

to 10 in., \$5 per 100. 6 to 7½ in., \$3 per 100. 5 to 6 in., \$2 per 100.

## BEGONIA PURITY.

A new pure white of the semperflorens type, very free flowering, \$3 per doz.

## GERANIUMS.

Strong 2½ in. pot plants, large stock of S. A. Nutt, Marvel, Heteranthe, La Favorite, and other best

bedding sorts, \$25 per 1000.

Immense stock of Fruit Trees, Nut Bearing Trees, Grape Vines, and Small Fruits. One of the largest, if not the largest, assortment of Ornamental

Trees and Shrubs, Climbing Vines, Bulbs, Hardy Perennials, etc., in

America. And 22 greenhouses filled with what the average florist is most likely to want.

Correspondence solicited. Catalogues and trade lists free.

THE STORRS & HARRISON CO., Painesville, Ohio.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

IF YOU IMPORT ANY
FLORIST OR NURSERY STOCK,

Don't forget to ask for Van Praetean and
Kewland's (London, Holland) price list.
LOUIS VAN KOERT, General,
295 Dorchester Street. - So. Boston, Mass.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE
NYMPHEA OODORATA GIGANTEA,
2 1/2 in. per doz. \$5.00 to 10.00
Giant Double and Df. Double Sweet Alyssum
LANTANA, Dwarf, Yellow Orange.
DWARF BLUE AGERATUM, 2 1/2 in. pots,
Also Chrysanthemum, Roses, and other
plants. Prices list on application, cash with order
R. VINCENT, Jr., & SON, White Marsh, Md.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE
CLEMATIS Both double and in pots; good plants
\$2.50 per doz. Transplants, \$1.00 per doz.
DOWNING GOSBERRIES Both one and two
years old plants, 5 in. plants at
special low price.
SMILAX Strong plants from last year, 5 in. pots,
\$2.50 per doz. Transplants, \$1.00 per doz.
HERBACEOUS PEONY Ten named kinds, \$4.00
each in 10 in. Double white, \$2.00
each in 10 in. pot.

F. A. BALLER, Bloomington, Ill.
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Easter Lily
-PLANTS-
A fine stock in splendid shape to ship now.
EVENED BROS., Williamsport, Pa.
WHEN WRITING MENTION THE FLORISTS' EXCHANGE
GOOD STOCK AT LOW PRICE.

Case Jasmines, Gardens Florida, strong and
well rooted, 1 1/2 in. pots, \$1.00 to 2.00
All sizes \$1.00 to \$1.50, 1 1/2 in. pots, \$1.00 to 1.50
California 2 1/2 to 3 in. \$1.00 to 1.50
1 1/2 to 2 in. \$1.00 to 1.50
1 1/2 to 1 in. \$1.00 to 1.50
1 1/2 to 1 in. \$1.00 to 1.50
JOHN MONKHOUSE, Caddo Nursery,
Jewetta, La.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE
SIEBRECHT & SON,
The Largest and Finest Collection of
PALMS,
DRACENAS, FICUS and FERNS
ALACIARIAN, etc. in all sizes
Prices to suit all. One visit and you
will write home here.

STOCK MONEY-GROWN.
WRITE, TELEGRAPH OR TELEPHONE, AND
OUR CARRIAGE WILL MEET YOU.
Rose Hill Nurseries, New Rochelle, N. Y.
New York Office, 409 Fifth Avenue.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE
ROPELOPSIS VITICOLA.
Fine, dormant, 1 and 2 years old price \$3.00
and \$5.00 per 100. Delivered C. O. C. O. of
your door.
CANNAS - ITALIA, \$5.00 per doz. AUSTRIA
and ALBON, \$3.00 per doz; fine
herber stock.
Hardy Pinks, including Her Majesty,
50c per doz; \$3.00 per 100. Crimson Rambler,
50c per doz; \$3.00 per 100. Rose-
sucklers, Halleena and Golden, fine, 1 year,
50c per doz; \$3.00 per 100. California
Pink, full runners, \$1.00 per 100.
BENJAMIN CORWELL, Florist, New Groves, Pa.
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

GLENWOOD NURSERIES
SPRING OF '07.
10,000 Ampelopsis Viticoll, grows in 3-in pots,
\$1.00
5,000 Clematis Panicata, from \$5 to \$10 per
doz.
5,000 Rose Wichurana, 1, 2 and 3 years old
\$5 to \$12 per 100.
10,000 Hedges in variety, 6-80 grown roots,
10,000 Dahlias, unvaried, field-grown roots,
name and color, 1 to 5 feet. Samples and
prices on application.
10,000 California Privet, 1 1/2 feet. Samples and
prices on application.
Trade List for Spring containing full assort-
ment of Trees, Shrubs, Vines, new variety.
Send for free correspondence solicited.

THE WM. H. MOON CO., Morrisville, Pa.
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Dreer's Special Offer
FOR MARCH.

AZALEAS FOR EASTER.



We are this season carrying an unusually
large stock of Azaleas in the best varieties
and in fine condition for Easter. As these
plants can be shipped more safely when in
bud, we wish to impress the importance of
early orders. We will not be responsible for
injuries arising from late shipment when the
buds are dropped. 5-inch pots, each with
bushy growth, 10 to 12 inches in diameter,
well set with buds, \$5.00 per doz.; \$30.00 per
100. 6-inch pots, fine plants, well set, 12 to 15
inches in diameter, \$7.00 per doz.; \$40.00 per
100. Specimen plants, \$2.00, \$2.50 and \$3.00
each.

TUBEROUS ROOTED BEGONIAS.

Now is the time to plan for early flower-
ing; the strain is the same as has been sent
out by us for several seasons, the best that
can be produced.

WE OFFER
Stingles in choice mixture..... \$2.50 per 100; \$20.00 per 1,000
orange and rose..... 3.75 " 25.00 " 100
Double in choice mixture..... 1.00 " 10.00 " 100
separate colors as wanted, white, rose and orange..... 1.50 " 15.00 " 100
CARNATIONS
Gloxinias. A most select strain of the Cras-
sifolia type in fine mixture..... 4.00 " 100; 30.00 " 1,000

SEASONABLE HERBACEOUS STOCK.

Table listing various herbaceous plants such as Anemiths, Aquilegia, Boloria, and their prices per 100 or 1000.

HARDY VINES AND CREEPERS.

Ampelopsis Viticoll, strong pot-grown, 3-inch pots,
\$1.00
Clematis Hardy Hybrids, all leading varieties, strong 2 year old, each as Jackman, Henry,
Duchess of Edinburgh, etc., etc..... \$7.75 per doz.; \$39.00 per 100
Clematis Panicata, strong 3-inch pots, \$5.00 per doz.; \$40.00 per 100; \$2.00 per 1,000
Clematis Cocinea and Crisp, strong 2 year old..... \$1.00 per doz.; \$7.00 per 100

For a full line of General Florists' Stock and especially Deco-
rative Plants for which we are headquarters, see our Current
Trade List, new issue of which will be ready about March 25th.

HENRY A. DREER, 714 Chestnut St., Phila.

FOR EASTER BLOOMING

HARRISII LILIES, good strong plants,
guaranteed to bloom for Easter. 4 cts. a bud
CINERARIAS, 4 inch, all in bud and bloom,
\$1.25 per dozen.
CARNATIONS, graded cuttings, Scott and
McGowan, \$6.00 per 1000.

WHITTON & SONS,
Wholesale Florists, City and Green Sts., Ulster, N. Y.
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

EASTER PLANTS

LILIAM HARRISII
Fine flowers, good foliage, 12 cts. per flower.
HYDRANGEAS
6, 7 and 8 in. pots, well hardened, 50c to \$2 each.

AZALEAS
In splendid condition, 6c. to \$1.50 each.
SPIRÆA
Large compact plants, \$4.00 to \$6.00 per doz.
Positively cash with order, or satisfactory reference.

SAMUEL J. BUNTING, Philadelphia,
Elmwood Ave. and 38th Street.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

P. OUWERKERK,

1123 Summit Ave., Jersey City, N. J.
Just received from our Holland
Nurseries:

RHOODODENDRONS, AZALEAS,
SPIRÆA JAPONICA, LILIAM SPECIOSUM,
PÆONIES, BLEEDING HEART,
POT GROWN LILACS, HYDRANGEA IN SORTS.

CLEMATIS and H. P. ROSES, in the best sort
PRIORS MODESTE.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

FOR EASTER

FORCE FLOWERING SHRUBS:
Lilacs, Staphylices,
Deutzias, Snowballs,
Kalmias.

ROSES, H. P. & others.
Tree-roses, Clematis,
Pæonias, Hydrangeas,
Hardy Azaleas.

L. C. BOBBINK, Rutherford, N. J.
Branch Horticultural Co., Beskop, Holland.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WE MAKE A SPECIALTY OF GROWING
A. W. Smith's Hybrid Moonflowers

(Ipomœa Nuttalliana)
The above are strictly the best Moonflowers
in cultivation; blooming from 30 to 45 days
earlier than the old variety; producing four or
five different shaped blooms and bloom from
five to seven inches in diameter. The flowers are
pure white.

Plants for stock now ready to sell from 2 1/2
inch pots at \$1.00 per dozen; \$7.00 per 100. No
less than 50 plants at 100 rates. Orders for May
will be looked upon.

We also have a fine lot of Cinerarias, which variety,
budded, in 4 in. pots, will make fine
plants for Easter, at only \$2 per 100.
Also about 75 Lillium Harrisii, in 4 in. pots,
showing buds at 10c. each.

Flower Geraniums, 4 in. pots, all colors, mixed
\$5 per 100. We also carry an immense stock
of Easter Plants in 6 in. pots, which we will
ship for cash; prices on application.

Hyacinths already budded (separate colors
or mixed), only \$5 per 100.
CASH WITH ORDER.
CODFREY ASCHMANN,
1012 Ontario St., Rising Sun, Philadelphia, Pa.
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## RESPONSES.

*Insertion will be given in this column to all communications free from animus, but the opinions expressed do not necessarily reflect our own.*

### Seedlings and Certificates.

I expected that Mr. Ward would be first to refer to the article which was called forth this discussion, and I am not surprised by the character of his reply, for he has been his usual self since the Cincinnati meeting and before he had left for home; the essence of what I expected is contained in his own penultimate paragraph.

Mr. Ward need not go out of his way to defend the morale of the editorial staff of the "Exchange"; his services in that line are quite gratuitous, as the editor and myself can settle that between us.

But the editor's original paragraph; I cheerfully accept the statement. I am none the less firmly grounded in the belief, however, that Mr. Ward's unprovoked attack on the Carnation Society in the opening article; I would be willing to wager my entire wardrobe upon the veracity of the facts. (This is emphatically denied.—E.D.)

Before taking Mr. Ward's statements for granted, we must consider the position of a gentleman's position. Like many a pronouncement issued, it is formidable in its effect, but weak in argument and vain in statement.

His whole grievance against the Carnation Society may be summed up in the following words: "There were several other seedlings exhibited to which almost any unbiased grower would give the award of certificates." There is the matter in a nutshell; the man with the grievance is looking for what he can get out of the seedlings. Mr. Ward is posing only as the champion of the poor, small florist, who cannot afford \$5 an acre, though he would not give a certificate to a seedling that he knows is quite up to Society requirements!

Mr. Ward assumes a very unlovely aspect when we refer again to the words quoted above and note his attack upon the three gentlemen who were the recipients of the three gentlemen, who, not of their own choice, but by selection, were asked to give the award of certificates to the certificates. From this statement we are to understand that the honored president of the Society of Horticulturists, together with Mr. William Scott and Mr. E. H. Michel, are biased—they are professionally or morally not so well placed as to give the award were pulled!

I think that an attack of this kind aimed at the integrity and judgment of the gentlemen in question needs no characterization, and I think that when Mr. Ward comes to think over the matter dispassionately, he will see that his only course is to make the amende honorable.

With reference to the use of the certificates in E. G. Hill & Co.'s wholesale list. We were very proud to use them. I am sure I had received a certificate for every seedling that I might have which I considered worthy of distinction, and have presented the Carnation Society in high esteem because I believe it composed of honorable, upright gentlemen. I received a certificate bestowed by it was a valuable acquisition, and I certainly should not fail to advertise them, when they were presented to me, in a variety honored. What use is usually made of awards of merit, medals, first prizes? Did you not see the exhibition at Fair and other exhibitions jealously hide the honors from sight, or was it simply a matter of honor to receive the certificate? By the way, I don't believe that there has been a more persistent seeker of certificates than Mr. Ward himself, and the certificates that he won for Meteor and Storm King from the secretary of the Carnation Society means, though he may not have thought of having them electrolyzed.

It is very interesting to me to see so emphatically to say that the wire pulling done by our firm has consisted in selecting the seedlings and advertising them, packing them carefully, putting them to their destination in good time, and allowing them to be judged to do the best, and, further, when a pet variety of ours had a better chance of being sold than such "hidden beauty" it might possess, I have deemed it the pritty thing to give preference to the seedling that was sold and in this course I find myself in plenty of honorable company.

The result of the genius for juggling words and solely to his those unacquainted with the rules of the society he tries to

bring odium upon it by charging that the entry fee was put at \$5 in order to work a hardship upon the smaller growers and to allow them only a few lines of space. This is not so in the slightest fact. The society welcomes fine exhibits from whatever quarter they may come, and expects to have the best upon its tables every year, and if a grower, big or little, is confident that he will give a good exhibit, he can afford to afford the entrance fee, and could still afford it though it were much higher, for the society would not expect to keep out rubbish, a most desirable end, and it helps to produce a revenue, a very necessary one, to the society, and it is only right that those likely to be benefited should also contribute to the support. This was noted the correct thing to do by the "little" as well as the "big" man.

The difficulty is not as Mr. Ward intimates with the certificates awarded, nor for that matter with the method of awarding them, but the trouble lies with the estimate which Mr. Ward places upon his own judgment in the awarding of certificates. Between every line may be read "I. C. W. W. know more about carnations than all the other men in the world," and Carnation Society put together." This is the logic of his reply.

Let us take issue with Mr. Ward in the matter of the originator being the better judge of his own product. The old collocation of "originator and a stick of twine" thinks his own "crow the blackest" a homely way of putting the truth tersely. But through growers of carnations and judge it with more exactitude than can its originator.

As to the awarding of this series refers to Mr. Adam Graham as having made a most unfortunate choice of words. The words "I am a grower" were used in the awarding of a seedling had competed against another, in the published report I find that Mr. Ward had been the competitor, and that the point system is used, so no unfairness results as in competitive tests; any variety that scores a number of points receives the certificate.

As to the "best seedling," Mr. Weimar, the president of the Carnation Society, in his own rules, and if this particular class was made competitive, it was not under the same conditions as the other classes; any member objected to the competitive test he need not enter under the test; it was a matter of choice to do so.

Mr. Ward again says: "The certificates issued in the past have been no practical value, as to the certificates of merit value." The great grand-winning variety introduced was certificated at Pittsburgh, and the same was true of the other.

I suppose apropos of preparing for this campaign, Mr. Ward made the statement that the certificates of merit awarded by McGowan had never been used, and, intending thereby to depreciate the certificates that had been issued, but in the case of Wm. Scott shows, and had the society been in existence at the time, it would doubtless have been a certificate upon McGowan also.

It is interesting to note that the Carnation Society has no more ardent supporters than many of the gentlemen on its membership list, who are not only not in the array class against class is little less than that of the "peers" so sincerely characterized as the "peers" of the society, but they are the root of cutting interest, but they are many men of intelligence in the society who naturally would not see fifty to one odds, and this is still a country of men.

I care not for Mr. Ward's personal thrashing of my connection with the Carnation Society. When the facts are known it will be shown that I wronged no one, and that I have used the most honorable methods. We advertised Mrs. Perrin as a sport from Mme. Felix Perrin (see our list of names), and I have had the correspondence with prominent florists broken, and because the variety as flow-ers before me, and I will send the descriptions from abroad.

I emphatically decline going any further into a discussion of the wire pulling, and I can come to the Carnation Society, to Mr. Ward or to myself along such lines. I am particularly desirous to refer to the original article, and doubly so to the editor of Mr. Ward's communication, who has been so kind to send me the article if he will kindly harmonize this paragraph.

As to carnation culture, stimulated by the exertions of the society devoted to the olive flower, we continue to make progress. As to the carnation, the seedling, and new seedlings, have of necessity made the advancement seem numerically small; but

it has been marked, notwithstanding. A certificated variety may not be relied upon, for it is not a carnation, and this is not before this honor is bestowed upon it. Editorial in "Florists' Exchange," December 1897, and the same was published with his editorial of March 6, 1897, headed "Seedlings and Certificates."—E. G. HILL.

### The Carnation Contest.

#### Editor Florist's Exchange:

Will you kindly state that the contest between E. G. Hill & Co. and myself, as to who has the largest white carnation, has been settled for April 1898, and will be held in all competitors and others are also invited to exhibit any variety of merit, and flowers, prepared to Pennock Bros., 1514 Chestnut st., Philadelphia.

The contest will be held in the Florists' club room, Horticultural Hall, Philadelphia.

EDWD. SWANNE.

### Carnation Lizzie McGowan.

#### Editor Florist's Exchange:

I send you a few Lizzie McGowan carnations, some I had left over from my morning bouquet. My only in sending these is to show you that this variety is not a played-out variety, by any means, and that it is a variety that all florists would like to have as believe. I wish to see the sort that you have in the hands of the stems, which are as strong, if not stronger, than those on many of the other sorts that I have seen recently. By careful selection, I am improving this variety every year, paying attention to the stem, but I am sure I will see that I have not neglected the flowers, as these average 2 1/2 to 3 inches in diameter.

I can heartily endorse all that Mr. Weber (your able writer) says, especially his advice to the grower to grow the variety, but to be sure and not neglect the old ones.

Respectfully, A. J. THARP.

Beard Station, N. Y.

(The flowers received were splendid blooms, large, with strong stems. In other quarters, with careful selection of cuttings, this variety has proven most satisfactory, also.—E.D.)

## QUESTIONS.

### OPEN TO ALL FREE TO ALL

#### Answers Solicited from Those Who Know.

(73) Forcing Liliun Harrisii for Easter.—Liliun Harrisii with the buds in sight now will need no forcing for Easter. During the month of April growth is much more rapid than at the present time. Lilies may be expected to develop more in one week than they do in two in March; for this reason there will be more difficulty in keeping lilies back than in forcing them in some seasons.

(74) Hydrangeas for Easter.—If the hydrangeas are showing color in the eyes they will need but little, if any, forcing. But if the eyes are yet green, it would be better to keep the house a little cooler, or to hasten them on, for it is easy to let up and harden them afterwards for a few days. A light liquid manure water may be given at intervals till flowers are nearly open.

(75) Treatment of Adianum Farleyense.—E. H. Pot in good strong loam with a little leaf mold and some sharp sand added. Give a moderate amount of light, and keep at a temperature of from 60 to 70 degrees. Give water as needed, well supplied with water. Ventilate sufficiently to keep the atmosphere sweet and fresh.

(76) Soft Coal Ashes on Benches.—G. KNOX.—No, sand ashes are not injurious, about the reverse; roots of bedding stock, ferns, etc., are often found matting together, and it is preferred to put the soil in their pots, when these plants are stilly upon or plunged in ashes.

(77) Lily of the Valley.—JOSEPH WOOD.—There is no reason why you should not dwell in such a house. The time for planting pips depends upon when the blooms are wanted. From 31 to 25 days before the time when you wish the plants. Several growers repeat this all the year round.

(78) Single Geranium Midsummer.—After a diligent search for the introducer of geranium Midsummer, the best I have been able to find has been traced either by Campbell or Pearson.—W. F. SIMMONS & Co.

(79) Fumigating with Hydrocyanic Acid.—How strong should the hydrocyanic acid gas be used to fumigate the red spider on roses and carnations? Should the spider be killed by the gas, or should injury to the plants?—M. DE LONG.

The varieties of roses and carnations on which we experimented were found to be very susceptible to injury from the ordinary applications of this gas. Red spider will endure strong applications without any apparent injury. From our present knowledge, therefore, it appears impracticable to effectually rid roses or carnations of this pest by the use of hydrocyanic acid gas. Further experiment may, however, advise the problem.

P. H. DORRIST.

(80) Diseased Aspidistra. —H. H.—The specimens of aspidistra sent with your letter of March 1, have been under observation in our laboratory since their receipt. The diseased spots on these specimens are not the same as those on the first specimen, and are not necessarily of the same characters which would indicate that there is any connection between the two troubles. In this case the trouble seems to be due to the yellowish discoloration of the leaves.

The leaf seems to react very quickly to injuries of all sorts, producing in most cases a yellowish discoloration. We have been able to produce the whitish, blotched appearance of the lower surface of the leaves of a second lot of plants, possibly by the use of water, thus permitting the protective cells on the surface of the leaf to get out of the way. This is a good way to kill, and is greatly injured, the so called guard cells of the leaf, and the result is that the stomata these pores to open and close. When this occurs the tissues in the immediate neighborhood of the stomata are dried out very slowly and the spot has a whitish appearance, although it is not necessarily of the same characters as the spots of quite large size, appearing on both the upper and under surfaces of the leaves. This is a problem in progress in this way, as we have been unable to get any thing like it to the laboratory. We should like to receive specimens of this other disease. (Prof. J. B. T. GALLOWAY.)

(81) Two Year Old Tea Roses.—Will two year old tea roses, in solid benches, do as well, if cut down, as young plants? If not, how short should they be cut?—EDNEY SMITH.

—If your plants are in perfect health there is no reason why they should not do as well, if not better, the third year as the second. If they should not do so well, it depends on what growth they have made.—3 feet, if you have plenty of head room, is about right. In June the plants should be dried off, and all the air possible given to well ripen the canes. This will cause the soil to have water in it, and the plants will be hardy in the slightest. Of course they should be syringed and damped down just enough to keep the wood from drying out, and to keep the plants from this wood should be cut out, leaving only the strongest and youngest canes. They should be cut to the desired length, and I will be found necessary to tie them out a little; in other words, they should be damped down, and the plants should be syringed; then clean the beds carefully, fork in some good cow manure and a sprinkling of bonedust, and water the plants, followed with a good watering; after this, with good care, the plants will flourish. Use the syringe freely, but be careful not to get the beds wet. After the plants are dried off, they should be syringed before they need another. Never shade, and all the air night and day that can be had, and the plants will be hardy, the sturdier and better; whereas an orchid treatment will produce that condition of things which will bring the plants invariably ends in a total failure.

H. H.

COME early and avoid the rush. Send your advertisement for the month of Florists' Exchange Spring Special! by return mail.

**Philadelphia.**

There has not been any noticeable change in the flower market the past week. Stock is very plentiful, and only very few of the good grades, but the volume of business does was small. Shipping has been very good, and is now very good, and this has prevented any glut in the market. Roses and carnations have been very plentiful and are now very good. Some of the best of the long-stemmed Beauty has not been quite so large, still there are sufficient for all the purposes for which they are used. Some are coming in—probably the best come from E. P. Hostetter, Mahan, Pa., these are of the color of Edward Reid, the Albertine being very fine, and favorably sell at \$3. This grower is also raising excellent Michigan Beauties. The grower, Mr. J. M. Tenen continues to send in some very good Daybreak and Scott.

The carnations are plentiful as ever, and are difficult to dispose of. On Wednesday one grower accrued in 10,000 doubles; the other 100 is being asked for these, but many sell below that figure.

Southern daffodils are very plentiful, and sell slowly at 50c. per 100; in fact, all bayonet stocks find slow sale.

Some carnations in now arriving from Fayetteville, N. C., and sells fairly well at \$15 per 100 bunches.

**News Items.**

A. DIMMOCK has been in the city the past week looking up business for Sander & Co.

The bowing alleys in the clubroom are now cleared. Some of the old bowlers are getting into shape again.

Reports from Chester County the past week are very good. The carnations have been found on fruit trees in several different localities.

**Glossaries.**

The contest between E. G. Hill & Co., Richmond, Ind., and Edward Swayne, Wauaset, Pa., as to who has the largest carnation stock, will be held at the Florists' Club room, on Friday morning, April 2, at 10 A. M., and will be a most profitable meeting, as well as being a most good blooming.

On every hand preparations are being made for the good season, but it is being found very difficult to hold plants large, the past few days having been very dry.

M. BOOAN is growing about 10,000 geraniums this year. In putting these up the last week he has had a very good crop of them, which has given great satisfaction. Genetas and lilies are the principal stock for exportation. Both are being held in anticipation now to Spring stock, of which a large quantity is grown for the market trade. The carnations are being shipped for Easter, and well hardened.

J. Wm. COLFESH is watching his Jacquets now very closely, to make them for the Easter season. At present they look about right.

GORODE ANDERSON has his usual complement of carnations. All the plants are in splendid condition, also is a house of Brunner for Easter week.

**Amuse growers.**

John Hackett has had a very successful week for Easter week. These propagating in large quantity for cutting trade. Speaking of planting carnations and geraniums, it is being found that it pays, as so much blooming time is lost early in the season, and while one house of carnations is in bloom, this season is now looking splendid, the practice will be carried out another year, and need not be carried out another year, but a much better flower, is being largely grown and proved to be very successful. The carnations are too busy in throwing out unhealthy plants has been proven on this place this year. The carnations are now doing in the season. Most of them were thrown out, but those left in have done very well, and are now in the best shape and produced very good flowers. Van Leuwen is a variety grown largely here, and is proving to be very successful. The carnations are all stock is in perfect health, and there will be a large crop for Easter.

Sandy Butt is now devoting his chief attention to Easter stock, of which he is growing a large quantity, consisting of all the best grades of carnations. The plants are in good trim. Around the carnations right for Easter, all light colored varieties being grown. Another novelty in this line is in pink carnations. They are in 6 in. pots, in which they were potted last spring, and grown on during summer. It is being found that they are doing very well in Fall they were covered lightly for the winter protection until brought in. They

**Paris for Easter.**

**LILium LONGIFLORUM, AZALEAS, HYDRANGEAS, SPIRÆAS, RHODODENDRONS, assorted ROSES, LILACS, and HYACINTHS in pans and pots.**

Also a fine healthy lot of **CARNATIONS** from Paris; Daybreak, Wm. Scott, Lizzie Mc-Gowan, Tidal Wave and Minute Clock.

**PRICES ON APPLICATION.**

WHEN WRITING MENTION THE FLOWERS' EXCHANGE

are now well set with bud and lock right for the Easter. The azaleas are being kept in an outside frame, having one steam pipe around it for cold nights. Lilies are a very good lot. In pots of fair height, being hard and well flowered. On this place are two new short-span-to-the-mouth houses, which present no perceptible difference is noted in growth of plants over those in outside houses, but the new houses are certainly much lighter and should thereby be better adapted for forcing plants.

**Growers.**

John Shellen, who has been steadily building the past few years, has now an establishment of fourteen houses, most of them 200 feet long, where he grows a large assortment of plants, mostly for his own store trade. In roses he grows best exclusively, chiefly Brideismad and Bride, and a house of carnations, for summer and fall work. In carnations he uses a large assortment, including all the newer varieties. Della Wix was seen here doing splendidly, producing long, stiff stems, with excellent flowers. Scott, Cartledge and McLowan are the main crop varieties. Jubilee has done fairly well, and will be grown more next season. Palms and rubbers are largely grown. In the latter half of the year, most of the latter has fallen off very much the past year. Crotons are being grown largely for the market trade, but it is being found better than in soil. In one of the houses a bench of Carnot roses was noticed. A house will be grown next season.

DAVID RUST

The Chrysanthemum Show of the Pennsylvania Horticultural Society will be held in Horticultural Hall November 9-13, 1937. The following list of exhibitors has been established: Premiums, namely, Thomas Cartledge, W. Allee Burpee, John G. Gardner, and W. K. Harris, recommended the adoption of the schedule for 1936 for the year of 1937, with the omission of a few classes which failed to attract. The number total of premiums to be offered for the coming show is \$3003, and to be divided: thirty-two premium plants, \$54; chrysanthemum flowers, \$409; foliage and flowering plants, ferns, etc., \$785; roses, carnations, violets, etc., \$292; fruits, \$14; vegetables, \$80. In addition to these, the usual special prizes are offered.

Cornelius H. premium list may be had from David Rust, Secretary, at Horticultural Hall.

**Knoxville, Tenn.**

CHAR. W. CROUCH has, with the majority of his southern friends, missed it with the carnations. The carnations that he made a big hit with California and Luxonno. It looks as if the single violet has been the best. In fact, the carnations, in some sections, had the double variety been depended on, growers would be badly left. The carnations are being sent to the bride and Brideismad on solid beds are very fine, while the new house built late in the fall, and planted with carnations and Daybreak carnations, is hard to beat.

Mr. Crouch the coming Summer will re-build his carnation house, and grow two or three more new ones. His business is increasing so fast that the thirteen houses he now has are not growing enough flowers to supply the demand.

C. L. BACBY is sending in some well-grown carnations, and expresses his good will content with season's business.

It would astonish many of my friends in the South that they should have so large number of flowers we cut each day. The weather here is beautiful, and we go

**H. C. STEINHOFF,**  
100 West Hoboken, N. J.

**Cleveland.**

**Trade Notes.**

Trade with some of the retail dealers in this city, while with others it remains very quiet. The usual period of dullness that accompanies the Lenten season manifests itself to a considerable degree, and in consequence lower prices and an abundance of stock are the result. A few interesting matters. The violet disease work are coming in, and these, of course, use up a small share of stock.

The supply of roses is moderate. Of American Beauty no good stock is offered; tea roses sell fairly well and bring 75c; \$2.00 per dozen, many very the bloom of Brunner, grown by Mr. Gasser, were seen. Dutch bulb stock finds slow sale and prices are very low. Hyacinth bring 75c to \$1.50; tulips and narcissus, 40c to 50c. Carnations and callas sell at \$1.00 to \$2.00; lilies, 75c, and \$1.00 per 100; valley, 50c and 75c per dozen.

Carnations are in good supply and the best stock brings but 25c. to 35c.

**Wholesale Notes.**

Growers experience considerable difficulty in finding market for their products and the prices realized are exceedingly low.

Carnation, best stock, bring but 60c to 75c per dozen, the best \$3.00 to \$5.00; lilies and narcissus, \$1.50; violets, 35c per 100; valley, \$2.00; nigellone, very best, \$2.00; Hyacinth callas, 60c. a dozen, roses, from \$2.00 to 35c.

Here and There,

Frank Wiedner, who for four years past has been with C. Ehardt, is now with W. H. Beaumont, Erie st.

Mr. and Mrs. J. M. Gasser, who for several weeks past have been traveling through the South, are now in Atlanta, Ga., and are expected home within the next couple of weeks.

Carl Hagenburger, Mentor, O., was admitted to membership of the Florists' Club at last meeting.

Editors in Iowa send us H. A. Bunyard, representing Pitcher & Manda, and A. T. Boddington, New York. G. A. T.

**Cambridge, Mass.**

W. E. Doyle is forcing some specimen hydrangeas, the demand for which promises to be heavy at Boston as heretofore. Lilacs are first class, but do off slowly, being used chiefly for store decoration. A batch of longidorm is in excellent shape.

F. C. Becker reports a very satisfactory run in the carnations. He has had a full bill of orders for Nephrolepis hostoniensis as a result of his advertising in the Exchange.

**For Sale.**

**LOCUST POSTS,** in different sizes, at 6 to 8 cts. per foot; delivered F. O. B. cars at station here.

**JAMES R. PITCHER,** Short Hills, N. J.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE

**Would Sell the Earth.**

I believe that to ad. to your papers would sell the earth.

C. HUMFELD.

Clay Center, March 20, '37.

**SITUATIONS WANTED.**

Rate, 10 cents per line (6 words), each insertion. Cash with order. This rate applies only to alterations and to advertisements for a limited period. When letters are addressed to our office do not enclose any money for forwarding.

WANTED, by experienced grower, married, a position on private place by Mar. 28. Grower. 23 Weirfield St., Brooklyn.

SITUATION wanted by young man, well posted on all matters pertaining to floriculture, especially in plants. Please state wages. Geo. Spenser, 2 North Street, West Roxbury, Massachusetts.

WHO WANTS a practical florist and gardener? W. thoroughly experienced in commercial business, with special knowledge of floriculture and retailing. Geo. Lester, Millbrook N. Y.

SITUATION wanted as foreman in commercial floriculture, by a floriculturist, well posted on all matters pertaining to floriculture. Please state wages. Arthur W. Kester, care Geo. S. Fancourt, Box 88, Wilkes B. Iron, Pa.

**SITUATION WANTED.**

By an experienced florist to work out a new profitable enterprise. No competition. Address DIETLER, 426 W. 42d City.

**HELP WANTED.**

WANTED As foreman, an experienced florist, rose-grower, tuber and reliable. Fully conversant with all phases of commercial plant. Address, with references, Thompson, care Florists' Exchange, N.Y. City.

**FLORISTS AND GARDENERS.**

Wanted, for private and commercial plants, superintendents, journeymen, assistants and apprentices. Write: West Coast Florists' Exchange, 100 California St., San Francisco, California.

**FLORIST WANTED AT ONCE.**

Capable, energetic and Christian, to take 600 feet place on shore. Will sell all interest. Good times. Write: W. O. DAVIS, 30 Beta, Pa.

**WANTED.**

A quick and steady man for a small commercial place near New York City. Must be a good designer. German preferred. Send references. Address

T. T., care Florists' Exchange.

**MISCELLANEOUS WANTS.**

**CAPITAL WANTED**

to patent, manufacture and introduce a **New Flower Pot.**

A new scientific principle, and a real floral money making novelty. Right parties can handle U. S. and foreign patents. Please state references. Thorough examination shows the way clear. Address

S. E. GARDNER, Washington, N. J.

**WANTED!**

Double E. Musk and Peter Henderson Carnation plants.

ADDRESS

**HANZ & NEUMER,** Louisville, Ky.

**WANTED.**

**HARDY EVER-BLOOMING ROSES.** Strong stock in exchange for California Esculentum. 5-in. cal. at \$2.50 per 100; 4-in. cal. at \$2.00 per 100; 3-in. cal. at \$1.50 per 100; all sizes, at \$6.00 per 100; all sizes Fruit, Evergreen, shade Trees and Shrubs.

W. P. BRINTON, Christiansia, Pa.

**GREENHOUSES and LAND.**

**GREENHOUSES FOR RENT.**

In thriving Western New York city. \$3,000 ft. glass, 50,000 sq. ft. space, business good, well protected, reliable, permanent tenant, rent \$2 month. Address Greenhouse, Care, Buffalo, N. Y.

**FOR SALE CHEAP**

100,000 feet of as well as all sizes stock, convenient to the city. Good man and dwelling for foreman. Price \$250.00. Write to: Florists' Exchange, 100 California St., San Francisco, California.

WHEN WRITING MENTION THE FLOWERS' EXCHANGE

**TRADE follows wherever the "Florists' Exchange" goes, and the "Florists' Exchange Special" will go wherever the "Florists' Exchange" goes.**

NEW ROSE NEW HYBRID TEA ROSE

Gov. du President Carnot.

It Grows! It Blooms! It Sells!

STRONG PLANTS, FROM 2-1-2 INCH POTS, READY NOW.

\$15.00 per 100; \$125 per 1000.

At our Model Farm, Carnot has stood 3 degrees below zero without protection. We have a limited stock of strong Carnots from 4 inch and 5 inch pots, splendid plants for Spring sales to the amateur.

Price, 4 inch pots, \$25.00 per hundred. " 5 " 35.00 "

President Carnot.

Strong, healthy plants (none finer), out of 2 1/2 inch pots, ready for immediate shift in larger size.

PRICE:—\$3.00 per doz. 15.00 " 100. 125.00 " 1000.

ROBT. SCOTT & SON, 19th and Catharine Sts., Phila.

ERNST G. ASMUS, West Hoboken, N. J.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

Indianapolis.

ANTHONY WIGAND has long considered the advisability of raising a batch of palms from certain to certain sizes, purchasing good home-grown stock, with which to experiment. The result of one season has been so satisfactory that, with the same feeling which one has of a great cure, he is anxious to tell it for the benefit of others. His method is very similar to that of the Belgians, with the exception that in this case the plants are planted out in beds for a year, during which they make rapid growth, and being planted widely apart grow bushy as well as tall. In early fall they are taken up with a nice ball, potted and plunged in a hotbed frame, where they are allowed to remain for a few weeks until rooted through, to be then transferred into a cool house to be hardened off. This seems to be very satisfactory, as no complications have been received of the several hundreds sold locally this season. It is not a good system, however, for shipping purposes, as the plants being tender, easily blight and require a hotbed or receipt to start them up, which means considerable time and trouble. H. W. RIEMAN has purchased his brother's interest in the business, and intends purchasing the retail branch still more. He has a good supply for local sale, particularly a fine batch of cyclamen and primulas.

BERTRAM BROS. report a very satisfactory season, especially in plants and carnations. John is sending to some fine-grown bulbous stock. W. M.

DON'T delay. Send in your ad. for our Spring Special at once.

Fine Healthy Stock of

Brides, 'Maids, . . .

. . . Perles, Meteors.

From 2 1/2 inch pots, ready for shifting, \$4.00 per hundred.

JOHN HENDERSON CO. Fishing, N. Y.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

ROSES.

- Roses. Strong plants, 2 1/2 in. pots, \$2.25 per 100 \$20.00 per 1000. By mail, 25 cts. per 100 additional.
- Argentine Queen
- Archduke Charles
- Ben Siles
- Bismarck
- Brilliant
- Camille
- C. Souper
- D. of Saxe
- Devotional
- Edouard
- Empress
- Ernest Reiz
- Flole de Lyon
- Frederic
- Gen. Trier
- Henry M. Stanley
- La Paquette
- La Princesse Vera
- M. Niel

HIBISCUS, 12 varieties, prices same as roses.

TERMS CASH WITH ORDER.

R. H. MURPHY, Urbana, Ohio.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

LOOK HERE

The following plants are in A1 condition. ROSES, out of 2 1/2 pots. Bismarck and Bride, \$1.50 per 100; \$3.00 per 1000; Meteor and Perle, \$1.00 per 100; \$2.00 per 1000. Mixed Ferns, out of 2 1/2 in. pots, \$1.00 per 100; \$2.00 per 1000. Marie Louise Victoria, rooted runners, 50c. per 100; \$1.00 per 1000. Terms Cash or C. O. D.

C. MERKEL & SON, Mentor, Ohio.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

AM. BEAUTIES

2 and 2 1/2 inch pots.

PALMS

Arceas, Kentias, Lantanias.

See large ad last week.

JOSEPH HEACOCK, Wyncote, Pa.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

PRESIDENT CARNOT

NEW ROSE OF THE SEASON

A1 stock now ready at \$15.00 per 100, or \$125.00 per 1000. Also all the standard varieties of Roses now ready in A1 stock. Also

Carnations and Chrysanthemums.

JOHN N. MAY, Summit, New Jersey.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

CHAS. W. REIMERS

ROSES. Strong, healthy. From 2 1/2-inch pots. La France, Bride, Mermel, Bismarck, \$3.00 per 100; \$30.00 per 1000. Hermon, Hump Ho-te, O'Leilde Souper, Argentea, Duchess of Albany, \$2.00 per 100.

CARNATIONS.

No. 1st. \$2 1/2 inch pots. Wm. Scott, Lizzie McGowan, \$2.00 per 100. \$20.00 per 1000. Paribus, \$2.00 per 100; \$16.00 per 1000.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

REINBERG BROS.

Strong, Healthy Roses From 2 1/2 inch pots.

AMERICAN BEAUTY, \$5.00 per 100; \$50.00 per 1000. GOLDEN GATE, PERLE, BELLE SIEBRECHT, \$5.00 per 100; \$50.00 per 1000. AND LA FRANCE, \$3.00 per 100; \$25.00 per 1000. No orders for less than 100 of one variety accepted. We are the largest Rose growers in the United States, and can fill all orders with the very best stock. TESTOUT, \$3.00 per 100; \$30.00 per 1000.

Rose Cuttings, \$1.50 per 100; American Beauty, \$2.50 per 100.

CARNATIONS—Rooted Cuttings.

IVORY and BELLA FOX \$3.00 per 100; \$30.00 per 1000. ROSE QUEEN, \$2.50 per 100; \$25.00 per 1000. WM. SCOTT, DAYBREAK, NANCY WANKS, TIDAL WAVE, ALBERT, PORT, LIZZIE GILBERT, CORA, LIZZIE MCGOWAN, STORM KING and SILVER SPRAY.

\$1.00 per 100; \$5.00 per 1000. No orders for less than 100 of any variety accepted. Special Prices on large lots. The above stock is well rooted and free from rust. Send orders to

51 WABASH AVE., CHICAGO, ILLS.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

President Carnot Rose.

We won First Premium with this rose at the great Indianapolis MM show last November, with stems from 3/4 to 4 1/2 long. We have a nice stock of own roots and graded plants. Write for prices.

W. W. COLES, Maple Hill Rose Farm, KOKOMO, IND.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

AM. BEAUTIES

2 and 2 1/2 inch pots.

See large ad last week.

JOSEPH HEACOCK, Wyncote, Pa.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

PRESIDENT CARNOT

NEW ROSE OF THE SEASON

A1 stock now ready at \$15.00 per 100, or \$125.00 per 1000. Also all the standard varieties of Roses now ready in A1 stock. Also

Carnations and Chrysanthemums.

JOHN N. MAY, Summit, New Jersey.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

CHAS. W. REIMERS

ROSES. Strong, healthy. From 2 1/2-inch pots. La France, Bride, Mermel, Bismarck, \$3.00 per 100; \$30.00 per 1000. Hermon, Hump Ho-te, O'Leilde Souper, Argentea, Duchess of Albany, \$2.00 per 100.

CARNATIONS.

No. 1st. \$2 1/2 inch pots. Wm. Scott, Lizzie McGowan, \$2.00 per 100. \$20.00 per 1000. Paribus, \$2.00 per 100; \$16.00 per 1000.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

REINBERG BROS.

Strong, Healthy Roses From 2 1/2 inch pots.

AMERICAN BEAUTY, \$5.00 per 100; \$50.00 per 1000. GOLDEN GATE, PERLE, BELLE SIEBRECHT, \$5.00 per 100; \$50.00 per 1000. AND LA FRANCE, \$3.00 per 100; \$25.00 per 1000. No orders for less than 100 of one variety accepted. We are the largest Rose growers in the United States, and can fill all orders with the very best stock. TESTOUT, \$3.00 per 100; \$30.00 per 1000.

Rose Cuttings, \$1.50 per 100; American Beauty, \$2.50 per 100.

CARNATIONS—Rooted Cuttings.

IVORY and BELLA FOX \$3.00 per 100; \$30.00 per 1000. ROSE QUEEN, \$2.50 per 100; \$25.00 per 1000. WM. SCOTT, DAYBREAK, NANCY WANKS, TIDAL WAVE, ALBERT, PORT, LIZZIE GILBERT, CORA, LIZZIE MCGOWAN, STORM KING and SILVER SPRAY.

\$1.00 per 100; \$5.00 per 1000. No orders for less than 100 of any variety accepted. Special Prices on large lots. The above stock is well rooted and free from rust. Send orders to

51 WABASH AVE., CHICAGO, ILLS.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE



SNIPS Here. The best for florists, hotel, florists, gardeners, etc. Kelly's Florists' Shears and Flower Cutters. 150 N. Front St., Fremont, Ohio.

SPECIAL FINE STOCK ROSES

Table with 2 columns: Rose variety and Price per 100. Includes Bride, Bismarck, Perle, etc.

CASH WITH ORDER.

WM. C. SMITH, 61st and Market Sts., Phila.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

A FEW THOUSAND MORE

Brides, 'Maids and Perles

than 18 plants in my own use. I send plants in 2 1/2 pots, at \$5.00 per 100. Who wants them?

CASH WITH ORDER.

BENJAMIN DORRANCE, Dorrance, Penn.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

Sterling American Novelty, the

WHITE COCHET

Is a sport from Mammoth Cochet, which is considered to be the best pink out-of-door rose. It has all the good qualities of its parent. Its color is pure white and no doubt it will prove the best white out-of-door rose up to date.

Price, per dozen, from 4 inch, \$5.00 " 100, " 4 " 25.00. All Orders must be Accompanied with Cash.

J. COOK, 318 CHARLES Baltimore, Md.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

...ROSES...

From 2 1/2 in. pots, strong and in excellent shape, \$2.00 per 100; \$20.00 per 1000. Bride, Bismarck, H. M. Stanley, M. Niel, Hermon, La France, J. K. Winkler, Grand Chancellor, La Favorite, etc. Price, per dozen, \$4.00 per 100; \$40.00 per 1000. EMPRESS OF CHINA—The new everblooming hardy pink Climber, proves as rapidly as MURPHY'S Grand to become popular. \$3.00 per 100; \$30.00 per 1000.

...GERANIUMS...

The very best varieties, strong plants, from 2 1/2 in. pots, ready to shift in 4 in., \$2.50 per 100; \$25.00 per 1000. One New Seedling Geranium, Julia A. Doyle — the best of the class as it is superior in color, size of the petals, and the shape of the flower, and branching habit in short but in the good quality of the foliage. \$2.00 per 100; \$20.00 per 1000. J. A. DOYLE, - Springfield, Ohio.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

# Ten Degrees Below Zero

is the temperature that has been undergone without injury by unprotected yearling plants of the new climbing rose

# AGLAIA OR YELLOW RAMBLER

in our nurseries the past Winter, thus proving it to be even harder than we had supposed.

## A Hardy Yellow Climbing Rose

is what everyone has wanted for years and Aglaia is, therefore, an immensely important introduction.

## 150 Blossoms in a Bunch

have frequently been produced by the Yellow Rambler, for it has the same manner of blooming in splendid big clusters as does the Crimson Rambler to which it is a splendid companion rose and probably related. The color is a clear decided yellow; the flowers of moderate size, very fragrant and last three to four weeks. The habit of growth is very vigorous, well established plants making shoots eight to ten feet high in a season.

## We are the Introducers

of this rose in this country, having been so appointed by Mr. Peter Lambert, the originator.

We are also prepared to offer plants of two other valuable climbing roses:

## EUPHROSYNE or PINK RAMBLER

Color a clear light red; otherwise very similar to Aglaia.

## THALIA or WHITE RAMBLER

Pure white; same style and habit as Aglaia.

# WE WANT EVERY FLORIST

to handle these three roses among his customers and to everyone who will do so, agreeing to depend upon us for his supply of plants.

## WE WILL SEND FREE OF CHARGE

a beautiful colorotype plate illustrating the Aglaia, together with 100 handsome descriptive circulars with name and address stamped upon them. Send at once.

Price for strong plants from 2½ inch pots, **\$15.00 per 100.**

Send for our Trade Lists of other Roses and General Stock.

# JACKSON & PERKINS CO.

NEWARK, Wayne Co., NEW YORK.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

# 2c. ROSES 2c.

Strong Young Plants, 2½-inch Pots.

QUALITY OF STOCK GUARANTEED.

### FOLLOWING LIST, \$2.25 per 100; \$20.00 per 1000.

Bride	Andre Schwartz	Mme. Elie Lam-berl
Bridesmaid	Saffrao	Crown Princess
Mme. J. Schwartz	Pink Souperet	Victoria
Marie Lambert	Marie Van Houtte	Climbers
Coquette de Lyon	Marie Guillot	Empress of China
Cloithide Souperet	Etoile de Lyon	Mary Washington
Grand Duchess	Bon Silence	Chl. Devontensis
Hilda	Richard	Lamarque
Duchess of Edin-burg	Lady Warendor	Henriette
President	Marquis de Vivian	M. Niel
La Pactole	Riza du Parc	
	Cameois	

### FOLLOWING LIST, \$2.75 per 100; \$25.00 per 1000.

Hermosa	Chromatella	Sen. McNaughton
Brabant	C. Cook	Maman Cochet
Merciel	Snow Flake	The Queen
Mme. F. Kruger	Louise de La Rive	Rubens
Agrippina	Mme. Welche	Yellow Hermosa
Mme. Plantier	Alfd Rougemont	Miss Wren
Lucillus	J. B. Yvonne	Malmaison
Victory China	Folkstone	

### CLIMBERS.

C. La France	Mme. C. Custer	Solfaterre
Prairie Queen	W. A. Richardson	Augusta

### FOLLOWING LIST, \$3.25 per 100; \$30.00 per 1000.

Mme. Hoste	Perle des Jardins	Mme. C. Testout
Golden Gate	Sunset	Niphetos
Mrs. De Graw	Meteor	Christine de Noug
Beaute Inconstant	Woolton	Duchess of Albany
Goutier	Kaiserin Augusta	Belle Siechrecht
La France	Victoria	Mme. P. Morgan

### CLIMBERS.

Climbing Perle	\$3.25 per 100; \$30.00 per 1000
Gloire de Dijon	\$3.50 per 100
Crimson Rambler	4.00 " 100

Write for prices on 3 and 4-inch stock.

### \$3.00 per 100. GERANIUMS \$3.00 per 100.

Heteranthe	White Swan	De Brazee
Emerson	Mountain of Snow	Re Umberto
Le Contable	Harriet Thorpe	Gripper Banks
Emily de Girardin	Gold Dust	S. A. Sull

Fine variety, our selection. \$25.00 per 1000.

### \$2.75 per 100. CHRYSANTHEMUMS \$2.75 per 100

Geo. Bramball	Niveus	The Queen
Golden Gate	Major Bonnafon	Enfant des deux
Ivory	Titian	Monde
M. Aristee	Inter-Ocean	Col. W. B. Smith

Fine variety, our own selection \$2.00 per 100.

### \$3.00 per 100. HELIOTROPES \$3.00 per 100.

Mme. Bruant	Albert Deleaux	Dark Bouquet
White Lady		Juliet

### \$4.00 per 100. BEGONIAS \$4.00 per 100.

President Carnot	M. de Lesseps	Thurston
Wetstein	Argentea Gutata	Clementina
Robert George	Monge	Mme. Treyoe

Bertha C. Rocher	\$3.00 per 100.	Robusta
Alba Perfecta	Sanderout	Feastil
Mulliflora		
Rex Begonias in variety,	\$4.00 per 100.	

MEXICAN PIRIROSUS	\$2.50 per 100
SANSEYERA ZEYLANICA, 2½ inch, extra large plants,	4.00 " 100
" " " " " "	3½ " 100
" " " " " "	6.00 " 100

TERMS: Cash with Order.

# THE NATIONAL PLANT CO.

DAYTON, OHIO, U. S. A.

**J. K. ALLEN,**  
Wholesale Commission Dealer in  
**CUT FLOWERS,**  
57 W. 28th St., New York.  
Orders by mail or telegraph promptly attended to.  
Telephone Call, 302 28th St.  
ROSES AND VIOLETS SPECIALTIES.

**W. S. ALLEN,**  
17 West 28th St., New York.  
Correspondence Solicited.

**FITZGERALD & HAMMOND,**  
(Late with THRO, ROHRS),  
Wholesale Commission Dealers in  
**CUT FLOWERS,**  
115 West 30th Street,  
Consignments Solicited. NEW YORK.

**FORD BROS.**  
**WHOLESALE FLORISTS,**  
111 West 30th Street,  
NEW YORK.  
Consignments Solicited. Telephone 202 30th St.

**WM. H. GUNTHER,**  
**Wholesale Florist**  
VIOLETS AND CARNATIONS A SPECIALTY.  
Consignments Solicited.  
30 West 29th St., New York.  
Telephone, 230-28th Street.

**MICHAEL A. HART,**  
**Wholesale & Commission Florist,**  
118 W. 80th St., New York.  
Telephone Call, 107 80th St.  
All kinds of Roses, Violets and Carnations a Specialty.  
**ORDERS PROMPTLY ATTENDED TO.**

**H. A. HOFFMANN,**  
**Wholesale Florist**  
54 W. 28th St., NEW YORK.  
Telephone Call, 187 28th St.  
American Beauties, Carnations, White Violets,  
Specialties. CONSIGNMENTS SOLICITED.

**EDWARD C. HORAN,**  
**WHOLESALE FLORIST,**  
No. 34 W. 29th St., New York.  
The Bride, Mornnet and American Beauty Specialties.

**JULIUS LANG,**  
**Wholesale Florist**  
53 WEST 30th ST.  
Consignments Solicited. NEW YORK.

**FRANK HILLANG,**  
**Wholesale Commission Dealer**  
...in Cut Flowers...  
408 East 34th St., New York City.  
Telephone Call, 1654-31th.

**EASTER! APRIL 18th EASTER!**  
CUT FLOWERS, SMILAX, and FERNS, HARRISII, CALLAS,  
TULIPS, HYACINTHS, ROSES, CARNATIONS, VALLEY,  
D. FODDLS, ETC.  
We are ready to quote prices on all Cut Flowers. All orders promptly attended to. Write us.  
**W. E. LYNCH, 19-21 Randolph St., Chicago, Ill.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**BASSETT & WASHBURN,**  
Growers and Wholesale Dealers in CUT FLOWERS.  
We grow the finest of American Beauties and other Roses. Also choice selected Valley all the year round. Carnations, Smilax, Adiantum, etc., fresh cut. Long Distance Telephone, Main 223.  
**88, 90, 92 Washburn Avenue, CHICAGO, III.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE



NAME AND VARIETY.	NEW YORK		BOSTON		PHILADELPHIA		CHICAGO		ST. LOUIS	
	Mar. 26, 1897.	Mar. 24, 1897	Mar. 24, 1897	Mar. 24, 1897	Mar. 24, 1897	Mar. 24, 1897	Mar. 24, 1897	Mar. 24, 1897	Mar. 24, 1897.	Mar. 24, 1897.
A. Beauty, fancy and special.	35.00 to 40.00	30.00 to 35.00	...	...	...	...	...	...	...	...
ALICE	15.00 to 20.00	10.00 to 15.00	...	...	...	...	...	...	...	...
No. 1.	10.00 to 15.00	5.00 to 10.00	...	...	...	...	...	...	...	...
Cuts and ordinary.	2.00 to 3.00	1.00 to 2.00	...	...	...	...	...	...	...	...
Bennett, Quail.	1.50 to 2.00	1.00 to 1.50	...	...	...	...	...	...	...	...
Bridalmaid.	1.50 to 2.00	1.00 to 1.50	...	...	...	...	...	...	...	...
Bridalmaid.	1.50 to 2.00	1.00 to 1.50	...	...	...	...	...	...	...	...
Accumulation.	4.00 to 5.00	3.00 to 4.00	...	...	...	...	...	...	...	...
E. & Victoria.	...	...	...	...	...	...	...	...	...	...
La France, extra.	...	...	...	...	...	...	...	...	...	...
Ordinary.	...	...	...	...	...	...	...	...	...	...
Magna Charta.	...	...	...	...	...	...	...	...	...	...
Blue Footed.	...	...	...	...	...	...	...	...	...	...
Meteor.	3.00 to 5.00	4.00 to 10.00	...	...	...	...	...	...	...	...
Mrs. F. Morgan.	2.00 to 4.00	...	...	...	...	...	...	...	...	...
Nightingale.	...	...	...	...	...	...	...	...	...	...
Papa Gontier.	...	...	...	...	...	...	...	...	...	...
Perle.	1.50 to 2.00	1.00 to 1.50	...	...	...	...	...	...	...	...
Soleil de Westonia.	...	...	...	...	...	...	...	...	...	...
Utah Breeze.	8.00 to 20.00	13.00 to 15.00	...	...	...	...	...	...	...	...
Waterfall.	...	...	...	...	...	...	...	...	...	...
AGLANTIS.	75 to 1.00	...	...	...	...	...	...	...	...	...
AGLANTIS.	...	...	...	...	...	...	...	...	...	...
CALLAS.	3.00 to 5.00	4.00 to 5.00	...	...	...	...	...	...	...	...
All colors, inferior grades.	...	...	...	...	...	...	...	...	...	...
STANDARD (White).	75 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
RED.	1.00 to 1.50	75 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
VARIABLES (Red).	...	...	...	...	...	...	...	...	...	...
* FANCY (Yel. & Var.)	1.00 to 2.00	1.25 to 2.00	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
(The highest) Pink.	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00
(The highest) Blue.	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00
(And varieties) (Yel. & Var.)	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00
NOVELTIES.	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00
CUTLEAVES.	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00
LEAF.	...	...	...	...	...	...	...	...	...	...
AGLANTIS.	...	...	...	...	...	...	...	...	...	...
LEAF OF THE VALLEY.	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
MIGNONETTE.	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00
NARCISSE.	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
ROMAN DOLLON SPIN.	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00
ROMAN HYACINTHS.	...	...	...	...	...	...	...	...	...	...
SMILAX.	8.00 to 15.00	10.00 to 16.00	...	...	...	...	...	...	...	...
VIOLETS.	...	...	...	...	...	...	...	...	...	...

For Prices of Fancy and Special Stock see our Correspondence Columns.  
Prices are for quantities of one hundred unless otherwise noted.  
Prices quoted above are given only after very careful inquiry, and while we do not guarantee their accuracy, they will be found practically correct up to the date mentioned.

**REINBERG BROS.,** Wholesale Growers of Cut Flowers. .  
... 500,000 Feet of Glass. .  
We can fill all orders on short notice with all leading varieties of ROSES and CARNATIONS. We are headquarters for fine AMERICAN BEAUTIES. Give us a trial and convince yourself!  
**SALESROOM 51 Wabash Avenue, CHICAGO, III.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**SAMUEL S. PENNOCK,** WHOLESALE FLORIST.  
...FINE...  
**BRUNNERS**  
NOW IN. ALSO GOOD ASSORTMENT OF OTHER ROSES. BEST STOCK.  
We are still headquarters for finest and best varieties of CARNATIONS.  
**1612-1614 Barker St. (bet. Chestnut & Market St.) Philadelphia, Pa.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Illinois Cut Flower Co.,**  
J. B. DEAMUD, Manager.  
WHOLESALE COMMISSION FLORISTS,  
69 Wabash Ave., Chicago.  
Consignments Solicited.

**KENNICOTT BROS. COMPANY,**  
**Wholesale - Cut - Flowers,**  
88 Wabash Avenue,  
CHICAGO, ILL.  
WIRE WORK A SPECIALTY.

**THE NEW YORK CUT FLOWER CO.**  
119-121 West 23d Street,  
112-114 West 24th Street,  
Telephone 73, 10th St. NEW YORK.  
THE LARGEST DEALERS IN CUT FLOWERS IN THE WORLD...

**PURDY & BLAUVELT,**  
Wholesale and Commission Dealers in  
**CUT FLOWERS**  
MATERIAL FERN FLOWERS A SPECIALTY.  
57 WEST 30TH STREET,  
Bet. Broadway & 6th Ave. NEW YORK.

**A. & F. ROLKER,**  
WHOLESALE DEALERS IN  
**CUT FLOWERS**  
53 West 28th St.  
Telephone 2379 38th St. NEW YORK.

**W. F. SHERIDAN,**  
Wholesale Commission Dealer in  
**CUT FLOWERS**  
39 West 28th St., New York.  
Telephone, 214-28th St.  
PRICE LIST SENT ON APPLICATION.

FRANK H. TRAPPY, CHAIRMAN OF THE BOARD.  
**TRENDLY & SCHENCK,**  
Wholesale Florists,  
38 W. 28th St., and CUT FLOWER EXCHANGE,  
NEW YORK.  
Telephone 93-18th St.  
\* Consignments Solicited.

**JOHN YOUNG,**  
**Wholesale Florist,**  
51 WEST 28th ST.,  
NEW YORK.

**WM. J. BAKER,**  
**Wholesale Florist**  
1432 So. Penn Square,  
Philadelphia, Pa.

**DUMONT & CO.,**  
**WHOLESALE FLORISTS**  
CARNATIONS A SPECIALTY.  
No. 1305 Filbert St., Philadelphia.

**EDWARD REID,**  
**Wholesale Florist**  
— FINEST VARIETIES —  
Roses, Carnations, Violets.  
No. 40 South Sixteenth Street,  
Leeds and Leary.  
Philadelphia.

**CHARLES W. MCKELLAR,**  
59 Wabash Ave., CHICAGO.  
**Wholesale Commission Florist.**  
\* All consignments and orders entrusted to our care will be given prompt and careful attention. Ed. F. Winterston, Mgr.

**Wholesale Florists**  
 JOBBERS IN  
 FLORIST'S  
 SUPPLIES.

**FLORISTS' VASES.**  
 Horticultural Anclometers,  
 84 HAWLEY STREET, - BOSTON.

**GEORGE MULLEN,**  
 Wholesale and Commission Dealer in  
**Cut Flowers.**  
 Best stock and lowest prices. Orders by  
 mail, express, telegraph, or tele-  
 phone promptly attended to.  
 GEORGE MULLEN 18 Chapman Place, Boston.

**GEO. A. SUTHERLAND,**  
 Successor to Wm. J. Stewart,  
**CUT FLOWERS and FLORISTS' SUPPLIES**  
 WHOLESALE.  
 67 Bromfield St., Boston, Mass.

**City Hall Cut Flower Market**  
 WELCH BROS., Props.  
 Regular Consignors Given Space Free  
 of Charge. Space let to growers wishing  
 to sell their own goods.  
 Flowers Shipped in All Points.  
 ...SEND FOR PRICE LIST...

**W. ELLISON,**  
 Wholesale Cut Flowers,  
 Florist Supplies. Wire Designs.  
 2744 Franklin Ave., ST. LOUIS, MO.

**CHAS. G. FLECKENSTEIN,**  
 Wholesale Flowers,  
 1323 PINE STREET,  
 ...ST. LOUIS, MO.

**C. A. KUEHN,**  
 Successor to ELLISON & KUEHN,  
**WHOLESALE FLORIST,**  
 1123 Pine St., St. Louis, Mo.  
 A COMPLETE LINE OF WIRE DESIGNS.

**C. W. WORS,**  
 Wholesale Florist,  
 313 N. LEFFINGWELL AVENUE,  
 ST. LOUIS, MO.  
 FINE ROSES—Shipped carefully to all  
 parts of the country.

**HEADQUARTERS** In Western  
 New York.  
 TRY US  
**ROSES, CARNATIONS,**  
**AND VIOLETS**  
**WM. F. KASTING** Wholesale  
 495 Washington Street, Commission  
 BUFFALO, N. Y. Florist.

**ROGERS PARK FLORAL CO.,**  
 Wholesale Growers of Cut Flowers  
 OFFICE and GALLERY,  
 41 WABASH AVE., CHICAGO.  
 Headquarters for AMERICAN BEAUTIES.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**75 Cts. per 100 lbs.**  
 Bales weigh about 40 lbs.  
 THE BEST and STRONGEST MADE BY PRESS,  
 WITH RUBBER TYPING. You can get the best of  
 It A. Stoughton, 315 Madison Ave., N. Y.

**ASPARAGUS PLUMOSUS NANS,**  
 Cut Strigs, 8 to 10 feet long,  
 50 cts. each.  
 Shipped to all parts of the  
 country.  
**W. H. ELLIOTT,** - Brighton, Mass.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**SMILAX FOR EASTER**  
 Fine heavy strigs, only 15c. per strig. Get  
 in your orders early. Cash with order.  
**A. J. BALDWIN,** Newark, Ohio.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**GALAX LEAVES and**  
**LEUCOTHOE SPRAYS...**  
 FOR EASTER  
 WHOLESALE FLORISTS should order a  
 good supply now and be prepared for the rush later.  
 Write the advertiser at once for special prices.  
 Telegraph address: Kelsey, Cranberry, N. C.  
**KENNEL NURSERY, KAWANA, N. C.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CUT ROSES.**  
 Fine BRIDE, BRIDESMAID  
 and PERLE on short notice.  
 Give us a trial.  
**THE NATIONAL PLANT CO.,** Dayton, Ohio.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**"SWEET ROSIE OGRADY"**  
 OR  
**ANYTHING**  
 IN  
**"ROSIES"**  
 CUT-FLOWERS  
 FLORISTS SEEDS  
 AND SUPPLIES  
**E. H. HUNT,** 411 W. 5th St., CHICAGO.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**M. RICE & CO.,**  
 Importers and Manufacturers of  
**FLORISTS' SUPPLIES,**  
 25 N. 4th St., Philadelphia, Pa.,  
 NEW FALL CATALOGUE NOW READY.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**W. C. CRICK'S**  
 Immortal Letters,  
 ETC.  
 Made and awarded at the World's  
 Exhibitions.  
 Awarded wherever  
 Exhibited.  
 These Letters are  
 made of the best  
 materials and  
 metal frames having  
 special devices for  
 to insert tooth-picks,  
 or which are easily  
 fastened in the de-  
 sired position by a  
 trial. You will find  
 these letters to be  
 superior in any  
 in the market.  
 In Letters, \$2.50  
 per 100. For other sizes of  
 letters, Emboss and Design, send for catalogue.  
 Before purchasing send for free trial sample and  
 compare with any other letter on the market.  
 For sale by all Florists' Supply Dealers.

**W. C. CRICK'S**  
 Immortal Letters,  
 ETC.  
 Made and awarded at the World's  
 Exhibitions.  
 Awarded wherever  
 Exhibited.  
 These Letters are  
 made of the best  
 materials and  
 metal frames having  
 special devices for  
 to insert tooth-picks,  
 or which are easily  
 fastened in the de-  
 sired position by a  
 trial. You will find  
 these letters to be  
 superior in any  
 in the market.  
 In Letters, \$2.50  
 per 100. For other sizes of  
 letters, Emboss and Design, send for catalogue.  
 Before purchasing send for free trial sample and  
 compare with any other letter on the market.  
 For sale by all Florists' Supply Dealers.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**YOU NEED**  
**WIRE WORK**  
 WE ARE LARGE MANUFACTURERS  
 IN THIS LINE.  
 Get Our Low List and Save Money.  
**ELLIS & POLLWORTH,**  
 Box 75, Milwaukee, Wis.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**ELLIS & POLLWORTH,**  
 Box 75, Milwaukee, Wis.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**JOHN CONLEY & SON,**  
 MANUFACTURERS OF  
**TIN FOIL,**  
 2 and 4 Dominick Street,  
 NEW YORK.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CHOCOLATE COOLER CO.,**  
 GRAND RAPIDS, MICH.  
 Manufacturers of  
**FLORISTS' REFRIGERATORS.**  
 Send for Circular.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Boston Florist Letter Co.**  
 MANUFACTURERS OF  
 FLORISTS' LETTERS  
 THE wooden box nicely stained and varnished, 10x30  
 1 1/2 made in two sections, one for each side, letter  
 1 1/2 made in one piece of 600 letters.  
 Each Letter, 1 1/2 x 2 1/2 inch, 10c, 25c  
 Small Letters, 1 1/2 inch  
 Features with each letter and  
 and by leading florists everywhere and for sale by all  
 wholesale florists and supply dealers.  
**N. F. MCCARTHY, Treas. & Manager.**  
 19 CHURCH ST. BOSTON, MASS. A. S. W. 21  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**MEYER GREEN SILKALINE.**  
 Used for Outriging SMILAX and ASPARAGUS

**SILKALINE**  
 MADE IN U.S.A.  
 Will not fade, or for like other copies. Many also in fancy  
 colors for trim purposes. Send for samples and prices.  
**J. GREEN & SONS, 250 N. W. 10th St.,**  
 87 Summer Street, BOSTON, MASS., U. S. A.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**W. C. CRICK'S**  
 Immortal Letters,  
 ETC.  
 Made and awarded at the World's  
 Exhibitions.  
 Awarded wherever  
 Exhibited.  
 These Letters are  
 made of the best  
 materials and  
 metal frames having  
 special devices for  
 to insert tooth-picks,  
 or which are easily  
 fastened in the de-  
 sired position by a  
 trial. You will find  
 these letters to be  
 superior in any  
 in the market.  
 In Letters, \$2.50  
 per 100. For other sizes of  
 letters, Emboss and Design, send for catalogue.  
 Before purchasing send for free trial sample and  
 compare with any other letter on the market.  
 For sale by all Florists' Supply Dealers.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**THE**  
**Perfect Flower Pot**  
**Handle and Hanger**  
 FOR USE  
 IN  
**FLORISTS' SUPPLIES**  
 No. 1  
 No. 2  
 No. 3  
 No. 4  
 No. 5  
 No. 6  
 No. 7  
 No. 8  
 No. 9  
 No. 10  
 No. 11  
 No. 12  
 No. 13  
 No. 14  
 No. 15  
 No. 16  
 No. 17  
 No. 18  
 No. 19  
 No. 20  
 No. 21  
 No. 22  
 No. 23  
 No. 24  
 No. 25  
 No. 26  
 No. 27  
 No. 28  
 No. 29  
 No. 30  
 No. 31  
 No. 32  
 No. 33  
 No. 34  
 No. 35  
 No. 36  
 No. 37  
 No. 38  
 No. 39  
 No. 40  
 No. 41  
 No. 42  
 No. 43  
 No. 44  
 No. 45  
 No. 46  
 No. 47  
 No. 48  
 No. 49  
 No. 50  
 No. 51  
 No. 52  
 No. 53  
 No. 54  
 No. 55  
 No. 56  
 No. 57  
 No. 58  
 No. 59  
 No. 60  
 No. 61  
 No. 62  
 No. 63  
 No. 64  
 No. 65  
 No. 66  
 No. 67  
 No. 68  
 No. 69  
 No. 70  
 No. 71  
 No. 72  
 No. 73  
 No. 74  
 No. 75  
 No. 76  
 No. 77  
 No. 78  
 No. 79  
 No. 80  
 No. 81  
 No. 82  
 No. 83  
 No. 84  
 No. 85  
 No. 86  
 No. 87  
 No. 88  
 No. 89  
 No. 90  
 No. 91  
 No. 92  
 No. 93  
 No. 94  
 No. 95  
 No. 96  
 No. 97  
 No. 98  
 No. 99  
 No. 100

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**W. C. CRICK, 1287 Broadway, Brooklyn, N. Y.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**American Dahlia Society.**  
 The annual Spring meeting of this Society  
 was held at Palmdale, California, Wednesday  
 evening, March 17, President C. W. Taylor,  
 Treasurer Burton reported the  
 Society to be in a prosperous condition,  
 with a large balance in the treasury.  
 Robert Craig was made an honorary mem-  
 ber. The following officers were unanim-  
 ously elected: Robert Craig, president;  
 Henry F. Mohell, vice president; E. Clifton  
 Taylor, 4227 Main St., Germantown, Pa.,  
 secretary; Frank C. Burton, treasurer;  
 A. Hinch, chairman of executive committee.  
 Henry Hicks, of New York City; G. S. Ward,  
 Quiseo, N. Y., and Samuel Moon,  
 Morrisville, Pa., were elected to membership.

The following gentlemen were appointed  
 a committee on Constitution and By-Laws  
 — Robert K. D. J. Clifton, E. Clifton  
 Taylor.  
 Mr. Ward was appointed a member of  
 the executive committee in place of J. D.  
 Eisler, resigned.  
 The committee was instructed to  
 have the schedule printed not later than  
 April 15.  
 The annual Fall exhibition will be held  
 Tuesday and Wednesday, September 21  
 and 22, at a hall to be decided upon later.  
 The meeting adjourned to convene in  
 regular session, September 21, 1897.  
 E. CLIFTON TAYLOR, Secretary.

**Newport, R. I.**  
 At the Horticultural Society's meeting,  
 held on the evening of the 10th inst., John  
 K. M. Le Parquier, of Boston, reported  
 the lecture which he, a few weeks ago,  
 delivered before the Boston Gardeners and  
 Florists' Club on "Recent Trip through  
 Europe." The lecture was illustrated by  
 means of the stereopticon, the instrument  
 being operated by James Parquhar.  
 At the close the unanimous thanks of  
 the Society was voted to the Messrs. Parquhar  
 for their most interesting entertainments.  
 Unfortunately the attendance of the mem-  
 bers was not what was to be expected, but  
 being outnumbered by the visitors.

On Thursday, March 11, President Adam  
 Grant, secretary Wm. J. Stewart and  
 John N. May, members of the executive  
 committee of the Society of American  
 Florists, waited upon the secretary of  
 the Newport Horticultural Society with the  
 cheering information that the committee,  
 in its meeting held on the evening of the 10th  
 to place one dozen medals, six of silver and  
 six of bronze, at the disposal of the New-  
 port Society, of which the President and  
 flowers to be held here in August at the  
 time of the S. A. F. convention. And, in  
 addition, Mr. May will offer a special  
 premium, not specified, and suggests that  
 it be offered for a collection of cannae in  
 tubs.  
 A meeting of the Executive Committee  
 of Newport's society will be held on Satur-  
 day evening, the 30th, to consider the  
 matter.  
 With such an offer the probability is  
 that there will be a grand show of new  
 and rare plants at that time.  
 A. MACLELLAN.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Toronto.**  
**JOHN H. DUNLOP** has already booked  
 several orders for the White Bougere rose,  
 and carnation Ontario. The carnation is  
 a fine variety, well adapted for design  
 work. The rose is an every day variety,  
 and is to the pink Bougere which is  
 to market. The cut and description in  
 the Exchange do not do the subject  
 justice; they should be seen to be fully  
 appreciated. Mr. Dunlop will have a  
 stand out for Easter. I doubt if his stock  
 ever looked better than at the present  
 time.  
 W. M.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# Clear Cypress Greenhouse Material.

This with us means the best growth of Cypress Lumber and the best grade of that growth; and from this grade all the sap-bright sap, which only experts can detect—as well as stained sap, knots and other defects cut out. Others do not equal our quality if they do beat our prices. It is not hard to see the reason: You can not buy gold dollars at fifty cents each. Experienced growers know that the best is not too good and cheapest in the long run.

Write for Circulars or Estimates.

**Lockland Lumber Co.,**  
LOCKLAND, O.

**JOHN N. JACKSON, Successor to JACKSON BROS.** Established 1828  
NEW YORK STATE DRAIN TILE AND PIPE WORKS. Sole Office, 11 THIRD AVE., ALBANY, N. Y.  
**ROUND TILE**  
Manufacturers of all kinds of Agricultural Drain Tile, Best Glazed Sewer Pipe, Red Pressed Brick, Mortar Colors, Fire Brick, Oven Tile, Chimney and Fire Linings, Culinary Tiles, Fire Clay Store Pipe, Fire Clay, Kaolin, Encaustic sidewalk Tile, Bonaparte and Portland Cement, Lime, Fertilizer, etc.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Standard Flower Pots.**  
Send for our New Price List with extra discounts. All our Pots, from 7 1/2 in. and upwards, have our Patent Elevator Bottom, which is a great advantage, as it insures perfect drainage.  
A FULL LINE OF BULB PANS.  
**THE WHILDIN POTTERY CO.,** 713 to 719 Wharton Street, PHILADELPHIA.  
BRANCH HOUSES: 1 Kenway and Westside Aves., Jersey City, N. J.  
1 Jackson Ave. and Pearson St., Long Island City, N. Y.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**FLOWER POTS**  
We're Manufacturing a Full Line of  
**STANDARD FLOWER POTS and HANGING BASKETS**  
OF THE BEST QUALITY.  
Shipping Facilities First-Class, thereby Securing Lowest Freight Rates.  
Our goods are well packed, and breakage is nominal. Give us a trial. Send for Price List.  
Address **THE SYRACUSE POTTERY CO.,** 403 N. SALINA ST., SYRACUSE, N. Y.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

SEND FOR OUR NEW CATALOGUE, WHICH SHOWS  
**The New Automatic Cable Ventilator**  
As it is not up to the house complete. We also give new prices with a guarantee that each machine sent up will operate your house successfully. 801 machines now made in two sizes.  
**A. Q. WOLF & BRO.,** Dayton, Ohio.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**GREAT REDUCTION IN PRICE.**  
On account of the consolidation of the two firms—Rider Engine Company and the Lamelar Iron Works, which have heretofore manufactured the **RIDER & ERICSSON HOT AIR PUMPING ENGINE**  
A great reduction in price has been made, and the enlarged and improved facilities enable the new firm to produce a better engine than ever before offered for securing an abundant water supply for all purposes on Dairy, Stock and other farms, and for country seats, city residences, etc.  
New catalogues are ready, and will be sent to those who ask for them.  
**RIDER-ERICSSON ENGINE CO.,**  
29 Cortland St., New York, N. Y. 29 Lake St., Chicago, Ill.  
191 & 193 Hill St., Boston, Mass. 29 & 31 N. 7th St., Phila., Pa.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**THE JOHN J. PETERS COMPANY**  
(INCORPORATED)  
**PULVERIZED COMPRESSED**  
A Quick Germinator and Crop Forcer.  
Pure Sheep Fertilizer permanently improves the soil.  
Matures the largest and best crops. Quick and lasting in its action.  
**CLEAN TO HANDLE.**  
FACTORY: Little Ferry, New Jersey.  
OFFICE: Long Island City, New York.  
**NATURAL. ODORLESS**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

- CATALOGUES RECEIVED.**  
GEORGE H. MASS, Woodstock, Vt.—Catalogue of Greenhouse and Bedding Plants, Flower and Vegetable Seeds, Horticultural.  
STEPHEN HOYT'S SONS, New Canaan, Conn.—Wholesale Price List of Nursery Stock.  
CHESTNUT HILL NURSERY, Montclair, N. J. (E. & J. C. Williams)—Catalogue and Price List of Fruit and Ornamental Trees, Vines, Plants, etc.  
Wm. L. SWAN, Oyster Bay, N. Y.—Wholesale Price List of Plants, Root Cuttings, etc.  
A. GOFFERIE, 415 East Thirty-fourth st., New York.—Catalogue of Flower and Vegetable Seeds.  
SCHLEGEL & FOTTLER, Boston.—Special Price List of Seeds.  
J. A. SARGENT, Toronto, Ont.—General Annual Seed Catalogue, fully illustrated.  
LEWIS ROSECH, Fredonia, N. Y.—Catalogue of Fruit and Deciduous Trees, Shrubs, Plants, etc.  
W. ALTEE BURPEE & Co., Philadelphia.—Manual of Thoroughbred Live Stock and Fancy Poultry.  
I. L. PILLSBURY, Galeburg, Ill.—Price List of Plants and Rooted Cuttings.  
A. TILTON & SON, Cleveland, O.—Annual Illustrated Catalogue of Seeds.  
J. K. JOOSTER, New York.—Special Trade List of Spring and Summer Flowering Bulbs, Roots and Plants, Seeds, etc.  
JOS. BANCROFT & SON, Cedar Falls, Ia.—Illustrated Catalogue of Seeds and Plants.  
THE MITCHELL HEATER COMPANY, Poughkeepsie, N. Y.—Illustrated Descriptive Catalogue of Hot Water Heaters.  
HENRI BEAULIEU, Woodhaven, N. Y.—Price List of Seeds for Market Gardens.  
GEORGE B. MOULDER, Smith's Grove, Ely.—Illustrated Descriptive Catalogue of Water Lilies, Aquatics, Greenhouse Plants and Ornamental Shrubbery.  
JOHN G. HEHL, Terre Haute, Ind.—Catalogue of Plants, Cut Flowers, Designs, etc.  
W. & T. SMITH, Geneva, N. Y.—Wholesale Price List of Nursery Stock.  
ROSS BROTHERS, Worcester, Mass.—Illustrated Descriptive Catalogue of Vegetable, Grass and Flower Seeds.  
MAX DEGEN, Kestitz, Germany.—Catalogue of Roses, Gladioli, etc.  
E. H. KRELL & SON, Haarlem, Holland.—Catalogue of Novelties, Perennials, and Florists' Flowers.  
WALTER A. POTTER, Providence, R. I.—Catalogue of Garden, Field and Flower Seeds, Implements, etc.  
CLARKE BROS., Portland, Ore.—Catalogue of Roses, etc.  
STEPHEN HOYT'S SONS, New Canaan, Conn.—Descriptive Catalogue of Fruit and Ornamental Trees, Grape Vines, Small Fruits, Shrubs, Roses, etc.  
JOHN R. Wm. PARRY, Parry, N. J.—Catalogue of Potomac Nurseries.  
WALDO ROBERTS, Gilroy, Cal.—List of Sweet Peas, etc.  
THOMAS MEHAR & SONS, Germantown, Pa.—Wholesale Trade List of Nursery Stock; complete list of hardy ornamentals; Japan Snowball a specialty.  
H. CANNELL & SONS, Swanley, Kent.—Illustrated Catalogue of Royal Guide of Plants.  
THE DEMING CO., Salem, O.—Illustrated Catalogue of Spray Pumps and Nozzles; with hints of ornamental horticulture.  
MRS. MAUD M. BRIGGS, El Paso, Texas.—Catalogue of Cacti.  
PARSONS & SONS, Fishing, N. Y.—Select List of Hardy Perennials, Shrubs, etc.  
E. C. HARGADINE, Felton, Del.—Spring Price List of Vegetable and other Plants.  
THE MICHIGAN WILD FLOWER CO., Rochester, N. Y.—Wholesale Price List of Wild Flowers.  
J. J. STROUP, Boston, Mass.—Circular regarding Wood Ashes.  
BENJ. HAMMOND, Fishkill on Hudson, N. Y.—Catalogue regarding "Sling Shot" and its Uses.  
WEBSTER BROS., Hamilton, Ont.—Wholesale Price List of Plants, etc.  
L. L. WOODFORD, Berwyn, N. Y.—Illustrated Descriptive Catalogue of Fruit and Ornamental Plants.  
SEAWANNA GREENHOUSES, W. L. SWAN, Proprietor, Oyster Bay, N. Y.—Illustrated Catalogue of Plants, Seeds and Bulbs.

**EVERY FLORIST OUGHT TO INSURE HIS GLASS AGAINST FIRE.**  
For particulars address:  
**JOHN G. ENLER, Sec'y, Saddle River, N. J.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**MASTICA**  
For Glazing Greenhouses. A substitute for putty. Superior in every way to putty. **MASTICA GLAZING MACHINES** were given Highest Award of S. A. F. at Pittsburg. Address for circular, F. O. PIERCE CO., 170 Fulton St., N. Y.  
Sole Manufacturers.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**SUMMER IN WINTER**  
By Using  
**Standard Greenhouse Boilers**  
One cent gets our Catalogue.  
**GIBLIN & CO., - Utica, N. Y.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**VALVES, FITTINGS AND VENTILATING APPARATUS.**  
  
**COLDWELL-TILCOE CO.,** Newburgh, N. Y.  
Mention paper.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**WALKER'S EXCELSSOR FOOD**  
For House Plants.  
An excellent, soluble preparation, so to handle and in a concentrated form.  
A little book entitled "Care of House Plants" mailed free with each package. Directions for usage and guaranteed analysis typed on every package.  
PRICE—One-ounce packages, sufficient for 25 plants for one year; 2c. each, by mail, 40c. One half-ounce, sufficient for 50 plants six months, 2c. each, by mail, 25c.  
We are manufacturers for Lawns, Brooches and Fertilizers. Agents wanted everywhere. Liberal terms.  
**THE WALKER FERTILIZER CO.,** Clinton Springs, N. Y.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**IF YOU WANT A GOOD SASH LIFT**  
For a Very Little Money! Get  
  
THE NEW DEPARTURE VENTILATING APPLIANCE.  
For Descriptive Catalogue send to  
**J. D. CARMODY, Evansville, Ind.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**AGITATORS**  
that AGITATE keep the liquid always stirred to a point of utility.  
THE DEMING AUTOMATIC contains more good qualities than any agitator in the world. It overflows. Spray with Hargadine's. It is made of brass. It is made of brass. It is made of brass.  
**THE DEMING CO.,** Salem, Ohio.  
HEWITT & HUBBELL, General Wholesale Agents, 61-69 J. Farnum St., Chicago, Ill.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**UNDBBONE**  
Absolutely Pure, \$28.00 per ton.  
**RUBBER HOSE** at Factory Prices.  
**H. F. LITTLEFIELD, 96 Coburn Ave., Worcester, Mass.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

LORD & BURNHAM CO., HORTICULTURAL ARCHITECTS AND BUILDERS,

STEAM AND HOT WATER HEATING ENGINEERS.

Plans and Estimates furnished on application.



Largest Builders of Greenhouse Structures, Six Highest Awards of the World's Fair. Send four cents postage for Illustrated Catalogue.

LORD & BURNHAM CO., ARCHITECTURAL OFFICE, 160 FIFTH AVE., COR. 21st STREET, NEW YORK. Factory: Irvington-on-Hudson, New York. Mention paper

Syracuse, N. Y.

The Central New York Horticultural Society has issued the preliminary list for its next chrysanthemum exhibition. The amount in cash prizes has been increased, and some valuable specials have been already offered. The rules governing the contest for the bicycle read as follows: Special prize by E. C. Stearns & Co., \$100 Stearns Yellow Bicycle, for a new and distinctive yellow chrysanthemum not yet disseminated, to be selected by a representative of the firm of E. C. Stearns & Co. from three plants, selected by the Society's judge, from all plants entered for this prize, and to be named "The Yellow Fellow." Only plants in pots can be entered for the above prize. The contest is, of course, open to all.

The P. R. QUINLAN Co. have had an elegant display of Dresden Vaseum in the window of their downtown store. Some of the plants had immense spikes of bloom, though only in 8-inch pots.

A notice in last week's issue a statement that \$30 had been appropriated by the Central New York Horticultural Society for the Fall show premium list. This is incorrect; it should read \$500.

James Egan, of Stamford, N. Y., was in town last week, and paid a visit to the leading private and commercial establishments.

A special meeting of the Central New York Horticultural Society was called for Friday, March 20, to discuss the premium list of plants and flowers for the State Agricultural Society. It was unanimously agreed upon by the members to demand the adoption of the old rates. Last year the premiums were cut in half, in spite of the protest of exhibitors. There is nothing to commend the niggardly policy of the department, as it is freely admitted that the Horticultural building attracts fifty per cent. more visitors than any other section. If exhibitors stand by the Saturday evening session, there will be larger premiums or no exhibits.

John N. May, of Sunnyside, N. J., had an exhibition bloom of carnations, Maud Dean and Lily Dean, and Pres. Carnot roses. These were very much admired by the members, though Lily Dean received the most attention.

Waters in town - F. L. Atkins, of Piteber & Manda. The weather is unusually mild for this season, and it is feared that some damage will result later to fruit trees and other crops. C. BARSON.

Norwich, Conn.

S. CRANE is very busy fitting out his new grounds, which are nearly as large as his present nurseries. He has ordered from France seedlings and choice ornaments to plant on the same. He claims that close application to business and advertising in the Florists' Exchange has had very much to do in creating his increased trade.

A Generous Offer.

A Chicago florist makes a liberal offer on a placard shown in his window. The placard reads: "With every plant we sell we give the earth." - Printers' Ink.

APRIL 3 is the date set for this "Florists' Exchange Spring Special." Don't miss it.

It Goes to the Spot.

We believe in the Florists' Exchange as a means of reaching the pocket books of the florists throughout the U. S. and Canada. BRANT & NORRIS, Forest Glen, Ill., March 17, 1897.

Evans' Improved Challenge.



Roller bearing, self-oiling device, automatic means of setting. It not only makes the IMPROVED CHALLENGER the most perfect apparatus in the market. Write for catalogue and prices before placing your orders elsewhere.

Quaker City Machine Co., RICHMOND, IND.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Modern Greenhouse Heating.

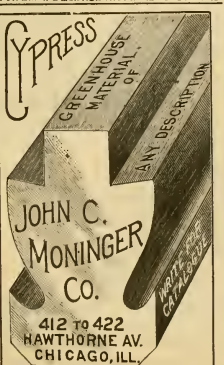
One of our boilers, 10,880 feet of two inch pipe, and sixty tons of coal will heat 22,400 feet of glass (four 20x300 feet double gable houses) to 65 degrees in coldest Winter weather; they have done it, and will do it for you - we guarantee it. Our boilers are not only the best of their kind, but the best made. They have the largest "firebrigt" direct surface, are the easiest cleaned, handled and set up; and from engineering facts, they are the ideal fireless, economical water heating boilers of our day.

Plenty's Horticultural Works,

148-156 Randolph Ave.,

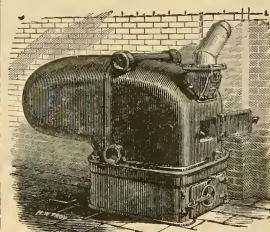
JERSEY CITY, N. J.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE



WHEN WRITING MENTION THE FLORISTS' EXCHANGE

GREENHOUSE HEATING AND VENTILATING, Horticultural Architecture and Building.



Mention paper.

SEND 4c. POSTAGE FOR ILLUSTRATED CATALOGUE.

Hitchings & Co

ESTABLISHED 1844. 233 Mercer Street, NEW YORK

FIVE PATTERNS OF BOILERS. NINETEEN SIZES, Perfect Sash Raising Apparatus.

Rosehouses, Greenhouses, Etc., of Iron Frame Construction erected complete or the Structural Iron Work shipped ready for erection.

Iron Frame Fenches with the "Perfect Drainage Bench Top" or Slate Tops.

GLASS FOR GREENHOUSES, CONSERVATORIES, GRAPERIES, HOTHOUSES AND HOTBEDS. VANHORNE GRIFEN & CO.

Agents for CHAMBERS & McKEE CO., Jaanette's Brands American Glass. Importers of French Glass. 13, 18 & 17 LIGHT ST. AND 62, 54 & 66 VARIOR ST., NEW YORK.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

GLASS FOR GREENHOUSES, CONSERVATORIES, GRAPERIES, HOTBEDS AND FLORESTS USE GENERALLY, AT LOWEST RATES. L. HARRIS & SON.

497 W. BROADWAY, NEW YORK, 89 LIBERTY ST., NEW YORK. (See Illustrations and Booklet No. 1.)

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

GLASS For Greenhouses, Conservatories, Graperies, Hotbeds and all other purposes, at Lowest Rates. N. COWEN'S SON 392 & 394 West Broadway, New York.

Formerly 151 and 156 So. Fifth Avenue. Got our Figures before buying Glass. Estimates Freely Given.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

CALIFORNIA RED CEDAR Never Decays.

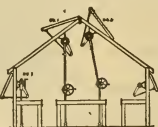
A. DIETSCH & Co. 619 Sheffield Avenue, CHICAGO.

MANUFACTURERS OF RED CEDAR AND CYPRESS GREENHOUSE MATERIAL.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

STANDARD VENTILATING MACHINE.

NONE EQUAL IT IN Strength AND Durability



NOTHING Flimsy OR Complicated about it.

Send for Catalogue.

E. HIPPARD, YOUNGSTOWN, OHIO.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

ATTENTION, FLORISTS!

It will be to your advantage to look into the merits of the Scollay "Invincible" Hot Water Boiler.

It is all that its name implies, and don't forget it.

Cuts and full information mailed on application.

JOHN A. SCOLLAY, 74 & 76 MYRTLE AVE., BROOKLYN, NEW YORK.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

"GOLDEN BEAUTY."

New Yellow Canna, clear, bright color, massive flower, continuous bloomer, vigorous grower, dwarf habit. As good as the best. 50c. each; \$4.00 per doz.; \$25.00 per 100.

Also QUEEN CHARLOTTE, ALPHERSE BOUVIER, MME. CROZY, J. C. VAUGHAN, J. D. CABOS, EX. CRAMPBEL. \$1.00 per doz.; \$8.00 per 100. All from 4 inch pots. Cash or reference with orders. Circular and colored plate for the asking. JOHN WHITE, Elizabeth, New Jersey.

BARGAIN—Very Germanias, 6 of the finest sets, 25c. each, at 10c. 10, 4.00 Double Ferns...

E. G. HILL & CO., Wholesale Florists, RICHMOND, INDIANA.

CLARK BROTHERS, Manufacturers and Retailers of PAPER SEED BAGS...

FERNS! FERNS! Hardy cut ferns, first quality, 75 cts. per 100. Easter Laurel Roping...

VERBENA KING 500,000 Rooted Verbena Cuttings, the finest variety in cultivation...

G. HUMFELD, Clay Center, Kansas. SEND FOR LIST. NOW IS THE TIME TO ORDER FRESH STOCK...

Amaryliss Johnsonii, Extra large bulbs. Lilium Auratum, 6x11 only.

Pansies! Pansies! All the best varieties, strong transplanted plants. F. W. O. SCHMITZ, JERSEY CITY, N. J.

NEW CHRYSANTHEMUMS.

The Grandest Novelty of the Season is C. J. WARREN, Yellow Sport from Madame Carot.

W. WELLS, Chrysanthemum Specialist, EARLSWOOD, - SURREY, ENGLAND. CHRYSANTEMUMS From 2 1/2 in. pots, \$2.00 per 100.

W. W. WEATHERBY, - Chillicothe, Mo. CHRYSANTEMUMS, Best standard commercial varieties, from pots...

JOHN C. EISELE, PHILADELPHIA, PA. CHOICE STRONG ROOTS, \$6 Per 100. I am again ready to quote prices and book orders.

NOVELTY LISTS AND STANDARDS. The great variety of new and stock better than ever. Try my new list of 125 new varieties. W. W. WELLS, Box 382, Denver, Colo.

CLEMATIS 2 year old plants, \$2.00 per doz. 3 year old plants, 3.00 per doz. GARNATIONS All the Novelties at ruling prices...

CHRYSANTEMUMS Best Standard varieties. Price on application. C. EISELE 14th & Jefferson Sts., Phila. Pa. WELCH BROTHERS, DEALERS IN FLORISTS' SUPPLIES...

Earliest Large Flowering Yellow Chrysanthemum. Japanese. Blooms certified at New York and Boston, October 7, 1896.

MAMMOTH VERBENAS! Rooted cuttings, 70 cts. per 100; \$5.50 per 1000.

AUGUST ROLKER & SONS Florists' Seed, Bulbs and Supplies. NEW 1897 SEED TRADE LIST mailed free to a sportsman in the trade.

Yellow Monarch. DAILEDOUZE BR., \$35.50 per doz., \$35.00 per 100. (Flatbush.) BROOKLYN, N. Y.

NEW CAPE FLOWERS. A. HERRMANN, 404-412 E. 34th St., New York, Near Ferry. Manufacturer of Floral Designs.

Florists' Supplies. Largest Stock in the Country. All goods up to date, and of superior quality. GALAX \* LEAVES

A Terrible Crash in HARDY HERBACEOUS PLANTS. Everything in perfect order and strictly true to name. Table with prices for various plants like Achillea, Anemone, Antirrhinum, etc.

# DREER'S

RELIABLE

## SEEDS, PLANTS, BULBS, &c.

Our Quarterly Wholesale Price List, April issue, has been mailed to all Florists. Should you not have received a copy, we will be pleased to send one on receipt of business card.

### Special Offer of Plants for Easter Decoration.

**AZALEAS.** We can still furnish a fine lot of well-budded plants, prime condition, for Easter flowering. 5 in. pots, 10 to 12 in. diameter, \$5.00 per doz.; \$45.00 per 100. 6 in. pots, 12 to 15 in. crowns, \$9.00 per doz.; \$70.00 per 100.

## ARAUCARIA EXCELSA.

KENTIA BELMOREANA.		KENTIA FORSTERIANA.	
5 in. pots, 5 leaves, 18 in. high	Each \$3.75	5 in. pots, 4 to 5 leaves, 18 to 20 in. high	Each \$3.00
6 " " 8 to 7 " " "	2.00	6 " " 6 " " " "	1.50
7 " " 8 to 7 " " "	3.00	8 " " 6 " " " "	2.50
8 " " 8 to 7 " " "	4.00	8 " " 3 plants in a pot, bushy, 24 to 28 in. high	2.00



LANTANA BORBONICA.

The finest lot of plants we have ever offered. Perfect in every way. 6 in. pots, 3 to 4 tiers, 15 to 18 in. high, \$1.50 each.

## LANTANA BORBONICA.

5 in. pots, 4 to 5 leaves, 12 to 15 in. high	Each \$3.25
6 " " 4 to 6 " " "	.50
8 " " 6 " " " "	.75
8 " " 8 to 7 " " "	1.50
8 " " 7 " " " "	2.00



KENTIA FORSTERIANA.

## ARECA LUTESCENS.

4 in. pots, 15 to 18 in. high	\$3.00 per doz.
6 " " fine plants, 4 in a pot, about 24 in. high	\$1.00 each

A fine assortment for immediate use. 2 in. pots, \$4.00 per 100; \$35.00 per 1000. 3 in. pots, \$6.00 per 100; \$30.00 per 1000.

## FERNS.

<b>Anepeltis Vitellifolia</b> , strong 1 year old, 3 in. pots, \$7.00 per 100; \$60.00 per 1000.	<b>Clematis Jackmanni</b> , Henryll, etc., strong 2 year old, \$3.75 per doz.; \$30.00 per 100.
<b>Asparagus Sprengeri</b> , the new variety, a most desirable plant, 2 1/2 in. pots, \$1.25 per doz.; \$10.00 per 100.	<b>Cycas revoluta</b> . We expect a shipment of 20,000 lbs. the latter part of this month, in sizes from 4 to 50 lbs. each; an especially large lot of 4 to 8 lb. sizes, loc. per lb. Special prices for large quantities on application.
<b>Cereopsis lacustrata</b> , strong 1 year old clumps, 75c. per doz.; \$6.00 per 100.	<b>Hypericum Moseianum</b> , strong 2 year old, \$1.00 per doz.; \$9.00 per 100.
<b>Clematis paniculata</b> , strong 3 in. pots, 75c. per doz.; \$5.00 per 100; \$50 per 1000.	<b>Iris Kempteri</b> , a collection of 24 choicest varieties, \$1.50 per doz.; \$10.00 per 100.

## BAY TREES.

<b>(LAURUS NOBILIS.)</b> Pyramidal shaped, 6 to 8 1/2 feet high, 24 in. spread, \$7.50 each; 7 to 8 " " " " 8.00 " " " "	<b>Hardy Pink</b> , "Her Majesty," extra strong 1 year old clumps, \$5.00 per 100.
--	--

Pyramidal shaped, 6 to 8 1/2 feet high, 24 in. spread, \$7.50 each; 7 to 8 " " " " 8.00 " " " "

### MISCELLANEOUS SEASONABLE SPECIALTIES.

<b>New Double Rubecunda</b> , "Golden Glow," a valuable perennial, suitable for cutting, 3 1/2 in. pots, \$1.25 per doz.; \$8.00 per 100.	<b>New Rose</b> , "Sour du Pres. Carnot," strong 3 1/2 in. pots, \$3.00 per doz.; \$15.00 per 100; \$125 per 1000.
<b>New Polyantha Rose</b> , <i>Mossini</i> or <i>Yellow Souper</i> , strong 2 1/2 inch. 75c. per doz.; \$6.00 per 100.	

## FLOWER SEEDS.

We give close attention to this department and spare no pains or expense to procure the very finest strains of both home and foreign growth. Following is a list of a few things for present sowing:

<b>Ageratum</b> , Cope's Pet, dwarf blue	Trade Pkt. Per Oz. \$0.15	\$0.40
<b>Aster</b> , Queen of the Market, white, very early	25	1.00
" " " " mixed	20	.75
<b>French Perfection</b> in separate colors	40	2.00
<b>Victoria</b> , in separate colors	50	2.25
<b>Simple's branching</b> , in separate colors	40	2.00
<b>Asparagus plumosus nanus</b> , \$1.50 per 100 seeds; \$12.00 per 1000.		
<b>Sprengeri</b> , \$1.25 per 100 seeds; \$10.00 per 1000.		
<b>Carnation</b> , <i>Marguerite</i> , choicest mixed	30	1.25
<b>Cobea scandens</b>	15	.40
<b>Cosmos</b> , New Early Flowering "Dawn"	15	.50
<b>Grevillea robusta</b>	15	.50
<b>Ipomoea grandiflora</b> (Moon Flower)	15	.50
<b>Magnolia Machet</b> , set of stock	15	.50
<b>Musa Eschsch</b> , \$1.25 per 100 seeds; \$12.00 per 1000 seeds.		
<b>Nasturtium</b> , Tall or Climbing, mixed	50	2.00
<b>Smilax</b>	50	2.00
<b>Dwarf</b> , mixed	50	2.00
<b>Sweet Peas</b> , Eckford's large Flowering, mixed	40	2.00



PILEOL DRUM GRANDIFLORA.

## VEGETABLE AND FARM SEEDS.

Florists who use a few Vegetable Seeds for their own use, or who grow Lettuce, Radish, etc., as an indoor crop, would do well to consult our Wholesale Price List before placing their orders. We annually supply the larger part of the critical trade and our stocks are known as the BEST.

## LAWN GRASS SEED.

Put up in pint, quart, 2 quart and 4 quart boxes; 1/4 bush., 1/2 bush. and 1 bush. bags for retailing. Our famous Fairmont Park Mixture

at 50c. per quart,	Plats, \$5.00 per 100.
\$4.00 per bush. of 20 lbs.	Quets, \$10.00.
	Bushel (20 lbs.) \$3.00.

## WATER LILIES AND AQUATICS.



We are large importers of all kinds of Dutch, French, German, and other reliable requirements for prices. We carry an immense quantity of **Lily of the Valley** in cold storage, should you need any, write for price, stating quantity.

## WATER LILIES AND AQUATICS.

We are Headquarters for the above and carry the largest stock in the world of all the finest sorts; a full list of varieties and prices will be found in our Wholesale Price List.

## SUMMER FLOWERING BULBS.

<b>Double Pearl Tuberoses</b> , selected bulbs, 4 to 6 inches	per 100 per 1000
<b>Caladium Esculentum</b> , extra large, 6 inches and over	\$ 0.85 \$7.50
" " " " first size	8.00
" " " " second size	6.00
<b>Lilium Auratum</b> , 9 to 11 inch	12.00
" " " " 11 to 13 "	8.00
" " " " Speciosum, Kosium, or Kuyrum, 10 to 12 inch	8.00
" " " " Album, 7 to 9 inches	6.00
" " " " " " 9 to 11 "	7.00

FOR COMPLETE LIST SEE OUR WHOLESALE PRICE LIST.



THE VAN REYPER PERFECT GLAZIERS' POINTS.

No rights or lefts. Price per box of 1000. 60c.; by mail, 75c.; 10 lots of 5000 by express, 55c. per 1000.

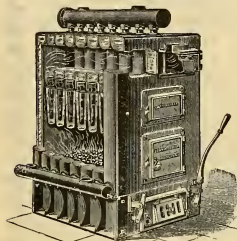
# HENRY A. DREER, SEEDSMEN AND FLORISTS, 714 Chestnut St., PHILA., PA.

**LORD & BURNHAM CO.,**  
**HORTICULTURAL ARCHITECTS AND BUILDERS,**  
 STEAM AND HOT WATER HEATING ENGINEERS.  
 Plans and Estimates furnished on application.



Largest Builders of Greenhouse Structures. Six Highest Awards at the World's Fair.  
 Send four cents postage for Illustrated Catalogue.

**LORD & BURNHAM CO.,**  
 ARCHITECTURAL OFFICE, 160 FIFTH AVE., COR. 21st STREET, NEW YORK.  
 Factory: Irvington-on-Hudson, New York. Mention paper



**ATTENTION, FLORISTS!**

It will be to your advantage to look  
 into the merits of the Scollay  
 "Invincible" Hot Water Boiler.

It is all that its name implies, and  
 don't forget it.

Cuts and full information mailed  
 on application.

**JOHN A. SCOLLAY,**  
 74 & 76 MYRTLE AVE.,  
**BROOKLYN, NEW YORK.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

ROBERTS SAFETY STEAM and HOT WATER BOILERS.

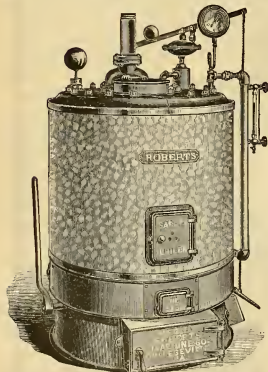
## SPECIAL GREENHOUSE BOILERS

Made for Hard and Soft Coal and Wood.

. . . Magazine and Surface Burners . . .

. . . Portable and Brick Set . . .

For 150 to 10,000 square feet Radiating Surface.



Send us sketch of your  
 greenhouse; we will guaran-  
 tee to heat it, even where  
 others have failed. We refer  
 to Henry A. Dreer and Mr.  
 Hugh Graham, of Philadel-  
 phia. Ours is the only Boiler  
 that has no packed joints to  
 leak, screw joints to rust fast,  
 or large or complicated cast-  
 ings to crack. Heating and  
 Grate surface proportioned  
 to save coal.

It Has  
 No Equal.

**ROBERTS MACHINE CO.,** Collegetown, Penna.

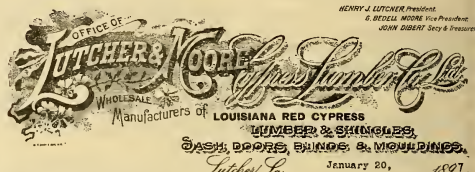
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

THERE are several varieties of CYPRESS,  
 but the proper kind for Greenhouse  
 Construction is the

# LOUISIANA ..RED CYPRESS

This is what we use, and furnish it  
 THOROUGHLY AIR DRIED....

ATTACHED LETTER WILL CONFIRM OUR CLAIM.



John C. Moninger Co.,

Chicago, Illinois.

Gentlemen:--

We beg to acknowledge receipt of contract made with  
 you by our Mr. W. S. Atles for 2,000,000 feet of air dried Louisiana  
 Cypress to be furnished you during the year of 1897, and in confirm-  
 ing same will say that we shall always carry such stock as you use  
 for the manufacture of your Green Houses, so you can get same at  
 least two years old, air dried; this will enable you at all times  
 to guarantee to your customers strictly clear, air dried, stock,  
 and will place you in a position where you will have no competition,  
 as no other firm that manufactures the Famous Louisiana Red Cypress  
 can guarantee to furnish this amount of stock of such an age, and  
 warn it not for the large stock we carry on hand at all times, we  
 should be placed in the same position as our competitors.

Thanking you very kindly for the favor shown us, and trusting  
 the year of 1897 will bring you a large and increased trade, which  
 your high standard of work certainly merits, we beg to remain,

Yours very truly,  
*Lutcher & Moore, Cypress Lumber Co.*

We devote our entire time to this line of business,  
 which enables us to furnish correct material at proper  
 prices.

ESTIMATES CHEERFULLY FURNISHED.

Write for Catalogue.

**JOHN C. MONINGER CO.**  
 412-422 Hawthorne Avenue,  
 CHICAGO, ILL.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Lath Shading for Greenhouses.**

A method of shading greenhouses that permits the work to be readily done from the inside, that makes it possible to put on or take off the shading at any time, and to change the shading from one part of the house to another at will, is desirable in the ordinary commercial greenhouse. A plan has been devised in the greenhouse of the Wisconsin Agricultural Experiment Station that accomplishes these ends in a cheap and satisfactory manner, and is described in the Thirtieth Annual Report, 1896, just issued. It is simply an application to the greenhouse of a screen made of lath, similar to that used for cold frames and hotbeds.

These screens are supported from the sash-bars by simple wood buttons, screwed to their lower edge. A lath screen consists of twelve ordinary lath, nailed with No. 8 wire nails, to cross pieces which are also of lath, the nails being clinched. In the Station greenhouse the sash-bars are a fraction over 13 inches apart in the clear, and the screens are made 38 inches wide. The laths are placed 2 1/2 inch apart, except at the center, where a space 2 1/2 inches wide is left for the sash-bar. The screen is put up with the cross pieces toward the ground, which brings the lower side of the lath on a level with the lower edge of the sash-bar, so that when the button is placed at right angles to the sash-bar, it supports the screen. In the Station greenhouse, the pitch of the roof is such that the screens require no support to prevent them from slipping down, but with a steeper roof, a tack-driven part way in, at the center of the outside laths on the lower side, would catch on the buttons, and thus support the screen.

When not in use, the screens are stored under the benches, or elsewhere. Being very thin, they occupy little room. They should be made of the best quality of well-seasoned house lath. If wet lath are used, the screens often warp badly. By means of a simple form, which may be devised by any person apt with tools, the screens may be nailed up very rapidly.

For houses in locations where the sunshine is less intense than in the comparatively clear and dry atmosphere of Wisconsin, as in the Atlantic states, or in the vicinity of the great lakes, it would probably be better to place the lath a full inch apart than the distance noted above. Indeed, it seems well to have two or more classes of screens, with different spaces between the lath. In houses extending north and south, the east side usually requires less shading than the west, since the most intense sunlight comes somewhat after noon. Screens made of lath placed 12 inches apart answered fairly well for the east side of the Station greenhouse.

It may be questioned if any method of shading that wholly obstructs the direct rays of the sun is as favorable for the growth of most plants as one that, like the lath screen, obstructs only a part of the rays, leaving the others to shine in their full force.

# NOW YOU KNOW NO BOILER EXCELS OURS

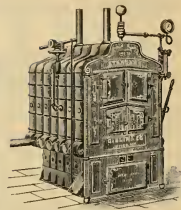
and few equal them. They have many interiors. If you have a boiler that equals ours

## CLING TO IT

because it is a valuable possession, but you probably have one that is much inferior; that does not heat your house; that consumes much coal and is exasperating. To its necessity for attention. If you have such a boiler, show your senses by writing for our CATALOGUE and learn how our boilers are outdone.

**AT  
EAT  
HEAT**

a little cost.  
a little fuel.  
a large house.

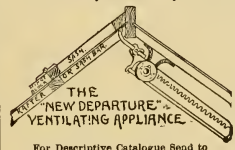


We make all sizes of Steam and Hot Water Boilers, and special prices to introduce.

**GIBLIN & CO.,**  
UTICA, N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**IF YOU WANT  
A GOOD SASH LIFT**  
For a Very Little Money Get



For Descriptive Catalogue Send to  
**J. D. CARMODY, Evansville, Ind.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**GLASS!** For Greenhouses, Conservatories, Graperies, Hotbeds and all other purposes, at Lowest Rates.  
**GLASS!**  
**N. COWEN'S SON** 392 & 394 West Broadway, New York.  
Formerly 154 and 156 So. Fifth Avenue.  
Get our Figures before buying Glass. - - - Estimates Freely Given.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**GLASS** For GREENHOUSES, CONSERVATORIES, GRAPERIES, HOTHOUSES AND HOTBEDS. **GLASS**  
**VANHORNE GRIFFEN & CO.**  
Agents for CHAMBERS & McKEE CO. Jeannette Brands American Glass.  
Importers of French Glass. 13, 15 & 17 LAIGHT ST., AND 52, 54 & 56 VARICK ST., **NEW YORK.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE



## The Evans Improved Challenge

# Roller Bearing Ventilating Apparatus

THE BEST AND CHEAPEST MACHINE IN THE WORLD.  
RECEIVED THE HIGHEST AWARD AT THE WORLD'S FAIR.

If you are contemplating putting in ventilating apparatus this year in your greenhouses, it will be to your interest as well as ours, to write us for our illustrated catalogue and get our prices before placing your orders elsewhere.

### STEEL SPROCKET CHAIN.

This chain is made of very best Bessemer carbon steel and is put together with steel pins. Each and every link is stamped out of solid steel bar under a powerful press designed and made especially for this work.



We manufacture this chain in our own factory and we know just what kind of material and workmanship it is made of and can cheerfully recommend it to our customers to be first-class and absolutely perfect in all parts. Address

**Quaker City Machine Co., = Rimmond, Ind.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## FEEDING PLANTS UNDER GLASS.

## THE GROWERS' STANDPOINT.

In order to obtain the experience of practitioners in this subject, we call on the Florists' Exchange recently sent a communication to a number of florists in various parts of the country, asking for such information as could be given on the following points:

1. As regards the physical or mechanical conditions best suited to crops under glass, and how can they be secured and maintained? 2. What food should be used, and in what form at the start, and how and in what form should it be added? Should the soil be prepared in any special way, and for how long a considerable time before it is wanted? 3. Considering that both cow and horse manure are not well balanced food, how should the deficiency be provided for? If advisable to add peatash to the compost what is the best form and how much can be added with safety? Should it be mixed when the compost is mixed or added at the time of planting, after the soil is in the beds or on the benches? 4. If additional phosphoric acid is required in the soil in what form should it be added? How much should be necessary, and should it be applied in the compost or to the soil after it is in the houses? In what form should it be applied to the soil, if at all, and when should it be added? In case plants, either roses, carnations, or gladioli start with a poor growing condition how soon should extra food be supplied and what food is most liable to be wanted? After what circumstances commences in the fall when food should be applied? Should it be liquid manure or "top-dressing"? 5. Applying liquid manure through a syringe and sprayer, what are the best sources of nitrogen, potash, and phosphoric acid? What strength of these fertilizers should be used? 6. How should they be applied? What should be the temperature of the water to give the plants in general the best conditions for consuming the foods?

It was recognized, of course, that a number of the foregoing questions would be difficult to answer. Still it was thought desirable to bring out as many points as possible, and have been answered. The following views would result only in good. Below we give the experience of a number of growers who have kindly interested themselves in the matter.

## Mr. Watson's Method.

My cousin Watson, of Katlamazo, Mich., says that he has used the following method with clean, healthy stock, is the proper food to maintain and keep it in the most acceptable condition of the plants. "I have every grower his own ideas how best this should be done, and apparently widely different treatments have produced different results. I think this can be explained by the fact that not only is there much difference in the nature of the soil, but also in the altitude and climate, differences in altitude all have their effects on plant life. Again differences in seasons, amount of sunshine, or cloudiness beyond the horizon, all should be considered before we can hope to depart from certain treatment results to expect from certain treatment."

Still there are a number of things we can nearly always depend upon with some degree of certainty, and these are: 1. The condition and noting of effects we can do much to make the plants in maintaining a healthy prothuberance.

Beginning at the compost heap it generally agreed that well-rotted soil and cow manure will form the best foundation. Some add well-rotted cow manure, and when turning it over besides to putting in some of the best topsoil, and to commence with well-rotted cow manure, and either rotted soil or fresh, dry loam, and when it is the time to plant, they will show need of it. For a start there should be in the food reserve in the loam and manure the proper proportion. To avoid it should it be so that it is found to feed till a good, healthy root action has taken place. It may be that the best and most efficient in potash or phosphates, and in this case, in sprinkling or watering, and bone meal will be of benefit. The best way of referring to it after the soil is carried in, is to use a more or less liberal application to be obtained by sprinkling it over the bed than in any other way.

As the soil is so various and other diseases may be helped, and even started, by the use of cow or horse manure, but at the same time we know that it is not the place, so with its faults and deficiencies we must still depend on it as the second support of the plants.

With regard to the adding of chemicals at the composting, should the soil be such

as to make this necessary, it is, indeed, poor, and successful results could not be expected. It is better to use a soil so deficient (that was intended for greenhouse planting) that needed it, and I should not expect to get a good soil so deficient in principal plants.

For roses, etc., when planted in summer, it is better to use a soil so deficient in sheep manure and loam will be of benefit in preventing the sun from burning the plants, and the soil so poor, but with a good compost little food will be required till the fall and cutting commences. It is better to use a soil so deficient, when the plants are making a vigorous growth, say about the latter part of September, or the first of October. November cutting fairly starts a dose of weak liquid manure twice a month will be necessary, and can be increased as the time goes on.

Carnations and violets should require very little extra food, if well grown, as they are usually planted in good, fresh soil after making their real growth, and if the plants require extra food early in the season then the fault is with the soil used, and not the actual requirements of the plant. A little extra manure is better than no manure, but real food should not be necessary till the days begin to lengthen, and then they require extra food. It is better to use a good soil to start with, I have not found carnations benefited by heavy feeding in the summer. It is better to use a soil so deficient in a starvation diet for them, but I do think it easily possible to overfeed them with liquid manure. Carnations do not prefer liquid feeding in every case where easy to dissolve thoroughly, but horse manure and good ash I like to sprinkle over the beds.

Just how, what and when to feed must all be determined by the soil and conditions, and endless losses occur by careless methods. The worker should supervise the plants, and be careful of the increasing contents in the one who owns the place or a foreman of ability. The work should never be done in a hurried way, and the extra water will not make a stick plant, kill the green fly and red spider, nor keep off the insects. It is better to use a soil so deficient to get the best results from the food applied. It is now generally accepted that the soil should be deficient in the following elements: It is well to remember just what we are feeding for. If for robust foliage, we should give nitrogen, but if for flowers, it is recommended chiefly for the flowers. This is rather a new one to some of us, yet I have been successful in this. Nitrate of soda was especially good for producing a good growth of roses, and especially for the chrysanthemums, but the phosphates being good for the production of flowers were new to me. I have no doubt of its correctness, and shall certainly remember it when mixing fertilizers for this winter.

For general purposes, I have found that water will not make a stick plant, kill the green fly and red spider, nor keep off the insects. It is better to use a soil so deficient to get the best results from the food applied. It is now generally accepted that the soil should be deficient in the following elements: It is well to remember just what we are feeding for. If for robust foliage, we should give nitrogen, but if for flowers, it is recommended chiefly for the flowers. This is rather a new one to some of us, yet I have been successful in this. Nitrate of soda was especially good for producing a good growth of roses, and especially for the chrysanthemums, but the phosphates being good for the production of flowers were new to me. I have no doubt of its correctness, and shall certainly remember it when mixing fertilizers for this winter. For general purposes, I have found that water will not make a stick plant, kill the green fly and red spider, nor keep off the insects. It is better to use a soil so deficient to get the best results from the food applied. It is now generally accepted that the soil should be deficient in the following elements: It is well to remember just what we are feeding for. If for robust foliage, we should give nitrogen, but if for flowers, it is recommended chiefly for the flowers. This is rather a new one to some of us, yet I have been successful in this. Nitrate of soda was especially good for producing a good growth of roses, and especially for the chrysanthemums, but the phosphates being good for the production of flowers were new to me. I have no doubt of its correctness, and shall certainly remember it when mixing fertilizers for this winter.

It is well to remember just what we are feeding for. If for robust foliage, we should give nitrogen, but if for flowers, it is recommended chiefly for the flowers. This is rather a new one to some of us, yet I have been successful in this. Nitrate of soda was especially good for producing a good growth of roses, and especially for the chrysanthemums, but the phosphates being good for the production of flowers were new to me. I have no doubt of its correctness, and shall certainly remember it when mixing fertilizers for this winter. For general purposes, I have found that water will not make a stick plant, kill the green fly and red spider, nor keep off the insects. It is better to use a soil so deficient to get the best results from the food applied. It is now generally accepted that the soil should be deficient in the following elements: It is well to remember just what we are feeding for. If for robust foliage, we should give nitrogen, but if for flowers, it is recommended chiefly for the flowers. This is rather a new one to some of us, yet I have been successful in this. Nitrate of soda was especially good for producing a good growth of roses, and especially for the chrysanthemums, but the phosphates being good for the production of flowers were new to me. I have no doubt of its correctness, and shall certainly remember it when mixing fertilizers for this winter.

While judicious feeding is always attended with profitable results, yet it only does good when the most judicious conditions are equally well balanced the good done will be greatly minimized, and in

some cases it may even have a disastrous effect. It is also well to remember to make good use of the manure, and to use it with new fertilizer especially so.

## Feeding Carnations and Violets.

Mr. D. Hammond, of Lebanon, Pennsylvania, writes: "I have compared actively heavy loam, with a soft, yellow clay subsoil, all underlaid with limestone, and in the spring of 1892 I grew my carnations, carnations and violets, on solid beds."

In preparing our soil we plow up a space large enough for our requirements, in the open field, in the early spring, turning in a liberal quantity of manure, and sow broadcast Canadian field peas; these we turn down as soon as they show signs of coming up. In the fall we grow another liberal dressing of manure, cow or horse, whichever we can procure to best advantage, and again plow and our soil is again ready to use in a very short time, or at once if necessary. The soil we use in leveling up and top-dressing the beds in the houses. In preparing our houses we board up the sides of the beds to prevent water running off, and dig in two four-borse wagon loads of manure to each house and never hesitate to plant all the carnations and violets in the house before planting we broadcast 100 pounds of bone and a liberal sprinkling of wood ashes, and a liberal quantity of top-dressing. This is all we do until after Christmas, except sprinkle the carnations occasionally with liquid manure, also a liberal quantity of a three-gallon watering pot. After Christmas, when the soil and plants show signs of coming up, we give the manure principally as a liquid application at the rate of one-half peck to fifty gallons of water, and alternating with nitrate of soda and wood-ashes in liquid form. Nitrate of soda we use at the ratio of 4-10 to 100 gallons of water, and wood-ashes at a 6-inch peck to 50 gallons of water.

## Mr. J. A. Snydman's Experience.

Mr. Snydman, who is a large grower of carnations and gladioli, writes: "Feeding is one of the most important features in the raising of plants, and the most important of all is the soil. The soil should contain plenty of food at the start and it should be prepared all before the plants are put in the manure, and the dirt and mixing well. Care should be taken not to use soil that is too freshly turned."

In cases where cow and horse manure are not so well balanced, a frequent top-dressing of extra manure will prove valuable. When plants start well and continue in good growing condition no extra food should be applied. But if the grower thinks it necessary he may give them the usual top-dressing of manure.

My experience with chemicals has not been very successful, I consider them of little if any value in the raising of plants. A light coat of top-dressing of any well-decomposed manure is far superior to any artificial fertilizer I have ever used.

## Mr. H. Weber's Method.

Mr. H. Weber, of Oakland, Md., writes of his method of preparing the soil for proper soil feeding, etc.

We select every fall a piece of rich meadow, or a piece of good soil, and require for all purposes during the next year; this we plow about 5 inches deep in the fall, and in the spring we give a heavy coat of barnyard manure (horse and cow manure mixed). After the busy season is over, we give a liberal top-dressing of manure, and in the fall, after cultivating this, say, once every week or ten days, as is necessary to destroy weeds and grass, and to keep the soil warm. In weeks before we begin to use the ground we apply bone meal at the rate of two bushels to the acre, and a liberal quantity of lime—15 or 20 bushels to the acre. If the land should be in need of potash we should use it at the rate of one bushel per acre. In all the above references to the other questions asked it may be said that the soil should be enough fed in the soil before the plants are put in the soil at the start to mature any good field-grown crop.

We prefer the preparation of the soil as stated above. Do not like the practice of compost heaps, as the frequent stirring and turning of the soil is a most favorable action on the ground.

Each one should determine which of the various chemical ingredients are lacking, in nitrogen, phosphoric acid, or potash. Which ever of these is lacking, it should be given in some form. If potash is deficient we use good wood ashes. If phosphoric acid is lacking, we use bone meal. If nitrogen be deficient, we use nitrate of soda. This should be used in the most judicious manner, and applied in the houses. A safer article, however, would be dried blood.

After the plants have started to grow fairly well, and all weeds have been carefully pulled, we give a liberal quantity of decayed muck, which has been composted with lime. A sprinkling of raw bone is put on the benches before the muck is used.

After flower-bearing has commenced in the fall, we give a supply food of the form of liquid manure.

We think that the manure of cattle which has all succeeded in the fall, is the best. It may be used in the form of a top-dressing, or, hay and grain, will contain sufficient nitrogen, potash and phosphoric acid to all succulent plants. We use it occasionally we use some horse manure, that is, milk it with that mentioned above. We will give a liberal quantity of a large class of our barnyard which is covered up and keeps the liquid manure from freezing. All the liquid manure from the stables and barnyard is gathered in this cistern, and is piped to all of the houses. In case we run short and it does not rain we turn on the water from the hydrant and in this way have all the liquid manure we need. Our barnyard is about 50 feet above the houses, which gives us plenty fall and saves all pumping, etc.

The temperature of water and liquid manure should be about 65 degrees. We do not use any water that is too hot, or turn on steam while watering, thus taking the chill of the water.

## Mr. Lothrop Wight's Experience.

Mr. Wight gives his experience in carnations and gladioli, and writes: "The proper physical and mechanical condition of the soil at the foundation of all successful raising of plants is that the soil is porous. The soil must drain run short and it does not rain we turn on the water from the hydrant and in this way have all the liquid manure we need. Our barnyard is about 50 feet above the houses, which gives us plenty fall and saves all pumping, etc."

The proper physical and mechanical condition of the soil at the foundation of all successful raising of plants is that the soil is porous. The soil must drain run short and it does not rain we turn on the water from the hydrant and in this way have all the liquid manure we need. Our barnyard is about 50 feet above the houses, which gives us plenty fall and saves all pumping, etc."

The proper physical and mechanical condition of the soil at the foundation of all successful raising of plants is that the soil is porous. The soil must drain run short and it does not rain we turn on the water from the hydrant and in this way have all the liquid manure we need. Our barnyard is about 50 feet above the houses, which gives us plenty fall and saves all pumping, etc."

The proper physical and mechanical condition of the soil at the foundation of all successful raising of plants is that the soil is porous. The soil must drain run short and it does not rain we turn on the water from the hydrant and in this way have all the liquid manure we need. Our barnyard is about 50 feet above the houses, which gives us plenty fall and saves all pumping, etc."

The proper physical and mechanical condition of the soil at the foundation of all successful raising of plants is that the soil is porous. The soil must drain run short and it does not rain we turn on the water from the hydrant and in this way have all the liquid manure we need. Our barnyard is about 50 feet above the houses, which gives us plenty fall and saves all pumping, etc."

The proper physical and mechanical condition of the soil at the foundation of all successful raising of plants is that the soil is porous. The soil must drain run short and it does not rain we turn on the water from the hydrant and in this way have all the liquid manure we need. Our barnyard is about 50 feet above the houses, which gives us plenty fall and saves all pumping, etc."

The proper physical and mechanical condition of the soil at the foundation of all successful raising of plants is that the soil is porous. The soil must drain run short and it does not rain we turn on the water from the hydrant and in this way have all the liquid manure we need. Our barnyard is about 50 feet above the houses, which gives us plenty fall and saves all pumping, etc."

The proper physical and mechanical condition of the soil at the foundation of all successful raising of plants is that the soil is porous. The soil must drain run short and it does not rain we turn on the water from the hydrant and in this way have all the liquid manure we need. Our barnyard is about 50 feet above the houses, which gives us plenty fall and saves all pumping, etc."

The proper physical and mechanical condition of the soil at the foundation of all successful raising of plants is that the soil is porous. The soil must drain run short and it does not rain we turn on the water from the hydrant and in this way have all the liquid manure we need. Our barnyard is about 50 feet above the houses, which gives us plenty fall and saves all pumping, etc."

The proper physical and mechanical condition of the soil at the foundation of all successful raising of plants is that the soil is porous. The soil must drain run short and it does not rain we turn on the water from the hydrant and in this way have all the liquid manure we need. Our barnyard is about 50 feet above the houses, which gives us plenty fall and saves all pumping, etc."

The proper physical and mechanical condition of the soil at the foundation of all successful raising of plants is that the soil is porous. The soil must drain run short and it does not rain we turn on the water from the hydrant and in this way have all the liquid manure we need. Our barnyard is about 50 feet above the houses, which gives us plenty fall and saves all pumping, etc."

The proper physical and mechanical condition of the soil at the foundation of all successful raising of plants is that the soil is porous. The soil must drain run short and it does not rain we turn on the water from the hydrant and in this way have all the liquid manure we need. Our barnyard is about 50 feet above the houses, which gives us plenty fall and saves all pumping, etc."

gallons of water. This can be used every time you water. You can tell by the darker color of the leaves when the plants have had enough. For potash use nitrate of potash in solution, the same proportion as nitrate of soda, but don't use it so often. It do not like water added as a top dressing. It seems to clog the soil and leave the surface in a bad condition. For phosphoric acid top dress with bone meal at the rate of a teaspoonful to a plant.

It does not matter much about the temperature. However cold it may be the temperature of the soil and house immediately modifies it to a reasonable amount. It is said that the usual water will need to be warmed.

In conclusion, all soils that are fit for greenhouse use will contain in sufficient quantity everything necessary for plant growth except humus or decaying vegetable matter, potash, nitrogen and phosphoric acid. As you enter the nearest forest you will see that nature can grow excellent crops without the use of stable manure. So can we. The stable is a convenient, but not a necessary source of vegetable matter. Potash is often present in sufficient quantities. Nitrogen and phosphoric acid are nearly always deficient. These three substances should be proportioned to the needs of the particular soil to which they are applied. To apply more of either one than is needed is a waste. It follows, then, that every one should study by own soil and ascertain definitely what its needs are.

**Nikoteen Insecticide.**

The superiority of Nikoteen over all other preparations for killing insects that attack plants, is unmistakably proven by its rapidly increasing sale, particularly in localities where it has never been advertised, and is sold purely by that merit which advertises itself, viz: the pleasure one has in recommending to a friend an article the use of which is a source of profit to himself.

That it contains nothing injurious to plant life, and really is an article to be relied upon for exterminating insects, is testified to by every one of the many florists and gardeners who are using it.

One of the noticeable things about Nikoteen is, that when you use one bottle, you cannot be persuaded to use tobacco stems or any other substance.

**It Goes to the Spot.**

We believe in the Florist's Excavator as a means of reaching the pocket books of the florists throughout the U. S. and Canada. BRANT & NOBLES, Forest Glen, Ill., March 17, 1897.

**MASTICA**

For Glazing Greenhouses. A substitute for putty, superior in every way. **MASTICA and MASTICA GLAZING MACHINES** were given Highest Award of S. A. F. at Pittsburg. Address for circular,

F. O. PIERCE CO., 170 Fulton St., N. Y. Sole Manufacturers.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**SPRAY PUMPS**  
The Best in the World.

Our Pumps are Tied by the Leading Agricultural Colleges and Experimental Stations in America.

PRICES \$2.00 TO \$15.00.

Send for Catalogue and Special Price List, CHARLES J. JAGER COMPANY, 174 HIGH ST., BOSTON, MASS.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

The Strength of a Child pushes the "Simplex" Hose Mender into place. No tools.

The Strength of a Horse cannot pull it out. Each at 2 1/2 inch by 10 cts. 4 inch by 25 cts.

**ELECTRIC HOSE** can be bent double, twisted into any shape, can be run over by teams without injury. Send for sample.

A GOOD LUBRY SPRINKLER. By mail, \$1.00. KING & KNIGHT, 35 E. Wendell St., Boston.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Greenhouse Woodwork**

Open-air-dried Cypress Lumber is more durable, and better suited to Greenhouse conditions, than kiln-dried stock. But you cannot get it from those that are engaged in the business in a small way—even though their entire business is confined to greenhouse material—for it takes a long time for the lumber to thoroughly dry and this means an investment in lumber that only those of large capital can make. The only way to have air-dried lumber is to buy green lumber and hold it until it dries. Those that order dry lumber from the producers of Cypress get kiln-dried stock. It is cheaper for them to kiln-dry than to hold the stock long enough to season it in the open air. We carry a large stock and fill all orders with open-air-dried Cypress clear of knots, sap and all other defects.

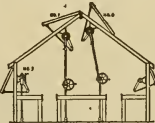
Lockland Lumber Co. LOCKLAND, OHIO.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CALIFORNIA RED CEDAR**  
Never Decays.  
A. DIETSCHE & CO., 619 Sheffield Avenue, CHICAGO.  
MANUFACTURERS OF  
RED CEDAR AND CYPRESS GREENHOUSE MATERIAL.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**STANDARD VENTILATING MACHINE.**

NOTHING EQUAL IT IN Strength and Durability. NOTHING Flimsy or Complicated about it.



Send for Catalogue. E. HIPPARD, YOUNGSTOWN, OHIO.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**GREAT REDUCTION IN PRICE.**

On account of the consolidation of the two firms—Rider Engine Company and the De Lamar Iron Works, which have heretofore manufactured the RIDER & ERICSSON HOT AIR PUMPING ENGINE a great reduction in prices has been made, and the enlarged and improved facilities enable the new firm to produce a better engine than ever before offered for securing an abundant water supply for all purposes on Dairy, Stock and other farms, and for country seats, city residences, &c. New catalogue sent ready, and will be sent to those who ask for them.

RIDER-ERICSSON ENGINE CO.  
22 Cortland St., New York, N. Y. 56 Lake St., Chicago, Ill.  
191 & 193 High St., Boston, Mass. 29 & 31 N. 7th St., Philadelphia, Pa.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE



**ECONOMIZE IN GREENHOUSE HEATING BY USING**

**THE ABENDROTH**  
New Sectional Steam Boiler and Hot Water Heaters

Our new Heater was constructed after a careful study of years in Steam and Hot Water heating, embracing the following Special Features:  
Long Fire Travel, ensuring Economy in Fuel. Vertical Water Circulation in thin columns.

**No Horizontal Water Ways or Pockets.**

The flues are so constructed that the heat strikes the top of the Heater first, insuring rapid circulation. Every improvement and convenience for ease of Erection, Management, Safety and Control.

EVERY HEATER SOLD WITH ABSOLUTE GUARANTEE. Catalogue giving information, furnished on application.

Abendroth Bros., 109 & 111 Beekman Street, New York.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE


**VALVES, FITTINGS AND VENTILATING APPARATUS.**  
COLDWELL-WELCOX CO., Pittsburgh, N. Y.  
Mention Paper.



WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**THE MOTOR OF THE 19th CENTURY**

is used for almost every purpose now supplied to and for Pumps, Feed Mills, Fans, etc. is unequaled. It uses Gasoline as well as Gas. Full information, testimonials, etc., by addressing



CHARTER GAS ENGINE CO. Box 618, STERLING, ILLS.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

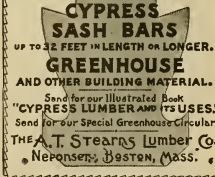
**SCOLLAY'S IMPROVED PUTTY BULB**

For Glazing Sash, Etc., —ALSO THE PATENT PLANT SPRINKLER



For sale by your Seedman, or sent, postpaid for \$1.00. JOHN A. SCOLLAY, 74 & 76 Myrtle Ave., BROOKLYN, N. Y.  
SEND STAMP FOR CATALOGUE.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CYPRESS**  
IS MUCH MORE DURABLE THAN PINE.  
**CYPRESS SASH BARS**  
UP TO 32 FEET IN LENGTH OR LONGER.  
**GREENHOUSE**  
AND OTHER BUILDING MATERIAL.  
Send for our Illustrated Book "CYPRESS LUMBER AND ITS USES." Send for our Special Greenhouse Circular.  
THE A. T. STEARNS Lumber Co., Neponset, BOSTON, MASS.



WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Modern Greenhouse Heating.**

One of our boilers, 10,380 feet of two inch pipe, and sixty tons of coal will heat 22,400 feet of glass (four 20x200 feet double gable houses) to 65 degrees in coldest Winter weather, they have done it, and will do it for you—we guarantee it. Our boilers are not only the best of their kind, but the best made. They have the largest "freshlight" direct surface, are the easiest cleaned, handled and set up; and from engineering facts, they are the ideal frictionless, economical water heating boilers of our day.

Plenty's Horticultural Works, 148-156 Randolph Ave., JERSEY CITY, N. J.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Wrought Iron Pipe, Valves, Cocks, Fittings, etc., for Steam and Hot Water; Rubber Hose, Pumps and Well Pumps. WM. H. KAY, 42 Dey St., New York.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Clipping From an Educational Exchange.  
 TEACHER.—"Johnny, compare asparagus."  
 JOHNNY (a bright boy.) "Can't, it is incomparable."

INCOMPARABLE FOR  
 EASTER DECORATION.

# ASPARAGUS PLUMOSUS NANUS

Has no Near Rivals for Supremacy as a Decorative Green.



OUR ASPARAGUS HOUSE, ESPECIALLY CONSTRUCTED TO GROW STRINGS 35 FEET IN LENGTH.

**An Immense New Stock in Prime Condition to Cut Now.**

I am the only large grower of Asparagus in the United States. Can supply strings by the thousand at all times.

Houses especially constructed for growing Asparagus, 35 ft. in height. Extra long strings can be supplied at special prices.

Greenhouses, near Oak Square, Brighton.

**W. H. ELLIOTT, Brighton, Mass.**

TAKE OAK SQUARE ELECTRIC CAR FROM FLOWER MARKET, BOSTON.

WORLD'S FAIR, CHICAGO, 1892.

# The Only Diploma and Medal

AWARDED BY THE COMMITTEE  
WAS GIVEN TO US FOR . . . .



## SWEET PEAS (In Variety)

Grown around the Wooded Island.

### SUNSET SEED AND PLANT CO.

(SHERWOOD HALL NURSERY CO.)

Timothy Hopkins.

PIONEER SWEET PEA SPECIALISTS

### SAN FRANCISCO, CALIFORNIA.

Send in estimate of next season's needs NOW so that we may quote you favorable prices for prime stocks.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

### PALM SEED.

Washingtonia Sonora, Per 100, \$1.00; per 500, \$3.00; per 1000, \$5.00.

CALIFORNIA NURSERY CO., Niles, Cal.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**ASTERS** Queen of Market, white, blue, pink, trace pink, 20 cts. Christenbunnen, mixed; Victoria, mixed; Giant Comet, white; Comet, carnation troke pkt. 30 cts. Lilliput, mixed and red; Victoria tall and dwarf; Perfection, mixed, trace pkt. 35 cts. Dwarf Blancher Primrose, novelty, solitary yellow, small pkt. 50 cts.

**BEGONIA** Semperflorens scalare, netwrk. If you think these are too dear write to Washington and get free seeds.

N. BEALLIE, Upton, Woodhams, L. I., N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## PALM SEED.

FRESH ON HAND

Per 100	1000	2500	
Arecas rubra	\$15	\$150	\$250
Arecas acutella	15	150	175
Glaciosa	15	150	175
Coccinea	15	150	175
King of Hearts	15	150	175
Intarsia	15	150	175
Phanias desoxyflera	15	150	175
... reticulata	15	150	175
... glaucocoma	15	150	175
Washingtonia	15	150	175
Zamia integrifolia	15	150	175
Asparagus plumosus	15	150	175
Ardisia coccinea	15	150	175
... full line of Conifer Seeds now in stock.	15	150	175

J. L. SCHILLER, Rutherford, N. J.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Would Sell the Earth.

I believe that an ad. in your paper would sell the earth. C. HUMPHRED, Clay Center, March 23, '97.

### JAPANESE IMPERIAL CONVOLVULUS SEED.

Very bright, plump and well cleaned. Grown by the Japanese in American gardens in Japan for 25 years. A mixture of the finest and most carefully selected strains. \$2.00 per lb., \$2.50 per 10 lbs. Order at once. Shipped immediately. Terms net cash 10 days. JACKSON & PERKINS CO., Newark, New York.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE



**BURPEE'S SEEDS**

WHOLESALE PRICE LIST FOR FLORISTS AND GARDENERS

### SPECIAL OFFER. SWEET PEAS.

Apple Blossom, rose-pink	20c.
Bianche Perry, pink and white	20c.
Mrs. Stapley, white	20c.
White Gazelle, white	20c.
Dorothy Fontaine, mauve	20c.
Little Peppercorn, white	20c.
Lottie Eckford, lavender	20c.
Dixie of character, ray-streak	20c.
Belle of France, white and blue	20c.
Empress, white and crimson	20c.
Dorothy Fontaine, mauve	20c.
Empress, white and crimson	20c.
Princess of Wales, white and mauve	20c.
Cardinal, scarlet	20c.
Empress, white and crimson	20c.
Capt. of the Blue, blue	20c.
Empress, white and crimson	20c.
Empress, white and crimson	20c.
Empress, white and crimson	20c.
Empress, white and crimson	20c.

JOHN GARDINER & CO., P. O. Box 1306, Philadelphia, Pa. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# GET THE BEST ASTER SEED

of the celebrated **Semple Aster**, mixed. Separate colors all sold except pink. Seed well cleaned, plump and good. Crop of 1896. For sale in any desired quantity by

**JAMES SEMPLE, Box 2, BELLEVUE, PA.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# SEVEN SWEET PEAS FOR THE MILLION

In same size packets, the Seven Superb Sweet Peas described below would have cost \$3.10 in 1896, but are sold now for only 25 cents.

**25 Cts. buys these Seven Superb Sweet Peas:**



**CROWN JEWEL.** Pale standards, tinted and veined with violet-rose; the wings are creamy, slightly tinted with rose; a most profuse bloomer.

**GRAY FRIAR.** Entirely unlike any other Sweet Pea. A most beautiful mixture of purple on white ground, the heaviest coloring being on the back of standard. The flowers, of hooded form and large size, are borne three or four on a stem.

**LITTLE DORIS.** Carmine-tinted pink; standard of fresh form, large, white wings, slightly tinted, the colors beautifully harmonized; a superbly lovely variety.

**METEOR.** Truly an exquisite variety. Standards bright orange-salmon, wings delicate pink, with slight veins of purple.

**MRS. JOSE CHAMBERLAIN.** The flowers are truly enormous, and produced generally three to four on a stem. The color is very effective—a white ground heavily striped and marked light rose; the stem very striking.

**RAMONA.** Grand flowers of very large size, borne three or four to the stem; color creamy-white, delicately spangled with pink.

**"1897" Special Superfine Mixed.** This mixture is composed of the finest New Large-Flowered Sweet Peas. It is a choice blending (each grown separately and mixed by ourselves), which can be easily recognized in the flower.

25 Cts. buys all the above—Seven Superb Sweet Peas, each in full-size, separate packet, true to name as described, and mailed, postpaid, to any address.

**For ONE DOLLAR** we will send five complete collections as above for all 25 pcts., and give FREE as a premium one full-size packet each of CROWN JEWEL and RAMONA. provided it is stated when this offer was seen. Please try to get up a club of Five for One Dollar.

With every collection we enclose a copy of "How to Grow High-Grade Sweet Peas" by the HAMILTON METHOD." Tells plainly just how to succeed in growing to full perfection the finest High-Grade Sweet Peas—such as are contained in this unequalled collection.

Florists and agents who wish to make a business of selling these collections will be supplied at the rate of \$2.00 per dozen collections, by mail, postpaid, but without the premium packets. We have prepared this collection to extend our trade and still further increase the popularity of SWEET PEAS—the people's flower. The price is too low to yield us any direct profit, and whether one dozen or one hundred dozen are ordered, we cannot send the collections, by mail, postpaid, for less than \$2.00 per dozen. By express the price is \$1.50 per dozen, or \$15.00 per hundred collections. It would be easy work to "make money and do good" by selling these collections. We will supply **Lithographed Leaflets**, showing these Sweet Peas painted from nature, free of charge to those who order one dozen collections or more.


### BURPEE'S SEEDS GROW!

We will mail FREE to any address

## BURPEE'S Farm Annual

**For 1897.** The Leading American Seed Catalogue. A handsome new book written by Furdook Farm. Tells all about the BEST SEEDS That Grow. Hundreds of illustrations; good, new vegetables and beautiful rare flowers painted from nature.

Send a postal card for it TO-DAY!



**W. ATLEE BURPEE & CO.,** Seed Growers, PHILADELPHIA.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## Herbaceous Plants.

Paper read before Pennsylvania Horticultural Society, Feb. 16, 1897, by Joseph Metchin.

Having been invited by my secretary to read a few notes on the subject of the night, it has given me great pleasure to accede to his request. Though left to my own measure, I have suggested the name "Herbaceous Plants," and I at once decided to adopt it for, from this class of plants, an enormous number of plants derive pleasure than from any other. The herbaceous plants of our woods and fields are very varied, and I have seen in many of our most beautiful kinds almost exterminated, speaking of the vicinity of this city. There are hundreds of sorts which can be found, the looking for and finding the names of which would afford great gratification.

Referring to these, as well as to the herbaceous plants of other countries, there is a feeling of satisfaction to be derived from their cultivation. While for the sake of many of our cold, bedding plants will always be in demand, they will never occupy the place in the affections of the people that herbaceous plants do. The veranicas, the hollyhocks, the gladioli, the columbines which grow in the garden or in the woods, we never regret to get to know them, then, to know the spots to which we were wont to eagerly watch for their reappearance, and to find some loved friend. It is this reappearance, and not the winter's absence, that makes them so welcome to all.

## Transplanting Can Be Successfully Accomplished.

It is common to hear persons say, when viewing some woodland beauty, "How I would like to transplant it to my garden." While it is true that but few transplants in getting such plants to flourish in their new homes, it is not always true, and knowing how to do it, we can do it. Let me mention the trailing arbutus, Epimedium, as an illustration. It is the common belief that it is best not to transplant, and more than once I have directed gardeners who have asserted this in public print, to transplant it, and it successfully, so have many others. Two years ago, when in England, I saw a nice patch of it in a garden, and many other large nursery firms there, and I said to the lady who owned it, so that it follows that it is not a native there, the plants were safely transported from their original home, and they have since flourished as well as the plants which were not disturbed. It would not thrive in the open garden, but if small, bushy plants with a good ball of earth be taken and set in a woodland where the required conditions exist, they will live and flourish.

With native plants, a little care should be taken to provide for them situations as near as possible to those they have been accustomed to. There are shade-loving plants, and those that grow in open places. It often happens that a party shady border is at command, where those that demand it can be placed. It does not always follow that a wild plant is found growing in the best possible place for it. Take, for example, the scarlet Columbine, found on dark rocks along the Wissahickon. I have seen better places for it in open places in gardens than ever I have seen wild, no doubt because the garden afforded it conditions that it could not have in the wild.

**Mulching is Necessary.**  
To those who have not tried it, it would be a great surprise to find how much better plants grow when the ground about them is well mulched. In fact, many of them feel more nearly at home than anything else that could be done, save the giving of water to some extent. In fact, many of our woods have shade above them and decaying leaves about them, and those in fields and on the grass or other places, and so it is that in both places the roots are cool. This is what mulching of the garden plants is all about, and it is a most important feature. Another thing rarely thought of is this: The wild plants in the woods are often cut with the axes and the roots do not get to their roots. I am sure that all plants, hardy or not, are the better for a good mulch, and that the plants in the fall, that the roots may have a winter covering. As herbaceous plants will repay the best given in the fall, and that with manure in the fall. Let it be long manure, the better to protect the plants; the straw or horse manure is better in the spring; the remainder can be left undisturbed; it will be loose, and often it will be sufficient mulching for the summer.

Next to mulching there is nothing like a constant stirring of the soil. Let me say here that I have found many workmen in

gardens totally unacquainted with the principles of hoing. The hoe is drawn over a surface already hard, cutting of the weeds close to the ground. Then the weeds are brought up to the surface, and the soil is in a worse condition than before, for the weeds shaded the surface if they did rob the ground of their food, and the hoeing tends to loosen the soil as to destroy weeds. Every stroke of the hoe should loosen up an inch more soil, and the loose soil should not be raked down too fine, or the first heavy rain will heat it down very hard. One word hardly above what a really constant cultivation of this kind is to herbaceous and all other plants. And when rains come, the water is all taken up where it falls. Good mulching preserves the looseness of the soil in the same way. I am sure that very many one of our lovely native flowers could be successfully grown if mulching or hoeing would be made a feature of cultivation.

## How to Propagate.

The propagation of herbaceous plants is mostly by division of the root or by sowing seeds, though when the seeds are small as in hard many sorts can be increased by cuttings. A little practice will suggest the best way to propagate. The seedling will show it after a year or two's growth, by the clump-like appearance displayed. There is no set time to propagate. Very early spring is an excellent time; so is early fall. If done late in spring, the summer's heat comes, and the plants do not before well rooted, and to late fall frosts before in the same way. The sowing of seeds is an interesting as well as a successful way; this work should be done early in the spring, not of doors, just as soon as the season will permit. There are some kinds, such as our wild aster, which are the better for being sown in the fall. Just before the ground freezes up will do with the wild aster, and appear early in the spring, and, what is more, they will flower the same season, in the fall. It was my thought to name some fifty kinds of herbaceous plants, giving the months in which certain ones flower, but as the catalogue was getting too long, and information it seems hardly an advantage to do it here. I will but say that, commencing with April and ending with November, something can be had for every month of the year.

## A Few Words About Ferns.

As the catalogue was to name plants I will diverge a little and speak of ferns. I believe that all of us who possess a garden, be it ever so small, have a place for

new ferns. What they require above all else is shade. It may be the eastern or northern side of a dwelling, on a wall, or any other situation where the afternoon sun is not so hot. They flourish in it all. Under trees is not suitable as a rule. The roots of the trees exhaust the soil of the ground, and the water runs down the streams on the fronds, both to the injury of the plants. My own collection of native ferns is not so large as that of my neighbor's house, which forms a division line. The sun shines on them until noon, and they flourish in it all the day, as possible way. Among the twenty-five sorts collectible about our city some half dozen are the evergreens, and these should certainly be planted. The time to collect ferns is toward late summer. All the kinds can be secured then, and they are being fully matured the height to which they attain is shown, and the proper place for them in the garden can be determined. Take a good ball of earth with them, if possible, though as it is easy to get all the roots, it is not difficult to transplant without this.

## The Royal Gardens, Kew.

During the trip to England, already referred to, it was my privilege to visit many large private grounds, and though the climate is not so good as that of our country, particularly favorable to the cultivation of herbaceous plants, I cannot say that I saw any abundance of more interest in them there than is displayed here. But let any one who wishes to see them in perfection visit the Royal Gardens, Kew. The department for these plants is supposed to contain everything hardy, and to have every plant correctly named. And as far as possible to every plant has been given a position it prefers. There are swamps, bogs, dry rocks and damp rocks, shady nooks and open places, all filled with flourishing plants. With notebook in hand, after two visits, I did not nearly make record of all I would have wished to have done. In the woods and fields visited I did not find nearly as many wild plants as in similar situations here abroad. No doubt it is there as it is here near large cities, those who do not wish to dig or pull them up, and they soon disappear. On reaching these shores again, after my travels abroad, I did not feel a little pride in the beautiful scene presented on each side of the track as the cars sped on from New York to Philadelphia in the month of August, and, while full of recollection of the never-to-be-forgotten kindness shown

to me by the good friends I had parted with before my departure, I saw the picture before me could not be prated, or any other shore. Crossing the Delaware at Pottsville, I saw the most interesting Pennsylvania, my feelings can be expressed by quoting these lines from Byron:

Yet are they skies as blue, they grass as wild:  
There are they grows and verdant are the fields.

For look wherever I would, cultivated fields,  
The trees of the forests, and the wild flowers,  
I saw them all, and I could not see never to have looked so beautiful.

## Richmond, Ind.

E. G. HILL at this present time, while surrounded by those magnificent varieties of carnations recently sent out, has still others clamoring for recognition of their several virtues. Jubilee, named in anticipation of the silver anniversary of Mr. and Mrs. Hill, will undoubtedly hand their name, through it, down to posterity, for it has only begun to be understood and its time rolls by its merits will become more conspicuous. Triumph must be cut before the prize-winner at Cincinnati, stands erect, as it flowers, congratulating itself upon its recent success. Close by is the variety Flora Hill; its supple form and chaste appearance are well contrasted with a very beautiful variety of bewitching charms. Next year it will see it out to share the honors which will doubtless be heaped upon it in recognition of its merits, and a variety whose only failing is bursting, but that does not damage the flower. There are a host of seedlings yet untried. Many must be discarded, and great care will be taken to confine the list to such as have some merit. Some of the most interesting introduced. Two were noticed more particularly, one a cross between Helen Keller and Mrs. Hill, and the other a cross between Boston Dor and Flora Hill.

The varieties being sent out by Mr. Hill this season will be of great interest, and will be well fed to obtain good crops. This is evident here, notice also that they are very free bloomers, so that cuttings are scarce, and many orders cannot be filled so soon as could be desired. Neither the Helen Keller, nor the Boston Dor, cuttings, judged by the stock from which they are taken and their condition in the seed bed.

While close attention is paid to carnations, it is not to be forgotten that new varieties not yet generally known, a beautiful white hybrid tea, Mme. Jules Flegre, that is the best and most profitable, probably grown as a bench rose, it will create a furore. It is a lovely thing and will have a host of admirers at its debut.

Of new geraniums, La Vienne is a decided improvement on Mme. Pearson; other ones are the Jasper and the very crimson-scarlet, and Iris (Brazant) a glowing scarlet, with immense tuss.

Another variety, which marks a new departure in the early hybrid class. In roses for blooming purposes, Paris and the new variety, which is a cross between a grand house of Carnot for Easter.

W. M.

## Terre Haute, Ind.

J. G. HEINL & SON consider their advertisement in the Exchange as the most profitable investment ever made. Orders for neprolepis and violet, Princess of Wales, came in a large number of telegrams, and the stock of the former and greatly reducing the latter, which is very fine. They grow a large number of neprolepis and violet, in 5, 6 and 7-inch pans—most on top. In 1896 they had a single factory plant for a house, and in 1897 they had a grand profusion of ferns extant. Princess of Wales is a grand violet and is going to the front.

J. G. HEINL & SON, is at present sojourning in Mexico; his son Fred. is working partner.

W. M.

## Detroit, Mich.

J. BREITMEYER & SONS, in addition to sending out the carnation, Mayor and the violet, in the month of May, of which at the time of my visit I saw one thousand Marie Louise used in the formation of a handsome wreath.

W. M.

## Dayton.

H. H. RITTER reports a good season, although decorations have been fewer than usual.

W. M.

## G. B. BENEDICT ...FLORIST... \* \* \* \* \*

Palms and Ferns of Extra Quality Always on Hand.

*Cancelled, A. B., Feb. 11th, 1897*

Mr. H. A. Stoothoff.

Dear Sir:—

I am glad I can endorse Tobac-Oil. What I say is absolute fact, not fancy. My own certain ferns and common bedding stock, callas, palms in fine variety, orchids in bud bloom, etc. To brother florists desirous of a safe article for destruction of Aphid I say: Use Tobac Oil. I find it safe and clean, doing the work thoroughly. I have used it where tender ferns and delicate flowered orchids were in bloom and they showed no ill effects. It can be vaporized, and hardly any odor is noted when house is filled with vapor, which permeates the air in a very few moments; customers could come in any time during the vaporizing process and I do not think they could notice any objectionable odor. The work done by it is truly magical. I am glad to recommend it. I apply it by placing the required quantity of Tobac-Oil (diluted) in an iron stone kettle, removing the griddle from my coil heating boiler and inserting the kettle; soon the Tobac-Oil is to a boiling pitch and the vaporizing done. Respectfully yours,

*G. B. Benedict*

# EASTER NOVELTIES.

## Papier Maché Pot Covers

Sizes, 6, 7 and 8 inches.  
Gold, Silver, White and Brown.  
Fine Assorted Patterns.

The Low Price will permit your Giving Them Away.

The CHEAPEST and BEST ADVERTISEMENT: Quantity is limited. Get your order in soon. Our stock of all kinds of

## Florists' Supplies

is complete, such as Baskets, Celluloid and Willow Pot Covers, Plateaus, Dishes, Doves, Prepared Cynas Leaves (imported), Wheat Sheaves (our specialty), Bouquet Papers, Artificial Flowers and Leaves, Metal Designs, in fact anything an up-to-date florist can wish for.

Your orders will receive  
Our prompt and personal attention.

# M. RICE & CO.

25 North 4th St., Philadelphia, Pa

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## CANE PLANT STAKES

3 to 6 ft., per 1000, \$2.00.  
6 to 8 ft., " " 3.00.

Ready Now. Cash with order.  
Will ship light, because well dried.

W. H. HENDRIX, Bowling Green, Ky.

**W. C. KRICK'S**  
Immortelle Letters,  
ETC.  
Medal awarded  
at the World's  
Fair and Highways  
and wherever  
Exhibited.  
These Letters and  
Designs are made of  
the best Immortelle  
wired on wood or  
metal Frames in the  
holes drilled in them  
to insert tooth-picks,  
by which they are  
fastened in the de-  
sign. Give them a  
trial. You will find  
these goods to be  
superior to any  
in the market.  
10 Letters \$2.50  
per 100. Foreign, 15c per 100. For other styles of  
Letters, Embosses and Designs, send for catalogue  
before purchasing send for free sample and catalogue  
and compare with any other letter on the market.  
For sale by all Florists' Supply Dealers.

THE  
Perfect Flower Pot  
Handle and Hanger  
is used for lifting  
plants out of pot-  
teries, also for hanging  
up plants for decora-  
tions on walls, etc.  
Will sustain a weight  
of 100 lbs. No. 1 will  
fit from 12 to 18 in.  
per doz., 35c. No. 2  
will fit from 1 1/2 to 3 1/2  
in. per doz., 30c.  
No. 3 will fit from 8 to  
12 in. pots, per doz.,  
30c. Postage 10c. per  
doz. Sample pot free.  
postpaid.

W. C. KRICK, 1287 Broadway, Brooklyn, N. Y.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## PAPER AND TWINE.

Toothpicks.  
Paper Bags.  
Waxed and Tissue  
Papers—all sizes.

H. A. SOHL, 147 E. 42d St.,  
New York.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## Boston Florist Letter Co.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

This wooden box nicely stained and varnished, 18x20  
12 inside in two sections, one for each size letter, gives  
away with first order of 100 letters.

Block Letters, 1/2 and 2 each size, per 100, \$2.00  
Script Letters, \$4.00  
Foreign with each letter or word.  
Filled by leading florists everywhere and for sale by all  
wholesale florist and supply dealers.

N. F. MCCARTHY, Treas. & Manager.  
Office,  
25 CORNHILL, BOSTON, MASS.

## MEYER GREEN SILKALINE.

Used for Dressing SMILAX and ASPARAGUS.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# FLORISTS' SUPPLIES

LARGEST STOCK IN THE COUNTRY.  
All goods up to date, and of superior quality. Send for Illustrated Catalogue.



## GALAX LEAVES

In any desired quantity.  
H. BAYERSDORFER & CO.,  
58 N. FOURTH STREET, PHILADELPHIA, PA.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## YOU NEED WIRE WORK

WE ARE LARGE MANUFACTURERS  
IN THIS LINE.  
Get our Low List and Save Money.  
ELLIS & POLLWORTH,  
Box 75, Milwaukee, Wis.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## RAFFIA

Of Best White Quality, Braided. Direct from  
the Packers in Madagascar.  
Apply for quotations to  
ANDRE L. CAUSSE,  
105-107 Hudson St., New York.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE



WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# GROUND BONE

Absolutely Pure, \$38.00 per ton.  
RUBBER HOSE at Factory Prices.  
H. F. LITTLEFIELD, 96 Coburn Ave., Worcester, Mass.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE



The Twin Comet Stationary \$5.00  
The Little Giant Traveler 15.00  
**LAWN SPRINKLERS.**  
Best Sprinklers made for Florists and Nurseries' use.  
Will save labor of one man for their price & a large greater  
area than any other sprinkler.  
E. STEBBINS MFG. CO. Sole Agents and  
Manufacturers  
Made for J. B. FELLOWS & CO., SPRINGFIELD, MASS.  
44 Warren St., N. Y. City. Will send you 5 days' trial.  
Agents Wanted. Can make big money.

# A GREAT SELLER.



THOMAS MEEHAN, Phila. "A great advance over the ordinary garden trowel."  
PROF. L. H. BAILEY, "I find it very serviceable for transplanting. It is the  
most useful trowel I ever used."  
JOHN LEWIS CHILDS, "The finest thing for garden work we have ever seen.  
For transplanting, lifting and setting plants it has no equal."  
ERIK REXFORD, Schictown, Wis. "I had them just what I have long wanted.  
They must prove invaluable for outdoor work. I give them my unqualified approval  
for greenhouse use."  
F. H. HORSFORD, Charlotte, Vt. "The best trowel for garden use I ever saw."

PRICES:  
No. 1, 8 inch, Tempered and Polished - per dozen, \$3.00  
No. 3, 5 inch, Bright Steel, - - - - - " " 1.25  
Trade Discount, 30 per cent.

A Special Inducement for Early Orders! Freight or express charges will be paid to any point in the U. S. on any order for three dozen or more of these trowels (any assortment) accompanied by cash and received before April 15th, 1897. Your orders respectfully solicited.

THE WHITNEY-NOYES SEED CO., Binghamton, N. Y.  
Manufacturer's Sole Agents.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# COTTAGE GARDENS

## Spring Trade List

### CANNAS. STRONG PLANTS.

Burbank, -	each,	\$1.00;	dozen,	\$8.00
Italia, - -	"	.50;	"	5.00
Austria, -	"	.30;	"	3.00

The following at \$3.00 per 100, strong started plants, ready now, or at \$4.00 per 100, 3 inch pots, May delivery: Chas. Henderson, A. Bouvier, Count H. de Choiseul, Sophie Buchner, Geoffrey St. Hilaire, Ehemannii.

The following at \$5.00 per 100, strong started plants, now ready, or \$6.00 per 100, 3 inch pots, May delivery: Sunbeams, Egandale, J. D. Cabos, President Carnot, Star of '91.

### CHRYSANTHEMUMS.

#### STRONG STOCK, FROM 2 INCH POTS.

The following at 75 cts. per dozen; \$5.00 per 100; the set for 75 cts.: Riverside, Rena Dula, Yanoma, Liberty, Phryne, Mrs. T. D. Hatfield, H. W. Rieman, Lady Fitzwygram, Modesto, Lenawee, Violescent, J. R. Keim, Mrs. S. T. Murdock, Mrs. R. Crawford, Invincible.

The following at 60 cts. per dozen; \$4.00 per 100; the set for 75 cts.: Glory of the Pacific, Wm. Simpson, Pink Ivory, Mrs. H. Robinson, Ivoire Rose, Pride of Castletwood, Nanshon, L. D. Black, Mrs. W. P. Raynor, Mrs. Perrin, Miss Gladys Spaulding, Red Warrior, Headlight, Clarence, Signal Light, Midnight, Mrs. W. C. Egan.

The following at 50 cts. per dozen; \$3.00 per 100; the set for 50 cts.: The Queen, Marion Henderson, Ivory, Yellow Queen, Major Bonnaffon, Mayflower, Helen Bloodgood, Philadelphia, Merry Monarch, W. H. Lincoln, W. N. Rudd, Erminilda, Eugene Dailedouze.

All Orders for less than \$10.00 must be accompanied by Cash. Satisfactory references required from unknown parties.

SEND FOR OUR DESCRIPTIVE TRADE LIST.

# COTTAGE GARDENS, Queens, L. I.

C. W. WARD, Manager.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

### CARNATIONS.

Mrs. Chas. Duhme, Mrs. Geo. M. Bradt, Mayor Pingree, Harrison's White, Lily Dean, Mand Dean, Victor, Morello, at \$10.00 per 100.

C. A. Dana and Mrs. McBurnie, at \$12.00 per 100. Jubilee, at \$6.00 per 100.

Alaska, Scott, McGowan, at \$2.00 per 100; \$12.50 per 1000.

Bridesmaid, Storm King, Daybreak, Abundance, Goldfinch, Eldorado, at \$3.00 per 100.

### DAHLIAS.

12c. each; \$1.20 per doz; \$7.00 per 100.

#### Set of 25 Double Large Flowering Varieties, for \$1.75.

Arabella, A. D. Livona, American Flag, Black Prince, Duchesse of Cambridge, Dandy, Ethel, Fern Leaf, Beauty, Frank Smith, Henry Patrick, John Kynes, King of Cactus, Lyndhurst, Miss Browning, Miss Barry, Mrs. Geo. Reed, Mrs. Dexter, Nymphæa, Nero, Oban, Prince Bismark, Penelope, Pluton and Souv. de Madame Moreau.

#### Set of 8 Grand Cactus Varieties, for 75 cts.

Bronze Cactus, Fireball, Miss Jennings, Oriental, Red and Black, Sunlight, True Model, Unique.

#### Set of 10 Pompons, for 75 cts.

Aellets Imperial, Catherine, Crimson Beauty, Elfin, Eleganta, Lelia, Little Bessie, Little Prince, Little Diavola, Vivid.

#### The Above 3 Sets of 43 Named Varieties for \$3.00.

#### STRONG POT CROWN PLANTS.

### BOSTON FERN <sup>2 inch Stock, \$5.00 per 100</sup> <sup>\$40.00 per 1,000.</sup>

Society of American Florists. Revised Rules Relating to the Management of the Annual Trade Exhibition.

1. The Society of American Florists shall, through the Executive Committee, control all features of the trade exhibition.

2. There shall be appointed annually at the winter meeting of the Executive Committee a superintendent of exhibits. The vice-president of the S. A. F., or the local organization in the place where the convention of the current year is to be held, shall be invited to recommend such superintendent for election by the Executive Committee, as aforesaid. Said superintendent shall have general charge of all displays under seven days' full service and pay at and during the exhibition, he shall receive all applications for space and assign the same in the order in which they are received by him. He shall provide and arrange all necessary tables and staging.

3. It shall be the duty of the superintendent of exhibition to furnish the secretary with a full report of the exhibition; said report to be introduced in the annual report of the society.

4. Exhibition space shall be designated in square feet. A maximum charge of 25 cents per foot for all space less than 12 feet; more than 12 feet and less than 50 feet, 21 cents; more than 50 feet and less than 100 feet, 15 cents; more than 100 feet and less than 200 feet, 13 cents; more than 200 feet and less than 1,000 feet, 17 cents; 1,000 feet or over, 15 cents. No entry to be accepted for less than 2'. No charge shall be made for plants and flowers entered for exhibition only.

5. Wall space shall be measured four feet in height, and when practicable a table not less than one foot wide with it added gratis, if desired and applied for with entry.

6. Exhibition classes to be arranged as follows: A—Plants; B—Cut Blooms; C—Greenhouse Appliances, including Flower Pots; D—Florists' Supplies, including Flower Barthenware, F—Balls and Seeds; G—Miscellaneous.

7. Exhibitors may group their goods together, excepting in the case of hanging plants and cut flowers. These shall be shown in a separate department from the other classes.

8. Judges shall be appointed by the president and secretary at least a month before the exhibition. The president and secretary may appoint substitutes in place of judges, who may be absent.

9. Awards shall be given as follows: Highest—Certificate of First Service; Honorable Mention. Third—Highly Commended.

10. Judges shall be governed by the merits of the article exhibited, and shall state in their report on what special points of excellence awards were based.

11. The judges shall withhold awards on unworthy exhibits.

12. In any case any article or device has received an award at a previous S. A. F. exhibition, awards shall cover subsequent improvements only.

13. No award shall be made covering the quality of seeds, fertilizers, paints and other articles of such nature that an intelligent opinion cannot be had without a practical test; but awards for creditable display may be given.

14. The exhibition shall be closed between the hours of 2 and 4 P. M. on the first day of the convention, during which time the judges shall pass on the exhibits, and they shall report promptly to the secretary on the same day. Exhibitors shall be excluded from the hall while the judges are at work.

15. Exhibits not in position before 1 P. M. on the first day of the convention may be excluded from the report of awards.

16. Days of exhibition shall be closed five minutes before the opening hour of each session of the society and remain closed during the session.

17. Exhibition to be open not less than two hours before the opening of the morning session, to remain open during the day, except during session hours, and as provided in section 13, and to remain open one hour after the closing of the evening session.

18. No article exhibited shall be removed until after the close of the last day's session, except by permission of the superintendent of exhibition.

19. All disputes not covered by rules or published action of the Executive Committee shall be referred to that committee.

GROUND BONE

An Absolutely Pure Article.

Our Bone is used by the largest and best growers.

ANIMAL FERTILIZER,

Containing Eight per cent. Potash. Superior to Sheep Manure.

HOSE,

Made especially for Florists' use, 3 Ply, 5 Ply, 7 Ply.

WIRE

For All Purposes.

H. F. LITTLEFIELD,

96 Coburn Avenue, Worcester, Mass.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

EVERETT B. CLARK & SONS,

Sole Manufacturers of the

GENUINE TROWBRIDGE GRAFTING WAX

and Wholesale Growers and Dealers in strictly New England Glass Needs.

MILFORD, CONN.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

THE



FOR ALL Florists.

FOR SALE BY Seed Stores.

For Free Pamphlet, write to

LOUISVILLE

SEMPER VERE

TOBACCO CO

Louisville, Ky

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

THE JOHN J. PETERS COMPANY

(INCORPORATED.)

PULVERIZED

A Quick Germinator and Crop Forcer.

FACTORY:

Little Ferry, New Jersey.

OFFICE:

Long Island City, New York.



COMPRESSED

Beats Every Chemical Fertilizer on Earth.

Pure Sheep Fertilizer; permanently improves the soil.

Matures the largest and best crops. Quick and lasting in its action.

CLEAN TO HANDLE.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

NATURAL, ODORLESS

Sold by the Seedsmen of America

KILLS SOW BUGS



AND OTHER INSECTS.

Hammond's Paint and Slug Shot Works, Fishkill-on-Hudson, N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE



WALKER'S EXCELSIOR BRAND

A Soluble Food For House Plants

Perfectly Odorless Contains No Acids

It is just the food for flowers, and in a concentrated, easily assimilated form. One lb. box, sufficient for twenty-five plants for one year, etc.; by mail, etc. One-half lb. box, sufficient for twenty-five plants for six months, etc.; by mail, etc. Directions for using on every package, also guaranteed analysis.

We are Headquarters for LAWN DRESSINGS AND FERTILIZERS

Liberal Prices and Terms to the Trade.

WE PAY FREIGHT.

Write us.

The Walker Fertilizing Co.

CLIFTON SPRINGS, NEW YORK.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

TOBACCO STEMS

Large Bales (300 lbs.), \$1.50 ... STRONG AND FRESH

Tobacco Dust, 2c. per lb. Best, the best material for tying, does not rot, the best for filling. It goes farthest and is cheapest; first quality long fibers at 1c. lb. \$100.00 per ton.

H. G. FAUST & CO., 61 & 66 N. Front St. Philadelphia, Pa.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Insecticide Liquid & Powder Sprayers



WHEN WRITING MENTION THE FLORISTS' EXCHANGE

25 cents & cents for each 600 feet of floor space.

Kill and Save the Bugs!

Do not injure the most sensitive plants. Endorsed

Nikoleen

By prominent florists. Used for fumigation on spraying indoors or each 100 pounds of tobacco in one pint of Nikoleen. Sold by seedsmen. Circular from SEABOARD DIXIE CO., CHICAGO.

Quickly Does Its Work

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

STOTT'S FR. TREE L. SOAP.

Is not a new, untried article, but it has the best of testimonials from some of the leading Flower and Plant growers in the country as its merit for destroying Scale, Mealy Bug, Aphis, Red Spider, etc. Is not costly, requiring but one ounce to a gallon of water. Can be had of leading seedsmen, or of the manufacturer.

J. C. PIERSON, P. O. Box 247, NEWARK, N. J.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE



IF YOU IMPORT ANY
FLORIST OR NURSERY STOCK,
Don't forget to ask for Van Fraulsen and Kerseboom's (Roakop, Holland) price list.

LOUIS VAN KOERT, General Agent,
295 Dorchester Street. - So. Boston, Mass.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

F. & F. Nurseries
SPRINGFIELD, N. J.
S. D. & W. R. H.
We grow and keep in stock the most complete assortment of Lady Finger Stock. Catalogue free.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

FAY'S CURRANTS FOR SALE.
Price of 2-year, No. 1, \$220 per 1000.
2-year, No. 2, \$210 per 1000.
3-year, No. 1, \$285 per 1000.

Packing free.

F. BURDET
Clifton, Monroe County, N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

PEACH TREES.

A good assortment of class trees of the most reliable variety, heavily, true to name and thoroughly reliable, none having at remote prices from scab and disease; certificate of entomologist in the presence of J. Agric. College personnel Station sent with price list. If you want reliable peach trees get our prices before you purchase. Also 1,000,000 Reliable Strawberry Plants, of thoroughly tested varieties. Don't throw money away on untested novelties. For price list, address the following:

C. L. LONGSDORF, Floradale, Pa.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

COMMONWEALTH OF PENNSYLVANIA.
DEPARTMENT OF AGRICULTURE.

FLORADALE, Pa., Oct. 17, 1896.
To Whom It May Concern: This is to certify that I have this 17th day of October, 1896, inspected the nursery of the above named firm, and find that the same are free from scab and disease; certificate of entomologist in the presence of J. Agric. College personnel Station sent with price list. If you want reliable peach trees get our prices before you purchase. Also 1,000,000 Reliable Strawberry Plants, of thoroughly tested varieties. Don't throw money away on untested novelties. For price list, address the following:

C. L. LONGSDORF, Floradale, Pa.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

50,000 PEACH lowest prices.

C. L. LONGSDORF, Floradale, Pa.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Rhododendrons of American-grown hardy sorts.

Japanese Maples and other Rare Plants.

Parsons & Sons Co.

LIMITED,
Kissena Nurseries, Flushing, N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

I HAVE A STOCK

of Peas, Cherries, Peaches, Apples, Quinces.

MANY IN BEARING SIZES.

- 2,000 Elms... \$14 to 16 feet
2,000 Firs... \$10 to 14
6,000 Norway Spruces... \$9 to 11
6,000 Sugar Maples... \$10 to 12
6,000 Yellow Pines... \$10 to 12
500 Golden and Scarlet Oaks... \$8 to 16
500 Blood-leaved Maples... \$10 to 12
500 Lindens... \$10 to 12
700 White Fir... \$4 to 8
1,200 Pear Trees... \$10 to 25
15,000 California Prunes... \$2 to 6
25,000 Apples... \$10 to 25
10,000 Shrubs and Climbers... \$10 to 25
5,000 Asters and Rhododendrons... \$10 to 25

Superintendents of Parks and Greenhouses, and all persons wanting stock for their own consumption call on us or write. Two Railroads, New England and Pennsylvania, serve our office.
STEPHEN CRANE, Norwich, Conn.
Proprietor of Norwich Nurseries.
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

GLENWOOD NURSERIES
SPRING OF '97.

- 10,000 Amelopsis Veitchii. Grown in 3-in pots,
names and colors, \$1.00 each per 100.
5,000 Clematis Pancolata. From \$5 to \$10
per 100.
6,000 Rosa Wichuriana. 1, 2 and 3 years old
at \$2 to \$12 per 100.
10,000 Huesuequils in variety. \$60 per 1000.
10,000 Dahlias, unvined, field-grown roots,
names and colors, \$1.00 each per 100.
20,000 California Pruit, 1 to 5 feet. Samples and
prices on application.

Trade List for Spring containing full assortment of Trees, Shrubs and Vines, now ready for sale. For one Correspondence solicited.

THE WM. H. MOON CO., Morrisville, Pa.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

STRAWBERRY PLANTS.

- Strong, Young, Healthy Plants, Securely Packed,
Bearing, Junes, Jewels, Ireland, Wilson,
Splendid, Kentucky, Meeks Early, Middle-
land, Van Deman, Beecher, Grandville, Dayton,
Bevelly, Lady Thompson, Tennessee Prolific,
Thru, Bohannon, Shafter's Gem and Princeton
Chief, \$50 ea. per 100; \$3.00 per 1000.
Marshall, Parker Early, Mary, Belle, Eleanor-
75 ea. per 100; \$7.00 per 1000.
Crescent, Beder Wood, Warned-50 ea. per
100; \$1.50 per 1000; \$10.00 per 10,000.
Michels Early-50 ea. per 100; \$1.25 ea. per
100; \$5.50 ea. per 1000; \$10.00 ea. per 10,000.
Special Prices of 10 ea. on 100; 50 ea. on 500.

No. 1 CUTBERT RASPBERRY-75 ea. per 100; \$6.00 per 1000.
Golden Queen-\$1.00 per 100; \$7.00 per 1000.
For other Fruit Trees, Small Fruit Plants, etc., send for Price List.

CHAS. BLACK, Hightstown, N. J.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

DELAWARE COLLEGE AGRICULTURAL EXPERIMENT STATION.

DEPARTMENT OF HORTICULTURE AND ENTOMOLOGIST.

G. HAROLD POWELL, Horticulturist and Entomologist.

NEWARK, DEL., Dec. 15, 1896.
MR. A. PULLEN, Newark, Del.: This is to certify that I have examined a large number of trees of the following varieties for such yellow, black rosetts and San Jose scale, and have been unable to find any of these parasites or any other injurious insects or disease.

G. HAROLD POWELL, Horticulturist and Entomologist.

DELAWARE COLLEGE AGRICULTURAL EXPERIMENT STATION

PEACH & PLM TREES.

FOR SPRING DELIVERY, 1897.
Reliable and clean stock at low wholesale rates. Send for Sample List.

ASPARAGUS ROOTS.

2 and 3 Years, Strong.
ALEXANDER PULLEN,
Hilford Nurseries, MILFORD, DEL.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

CUT PRICES TO THE TRADE, SPRING OF 1897.

Table with 3 columns: Item name, Quantity, Price. Includes Evergreens, Fruit trees, and various shrubs.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

FRUIT TREES. EVERGREENS.

- Bearing Age Apples, Cash Apples, Pears, Cherries, Plums, Quinces and Apricots. Prices given on application.
Pears-Annabell, Saturna, Wild Goose, Smith's Orleans, Strickland, Duff, Niagara, etc.
Light, Co., extra-class, 10c.; first-class, 15c.
Oranges, 2 to 3 ft. 5c.; 2 to 4 ft. 8c.
Magnolia, 3 to 4 ft., 10c.; 4 to 5 ft., 15c.
PEACHES-4 to 5 ft. and 5 to 6 ft. at low prices.
CRAP APPLES-Bearing Age..... 35c.
Concord, 3 years..... \$1.50 per 100

GRAPES. 100,000 PREET.

- 12 to 15 inches..... \$1.60 per 100
15 to 20 "..... 2.50 "
20 to 24 "..... 3.50 "
2 to 5 feet very heavy, 4.50 "
Price for larger sizes given on application.

AZALEAS. JAPAN MAPLES.

- Choice varieties, strong plants, 50c.
MOLLS-Strong..... 50c.
12 to 18 inches..... 25c.
18 inches to 2 feet..... 30c.
2 to 3 feet..... 45c.

TREE PEONIAS. PHLOX.

- 30 named varieties, 2 years old, heavy, 50c each.
25 var., field grow clumps, \$5.00 per 100
2 1/2 in. pots, plants will bloom this Summer, at \$3.00 per 100

SHRUBS.

- Deutzia Sothra, Spiraea laevifolia, Spiraea Van Houttei, Spiraea crenata, Spiraea Barmada, Spiraea Girardinii, Spiraea laevifolia, Spiraea Portiana Red, etc.
The above varieties of shrubs at \$5.00 per 100.
Single Flowering Hawthorn, 4 to 6 ft. \$10 per 100.
Double Flowering Hawthorn, 4 to 6 ft. \$15 per 100.

ELIZABETH NURSERY CO., ELIZABETH, N. J.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

CUT PRICES TO THE TRADE, SPRING OF 1897.

Table with 3 columns: Item name, Quantity, Price. Includes Fruit trees, Evergreens, and various shrubs.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

JENKIN'S EVERGREEN AND SEEDLING NURSERY, WINONA, OHIO.

## Ten Degrees Below Zero

is the temperature that has been undergone without injury by unprotected yearling plants of the new climbing rose

## AGLAI<sup>A</sup> OR YELLOW RAMBLER

in our nurseries the past Winter, thus proving it to be even harder than we had supposed.

## A Hardy Yellow Climbing Rose

is what everyone has wanted for years and Aglai<sup>a</sup>, therefore, an immensely important introduction.

## 150 Blossoms in a Bunch

have frequently been produced by the Yellow Rambler, for it has the same manner of blooming in splendid big clusters as does the Crimson Rambler to which it is a splendid companion rose and probably related. The color is a clear decided yellow; the flowers of moderate size, very fragrant and last three to four weeks. The habit of growth is very vigorous, well established plants making shoots eight to ten feet high in a season.

## We are the Introducers

of this rose in this country, having been so appointed by Mr. Peter Lambert, the originator.

We are also prepared to offer plants of two other valuable climbing roses:

## EUPHROSINE or PINK RAMBLER

Color a clear light red; otherwise very similar to Aglai<sup>a</sup>.

## THALIA or WHITE RAMBLER

Pure white; same style and habit as Aglai<sup>a</sup>.

## WE WANT EVERY FLORIST

to handle these three roses among his customers and to anyone who will do so, agreeing to depend upon us for his supply of plants.

## WE WILL SEND FREE OF CHARGE

a beautiful colorotype plate illustrating the Aglai<sup>a</sup>, together with 100 handsome descriptive circulars with name and address stamped upon them. Send at once.

Price for strong plants from 2½ inch sps,

**\$15.00 per 100.**

Send for our Trade Lists of other Roses and General Stock.

# JACKSON & PERKINS CO.

NEWARK, Wayne Co., N. Y.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

SGSGSGSGSGSUNNYWOODSGSGSGSGREENHOUSESGSGSGSGSGSG

## BRESNAH

PARENT STOCK still exists in perfect condition at the Sunnywoods Greenhouses.

Have also The Bride, Beauty, Testout, Carnot, Meteor, Cusin and Perle.

FRANK L. MOORE, Chatham, New Jersey.

SGSGSGSGSGSUNNYWOODSGSGSGSGREENHOUSESGSGSGSGSGSG

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

### Soils and Potting.

Before the Massachusetts Horticultural Society Saturday, March 20, T. D. Hatfield, of Wellesley, read an interesting paper upon the above subject, of which the following is an abstract:

"This subject is most important, both from the gardener's and the farmer's point of view. Gardeners seldom agree fully, about the proper soil for any crop. Soil may be heavy or light, land high or low, with much variation of exposure. We often wonder at our neighbor's success under conditions where we should consider failure certain. An acquaintance of mine, a gardener at Cape Ann, told me that the only potting soil he could find was turf from what had once been a salt marsh. After it had been broken up and exposed to frost and air, he found he could grow almost anything in it.

"Sometimes we have a lot so springy that it cannot be cultivated till late in the season, and again a soil so dry that we must irrigate for all but early crops. A dry soil is easily worked, but holds substance poorly, and therefore needs frequent manuring. A heavy soil is probably best and holds manure better. By autumn ploughing and cultivating the ground in plots, one can bring it into good friable condition.

"We gardeners believe in 'leaving well enough alone,' and there are methods which we confuse because it is the custom, though we cannot explain why. Much must be learned by experience.

"We read in old books, 'one-third of turfy loam, one-third of leaf-soil, and one-third of sand,' or it may be fourths, including rotted manure, or fifths, with peat added. This accounts for over-watering, is slow, and but few mixtures of soil are in use to-day. Leaf-soil, one of the best ingredients in any compost, is seldom used except in private gardens. Well-rotted manure is a good substitute. However, the soil should be light for potted plants and there is less danger from over-watering with the hose. Rose growers always find means of meeting the wants of the soil. They may add clay, but can generally do without it.

"With azaleas it used to be considered necessary to use English peat, and 80 per cent. of these plants are still so grown in England. But look at the azaleas grown by Mr. Sanders, gardener to Professor Sargent, of Brookline, and you will see that azaleas can be grown in soil almost wholly lacking peat.

"There are other considerations almost as important as the soil and its consistency. For glorioxias I tried various kinds of soil, all to little advantage. With these plants much depends on care for the tubers during the so-called resting season, though they are never absolutely at rest, and it is a mistake to remove them and store in dry

sand. They should never become thoroughly dry for living shoots will always be found which require some nourishment. Start with sound, healthy roots, withholding water until some leafgrowth is made, and keep near the light, and then glorioxias will succeed in almost any soil.

"I have had a hot compost heap. Good turfy loam is not plentiful, and some of us have found how to get along without it. Old houses and greenhouses are extremely careful in mixing their potting soil, but the American grower prepares his in the best without a foot of turf. The best method is to cultivate the area for strip-ping, growing there a crop of clover with no other object beyond turning the best of what is put into the soil as manure, into plant food of the kind which the carnation most needs. The American grower raises the better carnations, though it is true he has better light during winter time, has made a specialty of the work, and has originated a new type of carnations. This shows that the importance of a prescribed composition for soil is overestimated. I have grown carnations in soil from the common compost heap which were just as good as those grown in special soil.

"In a sandy soil the roots are gently turf trimming to be done and I used to get enough in this way for a season's use; but now I get a quantity of leaf-soil. I mix it with two loads of the best manure—sheep manure is preferred, as it is richer, so that I get a quantity of leaf-soil. I layers alternately with pure ground bone; fermentation starts, and the soil is heated to 150 degrees Fahrenheit, which will kill all insect life and weed seeds and makes the bone meal available as plant food. Bone meal should be worked into the compost long before it is needed as it is not fit for use until fermentation has subsided. It should never be used as a top dressing.

"I have said that light soil is best for potted plants, but a man may get along with heavy soil if he handles them carefully. Injudicious watering will lessen the value of the best compost, and lack of air and proper watering would ruin the best plants. In potting plants, have clean pots. If new, de-odorize, that is, heat them in water. If old, wash with moist earth and leave for a day or two. This earth should not be used again. Next to the soil is the manure. The best material is crocks or broken pots. Cool ashes, though excellent for many plants, is bad for others.

"Plants which do the greater part of their growing in winter time, as well as those which require a long time without retting, require more care. All potting should be done firmly and for the most part by hand. Plants which grow quickly, geraniums, heliotropes, coleus and fuchsias—what gardeners call soft-wooded plants—need less care.

"The best of liquid manures for potted plants, to continue the productiveness of those which are used, is that which the resources of the soil have been exhausted, is the dregs from the barayard. It is well to start with one-eighth strength and increase as experience dictates. Colorado sheep manure may be used at the rate of a peck to fifty gallons of water. Substances such as ammonia and nitrate of soda, at the rate of one pound to fifty gallons, are really stimulants, and increase the manure, and though it is quick of benefit as well as of injury. Liquid manures should be used only on healthy plants, and there must be free drainage."



50,000 ROOTED CUTTINGS

...OF THE...

New Seedling Carnation,

Originated by Mr. H. A. Cook, of Shrewsbury, Mass., grown by the subscriber, and now being put on the market as

❖ NIVEA ❖

Cuttings Now Ready and Free from Rust.

\$10.00 per 100; \$35.00 per 500; \$60.00 per 1000.

DAYBREAK, SCOTT, STORM KING, PURITAN, METEOR, GOLD FINCH, HECTOR, ALBERTINI  
and others, \$1.25 per 100; \$10.00 per 1000.

*Cuttings and Flowers of Nivea may be seen any morning at my stall, No. 103, Boston Flower Market.*

A. W. HOYLE, SPENCER, MASS.  
And 51 Withington Street, Sta. O., Dorchester, Mass.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

ROSES      ROSES      ROSES

In extra fine stock ready for immediate shipping. All the best New and Standard varieties of Teas, Hybrid Teas, Hybrid Perpetuals and Climbers. Also monthlies for Summer bedding, at prices to suit the times.

CARNATIONS, Lily Dean and Maud Dean

The two finest Carnations of the season. No florist can afford to be without them. Prices each \$10.00 per 1000; \$75.00 per 1000. Also all the other new varieties of the year at advertised prices.

To make room immediately, I will sell a lot of extra large transplanted Scotts and McGowans fit for immediate planting out at \$1.50 per 100; \$12.50 per 1000 for cash with orders.

~ CHRYSANTHEMUMS ~

My own set of six new ones for this season and all the new varieties offered for this year at advertised rates. Also the best standard varieties in extra fine stock.

CANNAS. All the best varieties in fine stock.

JOHN N. MAY, = Summit, New Jersey.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## COMMERCIAL ORCHIDS.

The growing popularity of orchids, and their more extensive use in floral decorations, has been noted in these columns as well. The great increase in their production occurred to us that a chapter in our Spring Edition, devoted to the subject of commercial orchids, would prove interesting and opportune. The articles presented herewith are written by specialists in the growing of the several species touched upon, and the information they have imparted will render very efficient and valuable aid to anyone who may be inclined to take up the cultivation of orchids.

Owing to sickness or other unavoidable causes we have been deprived of the services of several of our contributors and had contained upon for other articles on one or more useful species not included here.

## Orchid Collecting in Colombia.

Abstract of Papers read before the New Jersey Entomological Society, recently, by John E. Laver.

On a march, say, at Savannah, United States of Colombia, or at the mouth of the mighty Rio Magdalena. The river is navigable for a distance of 600 miles, and under favorable conditions the voyage will take from nine to ten days, whereas, under reverse circumstances it may be lengthened to twenty days. The lower parts do not offer much of interest to the traveler, as the surrounding country is very low and swampy. Indeed, large stretches are marshy. Only a few habitations and small towns begin to appear. Most of the habitations are built of bamboo and mud, and are surrounded simply by a few bamboo poles secured in the ground with a few leaves of *Cocos* buttresses tied over and on and around the principal foods are corn, rice, bananas and yucaes. The latter are the tubers of *Manihot*, *utilissima* (taoca) in commerce as typical.

The vegetation on the Lower Magdalena is somewhat monotonous, but, gradually reaches more interest as the traveler approaches the scenery in many places is magnificent. Imagine the river banks covered with ferns and vines and all steeply descended with vines and climbers down to the water's edge, forming a dense mass, here and there a beautiful colored bird. Behind this extends a low range of hills, the top of which and in the background the blue chains of the Cordilleras, towering one above another. The interest of the collector will feel not a little disappointed by the almost total absence of orchids along the river.

After the terminus of the Lower Magdalena is reached a short railroad takes the traveler to the mouth of the river, and through some mighty rapids, which divide the Magdalena into two sections, the Upper and Lower. The river is shallow, and the only means of transportation left the traveler is on mule or horseback. After three or four days of riding, a trip of several miles, hot plains, wading rivers, climbing and descending hills, Bogota is reached. The latter is used to go, and sit on a certain extent, the center for Cattleya Trianae. However, at present the plants are becoming scarce, and the situation is difficult at the foot of the Tolima, a snow peak, forming part of the central mountain chain and extending to an elevation of 10,000 feet above sea level.

## Where They Grow.

One of the most important items to the collector is to find a good district, not only where plants are abundant, but where also a good strain of varieties may be obtained. The districts are characterized by hardships and inconveniences, but it certainly pays, though a good deal more, to add to the cost of obtaining before obtaining results. In districts where plants are plentiful collectors will purchase on the market, is, comparatively speaking, a pleasure compared to what the exploring trips are, especially where the plants are scarce. The good general place must be selected as headquarters—a place situated, if possible, in the interior of the country, far from district outskirts, or, in short, in some place from which there is an exit permitting collectors to escape in case of trouble.

By headquarters I mean a few ranches or tents pitched for the occasion, or where the collector pitches his tent. The make cases. When tents or ranches are ready men are sent out in different districts, two or three, or five, or ten, and previously been shown what and how to collect. They carry provisions to last for several times for two weeks. They bury themselves in the mountains, ready to destroy anything in their way bearing on orchids. Whenever a plant is detected, the tree is cut down, and the plant torn from the trunk or the branches. The smaller trees are cut down in three or four feet down to the ranch. The vegetation is most exuberant in the cordilleras or moun-

tains, with their spurs and hills, rivers and streams, forming valleys and gullies, hollows and precipices impossible to describe in limited space. In these high mountains are where the orchids luxuriate and where they display their magnificent flowers to the best advantage, inviting the collector to come and pick them, yet oftentimes deifying every attempt to capture them. If the collector is a lover of plants he will be nature in all its marvelous beauty. For a moment or two he is likely to forget himself, forgetting all hardships and worries, while a feeling of ecstasias steals over him, leaving an impression which he will not soon forget.

## Cattleyas.

The cattleyas are found at from 2,000 to nearly 5,000 feet above sea level, almost exclusively in the high mountains, and in the trunks or in the forks of the branches. They always try, as it were, to establish plantations where they receive the abundance of light and a glimpse of sun. Sometimes, indeed, they are exposed to the full sun. The latter, as a rule, are the best plants. At the lowest elevation they will persistently follow the course of streams. For a moment or two he is likely to forget himself, forgetting all hardships and worries, while a feeling of ecstasias steals over him, leaving an impression which he will not soon forget.

The cattleyas are found at from 2,000 to nearly 5,000 feet above sea level, almost exclusively in the high mountains, and in the trunks or in the forks of the branches. They always try, as it were, to establish plantations where they receive the abundance of light and a glimpse of sun. Sometimes, indeed, they are exposed to the full sun. The latter, as a rule, are the best plants. At the lowest elevation they will persistently follow the course of streams. For a moment or two he is likely to forget himself, forgetting all hardships and worries, while a feeling of ecstasias steals over him, leaving an impression which he will not soon forget.

## Geographical Range.

The Republic of Colombia is very rich in orchids. The different species here are spread over its entire territory. The greatest number of species, however, is probably to be found in the northern foothills of the central Cordillera, which is a continuation of the Peruvian and Equatorial Andes, but extends to the eastern Cordillera, running into three distinct chains, known as the Central-Cordillera, the Eastern Cordillera and the Cordillera Oriental. The distance between them the immense valley and river system, called the Cauca, the Magdalena and the lower Cauca. The latter is the "Cazanar." This latter immense territory is bounded principally by the Amazon and the Orinoco. The plants are found in all which are as yet unexplored.

The State of Tolima may be considered as the home of the Cattleya Trianae. It follows the eastern foothills of the Central Cordillera, and extends to an elevation of about the fifth degree northern latitude, and at its southern limit it is distributed over a distance of thirty miles. It includes also the home of *Odontogloum crispum* (Seibman).

Cattleya Javaya takes the place of Cattleya Trianae further northward, where it extends between the sixth and the eighth degree northern latitude. It follows the eastern and eastern chains. This territory is exceptionally rich in useful species, such as *Phragmatopus*, *Phragmatopus*, *Phragmatopus*, *Odontogloum luteo-purpureum*, *O. oespum*, *O. coronarium*, *O. Wallisi* and *O. coronarium*. It also includes the *Phragmatopus Maximiliana*, *Luteo-alba*, *Epidendrum fimbriatum* and *Maximiliana* in variety. Sansau, Cauca, is the headquarters as the principal district for the latter.

I found *Miltonia vexillata* as low as 2,000 feet above sea level, but at 4,000 feet to 7,000 feet, but at the first-mentioned altitude the plants were generally very small.

It generally grows on smaller trees and branches of *Melastoma* and *Quercus*. *O. coronarium* is found at a very high altitude, of 8,000 feet, but grows in masses, where it ramifies for yards until it finds a tree suited for its requirements. The magnification of the power spikes surprises imagination.

## Odontogloum crispum.

On the Eastern chain, *Odontogloum crispum* is found in the mountains of the fourth and sixth degree northern latitude at an altitude of 6,000 to 9,000 feet. The best plant of the lowlands is at an elevation of 6,000 and 7,000 feet below where it grows in occasional openings of the forest on the eastern foothills of the Eastern Cordillera, Cattleya Schroederae. On the Western Chain, or along the Rio Cauca, Cattleya Chingana, is found where the forest is open. It grows to a great extent in forests on level land, stretches of which are swammy and unproductive, and where it receives certain places, and grows invariably on the rock. The flowering season is August and September, but where the forest is not yet destroyed, or they would have been extinct ere this. The natives are also beginning to feel more considerably with the forests, besides which many of the land owners and even the respective governments are beginning to feel the total destruction of their most beautiful jewels. And you can blame them?

Many of the New Granadina orchids are rapidly decreasing in quantity. *Cattleya chrysantha* is very near extinction, *Miltonia laevigata* is very scarce, *Miltonia Mendellii* and *Odontogloum crispum*. *Miltonia vexillata* and *O. crispum* increase rapidly in quantity where the forest is not already destroyed, or they would have been extinct ere this. The natives are also beginning to feel more considerably with the forests, besides which many of the land owners and even the respective governments are beginning to feel the total destruction of their most beautiful jewels. And you can blame them?

## Some Useful Cattleyas.

It is not quite a decade since the cultivation of orchids for cut flowers was assumed in this country, but at that time they were being gaining steadily in public favor, until now they are in great demand for the most part of the country and districts adjoining. The exquisite and rich tint of their flowers and their low durability when cut, makes them especially adapted for such a purpose.

## The principal orchids cultivated for cut

flowers in America, so far, are the cattleyas, the *Lablata* section, some dendrobium, cymbidiums, cypridiums and vandaeas. As all of them have to be gathered and brought here from their tropical homes, the temporary headquarters, directly connected with the collecting of those plants. Every orchid collector who has to go far into the interior of the country, and has to counters plenty of hardships and privations to be remembered in later life. His most important business is to plan his collecting, though very desolate, offers him at least shelter and an opportunity to enjoy the most beautiful nature and that of the native mountain dwellers.

The old *Cattleya lablata*, or the *C. lablata* section, was first introduced into the country on claim, perhaps, the most interesting history connected with its first introduction. The first introduction into the country was discovered instead. Arnold found *Cattleya Seibmanii* in the Caribbean Mountains, near Rio de Janeiro, it was mysteriously lost for more than fifty years, and became again introduced into the country, from Brazil and South America were explored in the vain search for this beautiful species. The first introduction into the country was discovered instead. Arnold found *Cattleya Seibmanii* in the Caribbean Mountains, near Rio de Janeiro, it was mysteriously lost for more than fifty years, and became again introduced into the country, from Brazil and South America were explored in the vain search for this beautiful species.

The climatic conditions of its native

home differ somewhat from those of other cattleyas and mostly resemble those conditions under which species-producing growth is favored. In this respect it differs from months of the year and is very vigorous; owing to this fact, the double flower-branch of the Cattleya is very much increased for the coming flowers. From about 10 o'clock in the morning until about four in the afternoon it is in full bloom. After this time, a breeze generally sets in, and the nights are mostly cool and refreshing. The plants are very hardy, and stand 60 to 100 degrees F., but only remains for a very short time at the lower extreme. At the lower extreme, the Cattleya is extremely floriferous; four to five large flowers on a spike are common, and I have seen one with as many as seven large flowers per spike.

The conditions of our northern latitude, make some cultural changes necessary, and we should try to keep the plants after the flowering season, as long as rest as possible, which we can only do by keeping them very cool, dry and airy. If such a course is followed and the plants are kept from growing as long as possible, the flowering season may easily be prolonged up to Christmas.

As to the cultivation of this very free growing and floriferous species.

The most beautiful of the cattleyas, one of the most popular is the beautiful spring flowering *Cattleya Mossiae*. It has present a very beautiful and rich color and is found in the Cordillera of Venezuela. Once very plentiful and easy of access. It has become very scarce, and it is difficult to get so many large shipments having been collected there for many years. I remember, however, to see one in the Cordillera, and the trouble and expense to collect this orchid it does now. The supposed native home of this species is in the epiphyllar forest it still to be found, are getting more and more existing in the Cordillera, but the plants are not existing there, for they think they possess a treasure in these plants which they are unwilling to give up. They are in European countries and North America. It is, for instance, curious to note, how the collector in the Cordillera is convinced that a white "Flor de Mayo" (*Cattleya Mossiae*) is not a *Cattleya* (it is worth its weight in gold in England).

Another valuable Venezuelan *Cattleya* is *Cattleya Peruviana*, which is found in the Cordillera of the Caribbean mountains. Under cultivation it blooms during the summer months, though, under the same conditions, it is the first collecting experience with this variety was a succession of great hardships. During the last rainy season, and for a very long time, the mountains are almost daily deluged with heavy rains, and are for long periods of time almost impassable. It is often unobtainable, as those few Indians who live in those districts subsist upon anything edible. With some bananas and bread made out of the roots of the manihot (*Jaribe manihot*) they are satisfied; in between these are some sugar from the sugar cane and dried fish, with black coffee, is added.

Due to the high degree of moisture during the greater part of the year, a most luxuriant tropical vegetation is found in the mountains, and the plants are very hardy and for that reason, it may be, this particular *Cattleya* only grows very high up on the mountains. The plants are very hardy, and for that reason, it may be, this particular *Cattleya* only grows very high up on the mountains. The plants are very hardy, and for that reason, it may be, this particular *Cattleya* only grows very high up on the mountains.

Some of the most beautiful plants of these magnificent forests can, therefore, be obtained only in these mountains, and only is found upon the oldest and finest specimens.

The plants are never found growing upon palms, but some varieties are very frequently met with upon rocks in the mountainous regions, and are very often under pieces bordering the same. Almost entirely in such positions is found *Cattleya Percivaliana*, and *Cattleya Trianae*, which are found in Venezuela. On account of their rich and highly colored flowers, this is one of the most beautiful *Cattleyas* known in the world. I have seen them in their home in bloom and the flowers almost the same color as those seen under cultivation with us, they are sometimes rather small, and as the plant is seemingly more common in the mountains, it has to a great extent been dropped out of the list by commercial growers. The two last mentioned *Cattleyas* have not been introduced into the United States, but they are very beautiful, as on account of some peculiar qualities, of little value to commercial growers, but of great value to the collector of useful cattleyas for cut flowers. The climatic conditions of its native



*Phalaenopsis Grandiflora.*



An Orchid Collector's Mountain Home.  
From a Photograph by Adolph Sachse.



*Cattleya Trianae.*  
Blooms grown by Lager & Hurrell.



American Seedling *Calanthe vestita* var. *Cornelius Vanderbilt.*



The New Orchid Culture as practiced at Lager & Hurrell's, Summit, N. J.

hidden in the great Cordilleras of Colombia. Some of our most useful and beautiful cactaceans, many odontoglossid orchidites, many *Millettias*, etc., have their home there. The cañonias, in many respects, the most interesting and agreeable, are covered in America for the Northern Iverster. As the enormous parts of the world are covered by a degree of moisture, mostly in the Tropics, with a luxuriant tropical vegetation. The rain and only a few in the interior, as the great Rio Magdalena, are covered with an opportunity to see a large tract of the country. The borders are dotted with princely forests and only a few hundred alligators, monkeys, parrots and other different animals, are scattered (fowl). But to go up one of the many tributaries, in a small canoe, affords a much more agreeable trip. Here a large little boat is pulled along by the natives on the shore a picture of the most magnificent grandeur is unfolded. Here and there an native hut or a village is encountered. The houses, either built of reeds or mud, are never covered with palm leaves and surrounded by plantations of sugar cane, coffee, cocoa, bananas and other tropical plants of economical value.

The mountains of Colombia are known to be the home of *Cattleya Schroederiana* C. Mull. C. gigas, C. ciliaris and *Odontoglossum* (the plants are found at an elevation of from about 3,000 to 7,000 feet above the level of the sea). The latter, however, is not confined to the headwaters of the Rio Magdalena, has been very much decimated in late years and although they are not yet exhausted, it will sooner or later share the same fate of most of our other *Cattleyas*—to so scarce a number as to be of no commercial purposes will have to be abandoned.

ADOLFA A. SACHSE,

Newtown, L. I.

### Treatment of Newly Imported Orchids.

Years ago it was considered a difficult task to establish a new import of orchids with any degree of certainty; many thousands were lost annually, and when one looks back on the crude manner in which they were handled on arrival it is not surprising that so many were lost.

The plants, when unpacked, should be placed loosely to admit air, in flats on damp sphagnum, and put in a shady part of the nursery, respectively, where they should not be a proper importation house for a day or so, after which they should be sprinkled with water and covered over with a clean cloth the bruised and decayed parts, and taking away any decayed material from the roots. The plants should be pulled up as quickly as possible into small pots or baskets as occasion demands, allowing in each case plenty of drainage, and giving the same occasion as established plants in the same practice. For a while they must be carefully shaded from the sun and receive water sparingly at the roots until the plants have acted up to the point, they require the same treatment as their better established sister plants.

When plants of the genera *Cattleya*, *Laelia*, *Dendrobium*, *Madevalina*, *Odontoglossum*, *Oncidium* and *Strobilanthus* like others are received in a shriveled condition, they should in addition be syringed over with cold water two or three times a day in favorable weather. In planting them up, many *Cypripedium* also do well with the same treatment, but the slow growing coriaceous orchids, such as the concolor section, *Rochechiliana*, *Bandieriantha*, *Conopsea*, *Habenaria*, *Vanada Aerides*, *Phalenopsis*, *Saccolabium*, *Gonanda* and *Kiddeus* sorts must, if planted at all, be very much shaded from the sun, and in bright weather using a very fine spray, as water lodging in their stems is always a sure way to rot. In winter it is better to omit the syringing and keep them in a trifle closer atmosphere until the winter signs have nearly returned, when treatment is required.

R. M. GREY.

### The New Orchid Culture.

The mystery which for a long time enshrouded the cultivation of orchids outside of our own nation has been broken, and was intensified by those few men who were supposed to have mastered the secrets of this cultivation, was very rapidly dissipated by the following information. A little over a year ago two men, eminent in the orchid growing world, the late and noble play of Messrs. Fletcher and Mandi, decided to go into the business for themselves,

under the firm name of Lager & Hurrell, at Summit, N. J., John E. Lager, the senior partner, is a native of the United States, collector than as a grower; and in this capacity is probably destined to be the most successful in his line. His young firm's reputation being already world wide. His partner, Henry Hurrell, as a grower has rarely excelled him in any branch of his working in the great collections of Europe and America eminently fitting him in this and that capacity. The success of the firm, so that may arise, either suddenly or otherwise, so that the success which so far has attended it, by this young firm is a readily accounted for.

Mr. Lager had not been long gone to the home of his business, but was invited to his firm 150 large cases of *Orchid*. To handle such a bulk and fix it up in no mean task under ordinary methods; to place the plants either on blocks, in baskets or in pots would necessitate a large outlay of money for peat, pots, etc. In addition to a great amount of manual labor, and very considerable room—something which the firm had decided to avoid, a novel scheme of treatment, a scheme which in very large quantities, has been used by growers stand aghast when they heard about it, and one which we ourselves have since used with perfect success. We will give just a year for results before mentioning it in the columns of the "Florists' Exchange."

The result of a very recent visit, for observation, so satisfies us that our former system, as described in these columns, is present to our readers the methods of what we will call "The New Orchid Culture." We begin with the test has a skeleton, even span frame, fixed in the center, at nearly the same angle as the former, but instead of a wooden, or iron, looking structure is to receive the orchids; but, instead of pots, the plants are fixed upon bent hemlock blocks, which are fixed with widths varying from 8 to 10 inches. Very little trimming to the plants is done; can be received, and the plants are largely retained, thus saving an immense amount of labor, which would be necessitated in the old plan. As soon as a plant is spread out on the board; no wire is used, but in its place coppered staples, of iron or wood, are used. In place of more substantial parts which bring the plant to rest tightly and evenly, and should any plant be broken, the loss is a great one, they are fattened by driving a small tack through them.

Instead of peat, fiber, moss, etc., in, as a measure, done away with, and as a substitute a little chopped peat is mixed with the fiber and the soil. In place of this is added a sprinkling of dried cow dung. To prevent these ingredients from working out of the board, an ordinary builder's lath or strip is nailed up the side, so that when complete the plants rest, as it were, in a shallow trough. The board itself is one inch thick, and the ends are kept free. The whole work is completed in the shade, so that all that remains to be done is to carry the trough into the house and place it upon the wooden floor. The plants, and the pieces can be discerned in the illustration herewith.

Any of the pieces in the original orchid cases has of extra size, instead of breaking them up they are secured to hemlock blocks, and then put into a wire loop. These are suspended from the roof or in any other convenient position. In place of the old grower's tray system the labor of watering has been removed, and the plants are allowed to hang from time to time, and as they grow. The appearance on the whole is the reverse of the former, and the plants are kept far from the water, and the air is kept far from the plants. The plants are allowed to hang and are making a good growth. The plants are hanging on the surface of the board a mass of new roots was found, some of which have run to extraordinary lengths.

A slight shading of whitelead and naphtha is spread on the glass. The temperature of the glass should be, in winter, of degrees, sometimes a little lower, high temperatures being avoided. Lots of ventilation can be had, by the use of *Laelia*, *C. gigas* and other kinds are either placed upon blocks or in baskets; in this way they are more easily managed. All of these are in the same good health.

Since Mr. Lager has been absent upon his European tour, the following are *Cattleya Trianae* and 100 miscellaneous, including *C. gigas*, *C. Schroederiana*, *C. chocoensis*, *C. ciliaris*, *C. ciliaris*, etc. About 100 hundred cases are in the way, largely of *C. Trianae*. It may here be mentioned that the plants are all in the best of health, in order, and is producing some fine forms, many of which are very distinct.

### *Cypripedium*.

The *Cypripedium* is one of the most useful genera in the orchid family, taking into consideration the length of time they last live, and the ease with which they can be flowered. One has no trouble to have them in bloom all the year round. A batch of good plants, started in November, and when in full flower, makes a unique and grand show. People will travel hundreds of miles to see a few of these plants.

The cultivation of the *Cypripedium* is simple. The compost they most delight in is rotted horse manure, and peat. No other broken charcoal. Fill the pots half full with peat, and pot very firm, for that is almost all the way through. Don't be afraid of the water if all the other conditions are favorable.

In winter temperature, they may be divided into two classes, intermediate and stove. In the winter months 50 or 60 degrees for 80 degrees for 60 degrees will suit them from warm countries admirably. *C. insigne* will grow well and give a good show. *C. pubescens* will never do so well when kept too warm.

Some advocate putting them outside in the open air from the first of September. I think that is a good plan if one has a suitable place and water handy. The main thing is to obtain good strong roots, and then they will be all right to bloom finely. Of course they must be in the shade position in the winter, and other practices in the sun. This class of orchids is easily damaged by frost.

In the other class in the hot weather, keep plenty of air on the house night and day, but moderate shading. Keep the stages in the open air, from the first of May in the warm season, with good syringing in the evenings of bright days. They then will give a good show.

Sometimes the yellow thrip will be a go at them, but that is easily kept down by spraying with a weak solution of kerosene oil, or to suffer from wet syringing. If they have a very bad attack, place them in a moist, warm position, for a couple of weeks and thrip will take its exit quickly.

One of the kinds most suitable for first-class use that can be bought now quite cheaply and used in quantity, I consider the following: *C. Harrisonianum* flowers in October, and all through the winter month. *C. insigne* give a good show of plants in November until the end of January. *C. callosum* and *C. spiciferum* are also good winter blooming.

*C. villosum* and *C. Boxallii* have fine large flowers, and are invaluable for their production of bloom.

*C. Charlesworthii* is a very fine, new sort, beautiful, but rather too short in stem for cuttings.

Of course there are hundreds of varieties and sub-varieties that are very grand and valuable for cuttings, and for their high price for general florist purposes.—GEORGE SAVAGE.

That the *Cypripedium* has made great strides in popular favor is a fact which the up to date grower has taken advantage of, and in consequence a large number of *Cypripediums* for the market, and find them a profitable investment.

The commonly grown *Cypripedium* is a fine, and is one of the oldest in cultivation it has held a position in the fruit and vegetable markets. It can be grown in any ordinary greenhouse, with as little care and attention as a common house plant. The grower intending to engage in this business is to be attended to is to see that the plants are properly potted, and the best to ensure a good crop is to keep them through flowering. The following is a good compost to use— $\frac{1}{2}$  good fibrous peat,  $\frac{1}{4}$  of good horse manure, and  $\frac{1}{4}$  of the Chop the peat and moss small enough so that it will mix readily with the soil, and put it into the pot, and use the soil which will keep the whole fresh and sweet.

When potting the plants so that all the old roots are decayed, the use of the old plant should be elevated slightly above the rim of the pot, which should be filled three-fourths full of the above compost. For the plants firmly and do not use too large sizes. After the plants have been potted they should be kept in the shade for a much water upon soon cause the material in the pots to sour, and the root action will be retarded. The grower's plan is to give them a good watering to begin with, and then keep them moderately

moist until root action has properly started, after which they will take a plentiful supply of water. They will also be greatly benefited by an application of weak liquid manure about twice a week, which can be increased as the plants begin to flourish. This would be given a rose, chrysanthemum or any ordinary plant.

A good *Cypripedium* raises their plants to very large specimens, but to obtain the best results in quantity and quality of bloom, it is better to start the plants on up and put in four, five and six inch pots. One of the finest lots of *C. insigne* I ever started was in the above manner, during the summer months. The cashes were elevated above the frame about ten inches above the level of the ground. The plants and this was left on day and night, and only taken off during wet and stormy weather. When the plants were taken off after the nights began to get cold the foliage was slightly yellow, but it was the yellow of sun-ripened growth and not of disease. They flowered with great freedom and were of excellent quality.

Other *Cypripediums* which can be bought cheap and reasonable, and are useful for commercial purposes, are *C. Lawrencei*, *C. goodii*, *C. pubescens*, *C. Ashburtoniae*, *C. Boxallii*, *C. villosum*, *C. Harrisonianum*. All these can be grown in the same manner as those mentioned above. It is to be noted that a receipt that it is best not to use soil in the potting mixture. Equal parts of live and decayed horse manure, with sand, is found to be a good mixture for them. All these have plenty of good, clean drainage water, and should be kept in the shade, as possible. A temperature of from 55 to 65 degrees will suit these *Cypripediums* well, and give them a fine show. The plants and ventilation. When the sun gets powerful in spring and summer the plants must be kept in the shade, and if the foliage will get spoiled and the plants ruined. ROBERT E. ROSE.

### Lahars for Florists.

A great number of laharas are so easily grown and require so little attention that they are great favorites with all orchid growers, and are also some of the most useful for commercial purposes: *L. albida*, *L. anceps*, *L. autumnalis* and *L. maculata* are the best. They are raised very easily in a rose, peat or any ordinary greenhouse. In fact, I have seen them raised in the open air, and in the temperatures and positions that it appeared as though they had the power to adapt themselves to any position, and in any course, to grow them to perfection they should have a nice, bright, well ventilated pot, but not too dry, and small pots, in all times. They can be grown in pots, baskets or blocks, and as blocks take up the space, more in growers' practice.

When putting the plants on the wood used in the pot, they should be carefully and be sure that the plant is put on very firmly, as it will not grow so well if it is not put on in this way.

The plants will take a plentiful supply of water; in fact, they will require syringing very often, and in winter they should not retain the moisture very long. If possible, it would be better during the winter to have the plants watered from the sun by painting the glass with a light coat of whitewash, as they are apt to rot too dry, and shrivel up.

As soon as the bulbs have completed their growth, the most of them should be reduced, as the plants are apt to start into new growth before flowering if watered too copiously. When the plants are reduced (which is during November, December and January) is over, the plants should be reduced, and they should be kept until they are enough given to keep them from shriveling.

The *Cypripedium* has rather small flowers, but the albid is very beautiful, varying through shades of white, rose, pink and blue. *L. autumnalis* is one of the finest laharas, being of a handsome rosy purple color, and is one of the best to raise in large quantities to three to six in a pot.

*L. purpurata* ranks as one of the most handsome and is one of the best, and is highly deserving its title, "Kings of Orchids." The sepal and petals are white, sometimes with a little purple, but the lip is very broad, of a rich purple color, veined with a deeper color. The throat is yellow, and the spur is long. If they are during early spring and summer. Though raised as an inter-cultured orchid, it can be raised in the open air. The grower's plan is, it requires a plentiful supply of water during the growing season, with plenty of



Cattleya Labiata.



Spray of Odontoglossum Crispum.



Cattleya Labiata spike showing seven flowers opening.  
Damaged in transit from the mountains.

Drawn from a photograph taken by Adolf Sachse.



House of Cyripedium Insigne.





*Cypripedium Spicerianum.*



*Dendrobium Thysisiferum.*



House of *Calanthes*.

twelve gallons of water, and after being mixed the liquid is ready to use and stands for three days, when it is ready for use. No care is taken to use the clear liquid, but the residue, which is left in this, is spread over the cindered stages of the houses at the rate of three gallons to a bush containing the plants. The residue is then spread over the cindered stages of the space. The tub is then refilled with water, soda and lime, so that the mixture is alkaline, and is used in the same way, when needed again—Garden and Forest.

### Phalenopsis.

In treating of the cultivation of any plant grown under glass, we must begin with the house in which we are to grow it. It is not necessary to have a house specially built for phalenopsis; any ordinary stove house will do. Neither does it make much difference whether the house is built north, south, east or west, providing you have the desired temperature, which is 65 degrees; nothing more nor less; no variation from that in the winter.

The next thing necessary about the house is a full supply of pure air. Ventilation is one of the greatest essentials to their well-being. I have often been told by orchid growers that they put all their phalenopsis when it was freezing hard outside. Well, contrary to advice, I have put it on, and kept it on all the time, whether the temperature was above or below, but when the weather was damp or cloudy, down came the ventilators light, to remain so until the outside air became so dry that the plants could put on air again very gradually.

Heating is another factor which is too important when we are to grow phalenopsis. It is absolutely necessary to have a little fire heat in summer to keep the inside atmosphere pure, and the first thing to be done is to be allowed to go out during the summer months; so that when the day is damp or rainy, the air is fresh and pure, and the best of the fungi which are sure to accumulate on the compost in such weather—such as mildew, blight, and rust—do not reach the roots or foliage of the plants, is bound to bring dire results. An excessive amount of the heat will result in the yellow spot on the foliage—the worst disease of all to get rid of. In this case, I can only give one piece of advice, and that is a continual watch over every individual plant. When this trouble is detected, the remedy is simple, and is as easy as observed on the leaf, take your knife and cut off that portion of it where the disease has manifested itself, and cut at least half an inch below the spot, though it may be the top leaf. It seems hard to do this, but you will find that continuing this course right along in every case, and then using plenty of sulphur on the part of the leaf you have cut away, that you will have no more trouble with spot.

Another mischievous trap that brings a great drawback to this magnificent orchid, is yellow thrip—the most desperate one of them. It is very common, and is difficult to get rid of him, as usual, keep a close watch and use tobacco in all forms; but the best and most certain remedy is to always keep a little fresh stems in water to sponge with; give a light fumigation with tobacco smoke, and it is done. Early, it will keep the thrip within bounds, and it will keep the resinous insects off. The sulphur requires to be used from the direct rays of the sun at all times.

Watering is another of the most essential points connected with the culture of these orchids. I seldom and any other than the water, and that always of the same temperature, the hottest water being used in pans (the plants are generally grown in such), the best way is to have a barrel or tub of the same temperature, and into which you can get it, and dip your plants at least once a week. By this I don't mean to get the water of the same temperature and roots and up as far as the bottom leaf. This done, they require to be looked after in the winter, and to be watered freely. They require this treatment only during growing.

In resting, i. e., drying them off a little, in order to get their flower spikes through the hard skin in their natural way, it is not so very difficult, and the success depends principally general results. You have to study and know at what time your plants are through, and when it is wise to get them into flower. To stop a plant from growing in order to get it into flower, you should keep it in a cool place, and when you see the flower spikes appear, increase the amount of water

er very slowly until the flower spikes are fully started. Do they need to be fed? Well, yes, they do. I don't know what they get to eat in the open air, but I do know that under cultivation they will take a good meal once a week when growing. Fresh cow manure, mixed with water, and a good peck to the barrel, is what I use; and a good peck to the barrel of mixed manure to be used. But they should be watered well. The same course should be observed after they are through flowering, for at least two months. It has a good effect to water too freely. I always made it a point to plant out flower spikes from weak plants, and prevent them from growing that year. The following year you will get the flower spikes twice as strong and the plants will almost be double in size as a result of stopping it from flowering.

PETER MC DONALD.

### Odontoglossums.

This is certainly one of the most difficult classes of orchids to grow, and yet among its varieties are some of the most lovely orchid foliage for growing and arrangement; such, for instance, as those of *O. crispum* (Alexandre) and its varieties, *O. pescatorei*, *O. vexillarium*, *O. Roezlii*, *O. Uchiro-urum* and *O. grande*, which we cut and arrange them in the most beautiful ways do abroad. The two first named are the most valuable for cut flowers, but are also the hardest to grow. Several growers have tried odontoglossums for some years past, with more or less success; still these orchids have not as yet proved very profitable; though there is hope that we may succeed with them ultimately, for we have seen that eminent orchid growers in private establishments, like George Savage, Mr. Gray at Cornhill's, and the late William Robinson at the Victoria, have grown their varieties in elegant shape, and I believe if the proper facilities and treatment are given them they can be grown successfully in a commercial way. Our friend, William Mathews of Ulthwa, was in this country, having to cope, in his very hot and dry atmosphere, with the most difficult to grow a block of twenty bushes a hundred feet long, each filled with 20,000 plants of *Odontoglossum* in the most beautiful and excellent condition and bringing forth their splendid crops of handsome, graceful arched spikes of flowers, some of a rich rose and rosy pink and richly spotted and mottled blossoms of yellow and chocolate it makes one who wishes to get right in and do them likewise.

Much has yet to be learned in regard to growing these stubborn plants in such protection as we see them raised abroad. Belgium, so far, is the country where they are grown in the best way, and in fact there are several places in Great Britain and also in France where they are done so.

The other varieties of odontoglossums mentioned above, we can manage very well in this country, and grow them with profit. Fairly good plants of them will be had now for from 4s and upward, and if you do not mind paying a trifle more than the price for the plants. The most essential thing to successful culture of this class of plants, is an even, moderate temperature of 55 to 60 degrees in winter, and 65 to 70 degrees in summer, and not exceeding 80 degrees in summer, and at all times a continual current of fresh air is highly essential to their welfare. It is of great consequence to do this, and if it is not done success must never be allowed to get so stagnant, therefore plenty of drainage is necessary.

HENRY A. SIEBRICHT.

New Rochelle, N. Y.

### Raising Orchids from Seed.

With the quantity of good material at hand in the different collections throughout the country, and the comparative ease with which orchids may be raised from seed, it is surprising to note how few orchids have been reared to maturity in the United States compared to Europe. It is not a difficult matter to raise orchids from seed, and it is not so very difficult to get them, either, the capsule ripens as quickly as those of roses or carnations, and many of the most valuable and beautiful orchids, etc., can be flowered from seed in six little time, and in nine cases out of ten give bet-

ter results. A well matured pod contains thousands of seeds, and it is not uncommon to find one or two seeds in a small pot, when a good location has been selected in which to sow the seed.

After a few days of practical experimenting, I find that seed does best when sowed in a pot containing a plant of the same kind, and that the best medium is a dendrobium pot or basket; cypripedium seed, in a pot containing a cypripedium plant, and so on. The best pots in pots, baskets and blocks, especially made up with the finest material, and which are used in the most successful greatest care, but have never yet raised a plant in this manner. It is also poor policy to choose a pot in which to sow the seeds, the surface material is liable to decay on being brought into the close, warm atmosphere of the greenhouse, and is likely to contain minute injurious insects, in other cases the seed is lost in selecting a location, take a pot in which the compost is pressed in firmly, so that repeated watering will not wash the seed in, and that the surface, after germination, be sure that the surface appears fresh, and the sphagnum, etc., is washed over the surface, so that short growth, and not liable to grow so freely as to smother out the seed. It is also well to wash the surface on the surface, but do not cover it over, label it, with the date of sowing, etc. This done, if the water is not to be used, water the seed in watering. At the end of from one to six months, or a year in rare cases, the young seedlings will be seen pushing up their tiny cotyledons. The following table gives the number of months required to produce them from seed.

Cattleyas take about five years to reach the commercial size, each of the first three years, orchids, 2-2½ years, phalenopsis, 1½ to 2 years, and the first three cypripediums from 2-4 years, according to the species; the selenipedium section is the longest growing, and requires from three and one-half months after the flower was fertilized, and the plant in bloom in less than one year.

After the seedlings appear they must be guarded against insect enemies, wood lice, and other insects, and the plants should be kept in a cool place, and start to root, when they may be pricked off singly, into two inch square tin buckets as the species may demand.

The potting material should consist of one part of peat, and one part of sphagnum, and half moss and peat; if preferred, fill the pot two-thirds full of fine peat, and the rest of the pot with sphagnum, and pack tight so as to hold the tiny plant firmly, and also to keep the material from soaking in too much water. This done, place in a lightly shaded part of house containing other plants of the same genus (don't put it in a propagating house, or start to hurry it, or it is sure to perish), and give it the same treatment as the older plants, and it will often start to root, the compost appears dry on top.

It is recommended by some, to pick off the roots of the plants, and to do so, unless the compost in which they are growing is decayed or the foster plant is about to decay, and to do so, after the operation, and the whole batch to be lost through having no roots to nourish them after being disturbed.—ROBERT M. GREY.

### Brief Review of Commercial Orchid Culture in America.

Twenty years ago very few orchids were grown in this country in a commercial way. The only one who was engaged in the business was Isaac Buchanan; he had a fairly good collection of both East Indian and South American, and also some Mexican orchids.

It was in the year 1846 that the late George Such started in the commercial orchid business, in connection with his famous nursery, and he was the first to raise the plants. Some of the older leading florists will remember that when they wanted a new variety of orchid, they would write to him, and they would send to South Amboy for them. It was about this time, too, that the writer was first engaged in the business. In the war, and had then charge of the orchid house, started into commercial orchid growing in the year 1850, and when he then were vandae, accolabium, dendrobium noble D. Biggibum, D. thyrsoiflorum, D. dendrobium, Cypripedium, and others, etc., can be flowered from seed in six little time, and in nine cases out of ten give bet-

Mossiae, speciosissima, Skinneri and C. Downiana; very few Pedicularia or Trianae. The first orchid raised in this country was good old stand-by C. Insigne and a few C. barbatum and C. venustum. Cologyne and C. speciosa were also raised. In the course, several kinds of Stanhopeas, such as tigrina and insignis, also Laelia autumnalis, and C. speciosa, were raised. In all the species, with the exception of some common epidendrum and coccinidia.

It was not until the year 1850 that I had some nice orchid blooms, it was quite a task to dispose of them; very often they were not wanted. In the year 1850, I had some lovely customers; and through this sort of business would seem, at first, not to pay, but I was able to get on in the following way. It was the means of properly introducing orchid flowers. They were too cheap, but they were not too costly to give away in the proper way. The writer has given away thousands of orchid blooms in his time.

About this time the William Court came over from the grand old house of James Veitch & Sons, London, and he had such faith in orchid culture as a paying business, that he sent over to me some of the several hundred pounds worth of the choice and rare orchids, such as Phalenopsis, Cypripedium, Stanhopea, and others. It was the means of properly introducing orchid flowers. They were too cheap, but they were not too costly to give away in the proper way. The writer has given away thousands of orchid blooms in his time.

About this time the William Court came over from the grand old house of James Veitch & Sons, London, and he had such faith in orchid culture as a paying business, that he sent over to me some of the several hundred pounds worth of the choice and rare orchids, such as Phalenopsis, Cypripedium, Stanhopea, and others. It was the means of properly introducing orchid flowers. They were too cheap, but they were not too costly to give away in the proper way. The writer has given away thousands of orchid blooms in his time.

John S. Bush, who had been gathering a large collection of orchids, and was very busy to this time, now turned his attention to orchids in a commercial way. The vendor has given away thousands of orchid blooms in his time. It was, too, about this time that F. S. Sawyer, of New Rochelle, N. Y., began to send over consignments of orchids, both established and imported plants, and he was the first to do so in this country. William Mathews, of Ulthwa, of course, there were a number of private places where the orchids were raised, and they were sold extensively and successfully.

It was, too, about this time that F. S. Sawyer, of New Rochelle, N. Y., began to send over consignments of orchids, both established and imported plants, and he was the first to do so in this country. William Mathews, of Ulthwa, of course, there were a number of private places where the orchids were raised, and they were sold extensively and successfully. It was, too, about this time that F. S. Sawyer, of New Rochelle, N. Y., began to send over consignments of orchids, both established and imported plants, and he was the first to do so in this country. William Mathews, of Ulthwa, of course, there were a number of private places where the orchids were raised, and they were sold extensively and successfully.

It was, too, about this time that F. S. Sawyer, of New Rochelle, N. Y., began to send over consignments of orchids, both established and imported plants, and he was the first to do so in this country. William Mathews, of Ulthwa, of course, there were a number of private places where the orchids were raised, and they were sold extensively and successfully.

It was, too, about this time that F. S. Sawyer, of New Rochelle, N. Y., began to send over consignments of orchids, both established and imported plants, and he was the first to do so in this country. William Mathews, of Ulthwa, of course, there were a number of private places where the orchids were raised, and they were sold extensively and successfully.

**CHANGES IN BUSINESS.**

LYNNFIELD, MASS.—Oscar S. Stowell, is about to engage in the florist business here, and would like to receive catalogue and trade information.

BABYLON, L. I.—J. E. Raymond will start in the business here as a grower.

**CATALOGUES RECEIVED.**

L. L. PILLSBURY, Galeburg, Ill.—Wholesale Price List of Plants and Root Cuttings.

THEO. F. HECKER, Glenfield, Pa.—Trade Price List of Carnations, Chrysanthemums, and Violets.

J. A. McDOWELL & Co., City of Mexico—Trade Catalogue of Cacti, Orchids, Bulbs, etc.

BANNING & HAGENBERGER, Kinman, O.—Price List of Bedding Plants.

SIEBERCHT & SON, New Rochelle, N. Y.—Wholesale List of Palms, Orchids, Ferns, Stove and Greenhouse Plants, etc.

H. G. PAUST & Co., Philadelphia.—Wholesale Catalogue of Plants, Seeds, etc.

HENRY A. DREER, Philadelphia.—Quarterly List of Seeds, Plants, Bulbs, etc.

F. R. PIESSEN Co., Tarrytown, N. Y.—Catalogue of Seeds, Plants, etc., profusely illustrated.

The Library Committee of the Massachusetts Horticultural Society desires to obtain, for the use of the members of the society, and others, the catalogues of the most prominent nurseries, seedsmen, and florists in America and Europe. The library of the society is by far the largest horticultural library in the United States, and excelled by few in Europe. The members of the society number about eight hundred, and the library room is open and frequented by them and other persons interested in horticulture every day, with special meetings and exhibitions every Saturday through the year. Though the society, in its corporate capacity, does nothing in gardening, it will be to the advantage of nurserymen, seedsmen, florists, etc., to have their catalogues placed on the tables, where they can be examined by members of the society and others interested. It is the purpose of the committee to preserve and bind such catalogues as may be received, as matters of future historical interest, and therefore they desire to make sets as complete as possible. You are respectfully solicited, not only to send us those which you issue the present year, but to place the name of the society on your list of correspondents, so that we may receive such as you may publish in the future. Catalogues may be addressed to Robert Manning, Librarian, Horticultural Hall, Boston, Mass., C. S. A.

**The National Florists' Board of Trade.**

Among the advantages which accrues from membership in this organization may be briefly pointed out the following among others: Our published list, furnished to all subscribers, contains the names of a large number of "dead-beats" in the trade, and a complete code goes with the same. It will be put a short time before this list contains the names of all in the trade who are unworthy of credit. This is the only list published, and is issued at a very low figure, so that every one in the trade may receive the benefits accruing therefrom. There are many, not only through the States of the United States, but in Italy and Holland, who receive this list, and are even at this early date receiving benefits therefrom.

Through our collection department we are able to make many collections for the reason that no one in the trade wants his name put on our information sheets, thus letting the members know that we have accounts against them still unsettled. Every one likes to keep his credit from impairment, and when once a claim is received at this office and the same remains unpaid, these facts are sent to our members. On claims on which there is a contest, or where goods are not received or not in good condition, or on time, or where the shipper has not complied with his part of the contract, information regarding such a party is not given out.

It is customary for members of the trade to send their collections to attorneys, who charge 10 per cent. We only do this, as a last resort, for we are able to effect collection of many claims by our draft system, which costs but 3 per cent, with a minimum collection fee of \$1. Another advantage of our collection department is that when a member in the trade has claims against the same party, all of lessening the expense in bringing suit.

In our reporting department, banks are furnished to subscribers who can secure full information from parties inquired about. We secure our information from the parties regarding whom the information is desired, through our attorneys, through banks and through members of the trade to whom these parties have referred us. Our reports are more reliable, accurate and complete than those usually obtained from commercial agencies or attorneys, because we have more channels through which to obtain such information.

The secretary will be pleased to correspond at any time, with any one who desires full information regarding the plan of the work, and easy throughout the United States, even to the Pacific coast, will testify to the fact that they have received more benefits through the different departments of this board than through any commercial agency.

The law department is prepared to handle all matters requiring the services of attorneys, and give all business met their prompt attention. They have one of the best equipped law offices in the city, and if any member of the trade is in trouble with a railroad or express company, or desires information on any point of law, they may correspond with these attorneys.

All communications addressed to the secretary of the board, Cornelius S. Loder, No. 271 Broadway, New York, will receive prompt attention.—Adv.



Cattleya Schroderae.

**Coelegy cristata.**

The photo-engraving on this page shows a grand, well-flowered specimen of this useful orchid, carrying between 700 and 800 expanded blooms. The scapes bear 4-8 flowers each, thus giving the plant on an average at least 125 flowering growths.

The cut fully illustrates the fact that under careful management this species affords us one of the finest orchids for decorative purposes.

The plant is of dwarf habit, leaves of a fresh bright green color, with olive-shaped diphyllois pseudo-bulbs, and lanceolate, arching foliage, 6-8 inches in length. The blooms are large and expand 3 1/2 inches in diameter. The segments are crisped and unspined, all pure white excepting the disc in the lip, which is bright yellow, and bears two or more fringed keels.

In order to make the plant bloom freely it should be grown at all times in a cool temperature, and never allowed to become dry at the roots, especially when growing. Peat, chopped turf and sphagnum, in equal parts, make a good compost for potting.

Among winter flowering orchids this is perhaps one of the most valuable, from the ease with which it can be grown. Its free-flowering qualities and its decorative effect all combine to make it a very desirable subject. Another advantage it possesses is that the plants may be used when in flower for dinner table work or for small groups. This was amply demonstrated in New York City during the past winter, coelegeries being used for both purposes.

**Floral Park, N. Y.**

The managers of the New York State Agricultural Experiment Station have secured one of the large greenhouses of John Lewis Childs, for the use of the botanical school. One section, 25 feet in length, will be devoted to the study of bacteria, another section of the same size to the study of insect life and habits, and the remainder to miscellaneous work.

**OBITUARY.**

Dr. Robert Hogg.

Dr. Robert Hogg, the renowned English prologist, died at his home in London, on March 14. He was in his seventy-ninth year, having been born at Duns, Scotland, in the year 1818. He is known as the author of the "Fruit Manual," an encyclopaedia of ornamental fruit growing in Britain, and also as the editor-in-chief of the Journal of Horticulture. He was for many years Secretary of the Fruit Committee of the Royal Horticultural Society and a prominent figure in European horticulture.

**Hoosier Women and Legislation.**

The Indiana lawmakers did pretty well early in the session Representative Furness had a bill to present what he called an "Anti-Jail-Bird-Flower-Senders' bill." The idea was to repress those ardent female sentimentals who send bouquets to convicted felons, who murderers preferred something very like a riot-susced. The women had a lobby in Indianapolis, and their forces were promptly concentrated on Mr. Fornahell's little bill, with fatal effect. He sought revenge by presenting a higher theater bill, and awaited victory with confidence. Again the women foiled the "sillyman." There were 11 widowers and 21 bachelors in the lower House. The women marshalled them to their defence to die to death under a heap of "fool" amendments, such as requiring men to remove their boots before going to the theater and preventing the "going-out-to-see-a-man" act between acts.—Herald.



Coelegy cristata.

## A PLEA FOR MORE HARD-WOODED PLANTS.

During the last twenty-five years, and more particularly the last fifteen years, the tendency of the horticultural trade has been to discard plants and confine their whole establishments to the production of cut flowers, especially roses and carnations. We find by looking up the history of our trade that previous to the date mentioned, there were more general collections of growing plants in this country than there are to-day. This is accounted for by the fact that the average grower could and has produced financial results of greater benefit to himself by furnishing out bloom than in attempting to grow plants which were in the first place never in giving such results, and at the same time required more skill in their cultivation. It is for these reasons, rather than the edict of public taste, that such conditions have and do prevail. The outcome of this has been that now, according to demand, there is an overproduction of flowers in this country, and a consequent reduction in values; and sometimes it looks as though the buying public are satiated with cut flowers, and so switch off from time to time to something else.

During the past three years there has been a returning demand for variety in the way of flowering plants. This has been very noticeable in the New York market during the Christmas and Easter holidays, and to the plant lover one of the plainest signs of the times has been the introduction and sale of many of our old favorites—not new, by any means, for most of them were either introduced into Europe during the reign of Louis XIV. or the century of the first half of the present, and from appearance the plant branch of the trade is not so far from the way as to rapidly than heretofore. All that is needed apparently is for the American grower to be acquainted with the varieties and their energy, and the desired end will be accomplished, and such plants placed on the market in sufficient quantities to create a demand.

The object of this article is to point out to the grower that there is a large market and profit not yet reached, except by but a few specialists. Palm growing is well understood, and the market is well supplied. Azaleas are extensively grown, so are hydrangeas and dahlias. But the great wealth of plants from Africa and New Holland (Australia and New Zealand) is but faintly recalled or understood. That there is a market for these in this country when they are put before the people, is abundantly proved by the enormous sales in New York the past two years. The same is true. This plant is not new, having been introduced from New Holland to Europe in the year 1792. It grows in all climates, and can climate well, and in fact produces better and more flowering wood when planted in the open than in the house. In the summer months than it does in Europe, whence we import it annually at a great price. It is equally well grown in New Jersey, so if one Ascasia, it is equally true of many; yet to-day anyone desirous to buy a hard-wooded plant in this country would have to go to Belgium, France or some other European country to buy it.

The same remark applies to any of the plants under discussion. At this juncture of our trade, it is not a country where hard-wooded plants will not thrive in this climate. To meet the opposition the horticultural trade has in the past mentioned, and further state that in April, 1856, for the purpose of illustrating a lecture on the living and growing plants, I gathered at short notice, from various private collections, just 100 species and varieties of hard-wooded plants. At that time, which, of course, demonstrates beyond question that they will live and flourish.

True, they do not turn into money the first season of their existence from the cuttings made, and it is not until they need more skill and care in propagation than pelargoniums, coleus and alternantheras; but such is the demand for such back to American gardens. Our propagators can rise to the occasion and prove to the world that as skilled gardeners they can

produce something more than the softest of soft-wooded plants.

We are glad to note that some have already commenced to do this. A proof of this is found in the rapid multiplication of several kinds of cut flowers. Five years ago probably 1,000 kinds of plants have been introduced from the main plant on the New York market, and the number will reach over 20,000. Thus there are about 15,000 kinds of plants in the market and the plant is increasing in popularity daily. So far it is only the soft-wooded plants that are doing well, and it is wonderful that is being grown. It has been demonstrated that these kinds will produce the same results in this country as they would in England to three, that they simply rely on our climate; yet they are not all so easy to grow as they are in Europe. Now that these have taken such a firm hold upon our trade, it is not possible to produce others of the still more beautiful Cape heaths? We think so. The only difficulty to overcome in the matter is to keep them cool enough in the summer months.

As we further advance into the family and take the larger and higher colored species of erica and epacris, it is found that they are produced from the hard wood section, and the harder the wood the better the plant. The plant that suffers during very hot weather, if exposed to the hot sun. The roots need to be kept cool, and the plants should be kept at all had one, adopted in England, was to make frames of turf sod piled up so as to make a cool shade, and the plants were staked, or plunged in ice, the sod being supposed to create a cooler and more moist atmosphere than bricks or boards. We see the same good deal of reason in the argument. However this is, a question of detail, may be left to the taste of individuals, grower or dealer.

One method seen in this country with the turf was to place them in the open, and some large trees (not under them), plunged in a prepared cold water, and then being placed in the pot. The soil was originally water muck; this, with some leaf mold and garden soil, was used, and the plants were naturally adapted to the plants' position, and in which they thrived.

Another method is the use of slat frames, with the top covered with muslin. Here were all the choicest kinds available, and the grower is mentioned simply to give intending growers a clue, which they may devise other and perhaps better methods.

On the other hand, a dozen and more of the kinds now in this country and being imported from the Cape, are available.

They may be planted right up in the open in May and lifted in the early fall. Then they may be grown in the house, and of course. They need only sufficient fire heat to prevent actual freezing, and they thrive better in the open, but with just a little return pit, or in small houses, than they do in more elaborate structures.

### A List of Proved Varieties.

The following ericas are now being generally and successfully grown—the time for their introduction being the special wood in September, and all excepting E. Wilmoreana, E. zymalis and E. transalpinica, which are now in flower. E. a. autumnalis, pink; E. Caffra, pink; white (1800); E. praestans, white (1810); E. praestans, white (1810); E. Wilmoreana; E. persulcata (1800); E. per rosea; E. per rubra (1795); E. cupressifolia (1802), pale yellow; E. gracilis, nearly red (1797); E. gracilis, red (1794); E. Mediterranea, white; E. Caffra, pink (1802), pale yellow, pale red (1800).

The following is a select list of kinds that are well known in the horticultural trade, carnica, cocinea, and superba; E. Cavendishiana, one of the grandest yet introduced.

Several varieties of epacris may be grown also.

### Propagation and Cultivation.

As regards making cuttings, all parts of the plant are used, but the best is the special wood and special treatment to produce healthy cuttings that will root. Instead of using the soft wood, which is the best, the pot or pan should be at least three inches below the surface of the soil, and the temperature than ordinarily. Take cuttings about an inch long, and when they break, trim them carefully and dibble them into sand in small pans or pots, well shaded with glass, either in the open air, or in a stove house. The plants should be kept in the pot or pan should be at least three inches filled with drainage—broken potsherds, or broken bricks, or broken tiles, or have plenty of grit. The cuttings should be dibbled in as thickly as possible, and placed in a shaded part of the propagating

house in a temperature of 45 to 50 degrees, and the plants should be kept in the shade. One very important item, and which needs to be sharply looked out for is that the cuttings should be kept in the shade and fall. To avoid this either bell glasses or boxes must be used. For convenience in appearance, the plants should be kept in equally good results can be obtained by using any ordinary wooden box covered with muslin, and the plants should be moved occasionally to wipe the condensed moisture from the glass. Old newspapers are used to line the rubber, and the plants should be kept in the shade at night a little thick of air may be given when the cuttings are nearly rooted. The plants should be kept in the shade times a day to keep the sand moist, for to have it become drier is fatal.

When the plants are nearly rooted, transfer them to pans again, containing prepared soil—a good mixture of sand with some leaf mold, either in the open air, or in a case that is necessary. In Europe they use peat; in this country peat is of no value; it is used in a mixture with the sand, and is used again until they are well established; then push them along until they are in three-inch pots, in which they may be kept for a considerable time. Such species as Erica persulcata, E. p. alba, E. praestans and E. mediterranea, should be kept in the open ground in June, and if properly watered they will look after themselves in summer. The cuttings should be kept in the shade until the plants grow. After they are first rooted, the tops should be taken out; it is better to nip them when the plants are nearly rooted, and the more snipping can be done than in Europe, consequently a plant can be produced in almost half the time.

Other plants that may be grown are Boronia heterophylla, B. striata, Polygala hibernica, Argemone, and others. We do not, least, will not a Cape plant, Stasia Halford. Specimens of these, seen recently in the market, are of the latter kind may be grown. Its charming blue flowers keep in good condition for weeks, and it is a fine plant for the house. It is of sufficient quantity to make it worth the value of a buyer taking hold, the plants will grow in the open air.

JAMES W. WITHERS.

## Anthuriums.

This is a most fascinating and interesting class of plants. They are found in mostly all the islands of the West Indies, the West Indies, in the West Indies, all the way down into South America, especially in the mountains of the Andes, and in the Pacific Slope in Mexico; in fact, I have found them all over South America, and in the mountains of the Andes. They are of growth and queer forms of flowers, they are not unlike the orchid, and many persons not familiar with them take them to be orchids. There are many varieties of them which are clothed with superb brilliancy, and are of various colors, and really are, are growing. They are very beautiful when seen growing in their native country, and in the West Indies, and in the mountains of the Andes, and in the Pacific Slope in Mexico. Their leaves measure three and four feet in length, and are three or four feet long, and are of a dark green color, and are like pendulous down to the ground. Their leaves measure three and four feet in length, and are three or four feet long, and are of a dark green color, and are like pendulous down to the ground. Their leaves measure three and four feet in length, and are three or four feet long, and are of a dark green color, and are like pendulous down to the ground. Their leaves measure three and four feet in length, and are three or four feet long, and are of a dark green color, and are like pendulous down to the ground.

There are some very fine growing varieties, such as andreaean and its many hybrids—Perrievrea, Browni, Clarki, and others. The plants are of a very fine section which have been produced of late years, all make very showy and valuable plants. The plants are of a very fine section which have been produced of late years, all make very showy and valuable plants. The plants are of a very fine section which have been produced of late years, all make very showy and valuable plants.

There are several greatly improved hybrids—Perrievrea, Browni, Clarki, and others. The plants are of a very fine section which have been produced of late years, all make very showy and valuable plants. The plants are of a very fine section which have been produced of late years, all make very showy and valuable plants. The plants are of a very fine section which have been produced of late years, all make very showy and valuable plants. The plants are of a very fine section which have been produced of late years, all make very showy and valuable plants.

I predict that in the near future, while houses of the better and more brilliant

flowering varieties of anthurium will be raised in the open air, and the plants can be quickly grown, and multiplied from seed as well as by division of the offsets, and the plants will be ready for the market in two years from seed. If it is kept growing right along, anthurium requires a large amount of water, and a high degree and plenty of moisture. In potted ample drainage is needed, with a compost of leafy lumps of burnt charcoal. Keep the growth well above the rim of the pot and cover the soil surface with sphagnum moss. HENRY A. SIEDRZCH.

## Chicago Horticultural Society.

We are in receipt of the preliminary list of premiums offered by this Society. In connection with its forthcoming annual exhibition, which opens November 9 to 13, 1897. Several new features have been introduced in chrysanthemum—cut bloom has been inaugurated. A national competition in chrysanthemum is offered for the best 13 blooms, 12 varieties, from each State, Territory and Canadian Province. The exhibition is to be held in the State or Territory or Province specified. The winning plants will be awarded a premium of \$50.00 respectively are offered for the best collection of cut orchid blooms; and a prize of a silver cup of \$25.00 for the best collection of new roses never before exhibited in this country.

There are the usual prizes for plants and for cut blooms of chrysanthemums, roses, carnations, violets, and floral arrangements.

In the seedling class for chrysanthemums, certificates of merit will be awarded to the best plants. The plants which have been sown for at least two weeks, and for first year seedlings, and for second year seedlings, will be awarded to seedling carnations.

Rules governing the competitions, together with the scales of points under which each class will be judged, are furnished in the Digest, copy of which may be obtained on application to W. N. Rudd, Room 202, 185 Dearborn st., Chicago.

## THE EXPERIMENT STATIONS.

PLANT DISEASES IN PORTICO HOUSE AND GROVES. By Prof. AUGUSTINE D. BELL. Bulletin 70, Exp. Station, Wooster, O. Treats of the Diseases of the Pear, Apple, Peach, Nematode, Leaf Mildew, Diseases of Cucurbits, and Tomato Diseases.

PLANT DISEASES IN PORTICO HOUSE AND GROVES. Bulletin 70, Exp. Station, Wooster, Ohio.

EXPERIENCES WITH FERTILIZERS. By Prof. W. J. Green. Bulletin 76. Ohio Exp. Station, Wooster, Ohio.

THE PISTOL CASE BEARER in Western New York. By Prof. M. V. Slingerland. Bulletin 76. Ohio Exp. Station, Wooster, Ohio.

A DISEASE OF CURBANT CANES. By Prof. E. J. Durand. Bulletin 76, same station as above.

THE CUMBER LEAF-BEETLE AS THE CAUSE OF "PIMBY" POTATOES. By Prof. F. C. Cress. Bulletin 76, Ohio Exp. Station, Wooster, Ohio.

DIRECTOR'S REPORT. Prof. W. H. Jordan. Bulletin 115, same station.

THE EFFECTS OF THE APPLE. By Prof. J. M. Steiman. Bulletin 115, Missouri Agr. Exp. Station, Columbia, Mo.

PLANT DISEASES IN PORTICO HOUSE AND GROVES. By Prof. H. J. Waters. Bulletin 34, same station.

PLAX CULTURE. By Prof. H. T. French. Bulletin 34, same station.

THE ANNUAL REPORT. By Prof. A. A. Bennett. Bulletin 34, same station.

BETTER SUGAR PRODUCTION. By Prof. W. A. Bennett. Bulletin 34, same station.

ELECTRO-FERTIGATION. By Prof. A. A. Bennett. Bulletin 34, same station.

AGRICULTURE. By Prof. H. J. Waters. Bulletin 34, same station.



Erica Melanthera.



Erica Melanthera.  
Year-old plants cut back for stock purposes



Erica Vestricosa.



Erica Persoluta Rubra.



Erica Persoluta Rubra. Erica Translucens. Erica Persoluta Rosea.  
Erica Persoluta Alba. Erica Cupressina.

## HEATING GREENHOUSES.

The selection and planning of the heating apparatus for a greenhouse presents many intricate problems that can only be accurately solved by persons of experience, but by following the principles that have been previously encountered will necessitate the deviation from what has heretofore been the general practice. In the past ten or fifteen years there has been an almost complete change made in the method of greenhouse heating for several reasons. It is desirable to give rules that could be followed with any certainty that the results would be satisfactory, but it is not possible to put a rule as gradually being cleared up, it is now possible to formulate general principles founded upon the experience of our best florists.

## Greenhouse Boilers.

The life of a greenhouse boiler, owing to lack of proper care, is combined with the fact that it is generally located in a damp stock hole, is usually short. Not only can it be prolonged by giving these matters proper attention, but the nature of the material used in its construction, and the manner in which it is constructed, will have much to do with its durability. In addition to considering the first cost of a boiler as we view it from an economical standpoint, the expense of setting it up and connecting the piping must be taken into account. It is not infrequently the serious loss that may result from the giving out of the boiler in the midst of winter.

It is generally admitted that cast iron boilers are more durable than those in which the part which is subject to wear and on this account they would generally be preferable as greenhouse heaters, but, owing to the fact that most of them are patented, the cost is considerably larger in proportion to their capacity than that of many of the boilers which are wrought iron. The main factor of which is not restricted, and which can be put together by the florist or grower, however, is the durability of a small one, the superior durability of the cast iron may make it, from the reason stated above, more economical. It is not hard to use them than the wrought iron boilers.

There are many forms of these patented cast iron heaters that have been thoroughly tested and found economical of fuel and that will give a satisfactory surface area as well as their rating. While we find a marked difference in the arrangement of their fire boxes, and the way in which they are placed, they can be classed into four groups, (a), those with a horizontal circulation of the water through the pipes, (b), those placed above the other over the fire pot, so that they will have a fairly direct impact of the heated gases, (c), those in which the sections are connected. While a vertical circulation of the water has some advantages, it cannot be depended on for a long time to give the full benefit of the direct impact of the heat from the fire. In all of the heaters of this class the openings in the pipes are "staggered," and a very efficient heating surface is secured, while the single short boiler with horizontal circulation of the water is greatly impeded. In some of the earlier forms using this construction the water was heated rapidly, but in some instances the results were not satisfactory.

In another class (b) we find heaters that have a vertical circulation of the water, and low upward through vertical or drop tubes in the Furmen, Seolay, Royal, Standard and other makes. These heaters are placed with tubes hanging down over the fire pot and thus endeavor to combine an efficient heating surface with a direct impact of the water. We may also find a group of heaters (c) in which an endeavor has been made to get the most out of the heat above the boiler by having most of the water circulation vertical, while the fire travel is horizontal. These heaters are usually arranged as to afford effective heating surface. This class would include such heaters as the Rapid, the Standard and others.

In a fourth class (d) we may place heaters having the water spread in a thin layer above the fire pot and then rise to the surface increased by means of convolutions or corrugations. The Hitchings, Wilks and others of this similar construction would be placed here.

In addition to the surface exposed within the fire pot, it is desirable that the heaters arrange to increase the fire surface and thus secure greater economy in the use of the fuel. It is not necessary in all forms of heaters it is not necessary in this theory, and in most, if not all of the best heaters, it is the reverse is a valuable feature. Several firms

make small conical heaters that are sold at a low price, and as they require no setting they will often cost less than a simple box coil.

One of the greatest abominations in a heating apparatus is a boiler that has the least chance of its occurrence should always be selected. A well-made, packed joint may be made, but it is not possible to prevent a spring a leak and has to be repacked within a few months. At any rate, all joints, whether they be of the screw or slip type, or from the direct action of the fire, as possible. As will be seen from the illustrations, the water should be made to rise their water joints entirely outside the fire pot, and as many of them are screw or slip type, it is better to have them under reduced to the minimum.

For a greenhouse it is desirable that the heaters should be rather heavy for use in a dwelling, and although most of the heaters are all right in this respect, we have had more or less trouble with loose doors and other attachments.

In selecting a heater there with a single circulation of the water upward, or over the fire pot, or from below upward, should be chosen rather than one where it is long and narrow.

## Wrought Iron Boilers.

For several years heaters constructed with wrought iron have been used, but are forcing themselves to the front, owing to the fact that they are cheaper than the cast iron heaters. They are made in two or under two heads (1), ordinary tubular steam boilers, and (2), pipe boilers, including the latter.

Under tubular boilers we find the common horizontal and vertical forms, with both the ends of the tubes of the same type. The ends of the tubes are riveted, and if extra thick will be found quite durable and economical both in fuel consumption and in the results obtained. When a boiler is desired for 5,000 square feet of radiating surface, a tank of water, one can do worse than to select a horizontal tubular or locomotive boiler.

The so-called coil or pipe heaters have in their favor a low first cost, but they have several disadvantages. The first is that, however, has been due more to faulty construction and negligence than to the inferiority of the material.

These boilers are economical and effective, but have often been lacking in durability. When a boiler is desired for 5,000 square feet of radiating surface, a tank of water, one can do worse than to select a horizontal tubular or locomotive boiler. These boilers are economical and effective, but have often been lacking in durability. When a boiler is desired for 5,000 square feet of radiating surface, a tank of water, one can do worse than to select a horizontal tubular or locomotive boiler. These boilers are economical and effective, but have often been lacking in durability. When a boiler is desired for 5,000 square feet of radiating surface, a tank of water, one can do worse than to select a horizontal tubular or locomotive boiler.

When pipe boilers are used the size of the pipe should not be less than one and one-half inches. A radiating surface of over five hundred square feet of radiating surface it will be well to have them of two-inch pipe. If the water is in an open system, and the slight increase in the first cost will be well repaid if they are extra durable.

Not only should all joints be as much as possible out of direct contact with the fire, but the water should be made to rise the threads well turned into the fittings, and the joints wrapped with asbestos. While the water should be made to rise in the form of a box coil, in which the ends of the pipe are connected by return bends, or better by a direct connection, it is better to have the objection that it causes the water to pass back and forth for six to ten times as long as it would be if it were made to rise considerably inside the circulation.

Another form of coil heater that is well adapted for use in a greenhouse is the screw type. It is one of the forms that is recommended by the best engineers. It is a durable and effective heater, and has the advantage over the other forms in that it is possible to pass through but one length of pipe.

These boilers will need to be bricked in between the boiler and the wall. If the pipes should be from sixteen to eighteen inches above the grate, and there should be a brick work between the boiler and the wall, and eight to ten inches between the upper and lower brick work covering the top of the heater.

## Grate and Heating Surface in Heater

The efficiency and economy of the heater will depend upon the quality of the grate and correct adjustment between the size of grate and amount of heating surface, and the capacity to deliver the amount of heat required for the house.

The size of the grate will vary with the kind of fuel used. For hard coal, the grate should be burned, about one square foot of grate for 150 square feet of radiating surface. For soft coal, the ratio of the capacity of the grate will increase as the size of the heater enlarges, until, with a hard coal, the ratio of the grate will become as 1 to 200. For heaters of this size a somewhat larger grate is desirable with a soft coal. For large heaters that have frequent attendance and where there is a night fireman, it will be safe to consider a square foot of grate capable of firing for 300 square feet of radiation.

It is even more difficult to give figures that will show definitely the relation between the grate surface and the heating surface of the heater. On the one hand, and the radiating surface required in the house on the other. In small heaters, run on a coal fire, the ratio between the grate and heating surface, the ratio between the grate and heating surface of the boiler is about 1 to 100. For ordinary heaters, every square foot of grate surface, there are fifteen or twenty square feet of heating surface. For ordinary heaters, more economical results will be obtained, even under the above conditions, if there are not more than a square foot of grate surface for each foot of grate in large boilers, where frequent attendance is given and where there is a night fireman. This can be increased to thirty-five or forty feet, or even more.

It is fairly effective and is properly adjusted to the size of the grate, it is safe to estimate that there is sufficient for eight square feet of radiation.

## Estimating the Radiation.

The amount of pipe required for heating a greenhouse is proportional to the glass surface in the roof, sides and ends, and if there is much wood well exposed, the amount of pipe required to heat glass and one-fifth of its area is added to the glass surface.

When the outside temperature does not fall more than 10 degrees below zero, the following table gives in one column the amount of pipe required for a square foot of glass surface and the glass surface of the house, for the different degrees, while in the other column is given the corresponding ratio when steam is employed:

Below Zero.	Ratio of Pipe to Glass.	For Steam.
40	1/2	8
30	2/3	6
20	1	4
10	1 1/2	3
0	2	2 1/2

Although the above figures are based upon the experience of many florists, they cannot be used under all circumstances, as the size of the pipes and the amount of exposure will need to be considered, and allowance must be made in the case of a large greenhouse. The ratio is more or less than ten below zero.

## Piping for Hot Water.

Instead of using cast-iron pipes formerly used for hot water, wrought iron 1 1/2 and 2 inch pipes, with screw joints, have been used. This change is the result of the arguments against the use of hot water for heating greenhouses remain. For the same reason, wrought iron of the inch size is preferable, especially if the piping is raised but slightly above the level of the benches, and may be used under all conditions. For commercial houses it is seldom desirable to use pipe sizes larger than 1 1/2 or 2 inches, with short runs considerably above the heater a smaller size may be employed.

It is generally admitted that the best results are obtained when the flow pipes are carried overhead and most or all of the return under the benches, on the walls or in the walks. As the circulation in the pipes and heater is due to the difference in the height of the water, the water is drawn through the highest and lowest points in the system, and as this difference in height increases with the height of the columns, it is evident that the higher the water is carried, the better will be the circulation, but the distribution of the radiated heat through the house and its effect upon the plants will be better if the top of the pipes be below the level of the plates.

## Number of Flow Pipes.

It is generally desirable to carry the

water to the farther end of the house in pipes rather larger than is used for the greater part of the radiating surface. The number of pipes should be the sum of smaller ones. In case it is thought best to use flow pipes of the same size as the return pipes, the number of flow pipes returns in houses not over 150 feet long, and the number may be proportionately increased for longer runs.

While it will be considerably modified by the height of the pipes above the heater and the height of the water in the return table will be of value in determining the size of flow pipe required for a given run. For a run of 100 feet, 1 1/2-inch flow for 100 to 150 sq. ft. in returns, 2-inch flow for 150 to 200 sq. ft. in returns, 2 1/2-inch flow for 200 to 300 sq. ft. in returns, 3-inch flow for 300 to 450 sq. ft. in returns. It is not possible to give a definite rule to be used for long runs and for overhead flows when the lowest point of the returns is two feet above the boiler, while the former will answer when both flows and returns are below the level of the plates.

Further better distribution of the hot water flows are obtained if two or two and one-half inch flows are used, one for each of the coils, and the other for the return. It is better to use a single overhead flow, large enough to supply all of the returns. From two to three inches in diameter would be sufficient for twenty-foot benches.

While there is little difference in short runs, the same will apply well above the benches, both theory and practice show that it is better to have the flow pipes above the heater, and the return pipes below the heater, and when they are but little above the level of the heater, the "slope" is only a slight one, and the return pipes will not for this, fully as good or better result would be obtained if they were as well above the heater, and the level between flows and returns being made by means of vertical pipes at the ends of the runs, which will raise the level of the pipes in the pipes is caused by the fact that as it cools it becomes heavier and therefore sinks, and the water in the pipes is pushed up the heater into the flow pipes and through the return pipes, and the water on the side in the circulation. The higher the pipes above the heater the greater will be the weight of the water, and the importance of elevating the pipes, particularly if the heater cannot be lowered. It is as simple as to have the pipes above the heater slope toward the heater, and as the same will be true of the return pipes, the correctness of the "downhill" arrangement naturally follows. As stated above, however, the slope should be a slight one, and the "uphill" piping will generally give good results. Frequent connections between the flow pipes and the return pipes will be better if the flow pipes are two or more flow pipes "uphill" and have connected them to one coil, that only one of the flow will run. When they are considerably above the boiler or only the same pipes are changed to run "downhill" more or less, but in these cases the flow is but slightly above the heater trouble is experienced, the water passing through the return pipes, and the water in the pipes is the least resistance, which shows that in the "uphill" piping there is a forced circulation.

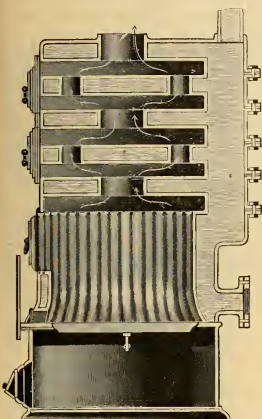
## Hot Water Returns.

In houses where solid beds are used the return pipes should be carried on the walls, but it will usually be preferable to have part of them under the benches or in the walks.

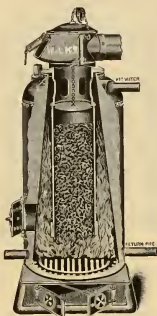
The coils may only run the length of the house, but it will generally be better to have the return pipes run the length of the way across the end of the house farthest from the heater, as this both assures a more uniform distribution of the heat and provides for the expansion of the pipes. This will permit of the use of a heater at both ends of the house.

The pipes should have a slope of about an inch in ten feet, and there should be a check valve at the point where air can collect. When the overhead and downhill arrangement is used, the water should be drawn from a common main at the boiler end of the house, the expansion tank can be connected to this main, and there should be no other provision for the escape of the air will be necessary. Where the closed system is used, the water should be at the lowest point in each return from the coils so that one or all of them can be cut off from the rest of the system. It is desirable, as much as possible, as this will increase the temperature to which the water can be heated, and thus improve the heating.

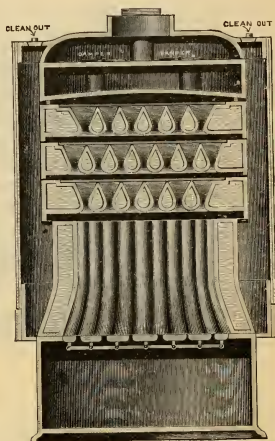
# Greenhouse Heating===Sectional Views of Types of Heaters.



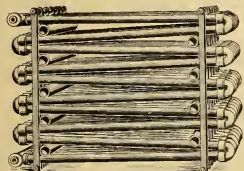
The Humber—J. H. McLain Co.



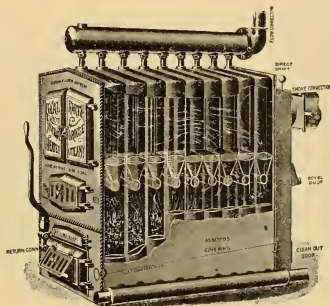
The Wilks—S. Wilks Manfg. Co.



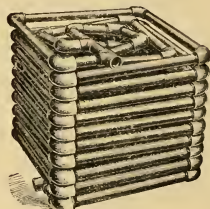
The Cambridge—J. H. McLain Co.



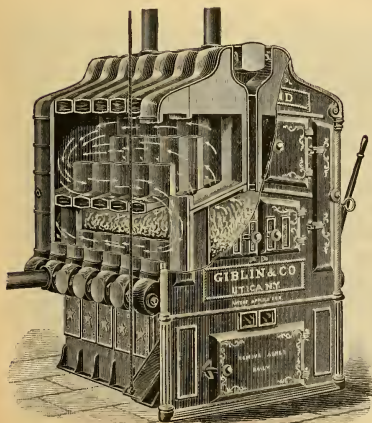
Box Coil.



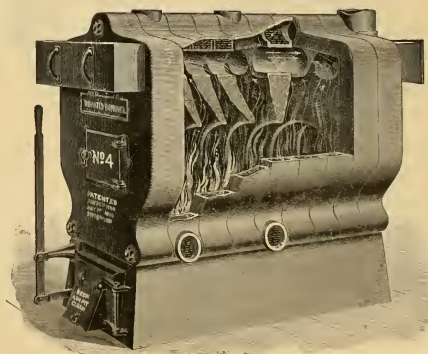
The Royal—Hart & Crouse.



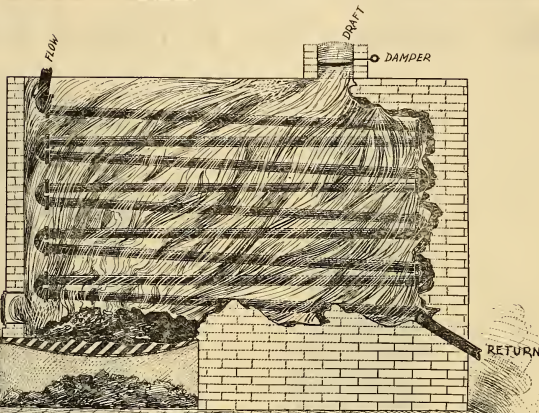
Box Coil.



The Standard—Giblin & Co.



The Howatt—Plenty Co.



Method of Setting a Coil Boiler.

**Heating by Steam.**

In a general way the arrangement of the pipes for steam heating is about the same as for hot water, except that the returns are smaller and a single overhead main is used. Some, however, prefer a small underbench supply for each coil. If connected at the boiler end of the coils a pipe is run to bring back the return water.

For ordinary twenty-foot houses not over one hundred feet long, to be heated to 50 degrees, a two-inch overhead supply pipe will answer, but for longer houses, or if a higher temperature is desired, it will be better to use a two and one-half inch pipe. For the coils use one and one-fourth inch pipe, except for short houses, where one inch pipe will answer, and connect them with the supply pipes the same as if for hot water.

Air valves should be provided at the lower end of each of the coils, and there should be globe valves on the supply and return pipes where they enter and leave the house respectively. It will also be advisable to have valves on several of the

small pipes in the coils, so that they can be shut off in mild weather.

**Steam and Hot Water Combined.**

With the overhead and downhill arrangement it is a simple matter to adjust the apparatus for either steam or hot water, and to change from one to the other at will. Hot water can then be used in mild weather, and steam when the temperature drops, and in this way fully as good results can be obtained, with a considerably smaller cost for the installation of the heating plant. If the water is used under pressure, excellent results can be obtained, even though the main and return pipes are smaller than would be desirable.

As an aid in figuring out the radiation that could be secured with pipes of different sizes it may be noted here that for each linear foot of pipe the following amount of heating surface will be obtained, the amount being the fractional part of a square foot: One inch pipe, .344; one and one-quarter inch pipe, .434; one and one-half inch pipe, .497; two inch pipe, .631; two and one-half inch pipe, .733; three inch pipe, .918.

L. R. TAFT.

**New Coil Boiler.**

This coil is made of 3-inch gas pipe; with close return bends, so that the pipes will lay close together to cause the fire to pass back and around the coil into the chimney. To make this coil, cut the first pipe the required length, screw on a return bend; cut the next piece longer, so that the return bend following will miss the other in screwing together, and so on until you have the coil large enough for the size of the house to be heated. I use two coils for a 16x20 foot house. The coils are set in roof shape over grates 30x20; 10x12 chimney to furnish a good draft. Equal combustion of coal is what we need in firing. Our double coil system is for large houses; two sets, one coil being raised six inches above the other, so that the fire will pass between into chimney, creating double heating surface. This cut shows only one side view.

All other information furnished to those interested.  
D. W. FAYNE.  
Port Clinton, Ohio.

**QUESTION BOX.**

OPEN TO ALL. . . . FREE TO ALL

Answers Solicited from Those Who Know.

(82) Hot Water Heating.—I have a greenhouse running east and west, 110 feet long, 23 feet wide, 6 feet to ridge, 3 feet at sides, all glass except north side, which is boarded. It is piped with one 3-inch flow, one foot below ridge; six 2-inch returns, three on each side. I heat with box coil, open tank system. The coil is made of 2-inch pipe, 3 feet long, 6 wide, 5 high. I cannot heat my house above 40 degrees in zero weather, and have to run a hard fire to do that. I use one ton of hard coal per week. Am I using too much coal for a house of this size, and how many horsepower is there in a coil of the size used?

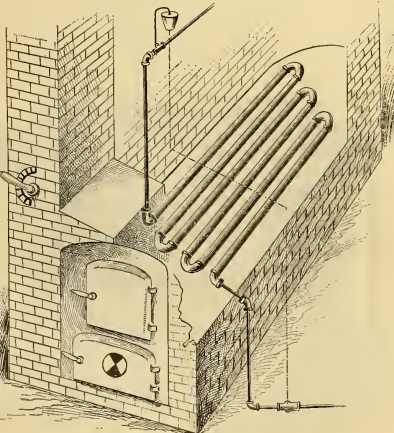
I desire to change my pipix and coil, and to build my boiler house 15 feet from greenhouse, opposite the center, then I want to run a 3-inch flow pipe from boiler on uphill system, connecting it with main flow in greenhouse in center, then run downhill both ways from center, connecting the six 2-inch returns into one 3-inch, running across the center of house and entering boiler. Do you think I can heat my house to 55 degrees in zero weather by changing my system to the way I propose; also do you think I can heat it with less coal by so doing, and by elevating the tank do you get a quicker circulation?—T. H. SUTCLIFFE.

—The trouble lies in the lack of efficient radiating surface. Instead of six 2-inch returns there should be at least ten, and if twelve are used it will result in the increased economy of fuel.

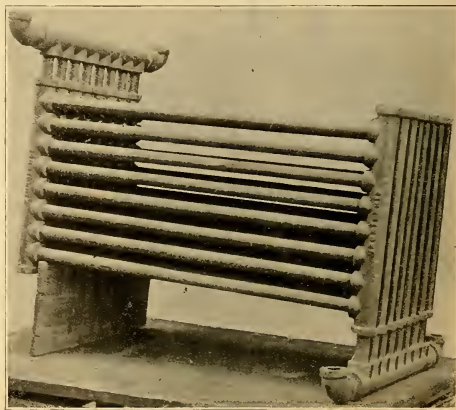
While the present coil is fairly well adapted to the amount of pipe now in use, it should be considerably enlarged to handle the extra returns that are necessary. I should use from 160 to 180 feet of 2-inch pipe in the coil, and this will need from 5 to 6 square feet of grate, according to the character of the coal used. While the 3-inch main from the heater set on the north side of the house as proposed will answer, it will be better to use a 2-inch leading to the center of the house.

Unless there is some other reason for changing the location of the boiler house, it will not be necessary to do so to secure economy in heating.

I would suggest that the present piping be left as it is, and that the additional radiation be secured by running two 2-inch overhead flow pipes, one on each side of the ridge, perhaps 6 feet down the slope, and connecting each of them with two returns.



Side View of Payne's Coil Boiler.



Zirgibel Coil Boiler.

If properly piped you should be able to carry the house at 55 degrees with from one-half to three-fourths of the coal now used to keep it at 40 degrees.

Elevating the tank increases the temperature to which water can be raised without boiling, and this results in a better and more even circulation.—L. R. TAFT.

(83) **Overhead Mains for Steam Heating.**—What size overhead main shall we use for supplying steam for a house 70x50 feet, there being six 1 1/2 inch returns on each side. The house is about 40 feet from the boiler, and the main is passing through the cellar of the dwelling (this is 40 feet) supplies, on the one pipe system, five radiators of 250 square feet heating surface. The main in the greenhouse will be covered and heat derived from the returns. With this amount of piping, what temperature can I maintain with, say, five pounds steam, with thermometer 30 degrees below zero? F. C. CURTIS.

A 3 inch main will answer until it reaches the point where the supply pipe for the dwelling is taken off, and from there a 2-inch main can be run to the greenhouse. Especially as the dwelling is to be piped on the single pipe plan, it would be better to run an independent 3 inch main to supply the radiators. While

body of the house to insure a circulation, thus preventing fungus. Each two lines of pipe are in pair,—if all flows are valued it will be easy to cut off a portion of the work in any part of the house. Thrift and bunched awny, one house of this width, 28 feet and 200 feet long, will contain more stacting than five regular govans, valued at 100, and trade houses. The side light adds vastly to the value of this house, and with the heat placed as shown, it will be almost impossible for algae to find an opportunity to exist. The space under the outside benches is free from lower pipe; the object being to use this space for lycopodium or other spool stock requiring no bottom heat.

The cut represents an oil wrought iron frame with clear cypress wood members, 16x21-inch glass; two lines of 3 feet continuous ridge ventilation, while this house, in my mind, contains all known improvements for the fern house—except ground glass,—it is, if built running north and south, adapted to grow anything that can be placed in it. If glazed with brown glass the house would not be convertible, and when used for ferns, palms, or as a "stove," the clear glass can be adapted by any of the methods usually employed for such purposes. The benches are framed with 2x2 1/2-inch cypress, the ledges and bottoms of 1-inch cypress.

With the heating surface shown, and a proper amount of boiler power, this house

stem. Medium vigorous and free flowerer; medium early.

Princess May.—Not as delicate as Celestial, nor as large as Countess of Radnor, but holds its color better. Of good substance, medium-sized flowers, of five or less lobed form, often bearing four flowered stems, which are of medium length. Medium late; otherwise of good habit.

Countess of Radnor.—Of shade deeper than the preceding, and inclined to take on a reddish or light purple tint on the one band, while on the other its rich mauve fades in streaks, giving it an ashy-striped appearance, not at all attractive. The past season, however, seems to have been especially favorable for choice bloom, since both in trial grounds and in general culture this type has been excellent. Vigorous in growth; a medium free bloomer; season of bloom intermediate.

Not yet before me to place to here state that a 20-foot test row sown the past season to seed from Eckford's original packets produced bloom inferior to California selected stock, whole plants from Eckford's seed in some cases very closely approaching Dorothy Tennant in tint.

SHADES OF REDDISH MAUVE.

Emily Eckford.—In size and form like Countess of Radnor, but of a distinct purplish mauve, usually described as a reddish mauve; of good substance when

ducing three or four flowers, on good stems. Very vigorous; free bloomer; medium early.

Mrs. Carnot.—Laxton's so called blue, standards blue shaded mauve; wings true blue. Of small size, but fair substance.

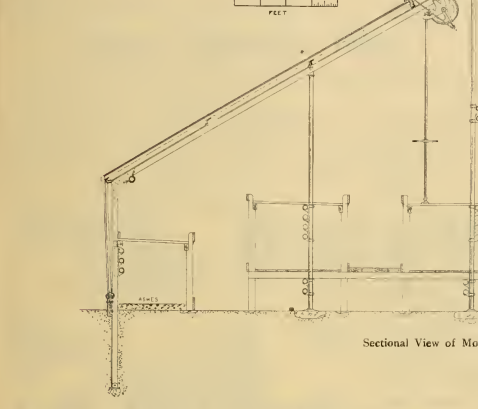
CLAREY SHADES.

Duke of Clarence.—First-class, ranking with the best in size and substance. Color deep rose claret, bordering on the maroon, of Stanley shading; not so intense, but larger and better formed. Stems often extra long, producing three or four flowers, sometimes rather loosely arranged. A vigorous grower; early to medium early; produces an abundance of bloom.

Monarch.—In shading and form, approaches Waverly, but is much darker. Nevertheless a badge of Indigo, with a slight bronze effect on standard; wings of velvety purple. A very vigorous grower, producing three (sometimes four) flowers, on good long stems. With us it has proved an exceptionally profuse bloomer. Medium early.

Waverly.—Has size and form to recommend it, but its rose claret and hine color shades, though quite distinct, are not very attractive. Of good substance, a vigorous grower and profuse bloomer.

Prince.—Standards or few reared laterally, with purple mauve, lightly suffused with wings. Old type; medium large; expanded (sometimes reflexed)



Sectional View of Modern Fern House.

a slight covering of the main in the greenhouse might be necessary to reduce the intensity of the sun's rays, and afford a very efficient heating surface, and should be utilized so far as possible.

While it will not be possible to make an accurate estimate of the temperature that can be maintained, without knowing more about the materials used for the pipes, and supposing that they are as in the average of greenhouses of this width, it is probable that a temperature of 30 degrees can be maintained. L. R. TAFT.

*A Modern Fern House.*

Fern growing is now one of our leaders, and, like all other "specials," it needs houses adapted to its requirements; first of which is ample heat and good circulation of the warmed air; benches designed to produce tall or stocky plants at pleasure, and other things which the professional grower finds necessary in this special line.

The 28-foot seven span house shown in cut has special overhanging side light; the latter extending from the eave down to the cap of the removable base board. The sittings of the upper benches are of 1 1/2 inch matched stock; the frames of the 1 1/2 inch benches are made with a bevel or bevel of one inch as shown; this in connection with the light boards, prevents any leakage on the plants below. The arrangement of 3 inch heat pipes is such that no space is lost, and care is used that all benches shall have proper bottom heat. Sufficient heat pipes are placed in

can be easily and economically heated to 70 degrees in coldest winter weather. This, it is reasonable to suppose, is done, cannot be built with wood posts, radiators, and iron pillars, for first cost, and secondly, they are not so easily covered, although the first saving is not very great, and the wood entails constant expense of labor for logging and for insects, while iron is also free from any tendency to promote fungus growth of any kind. This house contains one bench room to the foot of side and roof superstructure than a house of less width. The house cost the main wider, than by making the center benches wider a gain in bench space would be made, but the fern grower would not care to do this at proper distances to insure good circulation, or damp will follow.

D. E. HOWATT,  
Jersey City, N. J.

*Sweet Pea Review.*

(Continued from p. 1015, Vol. VIII)

SHADES OF MAUVE (LUSH).

Celestial.—In size and form will be approved by all lovers of this shade. In our trials it has proven itself foremost in delicacy of tint and generosity of form. Its early blooms were not so striking, but as the season advanced, its perfect form and pure azure blue became more and more pronounced, until all traces of the plinkish mauve appearing in the bud disappeared. Stems long and slender, generally producing three (sometimes four) flowers per

carefully grown, and as it ages it approaches blue. A vigorous grower and good bloomer; in our trials producing perfect flowers on extra long stems; quite early blooming.

Princess.—Very similar to the above, not quite so hooded, a shade deeper, and becomes darker with age. One of the best in our trials, showing no deterioration to the last, though in some seasons it has approached Countess of Radnor from which it is evidently a color variation.

MAGENTA SHADING.

Captivation.—A new self-shade. Magenta, very delicately suffused with purple; of good size; form to our idea not perfect; standards shell-shaped, as described by originator, which we take to mean like a saucer, with slightly distorted surface, originator, which we take to mean like a saucer, with slightly distorted surface, originator, which we take to mean like a saucer, with slightly distorted surface, originator, which we take to mean like a saucer, with slightly distorted surface. (See giving the edge an irregular outline, the bloom improved in size and substance, adding much to the merit. Sketch represented in cut. Fig. 4 was made in mid season, before bloom had reached their best. Not a tall grower, but a profuse bloomer, bearing usually three (sometimes two) flowers, on long stems. Medium early.

SHADES OF PINK-BLE.

Captain of the Blues (synonym Grand Blue).—This, to our mind, most nearly approaches a true blue in general effect. On first opening, it is easily mistaken for Waverly, though it has a slightly more bluish cast, which gradually develops until about the third day, when it reaches its prime. A large flowering variety, pro-

standards. A very profuse bloomer, bearing three or four flowers on long stems; late bloomer; delicate in color. Its color does not commend it. We would recommend its expulsion.

SHADES OF DEEP MAROON.

Stanley.—Darkest and most intense of all sweet peas; deep, burnt, carmine; standards glossy, finely laced with deeper shade; wings velvety, shading to purple lake; expanded form; standards large to very large, sometimes measuring thirty-five millimetres across; broad, almost circular, expanse. A fine, bold flower, producing long, slender, usually three-lobed standards. Standards or few reared laterally, with purple mauve, lightly suffused with wings. Old type; medium large; expanded (sometimes reflexed) standards. A very profuse bloomer, bearing three or four flowers on long stems; late bloomer; delicate in color. Its color does not commend it. We would recommend its expulsion.

Princess.—Standards or few reared laterally, with purple mauve, lightly suffused with wings. Old type; medium large; expanded (sometimes reflexed) standards. A very profuse bloomer, bearing three or four flowers on long stems; late bloomer; delicate in color. Its color does not commend it. We would recommend its expulsion.

Monarch.—In shading and form, approaches Waverly, but is much darker. Nevertheless a badge of Indigo, with a slight bronze effect on standard; wings of velvety purple. A very vigorous grower, producing three (sometimes four) flowers, on good long stems. With us it has proved an exceptionally profuse bloomer. Medium early.

Waverly.—Has size and form to recommend it, but its rose claret and hine color shades, though quite distinct, are not very attractive. Of good substance, a vigorous grower and profuse bloomer.

Prince.—Standards or few reared laterally, with purple mauve, lightly suffused with wings. Old type; medium large; expanded (sometimes reflexed) standards. A very profuse bloomer, bearing three or four flowers on long stems; late bloomer; delicate in color. Its color does not commend it. We would recommend its expulsion.

Stanley.—Darkest and most intense of all sweet peas; deep, burnt, carmine; standards glossy, finely laced with deeper shade; wings velvety, shading to purple lake; expanded form; standards large to very large, sometimes measuring thirty-five millimetres across; broad, almost circular, expanse. A fine, bold flower, producing long, slender, usually three-lobed standards. Standards or few reared laterally, with purple mauve, lightly suffused with wings. Old type; medium large; expanded (sometimes reflexed) standards. A very profuse bloomer, bearing three or four flowers on long stems; late bloomer; delicate in color. Its color does not commend it. We would recommend its expulsion.

We are at a loss to know why this variety is generally described as a maroon, of which color we find no trace in our blooms, excepting on the outer side of the petal.

Boration.—From which Stanley is a careful selection, differs from it only in form, the standards being more or less reflexed laterally, which gives them a narrow, elongated appearance; shades of magenta in the wings. Produces three or four flowered stems of good length. A profuse bloomer, early to medium early. A good flower we have Stanley—and for such a reasonable price.—From Sweet Pea Review, of Sunset Seed and Plant Co.

# SEEDS AND BULBS.

## Several Specialties at Bargain Prices

WHICH HOLD GOOD FOR ONE WEEK ONLY. Our regular trade prices on all Florists' Seeds and Bulbs are quoted in our Wholesale Spring Catalogue, a copy of which is mailed to all Florists. Our stock represents

### THE BEST QUALITY MONEY WILL BUY.

N.B.—The following prices are Special—Reduced for one week from our Regular Wholesale Rates.

#### TUBEROSES.

See our Special Advertisement in our Regular Space on First Page of this Issue. If you want Tuberoses this is the opportunity of the season.

#### TUBEROUS-ROOTED BEGONIAS.

Single White, Red, Rose, Yellow and Bronze, separate colors	\$2.50 per 100;	\$3.00 per 1000
Mixed	2.00	18.00
Double Mixed	9.00	80.00

#### GLADIOLUS.

American Hybrid, Best Mixture for Florists	\$10.00 per 1000
Extra fine mixed	7.50
Grod Mixed	6.00
White and Light, Standard Selection	12.50
White and Light, Florists' Extra Choice	25.00
DAHLIAS, Single Named Varieties, Our Selection	\$6.00 per 100
Double Named Varieties, Our Selection	8.00

#### LILIAM AURATUM.

7 to 9 inch Bulbs	\$4.00 per 100;	\$35.00 per 1000
9 to 11 inch Bulbs	5.00	45.00

#### LILIAM SPECIOSUM RUBRUM.

7 to 9 inch Bulbs	\$5.00 per 100;	\$45.00 per 1000
9 to 11 inch Bulbs	6.00	55.00

#### LILIAM SPECIOSUM ALBUM.

7 to 9 inch Bulbs	\$8.00 per 100;	\$75.00 per 1000
9 to 11 inch Bulbs	10.00	90.00

#### ASTER SEED. For Late Sowing.

Comet, Rose and White, White, Light Blue, Separate	\$1.75 per oz.
Truffaut's Peony Flowered Perfection, White, Dark Blue, Deep Crimson, Separate	1.00
Mixed	.75
Chrysanthemum Flowered, Light Blue, White, Separate	.90
Mixed	.50
Betteridge's Quilled, Mixed	.25
German Quilled, Mixed	.25
Queen of the Market, Mixed	.45
SWEET PEAS. Cupid, "The Only Dwarf", .30c. per oz.; \$1.00 per 1/4 lb. Bunch Ferry	\$0.19 per lb.
Berly Henderson	.20
Invincible Scarlet	.18
Mrs. Sankey	.20
Fine Mixed	.15

10 Per Cent. Discount ON ALL OTHER SEEDS offered in our WHOLESALE CATALOGUE, ordered within one week from date of this issue.

# VINES.

Ampelopsis Veitchii, extra strong, Per 100	Per 100	Per 100
2 year old	88.00	Euonymus radicans, 2 year old
2 year old	8.00	variegata, 2 year old
Aetia quinata, 2 year old	8.00	variegata, 2 year old
Clematis paniculata, strong, 2 year old	6.00	2 year old
		2 year old
		2 year old

# PALMS.

We offer a fine assortment of the following popular varieties, in healthy, well grown plants suitable for immediate decoration.

#### ARECA LUTESCENS.

3 in. pots, 12-15 in. high, single stem	\$1.25 per doz;	\$10.00 per 100
4 " 15-18 " " plants in a pot	1.50 per doz;	35.00 per 100
5 " 20-24 " " " " "	2.50 per doz;	60.00 per 100
6 " 25-30 " " " " "	3.50 per doz;	85.00 per 100
8 " 36-40 " " " bushy	6.50 each;	30.00 per doz.

#### COCOS WEDDELIANA.

2 in. pots, \$1.50 per doz;	\$12.00 per 100	3 in. pots, \$3.00 per doz;	\$25.00 per 100
-----------------------------	-----------------	-----------------------------	-----------------

#### KENTIA BELMOREANA.

3 in. pots, 8-12 in. high, 4-5 leaves	\$3.50 per doz;	\$35.00 per 100
4 " 12-15 " " 4-5 " "	6.50 per doz;	60.00 per 100
5 " 15-20 " " 6-7 " stocky plants	9.00 per doz;	75.00 per 100
7 " 24-28 " " 5-6 " " "	\$2.50 each;	\$30.00 per doz.
8 " 28-32 " " 6-7 " " "	3.50 each;	35.00 per doz.
8 " 36-40 " " 7 " fan, strong	5.50 each;	55.00 per doz.
8 " 45-51 " " 8-7 " fan, strong	7.50 each;	75.00 per doz.

#### KENTIA FORTHERIANA.

3 in. pots, 12-15 in. high	\$2.00 per 100	
4 " 15-18 " "	\$4.00 per doz;	35.00 per 100
5 " 18-20 " "	6.00 per doz;	55.00 per 100
8 " 50-52 " 6-7 leaves, single stem, fine	6.00 each	

#### LATANIA BORBONICA.

2 in. pots	\$1.00 per 100;	\$25.00 per 1000
5 " 15-18 " "	3.00 per doz;	35.00 per 100
8 " 18-20 " " fine stocky plants	6.00 per doz;	60.00 per 100
	8.00 per doz;	75.00 per 100

#### LIVISTONA HOOGENDORPIL.

4 in. pots, 10-12 in. high, 7 leaves	\$4.50 per doz;	\$35.00 per 100
--------------------------------------	-----------------	-----------------

#### LIVISTONA ROTUNDFOLIA.

3 in. pots, 12-15 in. high, 7-8 leaves, fine strong plants	\$4.50 each;	\$18.00 per doz.
5 " 15-18 " " 5-6 "	2.50 each;	25.00 per doz.

# FERNS.

Adiantum cuneatum, 3 in. pots	\$8.00 per 100;	\$70.00 per 1000
Assorted Ferns, for Jardinieres, 2 in. pots	4.00 per 100;	35.00 per 1000

# HARDY FLOWERING PLANTS.

We offer for immediate delivery the following selected list in strong, field-grown clumps, except where otherwise noted. For a more complete list see our trade catalogue.

	Per 100	Per 100
Achillea The Pearl	\$4.00	Paeonia, choice varieties, strong
Axononema 30 cent	5.00	2 year old
" elegans	5.00	\$10.00
Coreopsis lanceolata	7.00	Philox paniculata, named varieties
Harvest Moon	6.00	" subulata
Campanula grandiflora	7.00	" alba
persicifolia	7.00	" Carolina
allis plena	8.00	" stellata
Dolichoanthus hybridum	6.00	Peutzschon Hartwegii
sinensis	5.00	variegata Torreyi
variegatum	6.00	Primula Sultan Nourah
Euphorbia corollata	5.00	Plumbago Larpentiana
Funkia undulata variegata	6.00	Pyrethrum uliginosum
cordata variegata	7.00	resens, choice named var.
Gaillardia grandiflora, 1 year old	5.00	" etica, double, 3 in. pots
Helianthus Maximiliani	5.00	resens, choice named var.
multiflorus plenus	6.00	" etica, single, 3 in. pots
rigidus semiplenus	5.00	Papaver orientale
Heliospis Pitcheriensis	4.00	involutum maximum
Heuchera sanguinea, 3 in. pots	7.00	Rudbeckia Golden Glow, 3 in. pots
Roseum autumnalis	6.00	Silene Anthony Waterer 3 in. pots
Hypericum Mossirianum, strong	5.00	resens, choice named var.
2 year old	8.00	" japonica grandiflora
Iris germanica, named sorts	3.00	Sedum spectabile
Kempferi, assorted varieties	6.00	album
Iberis saxatile compactum	5.00	" variegatum
Lychnis Flacciculca	5.00	Stachis latifolia
variegata	6.00	Stokosia cyanea
Haageniana	5.00	Syringa longifolia subaequalis
Monarda didyma	5.00	rapunculata
Oenothera Youngii	4.00	Yucca filamentosa

# PITCHER & MANDA,

# JOHN N. MAY, Short Hills, N. J. RECEIVER.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# THE WM. H. MOON CO.

60 Miles from New York.  
30 Miles from Philadelphia.

Offer for Spring of '97. GLENWOOD NURSERIES, Morrisville, Pa.

## DECIDUOUS TREES.

Maples, Sugar, Norway, Silver, Sycamore and Ash Leaved, Carolina Poplars, Oaks, Ash, Lindens, Purple Leaved Beech, Willows, and many other varieties of sizes adapted to Avenue, Lawn, or Park planting.

## EVERGREEN TREES.

Arbor Vitæ in great variety, both dwarf and tall growing sorts; Norway, Hemlock and Colorado Blue Spruce, Nordmann and Silver Fir, Yews, Junipers, Pines and Retinosporas. An immense stock of the best kinds of various sizes.

## HEDGE PLANTS.

300,000 California Privet, 5,000 Berberis Thunbergii, Prunus Japonica, Osage Orange and Altheas, Arbor Vitæ for low and high hedges, Norway and Hemlock Spruce.

## FLOWERING SHRUBS.

A million of the Choicest Shrubs, both Deciduous and Evergreen. We offer a full line of all sizes.

## VINES.

Ampelopsis Veitchii and Quincefolia, Clematis Paniculata, Honey-suckles, Wistarias, Matrimony Vines and Climbing Roses, including Witch-ambrosia, Baltimore Belle and Prairie Queen.

Dahlias, Pampas and other Grasses, Fruit Trees, Small Fruits and Asparagus Roots.

DESCRIPTIVE ILLUSTRATED CATALOGUE, ALSO TRADE LIST FREE ON APPLICATION.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Toronto.**

**Cash Meeting.**  
At the last regular meeting of the Gardeners and Florists' Association, President Dunlop exhibited several fine carnations that he had brought over from Buffalo; they were new varieties, and all of them appeared to be improvements on the older ones.

**The Tariff Question.**

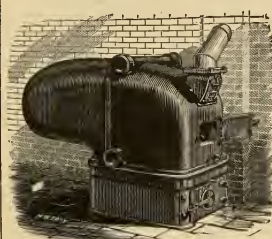
The Tariff Committee have held a joint meeting with a committee appointed by the Horticultural Society, and drafted a resolution to the ministers at Ottawa asking them to put all florists' plants, not otherwise mentioned, also all bulbs, corms, tubers, and dormant flower roots, not otherwise mentioned, on the free list. Plants that are "otherwise mentioned" at present are roses and some nursery stock; and roots "otherwise mentioned" are some that are used for medicinal and manufacturing purposes, etc. If the resolution is adopted nearly all florists' plants will be free. This will be a great boon to most of us, as the tariff as it stands is very vexatious. The majority in our trade here have to import many little things, and when prices for stock are as low as at present the duty of 30 per cent. makes quite a difference to the grower.

**Trade Notes.**

Business has been good for Lent; there has been considerable funeral work, and most of the stock arriving has been used up. Roses coming in are mostly of very high quality. Carnations are not quite as good as usual. Violets are both good and very plentiful. Bulbous stock appears to be also very abundant. Azaleas have been good this season, but have sold very low. The well-bloomed plants going at prices that would hardly pay for the plants in the fall. But none of our boys like to carry them over, so they have to go for what they will bring. This is very unsatisfactory business, and some will be able to suffer.

The Horticultural Society announces a lecture on Thursday, April 8, on "How Plants Feed," by one of Toronto's best lecturers; it is to be free and a big crowd is expected. THOS. MASTON.

**GREENHOUSE HEATING AND VENTILATING,**  
Horticultural Architecture and Building.



**Hitchings & Co**  
ESTABLISHED 1844.

233 Mercer Street, NEW YORK

**FIVE PATTERNS OF BOILERS.**  
NINETEEN SIZES,  
Perfect Sash Raising Apparatus.  
Roshounea, Greenhouses, Etc., of Iron Frame Construction erected complete (or the Structure) from Work shipped ready for erection.

Iron Frame Benches with "Perfect Drainage Bench Tile" or Slate Tops.

SEND 4c. POSTAGE FOR ILLUSTRATED CATALOGUE.

Mention paper.

**MYERS & COMPANY**  
**Greenhouse Heating.**



MYERS' PLANT STAND.

Iron Greenhouse Benches with Slate or Tile Tops.  
Dwelling-warming by the Hot Water System.  
Swimming Pools and Shower Baths Heated.

**HORTICULTURAL IRON WORK,**

1514-1520 So. Ninth St., - - PHILADELPHIA, PA.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE.



**HAVE YOUR COLLECTIONS MADE THROUGH THE NATIONAL FLORISTS' BOARD OF TRADE, 271 BROADWAY, NEW YORK.**

**GEDAR OIL SOAP.** The best market the best preventive of insecticide on the wash against Scale, Spider, Mealy Bug, Thrip, Fly, etc. On hardwood plants, 1 lb. to 6 gallons of water. Soft wood plants, 1 lb. to 10 or 12 gallons of water. To florists, pond lime, 30 cts. Half pound trial tin, mailed on receipt of 25 cts. Address the manufacturers.  
**August Röiker & Sons, New York, 136 West 24th St., P. O. Station E.**

**PRINTING CHEAP.**

We make a specialty of good printing cheap for Florists, Nurseries, Seedsmen and others. Read these prices, about half of what you pay. Satisfaction guaranteed. Work shipped next day after order is received. We keep no books, or accounts, so CASH MUST ACCOMPANY THE ORDER.

Good LETTER HEADS printed for **\$1.000** ENVELOPES Full Size Printed **1000** FIRST BRISTOL BUSINESS CARDS.

Write plain. Orders amounting to \$5 we pay express. Other printing cheap.

**DIAMOND PRINTING CO., Wilmington, Del.**

WHEN WRITING MENTION THE FLORIST'S EXCHANGE.

Thanks,  
Yellow Marguerite all sold that are ordered. Thanks to the Exchange. HENRY NEESER, Governor, N. Y., Feb. 3, 1897.



"DEMING-VERMOREL" PATENT SPRAY NOZZLE.



COMBINATION COUPLING.



"BORODAU" PATENT SPRAY NOZZLE.



POLE CONNECTION.



KEROSENE EMULSION SPRAYER.

**SPRAY PUMPS AND NOZZLES**



MANUFACTURED BY

**The Deming Company, Salem, Ohio,**

Are "THE WORLD'S BEST" Because They Give Universal Satisfaction!

**THE REASONS WHY**

Working Parts of Pumps are Made of Brass. Construction is Simple, Convenient and Durable. Nozzles are Adjustable to Desired Fineness and easily degorged. Our Automatic Agitator for Barrel Pumps prevents sediment.

Our Sprayers are Used and Recommended by America's Leading Horticulturists and Agricultural Experiment Stations. 40 Page Illustrated Book and Price List on Application. Address Manufacturers or Nearest Agency.

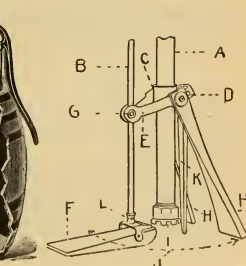
GENERAL AGENTS—Henson & Hubbell, 31 to 39 N. Jefferson St., Chicago, Ill.; Harris Pump and Supply Co., 329 and 333 Second St., Pittsburg, Pa.; W. P. Dallett, 49 N. 7th St., Phila., Pa.; C. J. Jager Co., 114 High St., Boston, Mass.; Crane Co., 25 and 23 First St., San Francisco, Cal.



"PERFECT SUCCESS" SPRAY PUMP.



"ADVANCE" BARREL SPRAY PUMP.



"DEMING AUTOMATIC" AGITATOR.



GREENHOUSE KNAPSACK SPRAYER.

Special Spring Edition, 1897.

We again submit our annual harbinger of Spring and the Spring Edition... In its various phases we think it compares most favorably with its predecessors.

We have stated why we selected the subject of Commercial Orchids, viz. their growth and propagation.

The innumerable questions on heating which we have of late been receiving lead us to believe that there is no better authority to write us a chapter on that important matter.

A Plan for More Hard-Wooded Plants for the Florist... We are glad to see that the subject is being taken up by the horticulturists.

Then there is the Tariff; but at present we do not know where we stand on that point. We are not sure that our transformations under the direction of our legislators.

For advertising and advertising patronage is concerned, it will be seen that the FLORIST'S EXCHANGE still continues in the lead.

Nine thousand copies of this Special Spring Edition—going up nearly two and a half tons of paper—will be mailed to the clients of the Exchange.

We sincerely and heartily thank the trade for their most generous support, and trust that each and every advertiser will receive those tangible returns therefrom.

Congressional and Senatorial Interference with a legitimate industry will be continued until the tariff is repealed.

Announcing this fact, however, should increase and not lessen the efforts on the part of the people to have the tariff repealed.

A Conundrum. Paragraph 51 of the Tariff bill now being discussed provides that "plants, trees, shrubs, roots, seed cane and seeds, shall be imported free of duty."

measure where it belongs, that we may expect effectual aid.

The campaign has been productive of much good; this is evidenced in the fact that several Senators and Congressmen have expressed their intentions of working and voting against such a measure in the future.

Another, and a very material point of the present appropriation in purchases of material which will really be of benefit to the farmer rather than continue the present wasteful and indefensible distribution.

Yellow Rambler Rose.

The very best of the hardy yellow climbing rose sent out in our last week's issue was from an excellent drawing by Peter Lambert, the originator.

The Proposed New Duties.

That the trade should scrutinize with interest the changes sought to be made in the existing tariff is but natural. Duties are the life of the tariff.

With the time arrives when the business people of the country are called upon to protest and disjoin their endeavor.

Free Seeds. Congressional and Senatorial Interference with a legitimate industry will be continued until the tariff is repealed.

Ideas may and will conflict, but an average could be agreed upon. The rates imposed are the result of the uncertainty which exists as to the constant changes in the law.

A tariff is in its very nature a discrimination, and while all acknowledge such a measure is necessary to the maintenance of a government, it should be framed above party politics.

who uses forcing stock from abroad, as well as the importer of all stocks, favor the tariff.

The seed-growers of southern New England, and the nurseries of Philadelphia, urged through their delegates before the House and Senate Congressmen to meet the necessities of the case.

The proposed rates have been before our readers for some time. We have had a full opportunity to determine for themselves whether they suit them, or not.

The fact that the Dingley bill has passed the House should not cause us to withhold their ballots.

In comparison, we present the following figures of imports for 1896, taken from official sources:

Of forcing stock, such as orchids, azaleas, lily of the valley, etc., \$3,410,000.

Of garden seeds (principally vegetable seeds), \$428,238.55.

Of foreign stock, the first item is expected to yield a revenue of \$120,216.86, in place of \$100,000 in 1896; the second, \$3,310,600, as in 1896; the third, in 1890; the third item, \$171,265.00, instead of \$42,833.00, as in 1890.

Readers Will Please Note That

During the last days of the tariff discussion in the House, the Hon. C. C. Dingley, of Iowa, succeeded in thoroughly altering the wording of Paragraph 51, which has been inserted in the bill.

As will be noted, no provision whatever is now made for the importation of such articles as azaleas, palms, lily of the valley, etc., and the same remark applies to bulbs of all bulbous roots, and the rendering of both admitted free under the classification of Drugs, in Paragraph 54.

Exclusively a Trade Paper.

Entered at New York Post Office as Second Class Matter under Post Office No. 253, dated October 3, 1878.

Published Every SATURDAY by

A. S. DE LA MARE PTF. AND PUB. CO. LTD.

2, 4, & 6 Duane St. New York.

P. O. Box 1697. Telephone 2154 (Centra)nt

SUBSCRIPTIONS:

\$1.00 per year in United States, Canada and Mexico. \$2.00 per year to foreign countries in postal union.

ADVERTISEMENTS:

Copy must reach this office not later than Thursday in order to secure insertion in issue of the following Saturday.

General Eastern Agent: W. K. WOOD, 100 Broadway, New York.

General Western Agent: BOB SANDERS, 1609 Belmont Ave., Chicago.

ADVERTISEMENTS and all other matter intended for circulation will not be accepted unless it reaches this office not later than THURSDAY NIGHT.

Exclusively a Trade Paper.

THE FLORIST'S EXCHANGE is published in the interests of those commercially connected with the Florist, Seed and Nursery business.

BOOKS.

Send for our catalogue of horticultural books, just off the press. It contains all the leading publications in this line.

For the Busy Man.

The Boston courts have decided that a late employer of a coach, starting in business for himself, can sue on a contract of his former employer for the business.

The second edition of the new Tariff affecting the plant and nursery trade has been changed; see the notice on this page.

The Trade in Canada are endeavoring to have the tariff repealed on the Free list, under the Canadian Tariff.

Erratum.

In advertisement of John N. May, page 325 of this number, read price of carnations, 10 cents and Mant Desai, \$10.00 per 100, not per 1000.

A Conundrum.

Paragraph 51 of the Tariff bill now being discussed provides that "plants, trees, shrubs, roots, seed cane and seeds, shall be imported free of duty."

Points and information from steamship, and all other... Editor SEN TRAD, care of FLORESTS' EXCHANGE, P. O. Box 1067, New York.

New York.—L. W. Bowen, of the D. M. Feltus... E. Emerson, Waterloo, Neb., and A. N. Clark, Milford, Conn., will visit us this week.

A preliminary dividend of 9 percent, has been paid by the Northrup, Braslan, Goodwin Co. estate.

Free Seed Distribution. Views of the People.

A prominent Western House relates an instance where they were arranged to sell seeds with a dealer in a small town in Missouri to take a box of their seeds on...

From Virginia—I received five packets of tobacco seed, sent by Senator...

From Indiana—It is indeed a great hindrance to our farmers...

From Ohio—I have this P. M. had a personal talk with our representative to Congress...

From Florida—This free seed is a fraud on the people, as I have had parties come to me...

From North Dakota—I am in receipt of five packets of tobacco seed...

From Colorado—I believe one seed law is not only an injury to seed dealers...

From Massachusetts—Another letter from our society who carries the title of D.D.S., and also M.D., writes...

From Georgia—I write you to let you know how much I am furnished by Uncle Sam does us?

The J. A. Everett Seed Company has furnished us with a copy of a letter written by their Senators...

About twenty million packets of seed will be distributed this year, representing the extraordinary demand...

The lady spoken of in our last, who bloomed lettuce with pork, may be a good one...

Here is a letter from Messrs. A. Tilton & Son of Cleveland, O., who have written our representative...

"Following your advice we have this day forwarded to our Congressman, a protest against the proposed appropriation for the distribution of seed by the Department of Agriculture."

"We hope that each and every seedman having a share in the sale of the seeds of the trade, that he will do likewise."

"Our united efforts are sure to effect a reform in the distribution of this article, long in a work of such universal concern."

From Massachusetts—Another letter from our society who carries the title of D.D.S., and also M.D., writes...

From Georgia—I write you to let you know how much I am furnished by Uncle Sam does us?

Overproduction

"European Seeds" has hit the nail on the head when they say...

the result will be that those who buy from Europe will grow their seeds here in abundance...

Our great trouble comes from the head-land, where the grass is rushing into thicket...

The tendency is overproduction, and the farmer has caught on to that. The dealer gives him an order...

From America in the trade takes to seed-growing, is fortunate in obtaining some orders...

From North Carolina—Not long since a package of seeds came to us from the Agricultural Department...

From Colorado—I believe one seed law is not only an injury to seed dealers...

Simcoe, Ont.

H. H. GROSS writes us that he has a seedling class of unique form originated by himself...

Brooklyn, N. Y.

JOHN A. SCOLLAY, 74 and 76 Myrtle ave., Daledale, N. Y., is making an attractive improvement to the building...

J. M. KELLER is building another green house.

HENRY A. MOLATSCH has secured a permit to build another greenhouse at 65th st. and Ninth avenue.

Bowling.

Table with 2 columns: Name and Score. Includes T. Miller, G. Hoffman, Eugene Dalidowicz, etc.

Table with 2 columns: Name and Score. Includes A. Suydam, R. Kover, J. Hyer, J. Scholtenker, etc.

### Neponset Flower Pots

of Waterproof Paper, are sold with orders:

Terms—Net cash as follows: If ordered shipped by freight, add 50 cents cartage.

Size	Per 1000	Per 100	Per 1000
2 1/2 inch.....	1000	25	25
3 1/4 .....	1000	28	28
3 1/2 .....	1000	30	30
3 3/4 .....	1000	32	32
4 .....	1000	35	35
4 1/2 .....	1000	40	40
5 .....	1000	45	45
5 1/2 .....	1000	50	50
6 .....	1000	55	55

Less quantities than full crates at 100 rates.

F. W. BIRD & SONS, Manufacturers.

Address orders to our General Agents,

**August Rölker & Sons**

New York. P. O. Station E.

or E. J. PARQUEL & Co., Boston, Mass. Eastern Agent

### STANDARD ♦ POTS.

We are now ready to supply a superior quality of Pots in unlimited quantities. Catalogues and price lists furnished on application.

**A. H. HEWS & CO.,**  
NORTH CAMBRIDGE, - MASS.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

### Standard Pots

MADE BY...

Good Railroad Facilities **KELLER BROS.**

For Shipping.

Special Attention Given to Mail Orders.

Norristown, - Pa.

Price Lists Furnished on Application.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

### Standard Flower Pots.

Sand for our New Price List with extra discounts. All our Pots, from 7 in. and upwards, have our Patent Ezeloid Bottom, which is a great advantage, as it insures perfect drainage.

A FULL LINE OF BELL PANS.

**THE WHELDIN POTTERY CO.,** 713 7 1/2 Wharton Street, PHILADELPHIA.

BRANCH HOUSES: J Kearney and Westside Aves, Jersey City, N. J. Jackson Ave and Pearson St., Long Island City, N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

### DO YOU FLOWER POTS?

If so, before buying, write for our prices on

STANDARD POTS, BULB PANS, PALM POTS, VASES, ETC.

**PITTSBURGH CLAY MFG. CO.,** New Brighton, Pa.

Mention paper. Eastern Salesroom, 620 Arch St., Phila., Pa.

### FLOWER POTS

We are Manufacturing a Full Line of

STANDARD FLOWER POTS and HANGING BASKETS

OF THE BEST QUALITY.

Shipping Facilities First-Class, thereby Securing Lowest Freight Rate.

Our goods are well packed, and breakage is nominal. Give us a trial. Send for Price List.

Address **THE SYRACUSE POTTERY CO.,** 403 N. SALINA ST., SYRACUSE, N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE



**Columbia Plant Tubs,**  
Made of Cypress. Never Decay or Cheap Manufactured by Fall Apart. Durable. Home Rattan Co., Chicago, Ill.

### STANDARD FLOWER POTS==At Bargains.

2 inch.....	per 1000, \$2.50	4 inch.....	per 1000, \$7.50
2 1/2 .....	5 .....	5 .....	12.00
3 .....	6 .....	6 .....	15.00
3 1/2 .....	6 .....	7 .....	35.00

We have a large stock of these sizes on hand, and will sell them for the next ten days, at above prices; after that, prices go up.

**Lawn Vases,** 17 in. wide, 19 in. high, 5 1/2 inch diam., 12 inches high, \$3.00 per dozen.

These vases are made from stoneware clay and are stronger than red clay vases, and are the cheapest vase on the market.

ADDRESS **HILFINGER BROTHERS,** Pottery, Fort Edward, N. Y.

Or **AUGUST RÖLKER & SONS,** 136 and 138 W. 24th St., New York Agents.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Hanging Vases,** 7 inch..... per doz, \$9.75

8 .....	2 .....	1.50
9 .....	3 .....	2.00
10 .....	4 .....	2.50

**Water Coolers,** from 2 gallons to 30 gal. diam., 15c. etc. per gallon; made from stone clay and are stone color.

**Cylinders for Cut Flowers,** made from stone clay, with handles 6 inches wide, 12 inches high, \$3.00 per dozen.

**TERIS CASH.**

### "DIAMOND" INSECTICIDE.

Soluble in Water. The Cheapest and Best Insecticide in the Market.

**WILL KILL** SCALE, THRIP, BLIGHT, MEALY BUG, MILDEW, BLACK AND GREEN FLY AND SPIDER

**BROOMWOOD MFG. CO.,** 411 and 413 East Pratt St., Baltimore, Md.

Mention Paper. Sold by all Dealers, or sent on Receipt of Order.

### Hot-Bed Sash

Timone white-glazed. Corners secured with iron dowelpins. Very detail of construction perfect. Made of Clear Cypress Lumber.

**Quick Shipments.**

We have in stock and can ship immediately:

3	ft. x 6 ft.	3 rows	10 in. glass
3	ft. 3 in. x 6 in.	4	" 8 in. "
4	ft. x 6 ft.	5	" 8 in. "

Not glazed, 1 1/2 in. thick.

**Delivered Prices**

Quoted on application. State size and quantity wanted. No order too small to receive careful attention, and none too large for our facilities.

**LOCKLAND LUMBER CO.,**

Lockland, Ohio.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

### Live Sphagnum Moss and Orchid Peat

BEST QUALITY.

For Prices, etc., address,

**Bernhard Lapp, New Providence, N. J.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

### WELCH BROTHERS,

DEALERS IN

**FLORISTS' SUPPLIES,**

No. 2 Beacon Street, - BOSTON.

Wire Design, Wheat, Sheaves, Baskets, Ironmolds, Caps, Flowers, Cut Flowers, Boxes and all other supplies, at prices to meet competition.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

### CHOCOLATE COOLER CO.,

GRAND RAPIDS, MICH.

Manufacturers of

### FLORIST'S REFRIGERATORS.

Sent for Circular.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

### CEDAR OIL INSECTICIDE

Soluble in Water

**Kills** Mealy Bug, Thrip, Spider, Etc. Do not use on plants for Fire Tree Oil is equally good and much cheaper. Florists' gal. tin, 50 cents. 30 tin quart, 25 cents. 10 tin quart, 10 cents. 5 tin quart, 5 cents. Sold by all dealers.

**August Rölker & Sons, New York,** 150 West 24th St., P. O. Station E.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

### STANDARD FLOWER POTS

In any quantity, and of the best quality.

Get my price list before ordering elsewhere.

**W. H. ERNEST,**

136 W. N. E., WASHINGTON, D. C.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

### Growing Tropical Nymphs for Their Flowers.

Although the hardy species of water lilies are the best for cutting from, the tender

ones are also being grown on account of their showy, brilliant colors. It is thought is a greater number of tender species and varieties than hardy ones. By hardy ones I mean those which can be left out of doors all winter north of the thirtieth degree

latitude. The tender kinds are very distinct in the manner of growth from the hardy species. Curiously enough it is those kinds which grow nearest the Equator that are least suited to remain for a long time in an absolutely dormant state. While none of the hardy species are suited to exist long in that condition, they may be said to be continually growing, except during the latter part of summer and autumn; after that period, if the rhizomes of any of the species are examined, the flower buds and leaves for the following season are plainly visible.

All of the tender kinds form little tubers when a few weeks old from seed, or, in the case of stolons about three weeks after being parted from a parent tuber. Both are capable of being thrown into a resting stage and they may be kept at about the same size so far as the tubers are concerned

for a number of years. I have some of the identical tubers of the true *zanzibaricus* and *N. gigantea*, which were purchased from Stratveit, of Bordentown, over six years ago. In these tubers have not increased in size during that period, although they have given off plants every season since they were produced.

The day blooming tender kinds in forming large roots do not, as a rule, make small tubers, but they do form roots formed on the rootstalks of *N. euclyptus* and I have found them on *N. gracilis* and *N. pulcherrima*. In fact, it is always best to depend on small tubers for their propagation.

The night bloomers all form an abundant supply of small tubers, which do away with the necessity of keeping large plants over winter.

If those tubers be started now in the tank of a house to which the sun has free access they will be large enough for planting out before the middle of May, for instance a fair-sized tuber of *N. rubra*, *N. devoniensis*, *N. dentata* or any of the night-flowering hybrids which have lately been sent out, put it in a five-inch pot and cover

it over with about an inch of soil, then another slight covering of sand; sink about six inches below the surface of the water and the chances will be that six or eight stolons will be put off, all of which will make good-sized plants. They should be detached from the tuber only after they have made roots of their own.

*N. dentata* is white, *N. rubra* and *N. devoniensis* are reddish pink. They are the best of the night-blooming section for garden purposes the hybrid being, as a rule, shy bloomers compared to the above.

Among the day blooming section the *Zanzibaricus*, consisting of the true dark purple *N. zanzibaricus*, the lighter colored *N. Z. aurea*, and the white *N. candida* are the flowers *N. Z. rosea*, are very easily man-

aged. Seeds of any of the above sown now will flower before the end of May. The South Australian *N. gigantea* produces an ideal flower, but it has the reputation of being difficult to manage. I have had much trouble in growing it, provided that the plants do not receive a check by being transplanted suddenly. I have had some that of a much lower temperature. *N. gracilis* is white, but if grown in company with *N. devoniensis* and *N. rubra* will have medium-sized yellow flowers; both are hardy in this latitude. *N. mexicana* being by far the best of the day blooming.

G. W. OLIVER.

PINTS 25 CENTS; QUARTS 40 CENTS; 5 GALLON 75 CENTS; GALLON \$1.25; 1/2 GALLON 55 CENTS; 10-GALLON \$10.00.

**LEMON OIL INSECTICIDE.**  
 Soluble in Water.  
 Destroyer Scale, Mealy Bug, Red Spider, Thrips,  
 Mildew, Black and Green Fly.  
 1/2 pint, 25c; pint, 40c; quart, 75c; 1/2 gal., \$1.25; gal.,  
 \$2.00; 2 gal., \$3.00; 3 gal., \$4.00.  
 Sold by dealers or sent on receipt of price.  
**CHAS. C. GARRETT & CO.,** Manfrs, Agents,  
 713 GAY ST., BALTIMORE, MD.

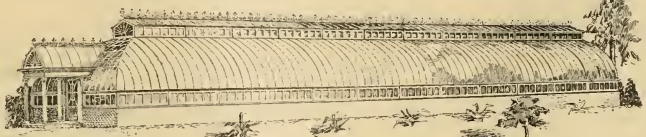
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**FOR SALE.**  
**Forcing Sash.**

Through a factory mistake, we have on hand 76 sash, 10 x 14, 20 lbs. The outside dimensions on these are 2-9/2 x 8-3, sash 1 1/2 inches thick. We offer these glazed at \$1.25 each, f. o. b. cars at Lynn, which is half cost, cash with order.

**THE BROCKWAY-SMITH CORPORATION,**  
 Manufacturers of all kinds of Sashes,  
**LYNN, MASS.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Designed - Constructed - Heated**  
**FOR THE HUDSON RIVER STATE HOSPITAL**



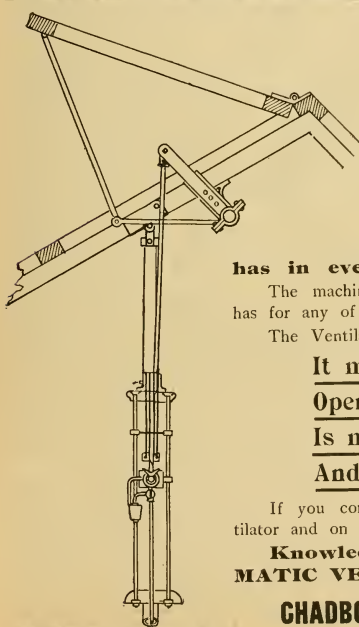
BY THE  
**MITCHELL HEATER CO., - Poughkeepsie, N. Y.**

Commercial Houses given particular attention. Valves, Fittings, Iron Frames. Hot Water and Steam Heating.  
 Mention paper. Write for Catalogues and Estimates.

**GLASS** FOR GREENHOUSES, CONSERVATORIES, GRAPERIES, HOTBEDS AND FLORISTS' USE GENERALLY, AT LOWEST RATES.  
**L. HARRIS & SON.**  
 497 W. BROADWAY, NEW YORK, 89 LIBERTY ST., NEW YORK  
 (Int. Lines and Blocker Bldg.)  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**ALL SIZES GREENHOUSE GLASS.**  
 The Wood Glass Co.  
 226 N. Salina St.  
 Syracuse, N. Y.

SEND FOR OUR NEW CATALOGUE, WHICH SHOWS  
**The New Automatic Cable Ventilator**  
 As it is put up in the house complete. We also give you prices with a guarantee that each machine sent out will operate successfully. 500 machines now made in two sizes.  
**A. Q. WOLF & BRO.,** Dayton, Ohio.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE



“IT gives me great pleasure to say the Automatic Ventilators you put in for me three years ago have given entire satisfaction, and are admirably adapted to greenhouse ventilation, etc.” Thus wrote Mr. W. H. Elliott, of Brighton, Mass., a very successful and prominent grower, on January 23d last.  
**It also gives us great pleasure to say that the**

**...Ventilator...**

- has in every instance verified Mr. ELLIOTT'S statement.**  
 The machine is no respecter of persons, and will operate as well for you as it has for any of the many florists who are using it.  
 The Ventilator has many especial features, among which may be mentioned:
- It maintains an even temperature.
  - Opens and closes the sash alone and unaided.
  - Is more sensitive than your thermometer.
  - And is absolutely reliable.

If you contemplate building, or making any change, get our prices on the Ventilator and on shafting.  
**Knowledge is useful—learn more of CHADBORN'S AUTOMATIC VENTILATOR and be benefited.** Ask for Circular.  
**CHADBORN, KENNEDY & CO.,** Sole Manufacturers, **NEWBURGH, N. Y.**

# Readers' News on the New tariff.

I am opposed to a tariff on anything that is being sent to us from this country.—M. B. BOGAN, Philadelphia.

On looking over your valuable paper we see you would like to have your subscribers give their views in regard to that thing called a tariff. We will say we are in favor of tariff legislation of an extreme nature, such as is now pending in the House of Representatives, on the reasonable terms on all seeds and bulbs, the latter especially. Our motto is "a tariff for revenue only."—SEMMLER BROS. Higginsville, Mo.

I am in favor of free trade in everything; but if there is to be a tariff, I am for a tariff on roses, geraniums and carnations.

In seeds I would certainly insist on a higher tariff on all luxuries, flower seeds, bulbs, etc., than I would on what would approach the necessities, i. e., vegetable and fruit seeds.

As an opponent to present free distribution of seeds, but think a moderate appropriation to disseminate new and desirable fruits, plants and seeds, as originally intended would work much benefit. A. W. SMITH, Americus, Ga.

I have before me a copy of the Tariff bill, as I believe it was presented on the 15th of last month. It represents as it is and find that, as in former ones, live flowers have been omitted. For the sake of protecting the grower, it is to be hoped that if we tried to get a special clause in said bill to read: "Live flowers and fronds of ferns excepted from the general tariff schedule." This would at once stop the shipping of flowers by our near neighbors, who flood our country with them from a time when they do meet harm. Now is the time to move, and we must act quickly, otherwise our growers will be ruined as in the case of once more. A. HULSEBOSCH.

Regarding the question of tariff on various plants and bulbs, I cannot see how it is going to be any benefit, excepting to a few small growers who are certainly at a disadvantage. He will have to charge more for what he sells, and as business is not so good and not so certain, he will be at a disadvantage. Then, if the tariff is a protective one, and keeps foreign goods out, it will help the revenue. It seems to me that what is wanted is reasonable prices, that will give a fair profit to the grower and fair wages to the laborer, and I think we can secure that without fencing ourselves in with a protective tariff.—D. O'LEARY.

To my mind the putting a tariff on florists' materials is no protection to the florist as long as money is scarce. If money were plentiful so that the demand would be met, we would not care to pay the duty; or, if we could make foreign pay all the importing and sell us at the same price, after they have paid the duty, that they would charge without duty, we would be safe enough; but that would not be the way in which it settles itself. I for one would kick. I suppose it is well enough to have protection, but it is not the way to get it, unless it upon some one who knows no better, but in this case we know better.

of late years no money in growing and sending to the United States, and squelched, and that, through there being little probability of the Dutch growers, and the bulbs they have to grow, they try to make private sales, rushing, as they do now, the sending of very heavy consignment of bulbs to the United States, to pay 30 per cent. of their value to Uncle Sam before exposing their goods for sale. It is not only the growers, but the buyers so big to many a grower, is what causes more bulbs to be grown than will pay a reasonable price when the flowers are ready for the market.—EDGAR SANDERS.

The condition of the United States Government, now needing revenues, a moderate duty imposed on the florists' planting stock imported from the Netherlands may be called luxuries, might be thought reasonable. A rate like 30 per cent. seems severe on a tax, however, and would undoubtedly produce an unfavorable result ultimately.

We usually see attempts made, even by so-called small florists, and often with a good measure of success, at growing from seed their own palm stock in certain kinds. In classes thus adaptable I would favor the higher duty as tending to have produced in the United States a stock of plants as valuable as that of the Netherlands, as well as justified by the importance of the growing part of the business.

Regarding the question of duty or no duty on articles of florists' stock, as to see why the live bulbs, bulbous roots are for forcing plants for forcing into flower, it is a protective duty. What we do not produce thus far in this line, we are not yet ready to grow, and the duty will continue to import the same. Whether it be good policy to tax these items is a question that is not for the florists and dealers will bring out stocks with more moderation, when thirty cents cash per bulb is put on them, than they would before the goods can be touched. Such moderation would work to the advantage of the florists, and the growers of bulbs, and would pay no more for the flowers, duty or no duty; supply and demand will regulate the prices as in the past.—WINFRED ROLKER, of August Roler & Sons, New York.

I am for a tariff from A to Z on horticultural products. In many lines the producer is compelled to sell below the cost of production, because of the influx of foreign goods. In such cases the tariff reveals there is no need of worrying about what the consumer will say because of inflated prices, and illustrates every hyacinth or tulip that is put upon the market, when forced, takes the place of a certain number of such similar and American production. The hyacinth bulb takes the money out of the country, while the price of everything else in the market keeps it at home. The same argument is true of azaleas, and roses (which are imported in such quantities as to swamp the market), and other horticultural importations. When a man swaps a hundred dollars worth of roses, and receives \$50 in return, he has lost half the value of the market, and a nation that trades the best market in the world for a few dollars worth of roses from Africa and blue jeans in India can be placed in the same category.

In your issue of the 26th you invite an expression of the growers' views as to be of all interested. We are in favor of specie duties on stocks, seedlings and plants, but not on the bulbs. We are members of the American Association of Nurserymen and an ad valorem of not less than 30 per cent. on everything else. The florist and florist line that can be produced to advantage in this country. But think no duty on anything else. The Dutch and Holland bulbs should be admitted duty free.

The trend of the article signed "A Republican" suggests that he is one of the florists more largely interested in importing Dutch bulbs, and that there is no justice in favoring the importer and ex-

board florist to the great injury of the growers of the whole country, as was done in the McKinley bill, which imposed a duty of 20 per cent. on Manetti and other roses, and allowed a 10 per cent. duty ready for immediate use to be entered free. THE STOCK AND SEED CO., Philadelphia, Pa.

As you are asking for opinions on the proposed changes in the tariff on plants, bulbs, etc., please put up with the following, and send them to the proposed change.

I see that on bulbs and roots of all kinds we will have to pay a duty of 30 per cent. ad valorem. Who is the proposed duty supposed to be levied on? If it is levied on the Dutch bulbs or lily of the valley grown to any extent in this country, so there is no grower or growers to protect.

To increase the duty, I believe, will curtail the importation, as at the prevailing low prices for all cut blooms of both Dutch bulbs and valley it will be impossible for an importer and forer to make a living profit on the same.

Germany is the recognized valley-growing country, and she has had a favorable climate, the soil and the cheap labor, and, no matter what duty our legislators may put on the bulbs, she will have secured will never succeed in inducing our home growers to grow them in quantities, and, as far as the Dutch and French bulbs, I strongly advocate no duty on plants, but, as ERNEST G. AMBUS, West Hoboken, N. J.

Obident to your call for a discussion on the tariff question, outsiders sometimes see much clearer ahead of us than we do. It is not a question of self-interest supercede all else beneficiary to a healthy trade.

As to the argument that any kind should share an equal division, between merchant and consumer; in these lines the consumer is the user, and can be secured for the Government.

Legislation that, for instance, only favored the grower, and not the user, any plant stock for ultimate family or commercial use, is sure to burden the merchant and the consumer, and, as a tax, it falls heaviest on the latter in all events.

Let us calm ourselves on all concerned too limited extent will prove healthiest to the trade, which scarcely can be obliterated by a tariff.

The tariff schedule of 1890, the first protective tariff ever put in operation in the United States, was the result of a tariff at this stage, be satisfactory to all concerned, the Government intimated. Let calm ourselves on all concerned too prevail on this, to the trade an all important question, and in view of what has been said of the Government by the seed trade about limiting the use and abolishing the abuse of the free seed distribution, and the same result can be reached the same source. The seed trade has not reached its limit by any means; there is still much to be done on the part of the grower. Good quality of seeds will always find ready purchasers willing to pay good prices for them, and the seed trade will flourish. With it alone prosperity will follow a wise legislation.

### LET US CALM OURSELVES OLD SEED MERCHANT.

The tariff question came to a point in the United States when it was proposed to put a human wisdom to frame a tariff that will not pick somebody's pocket. When pocket-picking is legalized, we have no tariff, but making it legal does not make it morally right. If a man is an American seller he should not be allowed to import goods if he does not want it, and he comes to surely know that any government or set of men who will not protect the rights of the natural-born privilege of investing his own legitimate earnings where he can get the most for the money, and then to force to a lye (we call it a tariff) for so doing, are acting in restraint of trade and placing themselves in the hands of parties who respect no respect for the interest of the buyer. It requires but a small amount of money to buy a few bushels of wheat, but the buyer is not taken care of the seller will have to go out of business.

Oh, how we are to be wrong, and there is no right to be, put a tariff on it. It is the same thing, but it is making him the people to pay this tariff, and the same salary of all the government officials who are making him the people to pay this tariff, and the same income tax over and above the tariff, and the same income tax over and over, and we will have revenue enough.

So long as practical people will submit to the dictation of craft politicians and ambitious lawyers, backed by speculating speculators, matters can never mend. We will build our country up on a practical men, with ability enough to make money, and not enough to do anything, instead of moving on a speculative basis, would have to move on a practical basis. It is not a question of stability would be the inevitable result.

Now that everything is cheap government officials are so high that they are half and get down in line with the people, and there would be no deficits. What better for the price of seeds so high that many farmers will be encouraged into growing them. Why should we send abroad for seeds that can be grown just as well here? Witness the yearly spectacle of the seedmen of America watching with interest the seed crop of Europe, while our own farmers and growers cannot compete with the foreign labor. And, again, how the seed of the price of seeds so high that they are hoodooed and wheedled by "crop permitting" clauses in their contracts, which simply allow the grower to buy the seed in his own house had the trade of this country too much in their own hands.

As far as the Dutch and French grower of this country cannot, dare not risk his time and labor against the cheap price of the Dutch and French seed, and section against that labor just as much (and more) than that labor was transferred to our own soil, and our criminal labor is the same as the Dutch free labor.

Second—By increasing the tariff on the florists' goods that are imported from Germany, and stimulating trade in general, our growth of the world for the florist's growth with cheap bulbs from Holland. When they get the Dutch and French grower of this country cannot, dare not risk his time and labor against the cheap price of the Dutch and French seed, and section against that labor just as much (and more) than that labor was transferred to our own soil, and our criminal labor is the same as the Dutch free labor.

### VERITAS.

It is generally known that certain seeds can only be grown in the Netherlands, and in Jefferson County. It was found by experience that these grow out of the territory deserts, and that the seeds are not so well, therefore undesirable for seed purposes. When the pea-growing interest were first started here, we had no difficulty in placing all the seed stock necessary; but as farmers became better acquainted with their crops and the effects on the soil, they began to fight shy of planting peas, until at last the competition became so great that the matter up in their meetings and discussed the question thoroughly. The farmers insisted that they could not grow any more fancy peas for seed houses. The reason therefore for the seed trade in the pea-growing territory was left the ground to nature a crop of weeds before frost set in. These weeds were left to grow in the meadows, and in place of Jefferson County has bringing the highest price in the New York market. It is for the grower to grow the lowest. Therefore, the fancy peas were doomed. In consequence of this state of affairs, we are largely dependent on prices that compelled us to grow elsewhere; it was simply because of the condition in the Netherlands.

Now, here is where the interesting part comes in. We are informed that the strange thing is that the farmers are not going into the hands of our Congressmen a massive "petition" demanding that a heavy tariff be put on the seeds of the peas, and do they seek to meddle with matters that do not interest them? If they will not grow peas, why do they want to pay a heavy 50-cent rate our Government will realize a very limited income, as the importation of the seeds will be a very small amount, and the duty remain as it is, and everybody will be better served. S. M. PRASE, State.

April 3, 1897

I have had over twelve years direct dealings with hundreds of florists in the United States; the first six years under protective tariff of 20 cent per lb, and since until this year, under our present tariff, which is mostly under a free tariff; and I think I know fairly well what the florist can do for himself, generally, as regards tariff matters.

Unhappily I declare that a protective tariff on our own goods has greatly benefited our growers and dealers.

We grow annually thirty acres of bulbs in the Netherlands, and have about 100 acres under cultivation, which shows that we intend to grow more, and still we have our goods sold at a price which is first, because American florists realized more for their cut flowers and plants of all kinds of goods than they could get at the time the country began to be flooded with all kinds of bulbs and roots, and consequently could not bid pay their bills more cheerfully; second, because it would prohibit consignments almost entirely, thereby preventing that class of goods coming into competition with a better and dearer article; third, because roses, palms, trees, and many vines are grown here, equally as good, if not better, than in Europe, but cannot yet be grown as cheaply, and consequently are more valued here, and are to go as more important. One has only to go to Baltimore and Washington to see the value of the rose and the geranium; every huckster has them by the hundreds grown in old gardens, which would be sold at a price which shows conclusively that narcissus can be grown here.

As to tulips, I do not doubt but they could be grown around here, and they need it deep soil and to be given proper treatment. I have seen right in Anconita, where the plots are the same as the good for the last ten years in the large, with foliage as healthy and blooms as large as those of the newly imported ones.

Most of the hills can certainly be grown here, and as to valley, well, America is a very satisfactory result. Try to give your children a chance to make a living by voting for the proposed new tariff enactment. ALBERT H. BENOLOTTI, of Huesebach Bros., Englewood, N. J.

I think there is already duty enough on palms, azaleas, etc., and which was not the case four years ago, if I remember rightly. What does this protective tariff? It makes the grower's dealer and lover of it. It is not those who deal large in palms who are affected. Oh, no. They will be the ones who suffer. The dealer, the so-called protector by taxing him heavier for it, made a trip last year to England for a trial order, and there places, in order to convince myself whether or not those "protective importers" themselves raise the stock. I am satisfied that what I saw was mostly all imported stock; and it will always be so, for you cannot afford to compete with the imported countries of Europe, such as Belgium, Germany, France, or, in fact, any of the countries of the North Sea, or the Mediterranean, or England; she cannot compete with the protected countries, neither can England compete as cheaply as she does. The labor is while the labor is about 35 cent higher in England. Last year I sent to England for a trial order, and a shipping cost. The result was that I did not dare to charge the price any more.

It is time ago I saw an article in the "Florists' Exchange" about "Protection on Seeds," that the Americans had a monopoly with the seeds of Europe, and some of the seed growers there eat their meals on mud floors. Now, I am Mr. Anderson, I have seen seed establishments there, which would put some gentlemen to shame, and I am as small as you are, and I can do any paper labor, and I can do any other any by it, while everything is cheaper than in England, meat, when compared with prices in America.

I am a believer in protection, but it is not the right thing. If you would try to shut out the outside world what would America do with her immense surplus of much money to hand? Would she live? I believe in the motto, "Live and let live," and one hand has to wash the other. If you would try to shut out the world, I will tickle you and you will tickle me. Therefore, gentlemen, go slow as far as seeds are concerned. This protective tariff was not got enacted on the protection principle, but on a gold platform; and the protection principle is not the right thing. I lived will be its regime. Now, a few views in regard to protected American labor, which you can do any paper labor, and I can do any other any by it, while everything is cheaper than in England, meat, when compared with prices in America.

with you. Besides, we have not enough skilled labor in this country. The best workmen will not come here, as they are not so well paid as in their native country, into consideration. Although there are in America plenty of unemployed, 90 per cent of them are not so well paid as in their native country.

Then, again, the climate is against us, and that which we cannot import.

W. BOCK, North Cambridge, Mass.

I have read with pleasure your invitation to those interested to express their opinion of the tariff bill as passed by the lower House, as far as the same has a bearing on the florists' business. I have interviewed many in the trade on the important question. Opinions seem to be much divided, and an airing of the different views through the columns of your valuable medium, "The Florists' Exchange," may enable one to learn the consensus of opinion.

The question must be considered from different standpoints. It is necessary to consider that taxes are at all times a burden to those taxed. They may be levied upon the consumer, or upon the producer, or upon the expenses of the government; they may also be levied to protect the capitalist against the laborer.

Inspecting paragraph 249 of the new tariff bill as passed by the House, I notice that it is levied from the florist's pocket. I have interviewed many in the trade on the important question. Opinions seem to be much divided, and an airing of the different views through the columns of your valuable medium, "The Florists' Exchange," may enable one to learn the consensus of opinion.

According to my observation and experience as one connected with the trade, it may be supposed as a fair average that 65 per cent of the nurserymen and florists in this country are engaged in it, living and meet their legal obligations. Many are engaged in other trades, and duties on their import orders, to say nothing of the cost of the goods bought; that is a question which the florist must relate, consideration. How will they manage when the duties are increased from 20 to 30 per cent? Will they be able to carry or the American importer going to carry his entire account duty, freight and shipping charges, and the cost of the goods or even longer? I am inclined to think that the imposition of these high duties on the florist's business, and the man of means will have his houses stocked with imported azaleas, palms, etc., while the florist will be without these necessities for his Christmas or Easter trade. Hereafter, he could not afford to import from Europe, and for that granted that he understood his calling; hereafter he may buy from his neighbor, and pay him his price. The Government must be supported, and I would advocate a tariff sufficiently high to meet the necessities of the florist's business, and industries. I am opposed to prohibitive and excessive duties.

It is time ago I saw an article in the "Florists' Exchange" about "Protection on Seeds," that the Americans had a monopoly with the seeds of Europe, and some of the seed growers there eat their meals on mud floors. Now, I am Mr. Anderson, I have seen seed establishments there, which would put some gentlemen to shame, and I am as small as you are, and I can do any paper labor, and I can do any other any by it, while everything is cheaper than in England, meat, when compared with prices in America.

The practical workings of the new tariff act as now proposed by Congress will, if enacted into a law, be very new. Florist purchases one hundred dollars (\$100) worth of goods from the grower or plants for forcing. Most of this stock suitable for forcing purposes is imported. He pays the grower, or dealer, in Europe, or in other words, his \$100 worth of raw material costs him \$150, first cost. The florist pays the grower \$100, and in these times of depression to encourage extravagant disbursements for pensions, and other things, and the florist's business of lavish expenditure, at a time when the whole business and industrial world is in a depression, and the florist's economic in the matter of expenses. Who, therefore, in the trade, or, indeed, in the florist's business, is to be benefited by this extra 50?

Will either the nurserymen or the florist get any more for the finished product

when ready for the market? Who will pay more for flowers, or fruits, or trees, or shrubs, because the first cost of the raw material is increased 50 per cent? Our high protective tariff friends answer, The benefit of protection will counterbalance all that is lost, by shutting out foreign products and the supply of raw material will lessen the general supply, so that the markets, while not being extended, will be more profitable for "home producers."

Stripped of theory and imagination, let us see what the practical facts show us on this view. According to the official reports, the importations of all plant and nursery material in the year 1895, for example, were \$1,000,000 value; less exports, \$132,000, gives a net balance of imports over exports of \$868,000. This amount is shared out by nurserymen and florists in the United States. This amount in excess of imported material and nursery material is, therefore, equivalent on the average to \$86.70 of yearly business for each one engaged in the industry.

Assuming that a Chinese wall of seclusion and exclusion, or its equivalent, an excessive protective duty sufficient to exclude all importations, should exist exclusively to the trade in this country, the florist would receive 100 per cent of his business from importations, each one engaged in the industry would receive 100 per cent of his \$100 worth of business for the year, excluding entirely any consideration for material imported.

Under this average or aggregate amount of foreign business is responsible for the production and amount of the florist's business. The florist's business would be increased when the cost of material is made greater, and a policy adopted that will result in the production of business that is increased, is an interesting problem.

FREDERICK W. KESELEY, March 28, 1897.

SEEDSMEN AND THE TARIFF.

Editor Florists' Exchange: I am glad to see that you are the first to raise the question of the tariff on the florist's business. I am not a producer or dealer in seeds, but a large purchaser, and I make a living out of the soil-seed grower, farmer, wage-earner and every one interested in the production of business. I am a B. J. as you interested, is one of the pool to me. It seems common sense that if we produce the largest part of our seeds here we can and are, every one is in better shape to supply labor than we are in all other countries. We can do so cheaper. I make no claim of being willing or able to pay my employees more than I have always employed native, and never cheap foreign labor. My principle of production also, extends to all who help me, and extends to all who are interested in the general production of business. I am a B. J. as you interested, is one of the pool to me. It seems common sense that if we produce the largest part of our seeds here we can and are, every one is in better shape to supply labor than we are in all other countries. We can do so cheaper. I make no claim of being willing or able to pay my employees more than I have always employed native, and never cheap foreign labor. My principle of production also, extends to all who help me, and extends to all who are interested in the general production of business. I am a B. J. as you interested, is one of the pool to me.

One man can fix the price of his goods, but such demands are not met. The grower and man will do it, but I have no demand for our seeds and other products because they will not apply to us, as a nation, as there will be no demand for American labor in Europe to that of this country, or level our trade to theirs, they will be paid labor. It is a matter of the after-paid labor that makes the country the best on earth—not only for the laboring man, but for all who are interested in the production of business. This talk of high tariff supporting monopolies, etc., seems to me a nonsense. I am a B. J. as you interested, is one of the pool to me. It seems common sense that if we produce the largest part of our seeds here we can and are, every one is in better shape to supply labor than we are in all other countries. We can do so cheaper. I make no claim of being willing or able to pay my employees more than I have always employed native, and never cheap foreign labor. My principle of production also, extends to all who help me, and extends to all who are interested in the general production of business. I am a B. J. as you interested, is one of the pool to me.

And why is this? Simply because the

seed dealer can buy his seed for a mere song in Europe. Ask these farmers and their employees if they prefer cheap seeds, or if they prefer a moderate price. They are now compelled to raise potatoes or other products at a loss. I am an American, and with all of America's faults and mistakes in government, I still believe we have the best country on God's earth. If I did not think so, I certainly would try and get to be better one, and I am not in favor of any law to prevent just the same. I am a B. J. as you interested, is one of the pool to me. It seems common sense that if we produce the largest part of our seeds here we can and are, every one is in better shape to supply labor than we are in all other countries. We can do so cheaper. I make no claim of being willing or able to pay my employees more than I have always employed native, and never cheap foreign labor. My principle of production also, extends to all who help me, and extends to all who are interested in the general production of business. I am a B. J. as you interested, is one of the pool to me.

More About the Seed Tariff.

Editor Florists' Exchange: We each almost every day by our own bootstraps. If the price of seeds advances because of the tariff, the growers who buy seeds just the same as I do, will be treading the oldest sort of straw to go over this subject. I only want to call attention to the fact that the florist's business is increased when the cost of material is made greater, and a policy adopted that will result in the production of business that is increased, is an interesting problem.

Hydrocyanic Acid Gas.

The experiments with hydrocyanic acid gas for the extermination of aphids on violets, just published in the "Florists' Exchange," Woods, describing in your issue of Feb. 13, is very interesting reading. It suggests the use of this gas for the extermination of the pest on roses with this insecticide by Mr. Woods or others than myself. I am a B. J. as you interested, is one of the pool to me. It seems common sense that if we produce the largest part of our seeds here we can and are, every one is in better shape to supply labor than we are in all other countries. We can do so cheaper. I make no claim of being willing or able to pay my employees more than I have always employed native, and never cheap foreign labor. My principle of production also, extends to all who help me, and extends to all who are interested in the general production of business. I am a B. J. as you interested, is one of the pool to me.

Editor Florists' Exchange:

The operation and results were published in the "Florists' Exchange," Woods, describing in your issue of Feb. 13, is very interesting reading. It suggests the use of this gas for the extermination of the pest on roses with this insecticide by Mr. Woods or others than myself. I am a B. J. as you interested, is one of the pool to me. It seems common sense that if we produce the largest part of our seeds here we can and are, every one is in better shape to supply labor than we are in all other countries. We can do so cheaper. I make no claim of being willing or able to pay my employees more than I have always employed native, and never cheap foreign labor. My principle of production also, extends to all who help me, and extends to all who are interested in the general production of business. I am a B. J. as you interested, is one of the pool to me.

As far as my results were concerned, the same could readily kill the aphids without injuring the delicate young rose shoots. A. J. PENNOCK.

FRAMING.

The Cold Frame.

The cold frame, when used in its proper season... To prevent and avoid the constitution of the young plants no great changes in temperature should take place...

To prevent and avoid the constitution of the young plants no great changes in temperature should take place... The plants may be watered in the morning with all the water possible to good day; this may suddenly be reversed, necessitating the closing of the frame...

On bright days if airing is not attended to... The only rust proofing commercial carnation up to date...

TRY IT! Rooted Cuttings, \$1.50 per dozen; \$10 per 100... JAHN BROS., New Bedford, Mass.

LOOK HERE. Carnation Cuttings. From healthy and well-grown stock.

JAMES E. BRACH, Successor to J. H. Beach & Son, 617 Park Ave., Bridgeport, Conn.

are allowed to attain a good size and large stem before cutting back, very little check results.

The side shoots make their appearance much quicker and are larger and stronger in every way. This difference is often noticeable throughout the whole season of their usefulness.

I might add that these twelve plants were put in a row to plant in the field, the interval from the taking of the cuttings until planted in the field suffer from a lack of light and air.

Young plants need rich soil, and no bad effects will come of it use if watering and ventilation are properly attended to.

THE FLORISTS' EXCHANGE. THE ONLY RUST PROOFING COMMERCIAL CARNATION UP TO DATE.

TRY IT! Rooted Cuttings, \$1.50 per dozen; \$10 per 100. JAHN BROS., New Bedford, Mass.

LOOK HERE. Carnation Cuttings. From healthy and well-grown stock. Wm. Scott, C. A. Dana, Mrs. Geo. M. Bradt, white, striped scarlet, C. A. Dana, shell pink, C. A. Dana, salmon pink, Mayor Pingree, yellow, Morelo, scarlet, Mrs. Ben Fisher, white, Lily Dean, white, striped pink, Harrison's White, white.

NEW YELLOW CARNATION



BESTOER BROS., Canal Dover, O. Mr. FRED. BREITMEYER, MT. CLEMENS, MICH.

Dear Sir:—Regarding the Mayor Pingree Carnation, I have traveled extensively the few years past and have viewed nearly all the new varieties introduced in their original habitat, but none have pleased me so well as M. P. as to growth, freedom of bloom, in fact nearly every essential factor that goes towards making the perfect carnation.

Any one who does not secure some plants of it will make a mistake, doubly so to those who are in the fascinating part of plant breeding.

Ready Now. \$1.50 Per Doz.; \$10 Per 100. FOR SALE BY—JOHN BREITMEYER & SONS, THE COTTAGE GARDENS, QUEENS, L. I.

THE CORNELL UNIVERSITY, College of Agriculture, L. H. BAILEY, Prof. of Horticulture, ITHACA, N. Y.

Mr. FRED. BREITMEYER, DETROIT, MICH.

My Dear Sir:—I am greatly obliged for the photograph of the Carnations, which is very good. We are growing a picked lot of Carnations this year and we have a pretty good show considering that this is one of the dullest climates in the North.

Yours very truly, L. H. BAILEY, \$75 PER 100.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE. THE ONLY RUST PROOFING COMMERCIAL CARNATION UP TO DATE.

THE FLORISTS' EXCHANGE. THE ONLY RUST PROOFING COMMERCIAL CARNATION UP TO DATE.

Novelties of Malmaison Carnation. Set colors, 2 to 4 inches across, very fragrant, 200 plants per 100.

CARNATION AND COLEUS CUTTINGS. Strong, well-rooted cuttings of the following varieties, free from rust, etc.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE. THE ONLY RUST PROOFING COMMERCIAL CARNATION UP TO DATE.

YOU RUN NO RISK. If the Cuttings are not satisfactory, you return them at my expense.

Pansies, Smilax, Violets. ALBERT M. HERR, L. B. 496, Lancaster, Pa.

ALBERT KNAPPER, Frankford, Phila. ROTATED CUTTINGS. CARNATIONS.

Mrs. Geo. M. Bradt (Dorner) \$90. \$1.00 per doz.; \$10 per 100; \$75 per 1000. Lily Dean (May), Maud Dean (May). \$2.00 per doz.; \$10 per 100; \$75 per 1000.

Every Tom, Dick and Harry raises red, white and pink Carnations; consequently you will meet with much competition if you do the same.

They are Money Makers. Mienie Cook, \$3.00 Rooted Cuttings. Kitty Colver, \$3.00 per 100. Princess Honnie, rooted cuttings \$5.00 per 100; \$40.00 per 1000.

GRAILLER & CO., COLMAN, SAN MATEO CO., CAL. NO RUST. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

NEW... JUBILEE CARNATION IT IS A WINNER! YOU WILL GET LEFT WITHOUT IT.

Table listing various carnation varieties and their prices per 100 and per 1000. Includes varieties like Jubilee, Mrs. Geo. M. Bradt, Major Fiegler, Della Fox, Ivory, Triumph, Armadillo, Emma Woher, Rosa Queen, etc.

Terms, Cash with Order. Send for Wholesale List. Address: H. W. BUCKBEE, FOREST CITY GREENHOUSES, ROCKFORD, ILL.

Carnations and Chrysanthemums. ROOTED CUTTINGS. 95,000 READY NOW.

Why not get the best from sound healthy stock, rooted without bottom heat. CARNATIONS.

Table listing carnation varieties and their prices. Includes varieties like Anon Webb, Helen Keller, Hylara, Albertini, Cardigan, Van Leuven, Ophelia, McGowan, etc.

CHRYSANTHEMUMS.

44 varieties, including Mrs. Perlin, Wm. Simpson, Pink Ivory, Liberty, Rieman, and the best of standard varieties at moderate prices. Cash with order.

JOHN HAGKETT & CO., 62d St., near Elmwood Ave., PHILA.

Special Cultural Certificate

Received from the American Institute Farmers' Club, at Exhibition in New York, March 7th, 1897, for Twenty-Five Blooms of

BATH'S CARNATIONS.

DEAR SIR:- We have been receiving your new carnation, Minnie Cook, from your representative, Mr. Bradshaw, 68 W. 60th St., N. Y. City. I consider Minnie Cook a valuable acquisition to our collection of carnations; a fine large flower, beautifully striped, strong grower with excellent keeping qualities. Our customers give it the preference wherever a light shade is desired. Very truly,

Meadow View Greenhouses, Parsippany, N. J.

BATH'S CARNATIONS

The following selection of Winter Flowering Carnations contains all the newest and most profitable market varieties yet introduced, they are all exceptionally vigorous, the flowers are large, with perfect calyx, and most profuse bloomers.

Table listing various carnation varieties and their prices. Includes varieties like CANARY BIRD, DUKE OF YORK, HENRY GIBBONS, LEONIDAS, WILLIAM ROBINSON, etc.

Cash with Order, or Satisfactory Reference. My collection of carnations for growing in the open field is one of the finest to Europe. Full catalogue post free on application.

R. H. BATH THE FLORAL FARMS, WSBECH, ENG.

SEELING GARNATIONS for 1897.

CAPT. KING. Variegated White and Pink, an early and continuous bloomer, very fragrant and a good shipper, stems extra long and stiff, so exceedingly attractive and profitable variety. JOSEPH JEFFERSON. Deep Pink, very large and showy flowers, on long, stiff stems, color resembling Pink Carriage, such large flowers...

PROFITABLE CARNATIONS

Are the ones you want to grow this year. The time is too hard for you to grow poor stock. Carnations have been greatly improved during the past few years. We have as good as can be produced up to date, our stocks well rooted, very many of them transplanted into soil and well established, but we have not raised our price for this. Send us your orders, and we feel sure you will be satisfied. Special prices on large lots.

Table listing carnation varieties and their prices. Includes varieties like Moralo, Flora Hill, Mrs. McBurney, Harrison's White, Major Fiegler, Mrs. Bradt, C. A. Dana, My Den, Maud Dean, etc.

CEC. HANCOCK & SON, - Grand Haven, Mich.

NOVELTIES.

Table listing novelty carnation varieties and their prices. Includes varieties like Asparagus Sprenger, Fuchsia Triphaia hybrida, Dracena Sanderiana, Eudorica Golden Gate, Crimson Spiraea Anthony Waterer, etc.

CARNATIONS.

All the Novelties of the season, at ruling prices, from 2 1/2 inch pots.

Standard Varieties-Portia, Cardigan, Corsair, Wm. Scott, Ophelia, Lizzie McGowan, Minnie Cook, Little Gem, Storm King, Eklorado, Alaska, Daisy, etc., from soil \$2.00 per hundred.

CASSETHEMMS.

Table listing Cassette varieties and their prices. Includes varieties like YELLOW, WHITE, PINK, CRIMSON, W. H. Lincoln, Philadelphia, Yellow Hair, etc.

Table listing various carnation varieties and their prices. Includes varieties like Camas, Clematis, Abutilon Souv. de Rom, Cyperus alternifolius, Acorus gramineus, Apple Geraniums, Lychitis Viscaria, Nepeta glaucosa variegata, Othobna crossifolia, Othobeta Orange, Violets, Clematis (damask) strong, Daisy Snow Crest, Snowflake, Plumbago, etc.

C. EISELE, 11th and Jefferson Sts., PHILA., Pa. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Carnation Culture.**

Abstract of paper read by N. D. Pierce, Jr. before the Carnation Florists' Club, of Rhode Island.

I have by no means reached perfection in the management of my carnation plants. It appears to me that the weak point in our procedure in the lifting of the plants from the open ground in the fall, first by using dry manure to cover them transferred to our benches with but little loss, and in a short time they recover and bloom abundantly. But there is no denying the fact this operation is a pretty severe one to the plant, and from what I take notice of the plants are weak. The working roots are severed from the plants, and these must be renewed before the plant can go forward. As the lifted with balls but few of the working roots are secured, for they will be found several inches below the surface. As long as we plant our carnations in the field they will be subject to this serious drawback. The question is how shall the matter be remedied? We have heretofore tried to be very practical, perhaps severely so, and we hesitate to enter the botanical field. Our only plan is that some one among us may be induced to make the necessary experiments in this direction. Some attempts have already been made to solve the problem by planting the young plants directly in the field in the early spring. It seems to me this plan has many objections, not the least of which is that the bushes are not so far from the protection until the middle or latter part of summer. In the meantime something must be done with the young plants.

The plants in the field will need pretty close attention. We never deemed it wise, however, to harvest the plants any more than enough to keep down the weeds. This done the ground will have striding enough, and we the scuffle on the first two or three times, which cuts out the weeds very effectually. Of course great care must be used in cutting carnations. It is cut also if the best not to hoe too close to them at first, for if much disturbed they are likely to wilt, particularly in dry times. When plants grow longer and get a good hold of the ground we use the harrow teeth and hoe deeper and closer to them. This improves the opportunity of a dry time to kill weeds. They will usually not require more than one or two cuttings between the rows, and this is avoided when they are planted to work both ways.

**Toppling** will require a good deal of time and attention. During the first part of the morning or on a cloudy day the tops can be snapped off, but when the plants are tough from the sun and a sharp knife will have to be used. Some growers trim very close to the ground, others merely nip off the ends of the flower shoots. We prefer to trim most kinds pretty close. As the shoots grow they are again pinched back several times, varying according to the size of the plants and the largeness of the season. The idea is to have your bushy plants in the fall and to flower about as possible. The time to stop cutting back will depend on the variety, and at what time the plants are in bloom. No general rule can be laid down.

**Cuttings.** Carnation is half done. I was taught while going to school. Unless my ideas are all away this applies to the propagation of carnation cuttings, and I am sure of it, unless. One would not think of breeding from a deformed or sickly horse or cow, much less should we think of propagating from a deformed or sickly carnation plant, for, in the first case, we can have one healthy parent if we wish, and yet we cannot make the attempt. In the carnation case there is only one parent to work from, and if that parent is not in the best of health and vigor how can we expect the progeny to be healthy? Never put an apprentice to pulling cuttings from men on the place, are none too good for this work, and should be instructed not to take any from a plant that shows the least sign of weakness or disease. There is a great deal more in careful selection than most of us are willing to acknowledge. If we follow it closely year after year we can improve, instead of ruin a variety, even if we are propagating from blooming plants.

In preparing my compost I use good garden loam, with as much pasture soil as I can get, sometimes more and sometimes less. I start with about one foot deep of the sod and loam, six of heap about 10x15 feet on ground, and when completed about 6 feet high. I then add, say, four to six inches deep all over this a layer of stable dressing, then another layer of the sod, and then bone and wood ashes, alternating first with bone and ashes. This I prepare in the fall when I can get it, but sometimes it goes over until spring, but when

it is left until spring it should be done as early as possible. In setting I have made a rule to leave all the plants in winter quarters by the first week in September. This I have followed for the past two years, and I have not had a plant that hereafter I shall be governed by the size of the plants. I think if the plants are left in the field when they are not proper size to lift until the last of September they will nearly, if not quite, double in size.

In the propagation and introduction of new varieties of carnations, it is very important to know how to select and make in the mud burry to get the variety on the market, or propagating from every plant that is good, whether it is weaker and healthy, or whether it is of a weaker constitution. I am of the belief that the only proper way to build up a new variety is not to let it flower. When it has matured its height, and as soon as the crown bud appears, nip it off and also any other buds that appear on the stem; this will start the shoots we wish to propagate quicker and they will have their full vitality. If any introducer of a new variety would be as careful as the writer, and, say, take one year longer in working up his stock, the craft would be greatly benefited. I believe in growing flowering plants in the matter of lifting cuttings. The seedlings I have shown this year have not any different treatment from those given to the other two groups.

There seems to be a very great difference in new varieties in the matter of lifting cuttings. For instance, when I saw No. 33, which is a large, light pink, about one or two shades lighter than Scott's Blue, I was very much pleased. When I planted the first year, while from No. 66, which is similar in color, I propagated about the hundred and twenty. No. 66, similar to Daybreak, produced about thirty, and No. 63, which is very much like Daybreak, produced about thirty. As a rule, the choicer the variety, the slower it is to produce flowering shoots, but that is no reason why so many of our best varieties are weakened and nearly ruined by the time the commercial grower gets them.

Some introducers as soon as they get plants enough of a new variety to fill a box and market, and if the year they are going to be sent out, grow for the cuttings only, and keep the temperature of the growing cuttings low, and thus thus giving us weak stock to start with, that is already in a condition to contract any disease that it comes in contact with.

At our last meeting of the American Carnation Society steps were taken in the right direction, and a committee appointed by our president to examine new varieties.

Mr. Charles H. Allen stated that the New York Florists' Club had adopted a plan of having a permanent local committee on awards, and he favored the adoption of a similar plan by the various florists' clubs in the country for the special purpose of examining new varieties of carnations and awarding certificates where such are deserved, and advised that the Executive Committee of the society request the florists' clubs to take action on this matter.

In closing this paper, a word of caution may not be out of place. It is a great mistake to think one must build an addition to his plant every year. There is such a thing as having too much glass. The grower will curb this disposition so prevalent among florists, and limit his glass area to what he can pay for and manage properly. A great many young men are rushing into all branches of the trade, and particularly the growing of carnations, they should know that there is nothing more than a fair amount of profit in it, and not that unless by industrious and constant application. He who starts to grow carnations with the expectation of getting suddenly rich or avoiding work will be sadly disappointed.

**Hard Times Are Going! Good Times Are Coming!**  
25,000 Sold. 25,000 Standing for Sale.  
Specially selected and raised by the  
Eldorado, Storm King, Tully, Lowman and  
Helen Keller Societies. By William Scott,  
Carnation Grower, 739 Bergen Ave., Jersey City,  
N. J. Carriage. Silver 100; \$100.00 per 1000.  
Gold 200; \$200.00 per 1000.  
And William F. Dreer, \$1.00 per 100; \$75.00 per 1000.  
25,000 Sold. 25,000 Standing for Sale.  
VIOLETS—California, 2-in. pots, \$1.75 per 100; 100  
1-in. pots, \$1.75 per 100; 100 per 100.  
COLUMBIA—Red and White, \$1.75 per 100; 100  
per 100 by mail.  
ALBANY—White Double, from 50c to 75c  
per 100 by mail.  
All orders in advance. Send by mail, add 10c. per  
100. When sent by express, all orders over \$500  
prepaid. You can get the best cash, C. O. D.  
good reference.

**E. J. CLOUD, P. O. Box 2, Atvondale, Pa.**  
WHEN WRITING MENTION THE FLORESTA'S EXCHANGE

**GARNATION ARMAZINDY**  
Grandest striped novelty, \$5.00 per 100; \$25.00 per 1000.  
Full line of Chrysantheums, Carnations and Gladioli. Lowest prices in the East.  
**T. H. SPAULDING, 40 E. 25th St., New York**  
WHEN WRITING MENTION THE FLORESTA'S EXCHANGE

**ROOTED GARNATION CUTTINGS.**  
**Scott and Parlia,**  
\$1.25 per 100; \$10.00 per 1000.  
**Daybreak,**  
\$1.50 per 100; \$12.50 per 1000.  
**Lizzie McGowan,**  
\$1.00 per 100; \$10.00 per 1000.  
**THE BOOL FLORAL CO., Ithaca, N. Y.**  
WHEN WRITING MENTION THE FLORESTA'S EXCHANGE

**50,000 CARNATIONS**  
**ROOTED CUTTINGS, FLAT GROWN.**  
L. McGowan, Eldorado, Wm. Scott, Parlia, Daybreak, Silver Spray, Alambak, J. H. Harrison, Fred Schneider, \$1.50 per 100; \$12.50 per 1000.  
**MARIE LOUISE,**  
10,000 Violent flat grown, \$1.50 per 100; \$12.50 per 1000. Cash with order.  
**HENRY A. NIEMEYER, Erie, Pa.**  
WHEN WRITING MENTION THE FLORESTA'S EXCHANGE

**FAMOUS CARNATION DELLA FX.**  
**MYERS & SAUMMAN, Wyndmoor, Chestnut Hill, Phila.**  
WHEN WRITING MENTION THE FLORESTA'S EXCHANGE

**THE CARNATION NOVELTIES, MAYOR DUNGEE AND MIRELO**  
Other new sorts, also noted introductions, and well-known standards.  
**Our Fine New Illustrated Catalogue Now Ready. FREE.**  
**DANIEL B. LONG,**  
Jobbing Florist and Growers' Agent, **BUFFALO N. Y.**  
WHEN WRITING MENTION THE FLORESTA'S EXCHANGE

**CHAS. W. REIFERS**  
329 4th Ave., Louisville, Ky.  
No rust. 2 1/2 inch pots.  
**WM. SCOTT, \$2.00 per 100; \$14.00 per 1000.**  
**FERRISAN, \$2.00 per 100; \$12.00 per 1000.**  
**LIZZIE MCGOWAN, \$3.00 per 100; \$14.00 per 1000**  
**50 to 100 Rate. 500 to 1000 Rate.**  
WHEN WRITING MENTION THE FLORESTA'S EXCHANGE

**HERE'S YOUR CHANCE!!**  
We are going out of business, and will sell at less than half price to close out.

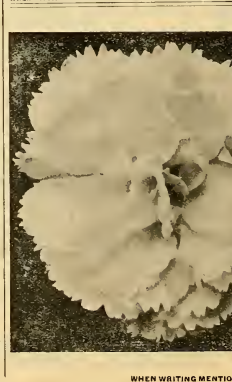
**Clean, Strong Carnations**  
Eldorado, Scott, Albertini, Alambak, Mistic Cook, Rose Queen, Triump, McGowan. Rooted cuttings, \$1.00 per 100. Fine plants from soil, \$2.00 per 100. These will yield cuttings at once.  
**G. PILLSBURY & SON, Nashua, N. H.**  
WHEN WRITING MENTION THE FLORESTA'S EXCHANGE

**ROOM WANTED.**  
For the next ten days I offer  
**Rooted Cuttings of Carnations**  
for \$1.50 per 100 or \$10.00 per 1000.  
Rose Queen, Eldorado, Goldfish, Wm. Scott and L. McGowan. This is first-class stock, perfectly healthy and well rooted. The best of satisfaction guaranteed or money refunded.—Cash with order.  
**FRED SCHNEIDER,**  
The Arcade Florist,  
Cleveland, Ohio.  
WHEN WRITING MENTION THE FLORESTA'S EXCHANGE

**NEW CARNATION, SPORT FROM WM. SCOTT.**  
4,000 80LD 07-10-DATE.  
All leading Carnationists are purchasers.  
Strong, vigorous growth, requiring no support.  
Observed and illustrated in Florists Exchange, Nov. 21, page 1064.  
**COME AND SEE IT.**  
Price: \$1.00 per 100  
\$4.00 per 500, \$70.00 per 1000  
Cash or satisfactory reference.  
All orders filled in rotation.

**Harrison's White.**  
NEW CARNATION, SPORT FROM WM. SCOTT.  
4,000 80LD 07-10-DATE.  
All leading Carnationists are purchasers.  
Strong, vigorous growth, requiring no support.  
Observed and illustrated in Florists Exchange, Nov. 21, page 1064.  
**COME AND SEE IT.**  
Price: \$1.00 per 100  
\$4.00 per 500, \$70.00 per 1000  
Cash or satisfactory reference.  
All orders filled in rotation.

**JOHN HARRISON,**  
739 Bergen Ave., Near Bidwell Ave., Jersey City, N. J.  
Take Haynes or Greenview Car from Pennsylvania N. R. Station for 25c and we are



# GALAX LEAVES! GALAX LEAVES

CHAS. H. RICKSECKER, Linville, Mitchell Co., N. C.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

## SMILAX PLANTS

Strong, bright, healthy, large enough to fill 2 1/2 inch pots but grows in flats. Each plant carefully wrapped with ball of earth for shipment. \$1.25 per 100; \$10.00 per 1,000. Plants from seed look very hall shovy prices. Cash with order please. Samples by mail, 10 cts. Violets for Easter. Write us for terms and prices.

R. KILBOURNE, - Clinton, N. Y.  
WHEN WRITING MENTION THE FLORIST'S EXCHANGE

## 10,000 HARRISII

\$8.00 per 100 buds and blooms in pots.  
\$8.00 per 100, cnt.

It is well for those who order, to order before they are thoroughly opened, as they will ship better.

Cash With Order.

WM. A. BOCK,  
NORTH CAMBRIDGE, MASS.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

## Nephrolepis Exaltata Bostoniensis.

THE BOSTON DROOPING FERN.

Mine is the Genuine Stock. Now ready or orders booked for June to August delivery. Strong plants for \$30.00, \$90.00, \$180.00, \$360.00, \$720.00 and \$2250.00 per 100; \$3.00, \$7.50, \$15.00, \$30.00 and \$225.00 per 100. 50 at 100 and 250 at 100 rate. - I am the largest grower of Bedding Plants in New England. - Write for prices or call and see them.

L. H. FOSTER, - 45 King St., Dorchester, Mass.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE



## DECORATIVE STOCK ALWAYS ON HAND.

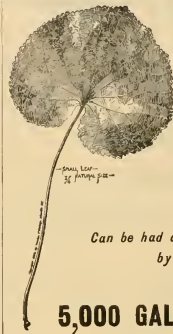
- |                          |                         |
|--------------------------|-------------------------|
| Fancy Ferns              | Holly and Mistletoe     |
| Hemlock (50 lb. bundles) | Saw Palmetto Leaves     |
| Hemlock Hoop             | Saw Palmetto Crowns     |
| Laural (in sacks)        | Long Needle Pines       |
| Laural Hoop              | Cabbage Palmetto Leaves |
| Green Moss               | Cabbage Palmetto Crowns |
| Sphagnum Moss            | Alabama Smilax          |
| Cycas Leaves (prepared)  | Galax Leaves            |
| Cycas Leaves (fresh)     | Ivy Leaves Florida Moss |

Also preserver of Natural Palms. Immense stock on hand. Write for price list of Lantana, Arecas, Rhapis, Cycas and Phoenix Leaves, and Plants. Lowest prices.

S. J. LIMPRECHT, 141 W. 30th St., NEW YORK.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

Ag't. for Carter's Ala. Smilax and Victor Schmelz' Cut Palms.



Green leaf - 3/4 large size -

## LEUCOTHOE SPRAYS FOR EASTER

Can be had of all Wholesale Florists who are supplied by us, or write or wire us direct.

5,000 GALAX LEAVES (Green or Bronze or Assorted), large or small, for \$3.00, 10,000 or over at 70 cts. per 1000.

## LEUCOTHOE SPRAYS

\$1.00 Per 100; \$7.00 Per 1000.

Case Containing 5,000 Assorted Galax and 300 Leucothoe Sprays, for \$6.00 Cash. By Mail, 600 Ass'd. Galax for \$1.00.

BE SURE AND WRITE OR WIRE ORDERS AT ONCE TO THE INTRODUCERS.

## HIGHLANDS NURSERY, KAWANA, N. C.

Telegraph Address, Kelsey, Cranberry, N. C. Money Orders on Asheville, N. C. Express Orders Preferable.

ORDER NOW AND BE IN TIME.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

# W. J. BAKER,

Original Headquarters for CARNATIONS,

# WHOLESALE FLORIST

A GOOD ASSORTMENT OF **Roses, Violets, Valley and Smilax** ALWAYS ON HAND.

A TRIAL ORDER WILL CONVINCE YOU. SPECIAL ATTENTION GIVEN TO SHIPPING ORDERS.

1432 South Penn Square, = = = = PHILADELPHIA, Pa.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

## Easter Specialties.

# HYBRID ROSES

INCLUDING SUCH AS

Ulrich Brunner, Mme. Gabriel Luizet,  
Mrs. John Laing,  
Magna Charta, Paul Neyron,  
and General Jacqueminot

BY THE THOUSAND WITH A LARGE STOCK OF ALL THE OTHER ROSES.

Thousands of Liliun Harrisii.  
The largest stock of Carnations in the Trade.  
Smilax and Violets also in large quantities.

M. A. HART,

Wholesale and Commission Florist,

113 W. 30th ST., NEW YORK.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# Easter Supplies

We handle the highest grade stock  
shipped to this city, including

BRIDESMAID, BRIDE, JACQ.,  
BEAUTY, and other Roses,  
LILIUM HARRISII  
and LILIUM LONGIFLORUM,  
MIGNONETTE, VIOLETS,  
SWEET PEAS, CARNATIONS.

Special quotations on large quantities of

Valley, Hyacinths, Tulips and Daffodils.

TRAENDLY & SCHENCK,

Wholesale Florists,

38 W. 28th STREET, NEW YORK.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## H. A. HOFFMANN

# Wholesale Florist

54 West Twenty-eighth St.

NEW YORK CITY.

Telephone 1847 18th Street.

電話一八四七

## SPECIALTIES....

American Beauties, Adiantums

Smilax, Carnations . . . . .

White and Blue Violets . . . . .

## CONSIGNMENTS SOLICITED

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

NEW ENGLAND  
HEADQUARTERS

FOR CHOICE EASTER FLOWERS

# N. F. McCarthy & Co.



We offer for Easter trade a carefully selected lot of  
**LONGIFLORUM LILIES** cut or in pots.

Also a particularly choice line of **ROSES**, including  
**Brides, Bridesmaids, Meteors, Perles, Jacks,**  
and other hybrids.

Our **BULB STOCK** will be particularly fine.

**CARNATIONS** will be scarce.

We have a varied assortment of **PALMS** which we  
offer at lowest jobbers prices.

\*CALL AND EXAMINE.\*

## N. F. McCarthy & Co.

No. 84 HAWLEY STREET, BOSTON, MASS.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# A Few Easter Specialties.

200,000 FINE VIOLETS.

Longiflorum and Harrisii Lilies,  
Thousands of Valleys,  
Tulips, Daffodils, Romans, etc.

Grown by A. SCHULTHEIS, College Point, L. I.

Roses of all kinds. \* BEAUTIES a Specialty.  
Carnations in Variety.

E. C. HORAN, - 34 West 29th Street.  
NEW YORK.

# EASTER FLOWERS

BEST QUALITY IN

Roses, Violets,  
Carnations, Mignonette.

EVERYTHING IN SEASON.

PRICE LIST ON APPLICATION.

**W. F. SHERIDAN,**

39 West 28th Street, New York.



**Wholesale Florists**  
 ALWAYS ON HAND:  
 CARNATIONS,  
 BROMELIADS,  
 ORCHIDS.

*N. F. Mearns*

**JOBBERS IN  
 FLORIST'S  
 SUPPLIES.**

**FLORISTS' VASES.**  
 Horticultural Artisans,  
 84 HAWLEY STREET, - BOSTON.

**GEORGE MULLEN,**  
 Wholesale and Commission Dealer in  
**Cut Flowers.**

Best stock and lowest prices. Orders by mail, express, or telephone, or telegraph promptly attended to.

GEORGE MULLEN 18 Chapman Place, Boston.

**GEO. A. SUTHERLAND,**  
 SUCCESSION TO W. J. STEWART.

**CUT FLOWERS and FLORISTS' SUPPLIES  
 WHOLESALE.**

67 Bromfield St., Boston. Mass.

**City Hall Cut Flower Market**  
**WELCH BROS., Props.**

Regular Consigners Given Space Free of Charge. Space let to growers wishing to sell their own goods.  
 Flowers Shipped to all Points.  
**SEND FOR PRICE LIST...**

**Illinois Cut Flower Co.,**  
 J. B. DEANUD, Manager.  
**WHOLESALE COMMISSION FLORISTS,**  
 59 Wabash Ave., Chicago.  
 Consignments Solicited.

**KENNIGOTT BROS. COMPANY,**  
**Wholesale • Cut • Flowers,**  
 88 Wabash Avenue,  
 CHICAGO, ILL.  
**WIRE WORK A SPECIALTY.**

**ROGERS PARK FLORAL CO.,**  
**Wholesale Growers of Cut Flowers**

OFFICE AND SALESROOM:  
 41 WABASH AVE., CHICAGO.  
 Headquarters for AMERICAN BEAUTIES.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**TOBACCO STEMS** 75 Cts. per 100 lbs.  
Bales weigh about 60 lbs.  
 THE BEST AND STRONGEST MUST BE FRESH,  
 NOT OLD ORDERLY STEMS. You can get the best of  
 H. A. STOETHEL, 315 Madison Ave., N. Y.

**CUT ROSES.**  
 Fine BRIDE, BRIDESMAID  
 and PERLE on short notice.

**CUT SMILAX**  
 FOR EASTER.  
 Fine 2 1/2 yard strings, 12 lbs. Cash with order.  
 GEORGE L. MILLER, Newark, Ohio.

THE NATIONAL PLANT CO., Dayton, Ohio.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

... FLOWERS ON HAND DURING SUMMER MONTHS ...

**ALFRED H. LANGJAHR,**  
**CUT FLOWERS AT WHOLESALE**  
 19 BOERUM PLACE, - BROOKLYN, N. Y.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**ANNOUNCEMENT**  
**JAMES M. KING**

10 years with E. C. Horan takes this opportunity of stating that he is now doing a Wholesale Commission business on his own account at  
 49 West 29th Street, NEW YORK.

Growers are requested to give him a call. Consignments solicited.



**CHAS. W. McKELLAR,**  
**Wholesale • Commission • Florist.**

We are prepared to take the best of care of Easter orders. Will have full supply of all seasonal flowers. Give us a list of your wants.

Dealer in Florists' Supplies, Wire Work, Etc. Consignments Solicited.

59 WABASH AVENUE, CHICAGO.  
 Telephone, Main 1129. ED. F. WINTERSON, Manager.

**FOR EASTER**

**175,000 VIOLETS**  
**30,000 CARNATIONS**

FORD BROTHERS,  
 111 West 30th Street, - - - NEW YORK.

**W. ELLISON,**  
**Wholesale Cut Flowers,**  
 Florist Supplies, Wire Designs.  
 2744 Franklin Ave., ST. LOUIS, MO.

**CHAS. G. FLECKENSTEIN,**  
**Wholesale Flowers,**  
 1323 PINE STREET,  
 ... ST. LOUIS, MO.

**C. A. KUEHN,**  
 Successor to ELLISON & KUEHN,  
**WHOLESALE FLORIST,**  
 1122 Pine St., St. Louis, Mo.  
 A COMPLETE LINE OF WIRE DESIGNS.

**C. W. WORS,**  
**Wholesale Flowerist,**  
 913 N. LEFFINGWELL AVENUE,  
 ST. LOUIS, MO.  
 FINE ROSES—Shipped carefully to all parts of the country.

**EASTER OFFERING**

CHOICE SEASONABLE FLOWERS  
 RELIABLE SEEDS  
 SUPPLIES  
 PRICES BARGAIN  
 PROMPT SERVICE  
**CHAMONT**  
 LEAF, CHICAGO

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# SAMUEL S. PENNOCK,

Headquarters for  
 ---CARNATIONS  
 in any quantity  
 and variety.



We will have a fine lot of Easter Flowers.  
 Harrisii '11's will be a specialty. . . .



Also a full line of  
 ROSES and  
 BULBOUS STOCK  
 Constantly on hand.

# WHOLESALE FLORIST

SPECIAL ATTENTION GIVEN TO OUT-OF-TOWN ORDERS. ORDERS TAKEN FOR EASTER PLANTS, INCLUDING L. HARRISII, AZALEAS AND HYDRANGEAS.

1612-14 Barker St. Between Market and Chestnut Streets, Philadelphia, Pa.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE



# Asparagus Sprengeri.

As the Sole Agents in this country for Danmann & Co., the originators and disseminators of this most valuable florists' plant, we are enabled to offer large field-grown plants at the following low prices, for delivery April and May.

To give an idea of the stock we are offering we will mail a sample plant of the two year old stock upon receipt of 15 cents in stamps.

- |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
| ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ | ◆ |
- ◆ Magnificent plants from the open ground. We particularly recommend the 2, 3 to 4 year old plants.
- |                                     |         |
|-------------------------------------|---------|
|                                     | Per 100 |
| ◆ 1 Year Old, Strong Plants, \$5.00 |         |
| ◆ " " " " " " " " " " " "           | 10.00   |
| ◆ " " " " " " " " " " " "           | 15.00   |
| ◆ " " " " " " " " " " " "           | 25.00   |
- ◆ Special price for larger quantities.

Asparagus Sprengeri Seed, \$1 per 100; \$7.50 per 1000.



CANNA ITALIA.

## Cocos Weddeliana Seed.

Fresh seed just arrived, \$5.50 per 100. Box containing 8000 seeds, \$35.

## Lily of the Valley.

Choice selected forcing pipes, \$7.50 per 100, or box of 2500 pipes, \$17.

## Boxroot Bulbs.

“DWARF PEARL.” As fine a sample as ever seen. Hard packed, \$60 in a bbl, \$5 per bbl., or 5 bbls. for \$25.

## Caladium Esculentum.

“ELEPHANT'S EAR.” Bulbs 4 to 6 inches in circumference, clean and sound, \$5.50 per bbl.; \$1.50 per doz.

## Asparagus Plumosus Nanus Seed.

\$10 per 1000 seeds; 1.25 per 100. Guaranteed true.

## Sweet Peas.

EMILY HENDERSON, 25c. per lb.; 5 lbs. for \$1.00. ECKFORDS MIXED, 18c. per lb.

Sample's Aster, White, pink or mixed, true and good, \$1 per doz.

# GREAT SENSATION NOVELTY--ORCHID FLOWERING Cannas-AUSTRIA and ITALIA

Every practical grower or dealer knows that large Cannas Roots with two or more growths are much more profitable than potted or started over a few weeks old in plant form. Now is your time to procure your stock of Austria and Italia Cannas. If you buy now and propagate you have eight weeks before planting out, and your only chance to make money on these two grandest of all New Cannas yet introduced. The stock we offer is the originators'—as their agents in this country—and will mail large sample bulbs of each upon receipt of \$1.

Large, sound field-grown bulbs containing two or more eyes, special prices for larger quantities.  
AUSTRIA, \$3.50 per doz.; \$25 per 100. ITALIA, \$6 per doz.; \$40 per 100.

Clucas & Boddington Co.  
Importers, Exporters and Growers' 501 and 503 W. 13th ST., NEW YORK CITY.  
Agents of Plants, Seeds and Bulbs. TELEPHONE CALL, 403-16th ST.



ASPARAGUS SPRENGERI. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

### ROOTED CUTTINGS.

Coloan, 50 new fancy varieties..... Per 100 \$10.00  
 Variegated Stevia..... \$1.25  
 Sweet Alyssum, Gem, doz..... \$2.00  
 Chrysanthenums, finest standard variety, 1.50

CASH WITH ORDER, PLEASE.  
**THEO. FUHR, Box 612, Alliance, Ohio.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

### SURPLUS STOCK

Must be sold at once to make room.  
 See lists in all Transpacific.  
 2000 Deer's Single Ear Flowering Petunias \$1.00 per 100  
 500 4th Ave. Petunias (Grand Miller) \$1.50 per 100  
 2000 Fresh from Auction, Golden Feather..... \$1.00  
 1000 Fresh from Auction, Blue plants..... \$1.00  
 500 Nasturtium Plants, dbl., yellow, 8c. in pots..... \$1.00  
 500 Double Petunias 2c. in pots..... \$1.00  
 500 Double Petunias 2c. in pots..... \$1.00  
 500 Double Petunias 2c. in pots..... \$1.00  
 100 Geraniums, dbl. white, La Favorite..... \$1.00  
 100 Geraniums, dbl. white, La Favorite..... \$1.00  
 100 Geraniums, dbl. white, La Favorite..... \$1.00  
 100 Geraniums, dbl. white, La Favorite..... \$1.00  
 100 Geraniums, dbl. white, La Favorite..... \$1.00

### CHRYSANTHEMUMS

Major Henderson, Fresh. Wis. H. Smith, W. F. Lindelo, John White, 3c. in pots..... \$2.50  
 Paverlow, doz. white, 2c. in pots..... \$2.50  
**HARDY DORMANT ROSES**, all crated, low and high, 2 year extra selected plants, \$1.00 per doz., or \$15.00 per 100.  
 Standard roses, \$2.00 per doz. Cash with order.  
**EDWARD EGERT, New Britain, Conn.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

### ROOTED COLEUS CUTTINGS

Not many bugs, Salvador, Bohemian, Mosato, Hero, Bluebird, Gerbold, Theo, Meban, Scepton, Beauty, Michigan, Chicago Redder, Clara, Sport, Fitzgerald, Lilavati, Dionysos, Royal Marble Strylock, Pinkland, Red Boy, Orinello, Charming, Look, Rust, Harry Harold Yellow Boy, Whiteleaf, Progress, Charles Jackson, Pink Gem, Progress, Electric Light, The Belle, Speculator, Mara, Yezido, Peter Royal, Maroon Velvet, Astronecton, Corsair, Spotted Gem, Paotale, Miss Blush, Amoretta, Doris Glaze, New Gray, Verbalis, Astronecton, Corsair Queen, Exquisite, Beckwith Gem, and 20 other varieties, 20 cts. per 100 or mail \$1.00 per 100 by express.

### GIANT DOUBLE ALYSSUM.

Rooted cuttings, 50 cts. per 100 by mail; \$4.00 per 1000 by express.

### FARQUHAR VIOLETS.

A few hundred rooted runners, \$2.00 per 100 by mail.  
**WM. H. SEARCH, Nevada, Chester Co., Pa.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

### THE BURBANK CANNA.

THE GRAND NEW ORCHID FLOWERED GIANT YELLOW  
 NEW YORK VAUGHAN'S SEED STORE  
 14 Barclay St. P. O. Box 683, CHICAGO.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

### Rooted Cuttings.

GERANIUMS, choice named, 1.50 \$12.50
COLEUS, 30 varieties, .60 5.00
HELIOTROPE, 3 " " " 1.00 8.00
AGERATUM, Dwarf, white and blue 75 6.00
CHRYSANTHEMUMS, 20 finest standard varieties, . 1.50 12.50

TERMS: Cash with order.  
**CHAS. E. SMITH,**  
 Cor. Jefferson and Jackson Aves., YORK, PA.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

### ROOTED CUTTINGS. Good Ones

Verbenas, 21 varieties, 80 cts per 100; \$7.00 per 1000.
Fuchsias, 11 " " " " 20 cts. per doz.
Heliotrope, " " " " 20 cts. " "
New Gem Alyssum & Novette's Vine 30 cts.
Capsules Lillacs or Clasp Plants 20 cts.
Soft Green Petunias 20 cts.
Mexican Primroses & Ageratum 20 cts.
Coleus, H. cts. Chrysanthemums 20 cts.
Roses, 5 cts. per doz. Postage to be added.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

### Rooted Cuttings. CASH PRICES.

Transplanted in soil; as good as pot-grown plants. Perfectly healthy stock.  
 Carnations, Scott and McGowan, \$1.00 per 100 \$7.00 per 1000. Helen Keller, \$1.00 per 100 \$7.00 per 1000.  
 Violets, Campbell—Strong, well rooted runners, 50 cts. per 100 \$7.00 per 1000. 3 in. pots to bud and bloom, \$2.00 per 100.  
 Chrysanthenums, New and standard varieties, \$1.00 per 100.  
 Paverlow—Dwarf Gem, \$1.00 per 100.  
 Heliotrope, Variegated, \$1.00 per 100.  
 Geraniums—\$3.00 per 100.  
 Bluebonnet, \$1.50 per 100; Forget-me-not, 50c. per 100.  
 Helianthus, \$1.00 per 100.  
 Aster, in many finest strains during the planting season, 2c. per 100; \$1.00 per 100.  
 Erysanthemum, Golden, \$1.00 per 100.  
 HYDRANGEA, Railroad Ave. and Hill St., Brooklyn, N. Y.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE



INTERNATIONAL ART CULTURAL EXPOSITION,  
 AT HAMBURG, 1897.  
 FROM MAY TILL OCTOBER.

Boston.

A Unique Establishment.

Syracuse, N. Y.

Providence.

## Market Items.

Trade is not particularly lively in this section, and the market offers plenty of stock in all lines, with the exception of the better qualities of carnations, which are very scarce about the city. The stock in excellent condition, Bride, Bride-maker, and Brunner being especially noticed. The latter is in such quantity that they are affecting to a greater or less degree the demand for four star Beauty. Violets are dropping off in quantity and quality, and the warm weather here is doing nothing to discourage a flush up many houses.

## Easter Outlook.

Easter prospects are encouraging in all directions. The retailers are very sanguine and the growers hopeful. All present it looks probable that there will be a great scarcity of carnations to meet, and good violets will be good property. There will probably be lilies enough to go around, and the prices of last year will be the rule.

## Staple Prices.

Present prices are about the same as have been reported for several weeks past, and it is a noticeable fact that for the past three months there has been less fluctuation in wholesale prices of flowers than ever before for a like period in the Winter months in this city.

## The News.

E. M. WOOD & Co. are now shipping some of the most beautiful of Ullrich Brunner to this market which have ever been here.

LAWRENCE COTTER has an attractive Easter novelty in the shape of large and small grown specimens of Crimson Rambler rose to full bloom.

JAMES T. CARROLL, formerly with Joseph Brice & Sons, but now in the real estate business in this city, was married a short time since to Miss M. E. D'Almeida, of South Boston.

The semi-annual meeting of the stockholders of the Boston Co-operative Flower Growers' Association, occurs on Saturday night at Young's Hotel. It is expected that the report will be a most successful one.

On the last day of the horticultural exhibition, last week, the flower committee recorded the awards on white carnations, and gave the first prize to Lincoln, which showed up throughout the exhibition in excellent shape, proving strong in its other good points that its keeping qualities are unexcelled.

Silkline, a green thread introduced a few years ago for florists' use by JOHN C. MEYER & Co., of 57 Summer st., Boston, is now in very general use by the florists throughout this section, with whom it gives entire satisfaction. It is used in many ways, but is especially recommended for stringing snailx and asparagus, and it is noticed that these goods when silkline is used are less readily injured by the process of cutting out the white stripes it is done away with. It is also furnished in fancy colors for tying up bouquets.

A case of interest to florists was tried in our courts this week. An employe of an established concern left and opened up a retail store in the same neighborhood, stating on his cards that he was formerly with the established concern. The latter refused to place an injunction against the use of their name on the cards of their past assistant, but the judge decided that such a party as the defendant was here for the last year, has entered the employ of J. Newman & Son.

The Massachusetts Horticultural Society's Winter course in insectures and diseases was completed last Saturday with a lecture on the John Lewis Russell foundation by Dr. Edwin G. Smith, an able and pathologist, U. S. Department of Agriculture, and a member of the Sprague of Plant Diseases; a Consideration of the Ways in which Parasitic Organisms are transmitted, and the course of the season has been well attended and highly satisfactory in its good results.

The greenhouse belonging to Dana & Stebbins, in West, was destroyed by fire on the extent of about \$300 on Wednesday afternoon. The fire caught from smoldering waste.

W. K. W.

WILLIAM H. ELLIOTT is one of the most successful growers in the Eastern States, and so intimately has his name become associated with Asparagus plumosus nanus that either seems out of place alone in fact, they are inseparable. His unique asparagus establishment at Brighton, Mass., was described at length in our Spring Special Edition a year ago, but since then the increased demand for this popular decorative green has warranted the erection of still another glass house of immense proportions, and a carload of glass is now on the road for the purpose of carrying out other contemplated improvements the present season. This is one of the places that all visitors to Boston should write in their memorandum books in large letters, and then be sure to see. It is readily accessible by electric or steam road from Boston, and visitors, especially those in the trade, are cordially welcomed, and they will be repaid by the opportunity of viewing one of the most interesting horticultural establishments in America.

W. K. W.

## Market News.

Trade has improved somewhat recently, and a good Spring business is confidently expected.

For Easter F. R. QUINLAN Co. have a batch of about 6000 Hartnell and longifloro in superb condition.

BANNISTER BROS. of the West side, have built an addition to their greenhouses, with a copy office and saleroom.

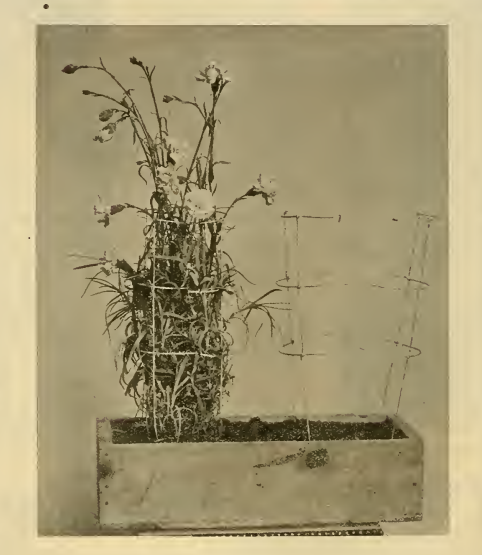
HENRY MORRIS, the Elmwood florist, has rented a store downtown, which is splendidly located, having two entrances, one at Geneva and East Payette st., respectively. Mr. Morris was recently elected president of the village of Elmwood.

Since my last notes, we have had quite a cold snap, which acted as a wholesome check to vegetation.

C. BARSON.

Whitesboro, N. Y.

JOHN H. OWENS, who has been growing successful florists, is working into flowers; he has some very nice roses. J. S. H.



Horan &amp; Son's New Carnation Support.

## Another Carnation Support.

We inclose you a photograph of a new carnation support, which we have had in use the past winter, and which, we think, works splendidly. It consists of four No. 16 perpendicular wires, 18 inches long and three or more horizontal wires bent to form half circles. One upper half circle is bent to form an eye on each end, the opposite wire is put up and taken down, and allows for retreating of the plant, without fear of breaking flowers or shoots, and stays in place without any further support or tying.

We think this support overcomes objections to be found in other supports, as it allows free access to the plant of sunlight and air, does not interfere with cutting flowers or taking of cuttings, and is adapted to short or tall growing varieties, also to bench or pot culture. It can be gotten up cheaply, and was so well pleased with it that we have applied for patent on same.

JAMES HORAN &amp; SON, Bridgeport, Conn.

College Point, N. Y.

ANTON SCHULTZ is usually managed to come out well ahead on whatever he takes h'd of, and this season will be no exception. His three houses of ericas are grand. Kaluga and metulodora, hode-dendron and sazales are equal good, and a house of Acaea armata hybrids (paranots), established here. Five thousand Lilium longiflorum, in pots, are in fine condition. Lilies in pots, Lily of the valley, and a house of roses also claim attention.

Carlton Hill, N. J.

Preparations for Easter are always made on a large scale by JULIUS ROEBERS, in his handsome establishment here. Flower stock of sazales, hydrangeas, daisies, bulbous stock, Lilium longiflorum, valley, rose roses and orchids all claim the attention of the visitor. This year, everything is in superb condition, and will be light a hour, in point of time. Mr. Roebers has but few novelties this season. He will, though, have the lot with Acaea armata, in large plants, having a number of specimens well flowered, 11 to 13 feet in height, trained in pyramid and bush form. Bougainvillea Sanderiana is also well done. Several houses of hybrid roses will be ready, and among these a batch of H. H. Johnston Roze'll is the most conspicuous.

## The Market.

Business is worse than dull. All kinds of flowers are in supply, but the demand is very light. Balloons stock, both in flowers and plants, has shown a decided falling off over previous years, and many of the growers will have a much smaller stock for next season. Funeral flowers have been the principal feature of the Spring trade, and E. H. Foster, N. H., and Mr. Knickman, with Vaughan's Seed Store, New York, are the principal dealers in material for decorative stock.

## In Town.

Among the recent visitors in town were W. Rolker, William Dykes, with Ed. Jansen, J. E. Killen, of C. H. Joosten, New York, Charles H. Walker, representing D. F. Hayes, N. C., Foster, N. H., and Mr. Knickman, with Vaughan's Seed Store, New York, are the principal dealers in material for decorative stock.

## Death of an Old Florist.

A news despatch recently received by the daily press of this city from Portland, Ore., announces the death of WALTER MCNIGHTON, who left his home in this city on January 6, 1881. The deceased was born in Scotland in 1820, but when about six years of age he removed with his parents to London, where in later years he learned the florist's business. He came to this country about 1849, and a greater portion of the time since was spent in Providence. For many years he conducted a greenhouse near Elmwood until about a year ago, when he gave up business.

## Jottings.

JAMES DAY, for several years foreman for Walter Hogg, has accepted a position with Amasa Eaton.

JAMES WENNER, Jr., has been elected superintendent of the North End cemetery. WILLIAM HENRY has entered the employ of Edward J. Johnston, at his greenhouse.

MICHAEL O'CONNOR, formerly with B. B. & E. Knight is erecting a greenhouse on Bacon avenue.

WALTER E. BOSTON is to read a paper on mushroom spaw and culture at the April meeting of the Riverside improvement society.

The clerks at W. E. Barrett & Co. and Walter A. Potter & Co., are working nights filling orders on seeds, tools and supplies.

## Club Notes.

Conventions and the coming Convention of the Society of American Florists, in August next were the topics that occupied the meeting of the Executive Committee. Florists and Gardeners' Club of Rhode Island at their regular monthly meeting, at Providence, on the 15th inst., had a committee a greenhouse near Elmwood until about a year ago, when he gave up business.

The secretary read an official report from the Executive Committee of the Society of American Florists, of the proceedings of the executive committee's session recently held in this city. It was referred to the local Convention committee with instructions to appoint committees and assistants called for in the report. It was voted that a dance be held April 20, at William B. Hazard's dairy farm, where an elaborate program of entertainment will be furnished.

Thomas N. Gray, Boston, was elected an honorary member.

W. Rolker, of New York, made some interesting remarks. President Macrae announced that the Messrs. Farolier, of Boston, had offered to deliver a illustrated lecture on the bulb raising interests of Florida. This meeting will give their lecture before the Club at the next meeting. The meeting will be made ladies' night, and the members will have the privilege of inviting their friends. The committee on athletics reported that the shooting and bowling teams were nearly organized, and that the arrangements for the proposed tournament were progressing.

In the absence of the essayist of the evening ladies' Picnic, Secretary of the wood, the secretary, read an interesting paper on the "Cultivation of Carnations," which will be for the benefit of the other column. W. H. M.

Bristol, Pa.

HARRY CHAMBERS died at his home here on Tuesday, March 23. He had been suffering from pneumonia. A widow and three children survive him.

Geneva, N. Y.

JAMES SANDFORD SEARS, an old-time nurseryman, died March 19, 1881. He was 86 years of age.

**CHAST SIEBERT** THE RESTLESS & THE SLEEPLESS  
**FLORIST OF**  
**PITTSBURGH, PA.**  
**GROWS & SELL**  
**CARNATIONS THAT PAY.**

**E. G. HILL & CO.,**  
**Wholesale Florists,**  
**RICHMOND, INDIANA.**

**WHEN WRITING MENTION THE FLORIST'S EXCHANGE**  
 We pay the express if Cash accompanies the order.  
**MME. SALLEROI GERANIUMS**  
 From \$1.00 per 100, \$1.00 per 1000  
 Colors, 10 varieties, 50 cts. per 100; \$4.50 per 1000  
 Five-year, Little Gem, \$1.00 per 100; \$8.00 per 1000  
 All-year-bear, A. Nana, 60 cts. per 100; \$5.50 per 1000  
 Packages, best varieties, \$1.00 per 100; \$8.00 per 1000  
 Cash with order. Express free.  
 The above are Rooted Cuttings.  
**C. A. HARRIS & CO., Delanson, N.Y.**  
 WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**Pansies! Pansies!**  
 Bugnot, Cassier, Odier, and Trimardeau.  
 Large stock plants, transplanted last November in cold frames, ready to bloom, 60c. per 100; \$6.00 per 1000.  
**Whitton & Sons,** Wholesale Florists,  
 City and Green Streets, - UTICA, N. Y.  
 WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**Pansies Worth Raising . . .**  
 We can still furnish good plants, fall sown, and which may bloom in April, at \$4.00 per 100, \$40.00 per 1000. Express free. No return to buy if QUICK RETURNS are wanted.  
 Cash with order.  
**C. Soltau & Co.,** 109 Great Avenue, Jersey City, N. J.  
 WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**100,000 Pansy Plants** Bugnot, Cassier, Odier, Trimardeau, 30 cts. per 100; \$3.00 per 1000.  
 Paul Marquand, Emilie Leclercq, yellow, \$1.00 per 100; \$10.00 per 1000.  
**10,000 Dahlias,** best kinds for cut flowers, all named, \$1.00 per 100.  
 Cash with order, or in exchange for Roses, best kinds, or 7 inch pots, etc.  
**SHELLHOOD GREENHOUSE CO.,** North Point, P. O. Md.  
 WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**PANSIES.**  
 December house-sown, seed, now transplanted in frames, \$2.50 per 1000; 50c. per 100, by mail. Plants in frames, \$2.00 per 100. By order select only.

**VINCA**  
 vines, October bed tips, 2 1/2 in. pots, ready for \$2 1/2 each 4 in., \$3.00 per 100, 4c. for less. Cash with order.  
**W. J. ENGLE, Box 211, Dayton, O.**  
 WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**PANSY PLANTS.**  
 Schmidt's International choice mixture of Pansies.  
 Fine large plants in bloom, \$1.00 per 100; \$8.00 per 1000. From seed, good stock plants, 50 cts. per 100; \$5.00 per 1000 all grown to cold frames.  
**J. C. SCHMIDT & CO.,**  
 Wholesale Pansy Growers,  
 Box 24, BRISTOL, PA.

**PANSIES.**  
 Roemer's Prize Pansies, extra fine stock plants from cold frames, in bud and bloom, transplanted in September. Plants measure from 4 to 6 inch diameter. By express, \$1.50 per 100; \$15.00 per 1000.  
 CASH WITH ORDER.  
**PETER BROWN,** - Lancaster, Pa.

**PANSIES**  
 In splendid culture, large plants for early flowering in 100 \$1.00 per 100. Small plants from Fall sown seed, \$1.00 per 1000 by express. Plants sent by mail.  
 Pansies, small plants, \$ .75 per 100  
 Colors, mixed varieties, " .75 " " " "  
 French and Italian, " .75 " " " "  
 Pevelev, double white, Cam., " .75 " " " "  
 Italian and W. Fleas, " .75 " " " "  
 One-fourth quantity 4 1/2 inch size.  
**W. C. JENNINGS, Natick, Mass.**  
 WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**STROMBOLI**  
 An immense recurved flower, grown from seed direct from Japan, said to be from the Mikado's garden. Nothing like it in the whole cherry and loquat family, 50 cts. per 100; yellow, mixed stock, limited. Price, 40c. each; \$4.00 per doz. by express. Address all orders to:  
**A. K. KIRKLAND, Box 154 Thayer, Mo.**  
 WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**CARNATIONS** Daybreak, Scott, Tidal 100; \$1.50 per 100; \$15.00 per 1000.  
 These, Cardage, Kohlhorst, Rose Queen, Bride of Eriosecut, \$2.50 per 100; \$25.00 per 1000  
**VIOLETS** Lady Campbell, 50 cts. per 100; Luxacian, \$1.00 per 100; \$10.00 per 1000. Adelfal Avellani, \$2.00 per 100.  
**JOSEPH RENARD, Unionville, Pa.**  
 WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**MORELLO**  
 The New Scarlet.  
 From soil.  
**HOPP & LENKE,** East Grand Rapids, Mich.  
 WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**TO EXCHANGE**  
**Rooted Cuttings**  
 Carnations Lizzie McGowan and Wm. Scott and Chrysanthemums, Dailleduco, Wau-macker and Ivory, for Coleus Verbena-hoffii and Yellow, or Bergamot City Verbena.  
**J. & W. LEACH, Florists, L. I. City, N. Y.**  
 WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**PANSY PLANTS** - From imported seed of the finest strains.  
 Out of seed buds, 60c. per 100; \$6.00 per 1000.  
**20,000 Saxifraga Plants** - Ready by end of July, \$1.00 per 100. Orders booked now. Cash with order.  
**GEO. MUNICH, Batavia, N. Y.**  
 WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**In Bloom**  
 The Finest Pansies in the World.  
**ROEMER'S GIANT PRIZE PANSIES,** to separate colors, or mixed; strong transplanted plants from cold frame, at  
 \$2.00 per 100, or  
 \$15.00 per 1000, by express.  
 Cash with order.  
**MAX. E. KRAUS, 230 BAYVIEW AVE., NEW HAVEN, CONN.**  
 WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**Pansies! Pansies!**  
 All the best varieties, strong transplanted plants, 50 cts. per 100; \$4.00 per 1000.  
**Geraniums,** rooted cuttings from soil, 25c. per 100; \$2.50 per 1000.  
**Adiantum Cuneatum,** 2 1/2 in. pots, 6.00 per 100.  
**Coleus,** rooted cuttings, 1.25 per 100.  
**Flax Leaf,** extra fine, strong stock plants, 50c. per 100.  
**Acrotium** 1.00 per 100.  
**Flax Leaf,** extra fine, strong stock plants, 50c. per 100.  
**Acrotium** 1.00 per 100.  
**Heliotrope,** rooted cuttings, 1.00 per 100.  
**Acrotium** 1.00 per 100.  
**Carnations,** rooted cuttings from soil, 25c. per 100; \$2.50 per 1000.  
**Dracena Indivisa,** 4 in. pots, 30c. plants, 20.00 per 1000.  
**Ivy Geraniums,** 10 cts. per 100; \$10.00 per 1000.  
 Cash with order.  
**H. H. TIMMERMAN,** 25 Mandaville Street, UTICA, N. Y.  
 WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**JENNINGS**  
 10,000 extra large plants, full of buds and in bloom  
**Jennings's Finest American Strain**  
 None's better. In great variety of colors. By freight or express, \$2.00 per 100. Cash with order.  
**E. B. JENNINGS, Southport, Conn.**  
 LOCK BOX 254.  
 Grower of the Finest Pansies.  
 WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**Carnation Cuttings**  
 Strong and well rooted, of the following varieties: Jubilee, Triumph, Armistead, Alaska, Bridesmaid, Dean Hole, Goldfish, Lizzie McGowan, Mine, Albertini, Meteor, Peachbloss, Rose Queen, Silver Spray, Wm. Scott, Uncle John  
**PRIMULAS,** 2 1/2 inch, \$1.00 per 100.  
 Send for list and prices on large lots.  
**Logan Ave. Greenhouses, - Danville, Ill.**  
 WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**Carnations!**  
 (Rooted cuttings now ready.)  
 Mayer Fingree, Meteor, McGowan, Daybreak, Scott, Fortia, and other good ones.  
**Good Healthy ROSES** for Spring.  
 Send for price list.  
 CUT ROSES and CARNATIONS always in stock.  
**H. DALE - - Brampton, Ont.**  
 WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**Carnations, Rooted.**  
 Scott, D ybrook, Portia, Fisher, Tidal Wave, Puritan, Albertini, A. Webb.  
**3,000 Echeverias,** - Rosea, Glauca, \$3.00 per 100; \$25 per 1000.  
**C. E. ALLEN, Brattleboro, Vermont.**  
 WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**H. WEBER & SONS,**  
 OAKLAND, MD.  
**ROOTED CUTTINGS.**  
 Strictly first-class stock only, at popular prices. Write for price list.  
 WHEN WRITING MENTION THE FLORIST'S EXCHANGE

Are too busy executing orders to write you an Ad. Just say to your Readers we are still doing business at the old stand and **Our Specialties are**

**Chrysanthemums, Carnations and Violets . . . . .**

Both New and Standard Varieties. Prices moderate. Quality the best. Catalogues Free.  
**NATHAN SMITH & SONS,**  
 ADRIAN, MICH.  
 WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**LAST CHANGE**  
 McGowan Carnations, rooted cuttings, 50 cts. per 100; \$5.00 per 1000.  
 Geraniums, 10 each, 5 varieties, 4 in. 8c. per 100; mixed, 4 in. \$1.00 per 100.  
 Pelargoniums, 5 varieties, 5c. per 100.  
 Cash with order or will exchange for rooted cuttings of Eldorado, Mine Cook and Meteor Carnations.  
**B. P. WYNING, - Lebanon, Pa.**  
 WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**CARNATIONS.**  
 Good healthy Stock. Grown Cool..

Wm. Scott.....	Per 100	\$1.00
McGowan.....	1.00	
Daybreak.....	1.25	
K. A. Wood.....	1.25	
Fortia.....	1.00	
Uncle John.....	1.00	
Goldfish.....	1.25	

Prepared by express when cash with order.  
**MME. CROZY CANNA, \$2.00 per 1000.**  
**G. S. BATTIN, South Charleston, Ohio.**  
 WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**Carnations, Rooted.**  
 \$1.00 to \$1.50 per 100.  
 \$10.00 to \$12.00 per 1000.  
**Double Petalled Flowering Chrysanthemums.**

Market Notes.

Trades has been fair the past week; it seems as if Lent does not play the game as well with the flower business that it did former years. Stock is fair quality and well sold.

C. L. Salsbied is very busy planting bulbs in March in all branches, decorating the addition of Carroll Park. This party will be one of the finest we have in the city.

HURT EDDY, of Chicago, was in town this week.

The Dutchman is on his annual tour for orders. EDWIN A. SIEWITZ.

Indianapolis.

Trade seems to have been very good in March in all branches, decorating being brisk. The outlook for Easter is excellent, with plenty of bulbous stock, carnations and carnations.

The March meeting of the Florists' Club was held at the office of H. W. Riemann, the subject being "The Flower Worm." A paper read by Herman J. Jurek and a microscopic examination by Mr. Hatfield were well attended. These two gentlemen—a rose grower and a botanist—have put their heads together, and they began an elaborate and very practical way of handling this pest. The results of their efforts are looked forward to with interest by the local growers.

WIGAND & SON are building a palm pit 12 by 160 feet in which to grow small palms.

THE INDIANAPOLIS PLANT AND FLOWER CO. have built a propagating house and completed building two good houses for chrysanthemums and general stock.

Messrs. Fred. Donner, E. G. Hill, and the complete building of two good houses for chrysanthemums and general stock.

The City Council has appropriated \$350,000 for parks. This city will soon have a park as large as any in the world.

Park Commissioner Albert Lieber, general manager of the Indiana Brewing Co., is going to the Capital to propose a plan to plant a new street at the end of Gardfield Park. The street is two miles in length, and is planted with trees and shrubs, maples. Mr. Lieber took this step to encourage tree planting.

Cincinnati, O.

The past week has been uneventful as to business; the fore part of week trade started off quite slow, but on Thursday it took a turn for the better, and by Saturday night nearly all stock at the commission houses was disposed of, carnations were scarce, and have been so all through Lent, and the scarcity will no doubt continue some time. In the case of carnations have stiffened up considerably.

Roses have been in fair demand only, and the stock will be sold in the near future. Messrs. E. G. Hill & Co. are now shipping the writer some handsome Carnot. This is a brand of a beautiful rose, and I think will find favor with the public.

Trade at the Flower Market has been about its own fairly well.

On Tuesday morning a severe hail storm passed over the western section of the country, fortunately the treacherous ice escaped, or, at least, at this writing I have heard of no damage.

On Saturday, E. G. Hill and myself visited the establishments of Richard Kretzschmar. Among his many seedling carnations may be mentioned one named Opal, which, in my opinion, will be one of the best of the season. The name given Kretzschmar and Emma Woehner, she is a daughter of both; and the buds are divided. Evelina, his new white, is looking all right, and is certainly a good carnation. Emma Woehner is also in fine condition.

On Tuesday morning a severe hail storm passed over the western section of the country, fortunately the treacherous ice escaped, or, at least, at this writing I have heard of no damage.

On Saturday, E. G. Hill and myself visited the establishments of Richard Kretzschmar. Among his many seedling carnations may be mentioned one named Opal, which, in my opinion, will be one of the best of the season. The name given Kretzschmar and Emma Woehner, she is a daughter of both; and the buds are divided. Evelina, his new white, is looking all right, and is certainly a good carnation. Emma Woehner is also in fine condition.

On Tuesday morning a severe hail storm passed over the western section of the country, fortunately the treacherous ice escaped, or, at least, at this writing I have heard of no damage.

On Saturday, E. G. Hill and myself visited the establishments of Richard Kretzschmar. Among his many seedling carnations may be mentioned one named Opal, which, in my opinion, will be one of the best of the season. The name given Kretzschmar and Emma Woehner, she is a daughter of both; and the buds are divided. Evelina, his new white, is looking all right, and is certainly a good carnation. Emma Woehner is also in fine condition.

bulbs, for the reason that when such a tariff is in operation there will not be so many bulbs sold, and those imported will be of a better quality than those grown better flowers. The probability of the grower to get more money for what he raises. E. G. HILLGRT.

St. Louis.

Trade News. We are having the first lots of Spring weather that should give stimulus to business. There is a fair volume of orders in the hands of the exhibitors. Last week, thousands of roses were given away at the Spring openings of the city. The market for carnations is very quiet. The departure, while not new here, was never as popular as this Spring, and while the market for carnations is very quiet and prices from collapsing, it meets with much adverse criticism from some of our florists, particularly those having stores in the shopping districts. It is my opinion, however, that flowers given away at these events will be a benefit to the business of most of them into the hands of people who are not regular flower buyers—and besides no dealer is experienced enough to not return liberal interest to the flower business, for the love of flowers is inherent. In retailing carnations, the market is better. There was considerable funeral business in the city, and the season at Music Hall, etc., has been very successful. It has caused some demand for fine flowers, but not so much as was expected. Since the Faust-Bauch wedding there has been a plentiful absence of decorations, and wholesale trade has been very quiet. The carnation trade and the ever-present fair for their sales. At present, the latter handle the bulk of the carnations. The florists, Brimaid and Meteor, and their trade has kept the market clear. So far, there has been no change in the carnation market. The Lent in former years; in fact, roses seem to be as scarce as during January. From my own experience, I am of the opinion that abundance of flowers until after Easter. Lillian Hartshorn is causing some anxiety, but I am not sure. Her own opinion of many growers that the supply will be short of demand at Easter.

Beauty is now coming on in fine shape, and fancy sell readily at 45¢ to 65¢ per 100. Kegs of Pleasant Hill, 15¢ in the Brimmer.

Carnations are not as plentiful as roses. Stock and prices are about the same as last week. Daybreak is scarce, and commands good prices. Fancy red sell well, and are in demand. Uncle John and Alaska are in best form. Fine carnations are bringing \$2 per 100. The demand for carnations is very quiet.

Violets are doing better than last reported. Southern shipments are light, and none grow in the West. The demand is very active, particularly for California. Sweet peas are down to rock bottom. The market for carnations is very quiet. Bianca Perry and Katherine Tracy are doing well. The demand for carnations is very quiet.

Romans are scarce and sell clean at 83 per 100. California is 50¢ per 100. The demand is very active, particularly for California. Sweet peas are down to rock bottom. The market for carnations is very quiet. Bianca Perry and Katherine Tracy are doing well. The demand for carnations is very quiet.

One of our large department houses advertised a big drive in rose plants last week. Curiosity prompted me to investigate the matter. The drive was in the form of a "drive" in the flower department, where large wax-impregnated carnations in the buildings at 50 Washaba charge did not know what varieties of roses she had to sell; knew nothing about the color, their own manner, which

she handled the serrary plants, I am willing to take her word for it that she knew nothing about them; all she knew was that they were better than those they had thorns. How many did I want? None. Would I excuse her, and she went to the front of the department, and jostled each other in their eagerness to get at the baskets and paid their money without waiting for the flowers to be ready. The salesladies were kept busy handing out rose bushes at so much per bush. What a

The plant trade is opened out, and there is activity in every market place in the city. The carnation market is very quiet. Robert Fitzsimmons' Works is the latest addition to the flower business. Charles W. Cook is removing to his new place, and the arrival of the boy. C. G. F.

E. H. MOORE has added a center chest to his store, which is not large enough to accommodate the rush of buyers during the early hours. The chest contains 20 drawers, with capacity for 500 roses; is about 4 feet high; upon the top a counter is made well adapted for sorting purposes.

The condition of the flower market the past week has been favorable, most of the stock arriving being cleared off. If any carnations were left over, the market is rather a shortage in carnations, with none to sell at a knockdown price—\$1 25 to \$1 50 was as low as the dealers would go. Roses also have kept plain fairly well, and the stock cleared at least the best quality.

The stock shows an increased supply of extra quality, no doubt owing to the bright sun. Several wholesale houses are having carnation roses shipped to them. The asking price is 75¢ per 100, but some are selling at \$1. One house reported that the retailers no longer thought they found them scarce, and are beginning to buy again. One house that sells the flower, in addition to being in the market, has been in the market as a specialty, mostly in the flowers when partially open, as in the case of the carnations. The market is a taking flower. But when the petals are partially unfolded, the delicate shade is unlike that of any other rose in the market, one coming nearest it being Golden Gaea, a variety grown by Rieberg to some extent.

The violet gait has let up somewhat, and a point gained in price; 50¢ being the price for the best. Prizes for Fall Show. The total premiums offered for the Fall exhibition are: Chrysanthemums, \$100; carnations, \$100; miscellaneous plants, \$85; cut roses, \$40; floral arrangements, \$25; carnation show, \$25; violet blooms, \$15. Club News.

The Florists' Club meeting on the 25th inst. was held at the office of E. G. Hill. A committee of twelve was appointed to raise funds for the relief of John McCollister, who was elected to the point of death. James Hartshorn, financial secretary, is leaving the city to take charge of his business, and is being succeeded by E. G. Hill. E. G. Hill, Esq., new Joliet, and his resignation from the Club was recently accepted. John McCollister being elected to fill the vacancy.

The president then turned over the meeting to JAMES H. HARTSHORN, the committee of arrangements, and the story went around, interspersed with conversation by E. G. Hill, "Quarrette," Messrs. McCullar, Balluff, Kissell and Winterborn, with mandolin accompaniment. An enjoyable evening was spent.

EDWIN M. MCKELLAR will be removed, April 10, to 50 Washaba—a large, basement store—where he proposes affording flowers table room to sell their flowers. THE ILLINOIS FLOWER CO. (J. B. DeWitt) will also move at same time, owing to alterations in the building at 50 Washaba. EDWIN A. KASTS, of Washington Park, delivered an address before the Cook

County Farmers' Institute, at Willard's Hall, March 26, on "Trees Best Adapted for City Planting."

H. F. Halle, Anton Thien, and W. J. Hines were in charge of the proceedings, in company with a large delegation of other business men, who appeared before the board of directors of the city of the bill against department stores. The bill passed the Senate, and at present is hanging by a hair in the House of Representatives. The bill provides for the cities of 100,000 and over. The principal feature is a classification, with license in proportion to the amount of separate businesses carried on in one building.

W. C. COOK returned from Cincinnati, where he had been to bury his father, James W. Cook, one of the pioneer florists of that city.

W. C. COOK

A few of the retail dealers report trade fair, but in general not much of anything is going on. Stock is fairly abundant, with prices unchanged. Harris Hines was in the city, and has been in retail as low as 50¢ per dozen bulbs, while the wholesale price is about 4¢ per 100. Roses and carnations hold up well in price and are of good quality. Violets were sold one day during the week at the new price—15¢ a bunch, or two for 25¢—by one of the Allegheny florists, who secured a big lot; generally, violets bring 20¢ per 100.

Hyscints, Dutch and Roman, go very slow; tulips are in biggest demand and are being sold in quantities. The plant trade is beginning to improve slightly, but prices are too low; pot hyacinths go at 10¢ or three for a quarter. Seed Trade. No complaints are heard in the seed business. W. C. Beckert reports his trade better than last year, and has been kept very busy for the month.

Club Notes—What Insect is This! A well attended meeting of the Florists' Club was held last week. The evening being devoted to the microscopic entertainment, C. G. Miller, an enthusiastic microscopist, presented some wonderful objects, among them being insect larvae, and plants. A specimen of a certain insect was presented, which, under the powerful lens, was new to most of the growers; that is, they have never seen it. The writer recollects it well, having had it in the greenhouse some years ago. It is fully 1/8 inch in length, tube shaped, and of some light color as the mesaly bug, and does about as much damage, inflicting its stings, being particularly fond of coleus and lantana. None present could name it, and the writer is sure it would be much pleased to hear more about it.

W. F. LAUCH, of Carleik, was married, March 30, to Miss Eliza Engel, a sister-in-law of E. C. Ludwig, the Allegheny market.

A. G. HENNING, of F. E. McAllister Co. and JOHN BARCLAY, of Wm. Elliott & Sons, New York, were visitors during the week.

C. T. STREIBER opened a new flower store at 120 Washaba, and is well patronized in all Allegheny, which will be in charge of H. Streifel, who was formerly with E. Ludwig.

GIBBS, of Woodville, rented the greenhouse of W. F. Drews, on Fifth avenue.

W. F. LAUCH, of Carleik, was married, March 30, to Miss Eliza Engel, a sister-in-law of E. C. Ludwig, the Allegheny market.

A. G. HENNING, of F. E. McAllister Co. and JOHN BARCLAY, of Wm. Elliott & Sons, New York, were visitors during the week.

C. T. STREIBER opened a new flower store at 120 Washaba, and is well patronized in all Allegheny, which will be in charge of H. Streifel, who was formerly with E. Ludwig.

GIBBS, of Woodville, rented the greenhouse of W. F. Drews, on Fifth avenue.

W. F. LAUCH, of Carleik, was married, March 30, to Miss Eliza Engel, a sister-in-law of E. C. Ludwig, the Allegheny market.

A. G. HENNING, of F. E. McAllister Co. and JOHN BARCLAY, of Wm. Elliott & Sons, New York, were visitors during the week.

C. T. STREIBER opened a new flower store at 120 Washaba, and is well patronized in all Allegheny, which will be in charge of H. Streifel, who was formerly with E. Ludwig.

THE NEW ROSE

PRESIDENT CARNOT

FROM 2 1-2 INCH POTS. \$15.00 PER 100; \$125.00 PER 1000.

HEALTHY YOUNG STOCK,

READY NOW FOR DELIVERY.

- Mosella, "Yellow Souper", 2 1/2 inch pots.....\$5.00 per 100; \$40.00 per 1000
Pink Souper, 2 1/2 inch pots..... 5.00 per 100; 40.00 per 1000
Climbing Wootton, a very vigorous climber, identical with Wootton
in bloom, perfectly hardy in this latitude.....\$10.00 per 100; \$70.00 per 1000
Carmine Pillar, 2 1/2 inch pots, a fine climber, hardy.....\$10.00 per 100
Cocos Weddeliana, 3 inch pots, beautiful plants..... 20.00 per 100

- Arcea Lutescens, 3 1/2 inch pots, ready for a shift.....\$15.00 per 100
Also fine stock of larger sizes, prices on application.
Cocos Weddeliana Seed, fresh crop, just received.....\$8.00 per 1000
Arcea Lutescens Seed, fresh crop..... 6.00 per 1000
Livistona Rotundifolia, 2 inch pots.....\$10.00 per 100; 80.00 per 1000
Asparagus Sprengerii, 2 1/2 inch pots, good stuff..... 10.00 per 100
A plant of great value for decorative purposes.

ROBERT CRAIG, - - - 49th and Market Streets, Philadelphia, Pa.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

ROSES.

- Roses. Strong plants, 2 1/2 in. pots, \$125 per 1000
\$20.00 per 100. By mail, extra, per 100 additional.
Acrippia Marie Van Houtte
Archduke Charles Marie Van Houtte
Bar Sibene Harmet
Bride Camille
De Gaulle Mme. Cecile Berthod
D. of Albany Mme. J. Jos. Schwartz
Devonshire Time Lombard
Duch. de Brabant Mme. Schwallier
E. de Metz Papa Gaudin
Etoile de Lyon Princess of Sagan
F. de la Reine Pres. Gavault
Gen. Turgis Queen's Scarlet
Henry 30 Stanley Snowflake
La Paoline Sombreuil
La Princesse Vera Queen
Ni Niel Viceroy Hugo
HIBISCUS, 12 varieties, prices same as roses.

YOUNG ROSES

1500 each of BRIDE and 'MAID, out of 2 1/2 in pots, strong. I grew this stock to plant myself, but have taken the creation fever, so will sell them for \$3.00 per 100.

GEO. A. RACKHAM, 880 Van Dyke Ave., - DETROIT, MICH. WHEN WRITING MENTION THE FLORIST'S EXCHANGE

SPECIAL FINE STOCK -> ROSES <-

- 2 1/2 inch pots, ready for 3 inch. Per 100 Per 1000
Bride..... \$4.00 \$32.00
Bridesmaid..... 4.00 35.00
Fetes des Jardins..... 4.00 35.00
Kaiserin Augusta Victoria..... 5.00 40.00
Fleurpost Morgan..... 5.00 40.00
Belle Siebrecht..... 5.00 40.00
Mistral..... 5.00 40.00
CASH WITH ORDER.

WM. C. SMITH, 61st and Market Sts., Phila. WHEN WRITING MENTION THE FLORIST'S EXCHANGE

Fine Healthy Stock of Brides, Maids, . .

. . . Perles, Meteors, From 2 1/2 inch pots, ready for shifting, \$4.00 per hundred.

JOHN HENDERSON CO. Flushing, N. Y.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

ROSES.

- Cath. Mermel
Bridesmaid
Mar. Niel
Mme. Jos. Schwartz
Compt. de La Barre
James Sprunt
Compt. de St. Goulain
Mme. Lambert
Mrs. Degraw
Homer
Coquette de Lyon
Leonie Boerschm
Monte Carlo
Am. Perfection
The Bride
Bouquet
Queen Scarlet
Acrippia
Miss Kitch Brownlow
Cor. Cook
Mrs. Car. Kuster
Craziella
Clement Sabomand
Princess Sagan
Mme. Klumke
Henry N. Stanley
Compt. Riza du Park
Dion
Solitaire & Lamarque
2 1/2 inch, \$30.00 per 100.

HIBISCUS.

- Brilliantissimi
Double Crimson
Double Rose
Double Sib Violeaceus
Fulgidus
Duchess Semi-Plena
Magnificus
Vesuvius
2 1/2 in. pot plants.....\$1.00 per 100
4 " " " "..... 8.00 "
NANZ & NEUNER, Louisville, Ky.
WHEN WRITING MENTION THE FLORIST'S EXCHANGE

R. H. MURPHY, Urbana, Ohio. WHEN WRITING MENTION THE FLORIST'S EXCHANGE

American Beauty

3/4 in. pots, very fine \$7.00 per 100, ready for shifting, \$5.00 per 100; \$40.00 per 1000.

Crimson Rambler

3/4 in. pots, strong, \$10.00 per 100, ready for shifting, \$5.00 per 100; \$40.00 per 1000.

Marechal Niel

5 in. pots, \$12.00 per 100, 2 1/2 " 5.00 per 100, 2 1/2 " 3.50 per 100; \$30.00 per 1000.

Also 100,000 HYBRID PERFETUALS, MOSES and CLIMBERS, in 2 1/2 in. pots, \$20.00 per 100.

Write for our list of varieties. W.S. LITTLE & CO., ROCHESTER, N. Y. WHEN WRITING MENTION THE FLORIST'S EXCHANGE

AMERICAN BEAUTY PLANTS.

See next week's issue for prices, or write to JOHN BURTON, Chestnut Hill, Phila., Pa.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

AMERICAN BEAUTY PLANTS.

Strong, Healthy ROSES From 2 1/2 inch pots. AMERICAN BEAUTY, \$5.00 per 100; \$40.00 per 1000
GOLDEN GATE, PERLE BELLE, SIEBRECHT, METEOR, BRIDE, BRIDESMAID, KAISERIN and LA FRANCE, \$3.00 per 100; \$25.00 per 1000. No orders for less than 100 of one variety accepted. We are the largest Rose growers in the United States, and can fill all orders with the very best stock. TESTOUT, \$3.00 per 100; \$25.00 per 1000.

Rose Cuttings, \$1.50 per 100; American Beauty, \$2.50 per 100. CARNATIONS-Rooted Cuttings.

IVORY and DELLA FOX \$3.00 per 100; \$25.00 per 1000. ROSE QUEEN, \$2.50 per 100; \$20.00 per 1000. WM SCOTT, DAYBREAK, NANCY WANKS, TIDAL WAVE, ALBERTINI, PORTIA, LIZZIE GILBERT, CORSAIR, LIZZIE MOODMAN, STORM KING and SILVER SPRAY, \$1.00 per 100; \$8.00 per 1000. No orders for less than 100 of any one variety accepted. Special Prices on large lots. The above stock is well rooted and free from rust. Send orders to 51 WABASH AVE., CHICAGO, ILLS. WHEN WRITING MENTION THE FLORIST'S EXCHANGE

E. G. HILL & CO., Richmond, Ind.

The three new Ramblers in large quantity, at \$10.00 per 100. AGLATA (Golden Rambler); THALIA (White Rambler); EUPHROSYNE (Pink Rambler.) Meteor, Bride, Bridesmaid, Mrs. Morgan, Kaiserin, Belle Siebrecht, and leading forcing Roses, at lowest prices for fine stock. BEDDING ROSES. The very finest sorts of Teas, H. T's, and Polyanthus, \$35.00 per 1000.

Our Celebrated Collection of GERANIUMS. A large stock of S. A. Nutt, Mrs. J. M. Gaar, and other good bedders. Please refer to our trade list. CHRYSANTHEMUMS. Best commercial varieties in quantities for florists' use. Fine dwarf early sorts that require no staking. Plant some Golden Trophy, bright yellow, large, beautiful foliage, fine stem, a pure incurved. Ready to cut October 18th. Bears close planting and needs no tying. Two fine early whites are Barbara Forbes, and Queen of the Earlies. Special prices on quantities for benching.

E. G. HILL & CO., RICHMOND, IND. WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**PANSIES.**

**THE JENNINGS STRAIN OF FINEST AMERICAN GROWN PANSIES** are up to date and sure to please. Fine stocky plants from cold frames in bud and bloom. All large flowering in great variety of colors.  
By express \$2.00 per 100; \$15.00 per pack.  
Seed, \$1.00 a package.  
Cash with order.

**E. B. JENNINGS, Leck Bros' Southport, Conn.**

**BROWER OF THE FINEST PANSIES.**  
WHEN WRITING MENTION THE FLORIST'S EXCHANGE

- |     |   |        |
|-----|---|--------|
| 100 | Geraniums, fine 4th, pots, all colors, mixed. | \$8.00 |
| 100 | Hollyhocks, 1st class, 2 1/2 inch pots.       | 3.00   |
| 100 | Giant Double Alyssum, 2 in. pots.             | 2.00   |
| 100 | La France, 1st class, 3 in. pots.             | 3.00   |
| 100 | Celeste, 30 varieties, 2 in. pots.            | 3.00   |
| 100 | La France, mixed, 3 in. pots.                 | 3.00   |
| 100 | Fuchsia, mixed, 3 in. pots.                   | 3.00   |
| 100 | Grevillea Robusta, fine, 3 in. pots.          | 3.00   |
| 100 | Pansies from cold frames in bud and bloom.    | 4.00   |

**GEORGE L. MILLER, Newark, Ohio.**

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**WATER LILIES and AQUATICS.**

**WE ARE GROWERS.**  
Stock fresh and reliable. Prices rock bottom. Catalogue free.  
**GEORGE B. MOULDER, - - - Lily Park, Smith's Grove, Ky.**

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**BOUND VOLUMES OF THE FLORIST'S EXCHANGE.**

We have now on hand copies of **Volume VIII**, (1896), handsomely bound in library style, morocco, back and corners.

**PRICE, PREPAID, \$3.00.**  
An allowance of two cents per copy will be made for all numbers returned in good condition. A review of the index of Volume VIII should satisfy every subscriber of the advantage of preserving his copies.

Other bound volumes also on hand.  
**THE FLORIST'S EXCHANGE, P. O. Box 1697, New York.**

**COLLEGE STOCK**

- |         |   |        |
|---------|---|--------|
| Per 100 | Achyranthes.                              |        |
|         | Gilsonii, 2 1/2 inch pots.                | \$3.00 |
|         | Lindleyi, 2 1/2 inch pots.                | 3.00   |
|         | Aurea Reticulata, 2 1/2 inch pots.        | 3.00   |
|         | " " assorted, rooted cuttings.            | 1.50   |
|         | Ageratum.                                 |        |
|         | Cope's Pet; dwarf blue, 2 1/2 inch pots.  | 2.50   |
|         | " " rooted cuttings.                      | .75    |
|         | Alternanthera (from flats).               |        |
|         | Amabilis.                                 | 2.00   |
|         | Aurea Nana.                               | 2.00   |
|         | P. Major.                                 | 2.00   |
|         | Alyssum.                                  |        |
|         | Tom Thumb, double, very strong.           | 3.00   |
|         | Giant, very strong.                       | 3.00   |
|         | Begonia, good, assorted, 2 1/2 inch pots. | 4.00   |
|         | " " Varneoi, 2 1/2 inch pots.             | 3.50   |
|         | Cannas.                                   |        |
|         | Alphonse Bouvier, 3 inch pots.            | 4.00   |
|         | Charles Henderson, 3 inch pots.           | 3.50   |
|         | Explorer Crampel, 3 inch pots.            | 4.50   |
|         | Madame Crozy, 3 inch pots.                | 3.50   |
|         | Miss Sarah Hill, 3 inch pots.             | 5.00   |
|         | Queen Charlotte, 3 inch pots.             | 10.00  |

Our selection of the above varieties, \$4.50 per 100.

- |          |   |  |
|----------|---|--|
| Per Doz. | Newer Varieties.                        |  |
| \$2.50   | Admiral Avellan, 3 inch pots.           |  |
| \$2.50   | Comte de Bouchard, 3 inch pots.         |  |
| \$3.50   | Columbia, 3 inch pots.                  |  |
| 2.00     | Ehemanni, 3 inch pots.                  |  |
| 1.50     | Helen Gould, 3 inch pots.               |  |
| 2.00     | P. B. Pierson, 3 inch pots.             |  |
| 2.50     | Mme. Montefiore 3 inch pots.            |  |
| 3.50     | Mme. Charles Molin, 3 inch pots.        |  |
| 2.50     | Mme. Alphonse Bouvier, 3 inch pots.     |  |
| 2.00     | Orifio, 3 inch pots.                    |  |
| 3.50     | Professor, 3 inch pots.                 |  |
| 1.50     | Souvenir de Antoine Crozy, 3 inch pots. |  |
| 2.00     | Sunsains, 3 inch pots.                  |  |
| 3.00     | Suzanne, 3 inch pots.                   |  |
| 3.50     | Van der Berg, 3 inch pots.              |  |

Our selection of the above newer varieties, \$2.50 per doz., \$18.00 per 100

- |         |   |  |
|---------|---|--|
| Per 100 | Chrysanthemums.   |  |
| \$3.00  | A very fine assortment, 2 1/2 inch pots.  |  |
| 4.00    | Frutescens, Paris Daisy, 2 1/2 inch pots.   |  |
| 8.00    | " Halleri Aurea, the new yellow Paris Daisy, the best yellow for Winter and Summer blooming in cultivation. \$1.00 per doz. |  |
| 6.00    | Chenostoma Hispidia, 2 1/2 inch pots. Valuable for rockwork borders, etc., pretty white flowers.                            |  |
| 6.00    | Coleus, 10 leading varieties, 2 1/2 inch pots.  |  |
| 1.00    | " " Rooted cuttings, extra strong, \$7.50 per 1,000. \$2.00 per 1,000 in lots of 5,000 and over.                            |  |
| 1.00    | Echeveria.  |  |
| 5.00    | Secunda Glauca, from flats.   |  |
| 6.00    | Farfugium Grande 3 inch pots.   |  |

**TRADE LIST FREE ON APPLICATION.**  
Cash with order from unknown customers or C. O. D. Orders amounting to \$5.00 and over, F. O. B., N. Y. City.

- |          |  |  |
|----------|--|--|
| Per Doz. | Dracena Indivisa.  |  |
| \$4.00   | 6 inch pots.   |  |
| 3.00     | 5 inch pots.   |  |
| Per 100  | Fuchsias.  |  |
| \$2.05   | Strong plants from 2 1/2 inch pots, very fine.                                     |  |
| 4.00     | 5000 Bruant, 3 inch.   |  |
| 4.00     | 5000 General Grant, 3 inch pots.   |  |
| 4.00     | 3000 La Favorite and Celesti, 3 inch pots.   |  |
| 4.00     | 5000 in the 40 best new and old varieties, our selection, 3 inch pots.             |  |
| 4.50     | 3000 Ivy Geraniums, 3 inch pots.   |  |
| 6.00     | Glechoma Hederacea var. 2 1/2 inch pots.   |  |
| 15.00    | Grevillea robusta, 4 inch pots, very strong.                                       |  |
| 2.50     | Hellebore.   |  |
| 6.00     | " " 4 1/2 inch pots, very strong.  |  |
| 3.00     | Hedera.  |  |
| Per Doz. | Helix (English Ivy).   |  |
| \$2.00   | Imported Varieties.  |  |
| \$2.00   | Clouded Gold, small leaves with golden markings.                                   |  |
| 3.00     | Donnerailensis, white veining in leaves, leaves deeply cut.                        |  |
| 2.00     | Marmorata Elegans, leaves very small, blotched with white, light green a gem.      |  |
| 2.00     | Himalica, foliage small, light green with glaucous veining.                        |  |
| 2.00     | Elliptica Argentea, small leaves, with white edges.                                |  |
| 2.00     | Raguariana, large heart-shaped leaves, of dark green color.                        |  |
| Per 100  | Ivy, German.   |  |
| \$2.50   | Strong, 2 1/2 inch pots.   |  |
| 1.25     | Rooted Cuttings.   |  |
| 4.00     | Moon Vines (the true Calonyction).   |  |
| 5.00     | Nice plants from 2 1/2 inch pots.  |  |
| 5.00     | Rooted cuttings.   |  |
| 5.00     | Maranta Massangana, 2 1/2 inch pots.   |  |
| Each     | Musa Ensete.   |  |
| \$2.00   | Large plants, 10 inch pots, 4 to 5 feet high, 4 to 8 leaves, fine specimen plants. |  |
| 75       | Nice plants from 5 and 6 inch pots, 15 to 30 inches high, 4 to 8 leaves.           |  |
| Per 100  | Pilea Serpyllifolia.   |  |
| \$3.00   | Phlox.   |  |
| 3.00     | Hardy, from open ground.   |  |
| 3.00     | N. B.—In 12 distinct colors.   |  |
| 2.50     | Salvia.  |  |
| 2.50     | Nana Compacta or Bonfire, nice plants from 2 1/2 inch pots.                        |  |
| 5.00     | Sibthorpiana Europaea.   |  |
| 5.00     | Small clumps.  |  |
| 4.00     | Vinca.   |  |
| 4.00     | Rosea, 2 1/2 inch pots. Madagascar Periwinkle.                                     |  |
| 4.00     | " " Alba, 2 1/2 inch pots.   |  |
| 4.00     | " " Puria, 2 1/2 inch pots, Madagascar.  |  |
| 4.00     | Periwinkle.  |  |
| 3.50     | Major, 2 1/2 inch pots, fine for vases.  |  |
| 5.50     | " " elegantissima, 2 1/2 inch pots.  |  |

There is no improvement to report this week; markets are even worse than last. Roses are coming in more plentifully, and this has caused a slump in that particular stock, very few figures being the rule. In fact, there is no such thing as a fixed price in any grade; \$15 per 100 was taken in many cases for straight slips, and but few exceeded \$20. No. 1 when sold straight, we can consider well sold at that figure. Beauty, proportionately, suffered the worst of all, for many special and fancy blooms failed to meet with purchases. Hybrids frequently realized street vendors' prices, this being the only class of their kind to meet with any quantity of stock; the trade was entirely at their mercy.

Geraniums, which have been doing fairly well, weakened on Thursday.

Edenian stock will kindly be in oversupply; but it is vainly that feels the depression most, none making more than \$2.00 per 100. The prices of the very handsome had at figures between \$5 and \$15 per 1,000.

It does not pay to ship magnolias at current figures. Smilax is getting very scarce, and the price is stiffening, special stock selling at between \$30c. and \$5c. per string.

**Easter Outlook.**

The plant trade, so far, is good, and orders for spring plants are being made. Orders are holding out for 12c. a bloom on Lilium longiflorum, and 10c. on L. Harriisi. There will be a little trouble in keeping stock back till Easter.

**The News.**

RALPH N. HAYDEN, who for some time has been with W. S. ALLEN, passed his military examination satisfactorily, and received his appointment recently; he will be West Point, June 15.

JAMES DEAN, Bay Ridge, received notification of his appointment as a judge at the International Convention in Hamburg, and he has had to decline the honor, owing to press of outside matters.

The auction sales were better attended this week than last. There has been more brisk. Spring stock is coming in now, in addition to roses and nursery stock.

**Utica, N. Y.**

Business has been rather quiet lately. The prospects for Easter are good. Flowers of all kinds will probably be in fair supply.

C. F. BAKER has been quite sick for several weeks, but is getting stronger now. His three new plants—Hamburg, a splendid scarlet, Oneida a beautiful pure white, and Utica, a grand white, are looking fine; the first two they will put on the market the coming season.

H. H. TREMPER has also been under the weather lately, but is attending to business again.

WM. MATTHEWS says the demand for outside plants is increasing.

S. W. WRITTON & SON have shipped a great many azaleas as a result of their advertisement in the Exchange. They have a large house full of Harriisi, stocky and in just right condition for Easter.

J. S. H.

Madison, N. J.

Two of the new houses at the Farm Greenhouses on the McK. Township estate, are to be filled with ornamental orchids; other new houses in the same range will be devoted to choice fruit and vegetables. A. Herrington, the asperinidensis, says he will leave roses and carnations alone.

**SEA BATHYKA GREEN HOUSES OYSTER BAY, QUEENS CO., N. Y.**

JAS. C. CLARK, Supt. P. O. BOX 34. WM. L. SWAN, Prop.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

THE "MODEL."

THE "MODEL" CARNATION SUPPORT

32 SO. SIXTH STREET,

Brooklyn, N. Y., March, 1897.

TO THE FLORISTS' TRADE

I have been congratulated by many of the best growers here on the perfection to which I have brought the "Model" Support, and claim superiority over all other supports now in use in every important particular, viz., in its combined action, giving perfect support, it affords the greatest light and best circulation of air, consequently the best results; the greatest strength, with the least weight; the most durable, being doubly galvanized below the soil; the firmest anchor; is adjustable, being easily and quickly raised as the plant grows and needs additional support, thus **saving time and injury** to plants by the tucking-in process; is set complete, at once, as soon as the plant requires it, or as soon as planted, saving going over a second time to place the second support; **it nests without tangling** in one-quarter the space required by others—an item in shipping or storing; and the third circle (extra), for tall varieties, is quickly attached, firm in its hold and easily raised, as the plants require it, to the full height of the support.

The model will please and interest you. It is **new**. Growers wishing for the best would do well to get a sample hundred and give them a trial this season, should not the accompanying statements sent me in writing by such practical men be convincing of its merits. Order early and avoid delay caused by rush of orders at planting season. Correspondence solicited.

ATHERON PARKER.



QUEEN, N. Y., Feb. 18, '97.  
MR. THERON PARKER, Brooklyn, N. Y.—I have received your latest model carnation support, and am free to say that I consider it the best ever contrived for support that I have ever seen. It is quickly and easily applied, and I think will prove very durable, and you certainly deserve great credit for the invention. Very truly yours,  
C. W. WARD.

FLATBUSH, BROOKLYN, N. Y., Feb. 18, '97.  
MR. THERON PARKER, Dear Sir—Your new stake is exactly what I needed. I am so glad to know you endorse it as an article so necessary for the florist. Yours truly,  
D. M. BROOKS.

W. HOSKINS, N. J., Feb. 18, '97.  
MR. THERON PARKER, Dear Sir—It gives me much pleasure to congratulate you upon your success in getting out carnation supports. I think that those I have had from you are about the perfect article. They certainly fill my bill for a double support, a thing I have been looking for a long time. Wishing you every success in the sale of them, I am,  
Yours truly, E. ASHBY.

THERON PARKER,

32 So. Sixth St., BROOKLYN, N. Y.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WANTED Hardy Roses

the trade to know that we are still in line with the best plants and rooted cuttings of the following, and can give you prices that will please you.

YES, SURPRISE YOU.

- CHRYSANTHEMUMS.—Pink Ivory, Queen, M.J. Bonington, Free, W. H. Smith, ABUTILON Souv. De Bonn.
- CARNATION.—Lizzie McGowan.
- GERANIUMS in best variety.
- DRACENA INDIVISA.

Write, stating what you want, and get prices that are cheaper than you can raise them for.

CASH, OR C. O. D.

H. L. RAGAN,

193 Greenwich Street,

Box 166, Springfield, Ohio.

NEW YORK.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

THE two leading strawberry for 1897, **Carrie** and **Earliest**. The above two strawberry are the finest new varieties ever set out, and no Nurseryman, Seedman or Florist should neglect to plant them as leaders for 1897. The price to the trade is \$2.00 per doz. \$12.00 per 100, with 25 per cent. off, cash with order, to the trade only. The New York Experimental Station's report for 1896 shows that 85 per cent. of the crop of **Earliest** was picked before June 15, and it is the first one mentioned as being worthy of trial as the very earliest.

**Carrie**, the queen of strawberries, a seedling of Haviland, a success from Canada to Texas. Ohio Experiment Station recommended it over all others because it is larger, firmer, better color, etc., than the parent.

If you want anything in strawberries, send for our wholesale price list, 25c off to the trade on all varieties. Finest collection in the United States at rock bottom prices. No finer plants grown.



2000 Maxwell B B, \$10.00 per 100. Large red one Rio, Lady Thompson, Tennessee, Isabella, only \$2.00 per 100, 25c off, cash with order. 2000 Carnies not red color, \$1.50 per 100. \$15.00 a 1000

THOMPSON'S SONS, Rio Vista, Va.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

...VOTING COUPON...

The fact that the Dingley bill has passed the House does not make it law; it still has to pass the Senate, and your voice has ample opportunity to be heard.

The discussion being closed, a vote is now in order, and we would like to have an expression of opinion from every reader interested. On the 13th of April the votes will be tabulated, and sent to Washington.

Fill out this Ballot by writing in the word "For" or "Against" opposite each paragraph, sign your name and address in full, and return at once to Editor FLORISTS' EXCHANGE.

PROPOSED NEW TARIFF RATES.

For or Against

- 251—Stocks, cuttings or seedlings of **Nyrobalan plum**, Mahaleb or Mazzard cherry, three years old or less, \$1.00 per thousand plants; stocks, cuttings, or seedlings of pear, apple, quince, and the St. Julien plum, three years old or less, \$1.75 per thousand plants; **rose plants, budded, grafted, or grown on their own roots**, 3 cents each; **stocks, cuttings and seedlings of all fruit and ornamental trees, deciduous and evergreen, shrubs, and vines, manetti, multiflora, and briar rose, and all trees, shrubs, plants and vines commonly known as nursery stock**, unless otherwise specified, 30 per cent. ad valorem.
- 253—Practically all **Vegetable Seeds**, 40 per centum ad valorem.
- 630—All **Flower and Grass Seeds** Free.

NAME  
ADDRESS

WHERE DO YOU HAVE YOUR CATALOGUES PRINTED ?

THE publishers and proprietors of THE FLORIST'S EXCHANGE and AMERICAN GARDENING possess one of the largest and most modern plants in the country for the manufacture of Horticultural Catalogues. Their men are specially trained to the work; their prices are very moderate, and estimates will be promptly forwarded on application. First come, first served.

The illustration of Novelties in Color a Specialty. Our process equals lithography in effect; surpasses it in detail, and is much cheaper.

Address, A. T. DE LA MARE PTG. & PUB. CO., Ltd., 2, 4, 6 and 8 Duane St. (P. O. Box 1697), New York.



# ROSES! ROSES!!

**STRONG FIELD-GROWN DORMANT PLANTS.**

Large stock Gen. Jacqueminot, Paul Neyron, Ulrich Brunner, Magna Charta, Harross Rothchild, and other leading varieties of Hybrid Perpetuals, \$9.00 per 100; \$30.00 per 1000.

**MOSS ROSES** in the ten best sorts, \$9.00 per 100. **CLIMBING ROSES**, Baltimore Belle, Prairie Queen, Tennessee Belle, and Seven Sisters, strong, 2 years, \$6.00 per 100.

Wichuriana (Memorial Rose) field-grown, \$5.00 per 100.

**CANNAS.** New Giant Flowering AUSTRIA, strong, 4 in. pot plants, \$5.00 per doz.; \$20 per 100. A large stock of the cream of the older varieties, such as Florence Vaughan, Queen Charlotte, Eldorado, Sunbeam, Alphonse Beauver, Charles Henderson, President Carnot, President Carnot, Admiral Avelan, Edward Mieg, etc. Do not fail to get our prices before buying.

**CALADIUM ESCULENTUM.** Sound bulbs with good centers, 7 1/2 to 10 in., \$3 per 100. 6 to 7 1/2 in., \$3 per 100. 5 to 6 in., \$2 per 100.

**BEGONIA PURITY.** A new pure white of the semperpariens type, very fine flowering, \$2 per doz.

**CERANIUMS.** Strong 2 1/2 in. pot plants, large stock of S. A. Nutt, Marvel, Heteranthe, La Favorite, and other best bedding sorts, \$25 per 100.

Immense stock of Fruit Trees, Nut Bearing Trees, Grape Vines, and Small Fruits, one of the largest, if not the largest, assortment of Ornamental Trees and Shrubs, Climbing Vines, Bulbs, Hardy Perennials, etc., in America. And 32 greenhouses filled with what the average florist is most likely to want. Correspondence solicited. Catalogues and trade lists free.

# ...NEW ROSE...

## SOUV. DU PRESIDENT CARNOT

Strong, healthy plants, from 2 1/2 inch pots, \$15 per 100; \$125 per 1000. Ready now.

### AMERICAN BEAUTY ROSES.

We have this year an exceptionally fine stock of AMERICAN BEAUTY ROSES, in 2 1/2 inch pots, ready now to shift into 3 inch. \$6.00 per 100; \$50.00 per 1000.

### ULRICH BRUNNER ROSES.

Extra strong, from 2 1/2 inch pots, rooted from hard wooded cuttings. This stock is gilt-edged, either for growing in the greenhouse for forcing, or for planting in the open ground. \$4.00 per 100; \$35.00 per 1000.

### NEW BEDDING ROSE MOSELLA.

This grand new Rose will be as popular as Clothilde Souperet. It is always in bloom, and produces medium sized double flowers of a creamy white color, shading to apricot yellow in the center. We have a splendid stock, and have reduced our price. Strong plants, from 2 1/2 inch pots, \$5.00 per 100; \$40.00 per 1000. Strong plants, from 4 and 5 inch pots, \$3.00 and \$4.00 per dozen, according to size.

### TWO YEAR OLD ROSES.

From 5 inch pots, Augusta Victoria, Mme. Kruger, Hermosa, Pink Souperet, Clothilde Souperet, Caroline Marinasse, strong plants, for Spring sales, \$30.00 per 100.

Souv. Du President Carnot, 5 inch pots, strong, \$35.00 per 100. American Beauty, Mme. Cochet, Maman C. Testout, Belle Siebrecht, 5 inch pots, strong, \$25.00 per 100.

### WE HAVE A SPLENDID STOCK OF WINTER FORCING ROSES.

Ref. re placing your order, send in your list for prices. Address

## ROBERT SCOTT & SON,

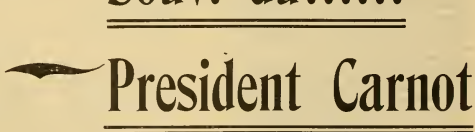
19th and Catharine Sts., Phila., Pa.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

### NEW HYBRID TEA ROSE

## Souv. du.....

# President Carnot



### ADMIRED BY EVERYBODY.

Of beautiful shell pink color. Nothing like it among forcing roses. Every one should plant it both for in and out-of-door culture. Strong, healthy plants, in order of 2 1/2 inch pots, ready now.

Price, \$3.00 Per Doz.; \$15.00 Per 100; \$125.00 Per 1000.

50 at 100 Rates. 500 at 1000 Rates.

\$20.00 per 100 out of 3 inch Pots.

## ERNST G. ASMUS, West Hoboken, N. J.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

### THE STORRS & HARRISON CO., Painesville, Ohio.

#### SMILAX FOR EASTER

Five large strings, only 15c. per string. Get in your orders early. Cash with order.

A. J. HALDWIN, Newark, Ohio.

#### 8000 ROSA RUGOSA 8000

Five plants 3 ft. high, \$10.00 per 100. \$80.00 per 1000.

2000 Hypericum Moserianum, \$5.00 per 100.

#### NEWPORT NURSERY CO., Newport, R. I.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

### DORMANT ROSES—Own Roots.

FIELD-GROWN 2 feet H. H. and Mosses, cut back to 14 to 18 inches, \$4.00 per 100; \$40 per 1000. Moss Plants and 3 1/2 inch climber, cut back to 30 to 36 in., \$30.00 per 100; \$300 per 1000. 1 1/2 in. to 2 1/2 in. of the following varieties: John Hoppe, La. Louis, Baron de Schwallen, Gen. J. G. Magna Charta, Plumer Homage, Helen, J. Eckard, St. Charles, Paul Neron, Baron Frederic, G. de Marnes, Jules Marceau, Baron Frederic, G. de Marnes, Blanche, Blanche Robert, Henry Martin, G. de Marnes, Sable, Mme. Albert, Marie Plancher, Hall, Stella, Queen of Prussia, Gen. of Prussia, Seven Sisters. Green by Herries-Breit Nursery Co. Mass. Miss; now in cold storage, for sale at Concord Mass.

W. F. BEKKEK, War., Council Bluffs, Iowa.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

### A FEW THOUSAND MORE

## Brides, Maids and Perles

than I shall need for my own use. Grand plants in 2 1/2 inch pots, at \$5.00 per 100. Who wants them?

CASH WITH ORDER.

### BENJAMIN DORRANCE, Detroit, Mich.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

### ROSES

From 2 1/2 in. pots, strong and in excellent shape, \$2.50 per 100, \$20.00 per 1000.

Bride, Heteranthe, Mrs. Webster, M. N. N. Marie Gouffier, Mrs. Washington, Louisie, Grand Chantier, La Favorite, Hamblet and Clothilde Souperet.

**EMPERORS OF CHINA.**—The new everbearing double pink Climbing Rose, grows as rapidly as a Morning glory; blooms to become popular, \$3.00 per 100, \$25.00 per 1000.

### CERANIUMS...

The very best varieties, strong plants, from 2 1/2 in. pots, ready to shift in to the \$2.00 per 100; \$20 per 1000. Heteranthe, Le Plozet, Jas. Y. Merkleand, Grand Chantier, La Favorite, Mrs. Chas. Pease, California.

Our New Greenhouse Plants, Larkspur A. Darle—Bound to take the place of Heteranthe and other common plants, but in show it has all the good qualities that go to make up the ideal Bedding Queen. \$2.00 per 100; \$20.00 per 1000.

J. A. DOYLE, - Springfield, Ohio.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

Sterling American Novelty, the

## WHITE COCHET

Is a sport from Maman Cochet, which is considered to be the best pink out-of-door rose. It has all the good qualities of the parent; its color is pure white and no doubt it will prove the best white out-of-door rose up to date.

Price, per dozen, from 4 inch, \$5.00, " 100, " 4 " 25.00

All Orders Must be Accompanied with Cash.

J. COOK 318 CHARLES ST. Baltimore, Md.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

## American Beauties

I have a few thousand more than I need for my own use.

Clean, fine stock, 2 1/2 inch pots, \$7.00 per 100, cash with order, packed and delivered to R. R.

## JOSEPH BRADBURY,

South Orange, N. J.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

## ROSES!

Strong, healthy plants from 2 inch pots, \$3.00 per 100; in orders for 1000 assorties, \$25.00. Perle, Sunset, Wootton, Niphete, Gouffier, Pink and White de France, Alphonse Bredan, Hildebrand, Belle Siebrecht, Perpetue Morgan, American Beauty and Mme. Testout, \$5.00 per 100.

### CARNATIONS.

From 2 inch pots, \$2.00 per 100; \$15.00 per 1000. Wm. Scott, Midway, Fred. Turner, E. G. Hill, Fortia, Tidal Wave, Edna Craig, Daybreak, Emily Plerson, Helen Keller, Rose Queen, Alaska, Mrs. Fisher and Lizzie Gillette.

### VERBENAS.

Extra strong, healthy plants, good assortment, \$3.00 per 100; \$25.00 per 1000.

### ISMENE GALANTINA.

White Amaryllis, among bulbous plants, \$2.50 per dozen; \$15.00 per 100. 2 1/2 inch Irish Juniper, 15 to 20 inches, for transplanting, \$4.00 Irish Juniper, 5 to 6 inches, for transplanting.

Free and Sample in Application. Address

JOSEPH HEINL, Jackson, Ill.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

## Philadelphia.

## Easter Plants.

From present indications all kinds of stock will be in good condition for Easter trade. Several lots of lilies and azaleas are heard of that cannot be held here to a good many buyers, so that stock in proper condition will be liable to a good market. There are some lilies around, but when diseased stock and those too far advanced are counted out, the support for Easter will assuredly be as good as formerly. All things now look promising for the growers. On account of the prospect of good weather, the liability of many plants being on the street, the stores are ordering more cautiously. Another reason for this is that several of the large department stores have placed orders for Easter plants; in fact, they are now taking orders for plants for delivery before Easter. One store has ordered 1000 plants of hyacinths; they will be given away to those making purchases above a certain amount on Saturday, April 17. Another store is now selling lilies at 50c. per plant, with jardiniere \$1, and hyacinths at 25c. jardiniere included.

Vasemaker is selling dormant roses again at \$1.25 per dozen; 50,000 were sold last year, and he will sell all he can get this year, so the advertisement reads. These are from Holland.

## Market Notes.

All kinds of flowers have been very plentiful this past week, and prices are down; it is a case of get what you can. On Monday and Tuesday the fakers were selling good Bridemaid and Bride at 3c. each. Hybrid roses are very plentiful, owing to the bright weather; many intended for Easter are now coming in.

Carnations are faring rather better; they are not such a glut, and good flowers have sold fairly well. Fancy stock has brought \$3 to \$3.50, while the general run has sold at \$2.00.

Violets continue to be very plentiful, the price ranging from 20c. to 50c. per 100 for double. S. S. Penneck received 110,000 of these last week, so the condition of the market can well be imagined. Bulbous stock continues very plentiful, and goes rather slow.

Mignonette has been a glut the past few days, there being very little now to be had up. Smilax is selling very well; only fair strings bring 30c.

W. C. Smith is cutting some very good sweet peas, which go at \$1.50 to \$2 per 100. The seed was sown in pots in August, and plants set out on benches after the grandmas. The peas have been found to pay very well, flowers having been cut now for the past five weeks.

## Growers.

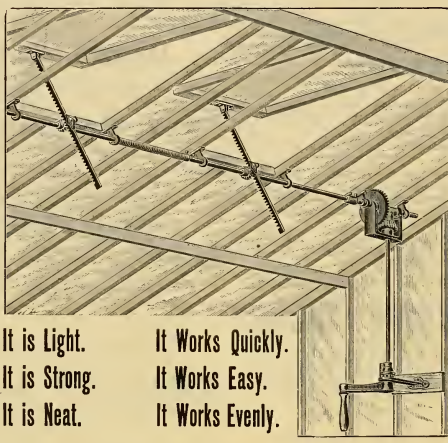
At the establishment of HUGH GRAMM a disastrous fire occurred on Thursday evening, March 25. It broke out in a room used for storing tobacco stems, stalks, etc. The origin of the fire is a mystery. The damage was confined to a large potting and packing shed, and the ends of three houses, and will amount to about \$1,000—insurance \$200.

A new rose house,  $\frac{3}{4}$  span, 15x150 ft. is now being built. The house has large glass (an old type of house with a large eash roof), is being torn down, and in its stead two houses will be built, a full span for asparagus and a  $\frac{3}{4}$  span for roses.

Easter stock is in splendid condition, the plants being well equipped in small houses, back of the ranges of rose houses, the former having northern exposure. The stock to be brought in as was the case with lilies and spruces are doing well; about 400 a day are now being cut. A similar house plants in good shape for Easter. The new carnation, Victor, is still blooming freely, 25,000 plants have already been sent out. Day lilies are also being done very well here. In one of the small pits in front of a rose house, one of the plants for Easter will be a batch of the bottle brush plant, metrosideros.

CHRISTIAN KOEHLER, Second av. and Wynton av., also had a fire on the end of last week, doing about \$500 damage.

JACOB BECKER, as usual, has a good healthy lot of Easter plants. Azaleas are done very well in potting. These peas is no longer a necessity, good leaf mold being used and answering just as well. Lilies and spruces are also in good shape. But most interesting on this place are the string roses. Several benches were noticed by Goutier, Peris, and La France. These roses were flowered all Winter, taken up about March and potted in 5-inch pots. They are now rooting freely, and will be in good shape for Decoration Day. A batch of Goutier was noticed that were left over from last year in 2 $\frac{1}{2}$  pots; these were carried in cold frames till Feb. then potted in 4-inch pots, and will give plants full of buds for Easter, selling at

ORMSBY VENTILATING SYSTEM  
BALANCED

It is Light. It Works Quickly.  
It is Strong. It Works Easy.  
It is Neat. It Works Evenly.

## IT HAS NO EQUAL.

It accomplishes when all others fail.

It is no new-born babe.

It's about eight years old.

Its first teeth have decayed.

Its new ones have come.

It's a little giant indeed.

It looks light and delicate.

It deceives you in that idea.

Its shadow cast is mere nought.

It requires oil like any machine.

It's put in your house by experts.

It's insured for five long years.

It costs more than any other.

It's the cheapest in the end.

It was born of poor parents.

It had to struggle for a life.

It fought its battle on its merits.

It came out victorious, and

It's here to stay, but not in the East.

It's taken Greeley's advice, and is going West.

It's yours, if you want the best.

E. A. ORMSBY, Melrose, Mass.

\$10 per 100. So that it is not always advisable to throw out left over plants. Kaiserin is considered the best rose for Spring sales; this is treated in the same way as the others mentioned above, and is now making vigorous growth in 5-inch pots. A house of Bridemaid has recently been mulched; not having any old manure on hand, fresh cow manure was used. This was covered with fine ashes, when put on, and so harm to the plants has resulted. A batch of Crimson Rambler roses look right for Easter; these are sent and tied down, fan-shaped, and are covered with flowering shoots. Azaleas left over from last year, which were planted out in frames, in a compost of two-thirds leaf soil, are far the best plants on the place, much ahead of any imported stock.

The carnation contest between E. G. Hill & Co., and Edward Swayne, was held Friday morning in the Florists' Club rooms, Horticultural Hall, and was won by Mr. Swayne's Jack Frost, the flowers of same being larger and heavier than those of Flora Hill.

DAVID RUST.

## Stationery for Florists.

Every florist in the land should have a complete supply of printed matter wherewith to conduct his business in style. We have the largest outfit in America devoted solely to horticultural printing, and we understand the wants of the trade. Below we quote two combination offers and would be pleased to supply you.

## \$5.00 Combination offer includes....

250 Noteheads, 5 $\frac{1}{2}$ x8 $\frac{1}{2}$  ins.  
250 Envelopes, size 6 $\frac{1}{2}$   
250 Billheads, 7 ins. wide, 5 $\frac{1}{2}$  ins. deep  
250 Business Cards, 2 $\frac{1}{2}$ x4 $\frac{1}{2}$  ins.  
200 Tags, size 2 $\frac{1}{2}$ x4 $\frac{1}{2}$  ins.

Cash with order. Delivered F. O. B., N. Y.

## \$10.00 Combination offer includes....

500 Noteheads, 5 $\frac{1}{2}$ x8 $\frac{1}{2}$  ins.  
500 Envelopes, size 6 $\frac{1}{2}$   
500 Billheads, 7 ins. wide, 5 $\frac{1}{2}$  ins. deep  
500 Monthly Statements, in the 5 $\frac{1}{2}$ x8 $\frac{1}{2}$  ins.  
500 Business Cards, 2 $\frac{1}{2}$ x4 $\frac{1}{2}$  ins.  
200 Tags, 2 $\frac{1}{2}$ x4 $\frac{1}{2}$  ins.  
One Day Book; if these are not wanted  
One Ledger;            subtract \$1.00.

Cash with order. Delivered F. O. B., N. Y.

## PLEASE READ THIS BEFORE YOU ORDER.

Write plainly and send "copy" for each article we quote.

Noteheads will be furnished in smooth writing paper with ruled lines. Linen paper, ruled or unruled, can be had instead if so ordered.

Envelopes are all commercial size and of good quality.

Billheads will be furnished as above, but size 8 $\frac{1}{2}$  ins. wide and 4 $\frac{1}{2}$  ins. deep will be substituted when so ordered.

Cards are of good quality and ample proportions.

Day Book and Ledger are large enough for ordinary purposes. Ledger is indexed and will hold 200 accounts.

Special designs, trade marks, etc., engraved to order, on rose violet, or other flower will be printed on your letterheads and billheads if you so order.

The quality of all the above work is guaranteed.

We can forward any of these combination offers with advantage to the purchaser, but it will not pay from a distance to order a single item on account of the express charges.

Address all orders to

A. T. DE LA MARE PTC. AND PUB. CO. Ltd.  
P. O. Box 1697, New York.



**VIOLETS.** Clumps or Runners. All Stock, Clean, and no disease. M. Louise, \$2.00. California Runners, \$5.00 per 1000. Cash with order only. S. BAITSON, Kalamazoo, Mich. WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**NEW PINK VIOLET.**  
MRS. J. J. ASTOR.  
Similar to form and color of Marie Louise, but more vigorous stems longer. Flowers larger; a decided acquisition. Orders booked now and filled in relation after May 1st. Stock limited. Price \$2.00 per doz.; \$10.00 per 100. Cash with order. S. BAITSON, Kalamazoo, Mich. Stock cuttings, Al, \$10.00 per 1000. Now ready. GEORGE SALTFOOT, Rhinebeck, N. Y. WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**West Islip Greenhouses.**  
Marie Louise Violets, Rooted Runners  
\$1.00 per 1000, cash with order.  
E. B. SUTTON, Jr.,  
P. O. Address, Babylon, L. I., N. Y.  
WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**VIOLETS**  
Rooted Runners Ready April 15th.  
1000 1000  
10,000 Luxurans, each \$2.00 \$13.00  
10,000 California, each \$2.00 \$13.00  
10,000 Lady Campbell, each \$2.00 \$13.00  
10,000 Little Blue, each \$2.00 \$13.00  
5,000 Sw. rule White, each \$2.00 \$13.00  
Cash with order. Must be sold at once.  
SAM'L MARKS, Burlington, N. J.  
WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**Marie Louise Violets.** ROOTED RUNNERS. \$4.00 per 1000.  
Positively no more for sale before Easter. Picked in October, 70,000; November, 120,000; December, 120,000; January, 130,000; February, 150,000; March, 300,000; can be produced by no commission men; grand total, 1,000,000 flowers. Cash with order.  
GEORGE T. SCHUMEMAN, Blue Point, N. Y.  
Largest grower of Marie Louise Violets in the world. Winner of the largest prizes ever offered for violets. Read the following of the many letters I get every day.  
M. Louise, Blue Point, N. Y., March 26, 1897.  
Dear Sir:—Received my Violet Runners this morning in excellent condition, have you any more of them, if you have, please let me know at once and how many you can spare. I can spare (three thousand) more if you can spare them, if you are as good as you sent before, I will hear from you in a few days.  
Yours respectfully, JASPER McWILLIEN.  
WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**Farquhar Violet.**  
From 3/4 inch pots. Best established stock in the market. \$3.00 per 100; \$28.00 per 1000. Send 10 cents for sample. Cash with order.  
**NEW CANNA COLUMBUS.**  
The finest yellow Canna yet introduced; a strong vigorous grower, bright green, glossy foliage. Height, 3 1/2 feet; color, rich orange yellow, faintly dotted with red; flowers parrot-like, compact, sizes of Madame Cerise. Strata plants, out 4 inch pots, \$1.50 per dozen; \$12.00 per 100. Cash with order.  
**CLIAS.** \$7.00 per 100.  
30 Oswego Street, Utica, N. Y.  
WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**VIOLET GLUMPS**  
MARIO LOUISE. Per 100, \$3.00.  
**ROOTED CUTTINGS**  
Per 100 for 200  
GERANIUMS, Double White, Pink and Red, \$15.00 2 00  
GERANIUMS, mixed, Mme. Sallier, 1000  
Lemon Verbena, 1000  
Var. Nevada, 12 50 1 50  
MRS. J. J. ASTOR'S GERANIUM,  
REX BEGONIA, 2 00  
STYLIANTHUS, double, 15 00 2 00  
ALTERNANTHERA, 5 00  
SWEET ALYSIUM, double, 1 00  
VERBENA, Mammoth, 1000  
CARNATIONS, 10 00 1 25  
COLEUS, separate varieties, 7 50 1 00  
mixed, 10 00  
SNOEWEST DAISY, CYPERUS  
L. PENIFOLIUS, 2 00  
ROSE, Nermer, Bride, Wootton,  
L. B. 2 00  
TRAILING QUEEN FUCHSIA, 2 00  
VINCA VARIEGATA, \$2.00, \$4.00, \$5.00, per 100  
Write for prices on other rooted cuttings. Stock true to name and extra care in selecting.  
Terms, Cash or O. D.  
GREENE & UNDERHILL, Watertown, N. Y.  
WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**100,000 VERBENAS.** THE CHOICEST VARIETIES IN CULTIVATION.  
Fine pal plants, \$2.50 per 100; \$20 per 1000. Rooted Cuttings, 75c. per 100; \$6.00 per 1000. \$5.00 per 10,000.

**\* NO RUST OR MILDREW \***  
Packed light and satisfaction guaranteed. Send for circular.  
We are the largest growers of Verbenas in the country. Our plants cannot be surpassed.  
..... J. L. DILLON, Bloomsburg, Pa.  
Mention paper.

**14 DAYS ONLY**

1000 Robin Hood, 187. Light Scarlet Carnations, 3 inch bloom, try a few.....\$3.00 per 100  
Wm. Scott, Judd Wray, Puritan and Lizzie McCarroll..... 75 "  
ASTERS, Perfection, Victoria, Simplex and Mixed..... 50 "  
COLEUS, Choice Mixed, strong 2 1/2 inch, lots of dark varieties if wanted, all at..... 5 00  
5000 4 inch Geraniums, Fine Mixed..... 5 00  
2000 3 inch Geraniums, Fine Mixed..... 2 50  
The above is the stock, can ship by freight or express. Cash or C. O. D.

**MORRIS FLORAL COMPANY, MORRIS, ILL.**  
WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**New Single Violet.**  
"PRINCESS OF WALES."  
The best of all the new SINGLE VIOLETS. We have grown it for three years and find it the most productive, holds fragrance longer, longer stem, better growth, and as a "seller over the counter" it is equal by none. We have fine stock in 2 in. pots at \$1.00 per dozen, or \$5.00 per 100.

**JOHN G. HEINL & SON, Terre Haute, Ind.**  
WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**SUPPORT THE VIOLET KING**  
Offer the following varieties of Violets for March delivery. All plants are in perfect health, having been grown in shade, thus insuring perfect health and vigorous growth. Princess of Wales (Princess de Galles), introduced by me from France four years ago. \$1.00 per doz.; \$10.00 per 100.  
Princess Beatrice, new. \$1.00 per doz.; \$7.00 per 100.  
Admiral Aveline, new. \$1.00 per doz.; \$7.00 per 100.  
Luxurans, 75c. per doz.; \$5.00 per 100.  
Pettie Blue, 75c. per doz.; \$5.00 per 100. Also a large stock of older varieties, such as Chamberlain etc. Prices on application. Cash with all orders.

**FRANCIS SUDIPT, 57th St. and Lancaster Ave., PHILADELPHIA, PA.**  
WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**VIOLETS—MY SPECIALTY.**  
ROOED RUNNERS, ALL FROM GOOD PLANTS.

**TWO (2) AMERICAN MEDALS.**

**FIVE (5) FRENCH MEDALS.**



PRINCESS DE GALLES, the queen of single violets. The largest and most fragrant; strong grower and productive. Per 100, \$5.00; per 1000, \$45.00.  
LUXURANS. Per 100, \$1.50; per 1000, \$12.00.  
SEND IN YOUR ORDERS NOW. CASH OR SATISFACTORY REFERENCE.  
**FERD BULLON, Sea Cliff, L. I., N. Y.**  
WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**Buffalo.**  
Market News.  
Flowers, generally, are plentiful and the quality good. The call for nearly all classes the latter part of last week being somewhat unusual, made a demand for all good stock, and Saturday night showed a cleaned up condition of affairs in this respect.

HARMON & BURR, of Stevens, N. Y., occasionally send in a few blooms of their new white carnation, called "Genesee," a cross between Dyrack and Nelson, partaking of the character of both parents. It is highly thought of in this vicinity. It is to be tested in different localities this season, before deciding on sending it out.  
W. J. Palmer, Jr., and Foreman B. Meyers, of Buffalo, are endeavoring to establish, left on Sunday night for a trip to other cities, for the purpose of looking into the features of greenhouse construction in contemplation of an added range of houses, this season.  
Recent visitors: G. Kronvel, representing C. J. Spielman & Sons, bulb growers, Holland; F. L. Atkins, of Fletcher & Manda, Yorkville, N. Y.

Geo. H. Benedict says THE EXCHANGE is the paper to advertise in. He has sold in the past many plants and flowers for Easter. He is growing a fine lot of mshrooms now, for which he finds ready sale. J. S. H.

**Violet & Strawberry Plants**  
VIOLETS, Marie Louise and Gazar, cold in 10 to 12 days in different localities this season, before deciding on sending it out.  
W. J. Palmer, Jr., and Foreman B. Meyers, of Buffalo, are endeavoring to establish, left on Sunday night for a trip to other cities, for the purpose of looking into the features of greenhouse construction in contemplation of an added range of houses, this season.  
Recent visitors: G. Kronvel, representing C. J. Spielman & Sons, bulb growers, Holland; F. L. Atkins, of Fletcher & Manda, Yorkville, N. Y.

**STRAWBERRY PLANTS.** Gandy King, Ruby, Calico, Downing's, Esterling, Triumph and Timbrel, \$3 per 1000. Michel's Early, \$2.50 per 1000. 500 at 100 rate.  
Cash with order.  
E. McNALLY, Anchorage, Ky.  
WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**COLEUS**  
Chimborazo Verschaffeltii, and leading yellow, \$5.00 per 1000; 75c. per 100. Choice assortment, fancy leaved, \$4.00 per 1000.

**PLANTS.**  
Alternanthera, reds and yellow, fall propagation, stocky, \$6.00 per 1000; \$1.00 per 100.  
Geraniums, best doubles, \$1.50 per 100.  
Geraniums, blue and pink, Heliotropes and Scarlet Sage, \$1.00 per 100.  
Verbenas, Mammoth, transplanted seedlings of our own special strain that will produce a very large percentage of finest colors with large white centers. Robust plants, \$4.00 per 1000.  
Pansies, best Giant and fancy mixed, nice little plants from outdoor beds, \$4.00 per 1000. Transplanted from France, \$5.00 per 1000.  
Burgard strain, extra, \$12.00 per 1000.  
100 roses by mail; 1000 rates by express. Terms cash.

**SPECIAL MAIL INCENDMENT.**  
Calena, 30 beautiful fancy leaved, 50c per 100  
Pansies, Giant and fancy mixed, 50c per 100  
Verbenas, Mammoth as described, 50c per 100

**D. K. HERR, Rider Avenue, Lancaster, Pa.**  
WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**Rom Wanted!**  
And must be had at any price.

Per 1000  
Ageratum, Blue and White, rooted out, 1000  
Euchsias, all the leaders, rooted cuttings, 12 00  
Geraniums, best of the latest, 12 00  
sorts..... 12 00  
Geraniums, best of the latest, 20 00  
1000 Double Grand, 3 1/2 inch pots, 20 00  
Heliotrope, 6 varieties, rooted cuttings, 10 00  
Feverfew, Little Gem, 10 00  
Salvia Splendens,..... 10 00  
Geraniums..... 10 00  
Mme. Sallier, rooted cuttings..... 10 00  
Mt. of Snow, 2 1/2 inch pots, \$2 per 100  
Mt. of Snow, 2 1/2 inch pots, \$2 per 100

**NEAQUARTERS FOR..... COLEUS**  
Chimborazo Verschaffeltii and Golden Queen, \$5.00 per 1000; 75c. per 100.  
COLEUS in variety, \$4.00 per 1000.  
500 at 1000 rates. Fifteen cents extra per 100. Selection of sorts to remain with you.  
Cash with Order.  
J. E. FETLHOLSEN, Schenectady, N. Y.  
WHEN WRITING MENTION THE FLORIST'S EXCHANGE

# TREES.

Evergreens, Hedge Plants, Hardy Azaleas, Rhododendrons, Japan Maples, Best Fruits, Foreign Grape Vines and other No. 1 stock for Florists; at lowest trade rates.

FRED. W. KELSEY, 145 Broadway, N. Y.

Send for quotations.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

## EVERGREENS

**ARBORE VITE** Pyramidalis and Irish Juniper, 6 to 10 inch, well rooted, per 1000 \$15.00.

**THOS. A. McBERT**, Springfield, Ohio.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**10,000 California Prunus**, one year old, 15 to more branches, at \$1.00 per doz. Two or 12 to 15 inches, \$1 per 100; \$8 per 1000.

**Double Pearl Tuberosa Bulbs**, No. 1-4 to 8 inches, \$1 to 100. No. 2-3 to 4 good flowering bulbs, 50c. per 100; \$5 per 1000 all packed to carry safely without extra charge.

**CHAS. BLACK**, Hightstown, N. J.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

## Small Fruit Plants,

Of all the Leading Varieties, and at prices to suit the times.

**2,000,000 STRAWBERRY PLANTS**, All from own seeds of my own growing. Send for Catalogue - Address,

**P. D. BERRY**, Dayton, O. P. O. Box 412.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**ORIENTAL POPPIES**, per 100, \$3.00; per 1000, \$25.00.

**HYPERICUM MOSERIANUM** (Gold Flower) \$5.00 and \$5.00 per 100, 2 year old plants.

**HOLLYHOCKS**, Extra strong, \$4.00 per 100.

**HERBERT GREENSMITH**, Rochester N. Y.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

Our New Muskmelon

## "The Kinsman Queen."

Best Muskmelon in cultivation. Earliest; best in quality; greatest producer, and largest yield of any melon in cultivation. Stock of seed now limited. Order at once. 1 lb., postpaid, \$1.00; 5 lb., 50 cents. 5 lbs. extra, \$5.00.

**FRANK BANNING**, Seedsman and Florist,

KINSMAN, OHIO.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

## FOR EARLY BLOOMING

**HARRIS LILIES**, good strong plants, guaranteed right for Easter. 8 cts. a bud. CINCINNATI, 4 inch, all in bud and bloom, \$1.25 per dozen.

**CARNATIONS**, refined cuttings, Scott and McGowan, \$1.00 per 1000.

**WHITTON & SONS**, Wholesale Florists, City and Green Sts., Utica, N. Y.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

## P. O. UWERKERK,

1123 Summit Ave., Jersey City, N. J.

Just received from our Holland Nurseries:

- RHO DODENDRONS, AZALEAS,
- SPIREA JAPONICA, LILIMUM SPECIOSUM,
- PAEONIES, BLEEDING HEART,
- POT GROWN LILACS, HYDRANGEA IN SORTS.
- CLEMATIS and H. P. ROSES, in the best sort

PRICES MODERATE.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

## NEW, RARE AND BEAUTIFUL PLANTS.

**Lord Penzance's New Hybrid Sweetbriars**, Old Garden Rose, New Rose, Philadelphia Lomand, New Lilacs, Long-Lace Hildebrandt, Spruce Anthony Waterer, New Weigela &c. A large collection of Rare Hibiscus and Grandis-Plants, Anubisbrims, Alcaucals, Acaids, New Camellias, etc.

**JOHN SAUL**, Washington, D. C.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

## Vegetable Plants.

Transplanted plants, grown in flats, well hardened. Write for prices, stating quantity desired.

**Cabbage**—100,000 ready now.

**Tomato**—50,000 ready April 15th.

**Cauliflower**—100,000 ready April 15th.

**Tomato and Cabbage seedlings**, for transplanting; strong; 2 1/2 inches tall, \$1.00 per 100, prepaid.

**Cauliflower seedlings**, Snowball, 2 1/2 inches, \$2.00 per 100, prepaid.

**Asparagus**, strong, 2 years, Barr's and Paine's, \$5.00 per 100.

**Trade Price List** of vegetable and other plants free.

**E. C. HARGADINE**, - - Felton, Del.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

## VEGETABLE PLANTS

**LETTUCE**—Big Boston, Grand Rapids, Boston Market, and White Leaf, 15c per 100; \$1.00 per 1000.

**CABBAGE**—Jersey Wakefield, Henderson's Succession and Early Summer, 15c per 100; \$1.00 per 1000.

**TOMATO**—Extra Early Red, Royal Red, Stout and Farnham, 15c per 100; \$1.00 per 1000.

**PEPPER**—Ball Rose, Ruby King, Sweet Mountain and Cayenne, 25c per 100; \$2.00 per 1000.

**WHITE PLUME CELERY**, now ready for transplanting, 15c per 100; \$1.00 per 1000, \$5.00 per 10,000.

We are budding and growing up all kinds of **Vegetable Plants**. If you want them in large quantities send for price list.

**R. VINCENT JR. & SON**, White Marsh, Md.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

ASSIGNEE'S SALE OF

## HARDY AMERICAN PLANTS AND FLOWERS, TREES AND SHRUBS.

Finest Collection In America.

40,000 native Azaleas, five species, well budded and with balls.

Entire stock of the well-known Highlands Nursery must be sold this Spring.

A great opportunity for Nurserymen, Florists, Parks and Cemeteries to secure grand stock at assignee prices.

For lists, prices and information address,

**ASSIGNEE, HIGHLANDS NURSERY,**

Kawana, N. C.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

# PEACH TREES

in quantities to suit Single 100 or carload lots. Grown on new land and good assortment. — Splendid trees. — Low prices.

California Prunus, \$20.00 per 1,000. Osage, \$3.00 per 1,000.

**JOSIAH A. ROBERTS**, Malvern, Pa.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

## Apple

Apple, Cherry, Pear and Plum

... Seedlings and Clons.

Large Stock. Low Prices.

## Grafts.

Send list of wants to

**D. S. LAKE**, Shenandoah, Iowa.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

## EVERGREENS:

SMALL PLANTS BY THE MILLION.

BEST SIZES FOR STOCKING NURSERYMEN.

Many Thousand **COLORADO BLUE SPRUCE**, Especially fine lot of **AMERICAN ARBOR VITAE**.

Also, **IRISH JUNIPER** and all Standard Sorts.

For very low prices on All Stock, ask

**C. L. WHITNEY**, Warren, Ohio.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

# EASTER PLANTS.

**LILIAM HARRISII** in splendid condition, 65 cents to \$1.50 each.

**HYDRANGEAS**

6, 7 and 8 in. pots, well hardened, 50c. to \$3.00 each.

**AZALEAS**

Large compact plants, \$1 to \$8 per doz.

**SPIREAE**

Positively cash with order, or satisfactory reference.

**SAMUEL J. BUNTING**, Elmwood Ave. & 58th St., Philadelphia.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

## 10,000 Blooming Plants for Easter.

**LILIAM LONGIFLORUM**, **AZALEAS**, **HYDRANGEAS**, **SPIREAE**, **RHO DODENDRONS**, assorted

**ROSES**, **LILACS**, and **HYACINTHS** in pans and pots.

Also a fine healthy lot of **CARNATIONS** from flats; Daybreak, Wm. Scott, Lizzie McGowan, Tidal Wave and Minnie Cook.

PRICES ON APPLICATION.

**H. C. STEINHOFF**,

578 Hudson Boulevard, near Ann St., - - - West Hoboken, N. J.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

# EASTER PLANTS MY SPECIALTY.

- ERICAS—Fine plants, well flowered..... \$0.75 to \$5.00
- AZALEAS—Fine plants, well flowered..... 75 " 12.00
- HYDRANGEAS—All sizes..... 1.00 " 7.00
- LILAC—Splendid plants..... 1.00 " 2.00
- METROSIDEROS (Bottle Brush)..... 1.50 " 3.00
- KALMIA LATIFOLIA..... 1.00 " 2.00
- LILIAM LONGIFLORUM..... 3.00 pots.
- TULIPS and HYACINTHS..... several thousand.

A Large Stock of **ARAUCARIAS** and **PALMS**.

**ANTON SCHULTHEIS**, College Point (L.I.), N. Y.

Opposite R. R. Depot, North Shore Division, Trains every Half Hour.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

## HEADQUARTERS FOR NURSERY STOCK.

# Baltimore and Richmond Nurseries,

BALTIMORE, MD.

**FRANK L. DAVIS NURSERY CO.**

50 YEARS. TENNESSEE NATURAL PEACH PITS and SELECTED SMOCK. 1000 ACRES.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

- Apple,
- Peach,
- Standard Pear,
- Plum,
- Apricots,
- Grapes,
- Small Trees,
- Evergreens,
- etc., etc.

- Small shrubs,
- All Trees,
- Japan Pear Seedlings,
- Grape-shrubs,
- Roses,
- Rubus,
- General Supplies,
- &c., &c.

**SITUATIONS WANTED.**

Data, 10 cents per line (8 words, each insertion). Cash with order. This rate applies only to situations wanted. All other advertisements are charged on a separate basis. When letters are addressed to our care and received in our office, we will not be held responsible for their return.

**YOUNG man** wishes situation in greenhouse; one year's experience in commercial business. W. Grant, Wixom, N. Y.

**FOREMAN** wants position; first-class on roses and carnations; also greenhouse work. Address in confidence, Hollister 3, care of Florist's Exchange, N. Y.

**SITUATOR** wanted by expert roses (?) similar to above; first-class grower and maker-up. Can handle all branches in cash terms. Maker-up, care of Florist's Exchange.

**WHO WANTS** a practical florist and gardener especially experienced in the culture of carnations and private plants American; strictly sober and reliable. Wm. East, Millers Branch, N. Y.

**SITUATION** wanted by a single young man, 26 years, in a commercial or private place in New York. First-class experience in growing and shipping. Address, 102 E. 18 St., New York.

**YOUNG man**, married, wants position on healthy plants; good vegetable gardener, handy with tools, understands care of plants and care of plants in winter. Address in confidence from last employer. Address 414 East 53d St., N. Y.

**SITUATION** wanted as foreman in greenhouse and establishment of 1000 ft. to date successful grower of hort. stock, 40 yrs. married, care 600 E. Hancock St., Box 88, Wilkes Barre, Pa.

**SITUATION** wanted by a Dutchman, 37 years of age, 10 years experience, one year in this country. State of Massachusetts, no New York preference. Commercial place preferred. Address in confidence, 100 West 12th St., New York.

**SITUATION** wanted by practical horticulturist; practical grower, preferred, large commercial place. All references. Address in confidence, 100 West 12th St., New York.

**SITUATION** wanted by practical horticulturist; practical grower, preferred, large commercial place. All references. Address in confidence, 100 West 12th St., New York.

**HELP WANTED.**

**WANTED.** A young man to work in greenhouse and outdoors; one who has knowledge of seed business preferred. Address in confidence, Care Florist's Exchange.

**FLORIST WANTED AT ONCE.**

Capable, energetic and Christian, to take 5000 worth in shares. Address in confidence, W. J. OLDS, Du Bois, Pa.

**FLORISTS AND GARDENERS.**

Wanted, for private and commercial places, experienced, journeyman, assistants and flower growers. Joseph Beck & Sons Corp., Bureau of Horticulture and Floriculture, 152 N. Market St., Boston, Mass.

**WANTED.**

Single or married man in commercial place near New York; must have had good experience at rose growing; must be sober and industrious. Address ROSE GROWER, Florist's Exchange.

**WANTED.**

All-around florist, quick and good workman, must be sober and have good references. MED., 453 South Orange Ave., Newark, N. J.

**WANTED.**

A good man to take charge of Nursery and Herbaceous Department, address ROSE HILL NURSERIES, New Rochelle, N. Y.

**WANTED.**

A vegetable gardener, Scotch or Irish (single preferred); none but man with good knowledge need apply. Salary 100 monthly. Address ROBERT ROBERTSON, Springfield Avenue, SUMMIT, N. J.

**WANTED.**

When writing mention the florist's exchange.

**Market Gardening.**

A paper on "Some Phases of Market Gardening," by T. Greiner, editor of the New York edition of "Farm and Fireside," was read before the Massachusetts Society, Saturday, Feb. 20, 1897, of which the following is an abstract:

At the outset let me say that the business here has not been flourishing for some years. The free cologne of silver in the market garden has become a myth. The problem is how to continue in the business, earn enough to cover the wages of labor and make a bare living besides. This has been brought about by the general depression in the values of other soil products, aided by the constant advent of agricultural writers. I know I am not free from blame myself. See the glowing descriptions of the results of extensive culture, of the profits of growing vegetables, of the fresh vegetable movement that the East is destined to produce horticulturally rather than agriculturally products, and the sensational teachings found in some experiment station bulletins. The great slump in prices of cereals, potatoes, etc., has caused a large number of farmers, tempted by these often extravagant promises, to forsake their legitimate products and devote their energies to the raising of a result the market became flooded with these products and prices in many instances fell to a level below cost of production. We older gardeners met last winter with a

profit, and the new comers found nothing but sore disappointments. They were in the seashore, and with the wealth of the country concentrated around you, have been able to live on a small scale.

I believe we have instructed too much. What used to be trade secrets are now public property, and the masses have learned to grow plants, the production of which had been hitherto a monopoly. The urgent appeals for the production of garden crops have been too persistent and overdone. There is a great glut of gardeners. There are too many producers of trash in it already. Market gardening has now entered an era of development in which a thorough weeding out seems imperative and inevitable. Its less skilled devotees will have to drop out, and only the fittest can survive. It is time for us to warn those who have made a failure of their efforts to secure them in some other holding, intend to take up gardening without previous training and experience. If our efforts to scare them are successful, it will be a favor to them as well as to those already in the business. The market gardeners of the future, on the latter, and save the former certain disappointments, loss of time and money. If our efforts to scare them are successful, the market continues to be filled with trash, but they seldom fail to find a fair demand for their products. The market gardeners who only secure our old-fashioned goodly figures.

The restriction of over-production is largely a local question. What special crops one can produce with best prospects of profitable sales is a matter which each individual gardener must settle for himself. To point out any special crop as promising would cause a rush to produce it, and bring down the prices of the product thus recommended for general culture. Cheapening the price of products is not the thing that the gardener who use every new implement which purports to save hand labor. He tries to get more bush per acre, and the largest possible yields, and he produces a rapid succession of crops. In buying manure or other material generally recommended, we have paid excessive prices. While the finished product sells at cheaper rates, the raw material generally remains at the same. We still pay old-time rates, and in many instances even increased ones, for stumps and other material. The prices of the cities could agree to be less anxious to buy it at whatever the seller may see fit to ask, the latter would have to sell for what you might see fit to offer. In some cases we may be able to draw on home resources for making good use of dry manure, with wood-sheds and bone or other forms of mineral plant foods, using this in place of manure.

The majority of gardeners also use concentrated plant foods, and sometimes with little effect. It is better to use an organic fertilizer manufacturer, as we need their co-operation. Their expenses are great, and they must make good on their investment in order to make their old-time profits. Why should not they be satisfied with what they produce and sell for? I can see no necessity for using ready-made mixtures in the garden, but the stronger reason is that they are too expensive. The mixtures sent out by various firms as specially adapted for garden crops vary in retail value between \$1.00 and \$2.00 per well at from \$20 to \$40. In other words, they pay the full value and 50 per cent. additional. Some expenses and losses as well as seller's profit.

In the following:  
50 lb. nitrate of soda, costing about...\$11.25  
250 lb. nitrate of soda, costing about...56.25  
300 lbs. mixture of potash, ... 47.50  
2,000 lbs. ... 200.00  
we have a ton which is worth \$27.50, and equal to a fertilizer sold by the same dealer at about \$40. Professor E. B. Voorhes suggests the following formula for garden crops:  
Nitrate of soda..... 200 lbs.  
Dried blood..... 200 lbs.  
Dried kelp..... 200 lbs.  
A. C. phosphate..... 1,000 lbs.  
Muriate of potash..... 1,000 lbs.  
Total..... 2,000 lbs.

Its cost and value is not materially different from the other. Some gardeners may fear the labor of

mixing, but it can be applied without mixing. All can be sowed over the ground. It can be applied with a wheelbarrow, worked over and sowed by hand. It can save \$12 to \$16 per acre. In the case of a ton of manure, we can well see the value of the extra labor in application. My practice is to use the fertilizer alone, taking pains to distribute it.

Striking results are obtained by the use of this fertilizer on such crops as beets, spinach, cabbages and cauliflower. Used alone, as in the case of the former two, it will give a crop of 100 bush, a ton in the latter two. Sometimes it is added to stimulative value. We usually apply it at the rate of one bush per acre, and a muriate of potash in smaller quantity, both sown broadcast.

A producer of loss to us has been our carelessness in selling to irresponsible buyers and in consigning products to commission merchants. With us the only way seems to be to deal directly with consumers, and in rarer cases with retailing grocers, for each only. If we have superior vegetables, we can usually find private buyers willing to give a fair price. Our way to treat commission merchants is to give them no chance. If we ship anything to them we soon follow the goods, and keep watch of their doings, until the money is in our pockets.

Among the newer devices and methods for smoothing harrows are the "new union culture" and the system of applying fertilizer through the harrow. The latter method has made a deep impression on our garden practices. The latter seems by far the better method. The harrow has enabled me to grow finer, larger and healthier plants, especially of the hard heading variety sorts. The bench is made tight by means of a cement lining, two-inch tile pipes are laid across the bottom two or three inches from the ground, and a pipe which receives the water being turned up at an angle of forty-five degrees.

It is the hope of the writer that the hope that the return of old-time property may be close at hand, and that we may thus have a grand haul of South carolina, which we doubt as to the future of market gardening. We have full faith that all will turn out well in the end.

**Little Falls, N. Y.**

On a recent visit to this town we called at the Overlook Greenhouse, owned by D. H. Burrell. Everything looked neat and showed good care. We particularly noticed a grand batch of Scott carnations, which were immense; in fact all of their ornamentals were fine. Mr. Burrell also grows a great variety of plants, and flowers were also furnished by Miss Mary Holmes, and her assistant, Arthur Clark, who is managing the greenhouse built here by Walter Bonfield, now owned by Mr. Peter Crowe, of Utica. Miss Holmes has had some years experience with Mr. Crowe, and her management here is very creditable.

**Fitchburg, Mass.**

The house and barn belonging to Dr. Jabez Fisher, the veteran fruit grower, occupied by his foreman, were totally destroyed by fire on Monday, Feb. 22. The loss was saved, but the contents of the barn, including a cow, tools, etc., were burned. The fire was caused by burning grass around the buildings.

Look out for the lady. Florists in surrounding cities are cautioned to be on the lookout for a lady of 35 or 40 years, dressed in dark clothes, who is doing a firm-hand business, tendering checks in payment of florist pieces. The checks are in round numbers, and are worthless. The chief of police of this city would be glad of any information as to her whereabouts.

**For Sale.**

**LOCUST POSTS,** in different sizes, at 6 to 8 cts. per foot; delivered F. B. cars at station here.

JAMES R. PITCHER, Short Hills, N. J.

**GREENHOUSES AND LAND.**

**FOR SALE CHEAP.** 18,000 feet of glass, well equipped, in stock, convenient to N. Y. City, two story building, 3 rooms, all heated by gas, and a large number of frames. Paying business established, 50 acres of choice land. Biscuits can be raised with the same for selling. For further particulars address, B. J. Hortel's Exchange.

**FOR SALE.**

Greenhouse plant of 5 houses, suitable for and now growing out flowers; heated with hot water and steam. All buildings in good repair, including house, barn and henery, 45 feet long, and place contains 2 1/2 acres. For all particulars address FRANK RILEY, 801 Genesee St., Utica, N. Y.

**STOCK WANTED.**

**WANTED.**  
**HARDY EVER-BLOOMING ROSES,** young stock, in exchange for Caladium, Yucca, Juniper, 7-in. cal. at \$2.40 per 100; Dora, 7-in. Tuberosa bulbs. 2-in. cal. size, at \$6.00 per 100; also Fruit, Ever-bloomer, Shaded Trees and Shrubs.  
W. P. BRINTON, Christiansa, Pa.

**WANTED**

**SMALL PLANTS OF**

**Acacia Pubescens.**

State size, quantity and lowest price.  
**FRED C. BECKER,**  
1730 Cambridge Street,  
CAMBRIDGE, MASS.

**WANTED**

English Yew, Eucalyptus var. Vicina Mill. Red Cedar, Red Pine, Norway Spruce, Longleaf, 3 to 5 feet. Extra size Norway Spruce, per 100.  
Please state quantities and prices.  
**FRED W. ELSBIE,** 145 Broadway, N. Y.

**WANTED**

When writing mention the florist's exchange.

**SEEDS for Profit**  
 FLORISTS' SEEDS  
**Sweet Peas**  
 Wholesale Catalogue on application.  
**WEBER & SON,** Seed Merchants and Growers,  
 114 Chambers Street, New York City.  
 WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**2000 FARFUGIUM GRANDE,**  
 \$8.00 per 100.  
**2000 PHORIUM TENAX,**  
 \$8.00 per 100.  
**C. AMMANN, 120th St., Seventh Ave.,**  
 NEW YORK.  
 WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**DAHLIAS FOR SALE!**  
 These Dahlias have taken premiums wherever exhibited. I do not exhibit now, but let my customers take the premium, which they do. I have purchased 250 varieties which I selected from most of the dealers of that time. These are those that I have selected from them. The large roots will yield about 250 plants. Price large whole roots 8c ea. each, divided roots, 4c ea. each, all carefully labeled. Good old customers time will find in New cases, reference required, or 25 per cent. off for cash. J. A. KENNEDY, 281 Morrison St., Newburgh, N. Y.

**DAHLIAS ALL SOLD OUT.**  
**2,500 CANNAS**  
 Fine dormant roots left with very strong eyes. Mme. Crozy, Alphonse Bouvier, \$2.50 a 100. Emile Leclere, \$2.50 a 100. The two best foliage cannas in the market. Holmsted and Grand Bouvier, \$2.50 a 100. Please, cash with order. Address all orders to **ROWEH & GRANZ, Hicksville, L. I., N. Y.**  
 WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**EASTER STOCK.**  
 Azaleas. Lilies.  
 Hyacinths, in Pans and Pots.  
 Tulips, in Pans.  
 Hydrangeas. Spiraeas.  
 All Stock.  
**HESSION,**  
 Clarkson Street, (above County Bldgs.)  
**FLATBUSH, N. Y.**

**ATANIA**  
**CORONICA**  
 SPECIMEN PLANTS, from 8 and 9 inch pots, 3 feet high and 3 feet in diameter, above pot, in natural position, \$3.00 each.  
**200,000**  
**BEDDING PLANTS**  
 Of every description, from 2 to 4 inch pots, healthy, short and stout, cool grown plants, from \$2.00 to \$6.00 per 100.  
**50,000**  
**BEDDING AND FORCING ROSES.**  
 Best varieties, from 2, 3, 4 and 5 inch pots, \$2.50, \$4.00, \$8.00 and \$15.00, per 100, respectively.  
 SEND LIST OF WANTS TO GET  
 LOWEST PRICES TO . . . .  
**N. STUDER,**  
 Anacostia P. O.,  
**WASHINGTON, D. C.**  
 WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**JOHN CONLEY & SON,**  
 Manufacturers

**New Cannas**  
 From a inch pots.  
 Italia, Austria, Aurora, Francois Billard, Franz Buchner, Papa, Souly, de Minc-Crozy, Souv. du Pres. Carnot and others.  
 write for low prices.  
**W. W. COLES, Kokomo, Ind.**  
 WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**CANNAS and CROTONS**  
 For immediate delivery we offer 1000 CANNAS in divided roots, for \$20.00, or 500 for \$10.00. The offer refers to above quantities only, and in such proportion as supply will allow. Selection of varieties to be left to us.  
 Alba Rosa, Bouvier, Chas. Henderson, Capt. de Suzzoni, Esp. Campbell, Eganale, Eleanora, Estrie du Rhone, F. Neuvache, Florence Vaughan, Geoffrey St. Hilaire, Golden Star, Jacob Schurz, Jacques Bonnet, Maurice Mauve, Maurice Riviere, Mme. Crozy, P. J. Berckmans, Paul Brunst, Paul Marquand, Nellie Bowden, Fritzsche Langroux, Fritzsche de Brocnon, Queen Charlotte, Sarah Hill.  
 We offer 100 Crotons, in 10 1/2 varieties, 5 to 8 inches high, for \$10. We offer 100 Crotons, in 10 to 12 varieties, 10 to 12 inches high, for \$10. Our stock of Crotons is remarkably fine and plants well-grown.  
**P. J. BERCKMANS, Fruitland Augusta, Ga.**  
 WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**USE**  
**THE BROWN BAG FILLING MACHINE**  
 Shall you be in line for a machine for putting up your seeds  
**THE COMING SEASON.**  
 Exact measure. Fine, space, supervision, seed and money saved. The machine occupies a space of eight by ten feet, and does the work of ten girls. A special attachment for large and full packets.  
 For circulars and information, also for bag-making machines address  
**THE BROWN BAG FILLING MACHINE CO.,**  
**FITCHBURG, MASS.**  
 WHEN WRITING MENTION THE FLORIST'S EXCHANGE

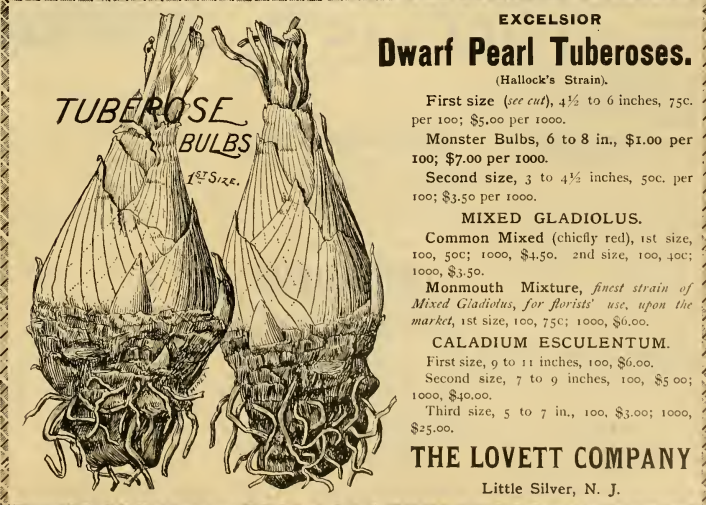
**PIN FOIL**  
**2 and 4 Dominick St.,**  
**NEW YORK.**

**CANNA AUSTRIA**  
 GREEN PLANTS READY NOW  
 \$20.00 per 100.  
**CHAS. H. ALLEN, Floral Park, N. Y.**  
 WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**THE BURBANK CANNA.**  
 THE GRAND NEW ORCHID FLOWERED GIANT YELLOW  
 Fine 3/4 in. plants, each 75 cents; dozen, \$8.00  
**NEW YORK, P. O. Box 688,**  
**14 Barclay St. VAUGHAN'S SEED STORE**  
 CHICAGO.  
 WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**A FEW FACTS FOR FLORISTS.**  
**1st THE DAHLIA** very neatly fills the niche between June roses and October chrysanthemums, when other flowers are scarce.  
**2d** They are of easiest culture, requiring no special conditions or greenhouses. Just plant them outside, give them good cultivation, and you have an abundance of beautiful flowers from June until frost.  
**3d** Fortunately for business one-half of the world is envious of the other half. **MORAL**—Your many customers see your beautiful flowers, and you have no trouble in disposing of all your roots at fancy prices.  
**4th PEACOCK'S DAHLIAS** were awarded 23 First Prizes, and a Certificate of Merit and two Diplomas during the past year—26 First Awards out of a possible 28.  
**5th FLORISTS MAKE MONEY** by handling **PEACOCK'S DAHLIAS** because the roots always give satisfaction.  
**NEW ORLEANS, LA, January 7th, 1897.**  
**W. P. PEACOCK, Atco, N. J.**  
 DEAR SIR—I had some Dahlias from you that sold and did well; will you kindly send me a descriptive list of your varieties so I may get better acquainted with them, and oblige, yours respectfully,  
**QUINCY, ILL., January 28th, 1897.**  
**W. P. PEACOCK, Atco, N. J.**  
 DEAR SIR—I received my Dahlias in good order, and hope I will have great success with same. Many thanks for extras, and I will remember you in the future.  
 Very respectfully, C. F. W. GENTEMAN,  
 C. W. Bickham, 1177 Dearborn St.  
**W. P. PEACOCK,—Dahlia Specialist,—ATCO, N. J.**  
 WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**TUBEROSE BULBS**  
**EXCELSIOR Dwarf Pearl Tuberoses.**  
 (Hallock's Strain).  
 First size (see cut), 4 1/2 to 6 inches, 75c. per 100; \$5.00 per 1000.  
 Monster Bulbs, 6 to 8 in., \$1.00 per 100; \$7.00 per 1000.  
 Second size, 3 to 4 1/2 inches, 50c. per 100; \$3.50 per 1000.  
**MIXED GLADIOLUS.**  
 Common Mixed (chiefly red), 1st size, 100, 50c; 1000, \$4.50. 2nd size, 100, 40c; 1000, \$3.50.  
 Monmouth Mixture, finest strain of Mixed Gladiolus, for florists' use, upon the market, 1st size, 100, 75c; 1000, \$6.00.  
**CALADIUM ESCULENTUM.**  
 First size, 9 to 11 inches, 100, \$6.00.  
 Second size, 7 to 9 inches, 100, \$5.00; 1000, \$4.00.  
 Third size, 5 to 7 in., 100, \$3.00; 1000, \$2.50.  
**THE LOVETT COMPANY**  
 Little Silver, N. J.



# CARNATION CUTTINGS.

## Rooted Cuttings and Pot Plants, From Healthy Cold Stock.

A few of the very desirable new Commercial sorts are:  
**Red Ground (Calcutta).** A brilliant rich orange, which does not burn or fade. The ground for extra early use for cut flowers or pot plants. R. C., \$3.00 per 100; pot plants, \$5.00 per 100.

**Glow of the Pacific.** Valuable on account of its earliness. Very dwarf, compact growth; light pink. R. C., \$3.00 per 100; pot plants, \$4.00 per 100.

**Wm. Simpson.** A beautiful early pink of large size and good color; very effective. R. C., \$3.00 per 100; pot plants, \$4.00 per 100.

**Mme. F. Perria (S. Mrs. Perria).** A lovely pink, particularly useful for medium and small flowers. As the extent whether one or two dozen blooms be grown to a plant. R. C., \$3.00 per 100; pot plants, \$4.00 per 100.

**Mrs. H. Wright.** A charming recurved mid-season, white like Mrs. J. Jones, elegant in all respects. R. C., \$3.00 per 100; pot plants, \$4.00 per 100.

**Madeira.** An intense glowing yellow, elegant flower, neat foliage and habit. A large stock. R. C., \$3.00 per 100; pot plants, \$3.00 per 100.

**Ruth Hill.** An imposing high built bloom, semi-double, delicate pink, good keeper. R. C., \$3.00 per 100; pot plants, \$4.00 per 100.

**Vanessa.** A splendid late white variety, very lasting. R. C., \$3.00 per 100; pot plants, \$4.00 per 100.

**Mrs. Robinson.** Indispensable. The truest commercial white. A large stock for immediate delivery. R. C., \$2.00 per 100; pot plants, \$3.00 per 100.

All the leading AMERICAN CHRYSANTHEMUM NOVELTIES at Trade Prices.

# CARNATIONS.

Alaska. The best commercial white..... R. C., \$1.50 per 100; \$10.00 per 1000; the stock \$20.00 per 1000; pot plants, \$4.00 per 100; fine stock \$5.00 per 100.

Carnation Novelties of '97 at Trade rates.

**FAUQUAR VIOLETS.** The coming double Violet; large, early, free, and constantly in good color. Pot plants, 3.00 per 100; \$25.00 per 1000.

**CALIFORNIA VIOLET,** strong and free. Rooted runners, \$1.00 per 100; \$8.00 per 1000

Cash with order. **THEO. F. BECKERT,** Glenfield, Pa.

Neville Island, 9 miles below Pittsburg, Pa.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## LARGEST AND FINEST FLOWERS

## HEALTHY VIGOROUS STOCK

**BEST MAMMOTH,** rooted cuttings..... per 100, \$1 25; per 1000, \$10 00

**OLDEST MAMMOTH,** rooted cuttings..... " 1 00 " 8 00

**BEST MAMMOTH,** strong pot plants..... " 2 50 " 20 00

**OLDEST MAMMOTH,** strong pot plants..... " 2 50 " 20 00

## MISCELLANEOUS PLANTS.

Geraniums, fragrant, from 2 1/2 in. pots, Per 100  
Lantanas, 12 variety plants, from 2 1/2 in. pots, 4 00  
Fuchsias, 12 variety plants, from 2 1/2 in. pots, 4 00  
Polegoniums, 20 fine varieties, from 2 1/2 in. pots, 5 00  
Vines Variegata and Eleagnus, 140 pots, \$1.00 per 100; \$2.00 per 1000

**CHRYSANTHEMUMS**

**RODED CUTTINGS. POTTED PLANTS.**  
Ada Spaulding, Mme. Fedt. Bergmann, Helen Woodcock, Editor, Mrs. S. H. Hart, Harry Man, Oakland, Olympia, M. M. Johnson, Jennie Falkner, M. Richard Dean, Gladys Spaulding, Mrs. Henry Robinson, Emma, Pink Ivory, Mrs. Mack, Twombly, Niveus, Potter Palmer, Mrs. S. Humphreys, J. E. Leger, J. H. Troy, Henry May, Mrs. J. B. Crane, Fannie Thompson, Mrs. J. B. Crane, Fannie Thompson, Mrs. J. B. Crane, Fannie Thompson, Vivian-Morel, Mary, Graham.

Rooted cuttings, \$2.00 per 100; \$15.00 per 1000.  
From 2 1/2 in. pots, \$1.00 per 100.  
Fras. W. R. Smith, Eugene Dalglish, Ivory, Theo. H. Brown, Chillingworth, Minnie Wankmacker, Miss May Wheeler, Mrs. J. G. Whitfield, W. H. Light and Mrs. J. B. Crane.  
Rooted Cuttings, \$1.50 per 100.  
From 2 1/2 in. pots, \$3.00

# Earliest Large Flowering Yellow Chrysanthemum. Yellow Monarch.

Japanese. Blooms certified at New York and Boston, October 7, 1896. Now ready, from 3 1/2 inch pots, excellent stock, Price, \$3.50 per doz., \$35.00 per 100.

## DAILLEDOUZE BROS.,

(Flatbush.) BROOKLYN, N. Y.

## CHRYSANTHEMUMS

Strong rooted cuttings of some of the best, true to name, for \$1.50 per 100; 35c. per dozen.  
Mrs. H. Robinson, Mrs. Jerome Jones, Golden Wedding, Major Spaulding, Niagara, Mrs. M. M. Johnson, Mrs. F. Humphreys, Niagara, Helen Woodcock, J. E. Leger. Cash with order.

**DAVID SCOTT, Fredonia, N. Y.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## 50 BEAUTIFUL CHRYSANTHEMUMS

For \$1; 100 for \$1.90; 500 for \$9.

From 2 and 2 1/2 in. pots. OUR SELECTION from 120 varieties, all of the finest standard sorts and choicest new kinds. Not less than 50 of a kind. This offer will not appear again in our case. All our strong healthy plants. No inferior varieties.

**FRANK BANNING, Seedsman and Florist, KINGSMAN, OHIO.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## NEW CHRYSANTHEMUMS

The Grandest Novelty of the Season is

**G. J. WARREN,** The Yellow Sport from Madame Carnot.

Good hard plants in May, \$5c. each trade, 2 1/2 in. pot, free, and other novelties described in catalogue, post free.

**W. WELLS,** Chrysanthemum Specialist, EARLSWOOD, - SURREY, ENGLAND.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## NEW CHRYSANTHEMUMS

**LORELEI.**

A pink incurved flower, white, shading to pink on lower petals. The form and make up of the flower is very distinct. First class Certificate of C. S. of A. In bloom from November 10th to the end of the month.

**Mrs. Theo. F. Beckert.**

A lovely light pink or blush flower, of an incurved style, medium size, with stem and foliage perfect, in good shape, from November 10th to the end of the month. First class Certificate of C. S. of A.

Both varieties are illustrated in the Supplement of the Florists' Exchange Chrysanthemum number.

I have besides the above, novelties of other raisers, as well as fifty standard varieties, including novelties of 1896.

Novelties of this Spring, 50 cts. each; \$5.00 per dozen; \$35.00 per 100.

Standard varieties, from \$3.00 to \$6.00 per 100; all from 2 1/2 inch pots, and in the best possible condition.

CHOICE STRONG ROOTS, \$6 PER 100.



NOVELTIES AND STANDARDS in great variety. Prices low and stock better than ever. Try my leader—John Elch.

W. W. WILMORE, Box 382, Denver, Colo.

**St. Paul.**

We are in the midst of the Lenten dullness, and flowers are as plentiful now as they were scarce a few weeks since. Most of the growers, however, seem to have thinned their crop properly, and the cut is not heavy. Everybody is looking forward to a good Easter trade, and planning as big a cut as possible for that occasion.

The bright days are bringing everything along in good shape, and the return of Spring is lifting the gloom that has fallen on the trade here during the Winter.

Carnations are scarce, and about the only flower in greater demand than the carnation is becoming more popular with the flower buyers here, and those who have made a specialty of growing have been successful.

The demand for carnations is still, and produced but few and inferior flowers. The California is becoming a great favorite, and with most growers more productive and yields better returns than the double ones. There has been a good deal of work in the carnation line.

In roses, for counter trade, honors are about evenly divided between Testout and Siebrach, but as the latter is not a good keeper its utility for the average commercial place is limited.

Beauty is, and always will be, a popular favorite with the "upper ten," but the experience of the past three or four months of dark weather, mild frosts and no returns for labor and fuel, should be a lesson to our growers, namely, that the beauty of a winter rose, in a decidedly money loser. As a Summer and Fall rose, it is sure and profitable variety, but from November to May, it is not.

In the carnation many of our growers still persist in growing the double ones, always in good demand, can remain longer on the plants than the rose, requires less heat, and is a good supply of the "peppercorn" (item to the florist) and in general gives better and surer returns than any other flower grown.

Double roses have sold well all Winter at wholesale for \$1.50 and \$2 per 100, while roses have only brought from \$3 to \$4.

Harriet are somewhat scarce, and we look for a good demand for them for Easter. There is a good supply of the plants, including azaleas, clematis, sprays, lilybushes, etc.

Supt. NUSSBAUMER is making elaborate plans for park planting this year, but is anxious to arrange all previous affairs.

C. A. SMITH has been awarded the contract for re-planting the park here.

The department stores seem to be the thorn in the side of our Minneapolis florists, and have demoralized all the time in consequence.

We have had the travelers with us since the retrospective of the past year, man of New York; two or three folding box men; Mr. Roberts, representing S. A. Weller, of Boston, and the "best looking" and several others whose faces were not familiar. Next week the invasion by the Dutch will begin, and the "best looking" of the "lowest price" will be daily heard until Holland's surplus is worked off.

# WOOD BROS., Fishkill, N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# THEO. BOCK, Hamilton, O.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE





# FLORISTS' EXCHANGE

TYPE

We are a straight shoot and aim to grow into a vigorous one.

A WEEKLY MEDIUM OF INTERCHANGE FOR FLORISTS, NURSERYMEN, SEED MERCHANTS AND THE TRADE IN GENERAL.

VOL. IX. NO. 15.

NEW YORK, APRIL 10, 1896.

One Dollar Per Year.

## ...NEW CHRYSANTHEMUM... MISS LOTTE D. BERRY

(Certified under the name of *Garret A. Hobart*.)

Large pure white incurved Japanese, very full and double, borne on a good, strong, stiff stem, well furnished with foliage up to the flower. Blooms in mid-season, and is a first-class keeper. Certificate Chrysanthemum Society of America, November 7, 1896.

**Price: 50c. Each; \$5 Per Doz.; \$35 Per 100.**

Also all the new varieties of other growers at their prices.

### INTRODUCTIONS OF 1896.

Alonzo, Henry Hurrell, Indiana, Infatuation, Lenawee, Marion Cleveland, Miss L. Magee, Modesto, Mrs. Harry Toler, Mrs. H. H. Battles, Mrs. Perrin, Mrs. Wm. C. Egan, Mrs. W. P. Raynor, Nanshon, Pluto, Riverside, Yanoma. **\$6 Per 100.**

### STANDARD VARIETIES.

Mrs. A. J. Drexel, Mrs. Geo. West, Mrs. Henry Robinson. **\$5 Per 100.**

Dean Hole, Eugene Dailledouze, H. W. Riemann, J. E. Lager, J. H. Troy, Latest Fad, L'Enfant des Deux Mondes, Louis Boehmer, Major Bonaffon, Marion Henderson, Marie Louise, Miss Agnes Louise Dalskov, Miss Georgiana Pitcher, Mrs. Alphens Hardy, Mrs. George J. Magee, Mrs. Geo. M. Pullman, Mrs. Higginbobam, Mrs. H. McK. Twombly, Mrs. Jas. B. Crane, Mrs. S. F. Murdock, Mutual Friend, Nevada, The Queen, Vivian-Morel, W. B. Dinsmore, Yellow Queen. **\$4 Per 100.**

Dorothy Toler, Erminilda, Ivory, Minerva, Miss Florence Pullman, Mrs. E. G. Hill, Nemesis. **\$3 Per 100.**

**POMPON CHRYSANTHEMUMS, \$4 Per 100.**

(For Varieties see our Trade List.)

**PITCHER & MANDA, Short Hills, N. J.**  
JOHN N. MAY, Receiver.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

## COCOS WEDDELIANA.

We have just received a consignment of fresh seed in perfect shape, which we offer as long as we could at **\$9.00 per 1000; 5000 lots at \$8.00 per 1000.**

### NEW CLIMBING

### YELLOW RAMBLER ROSE.

The Only Hardy Yellow Climbing Rose Yet Introduced.  
A Worthy Companion to the Wonderful Crimson Rambler.

This new Rose bids fair to have as wonderful a sale as its predecessor, the Crimson Rambler. We have a large stock of it, and offer it at the following exceedingly low prices, viz:

**Strong Plants, 2½ inch pots, \$2.50 per doz.; \$15.00 per 100.**  
3 3.50 25.00

Full description of this valuable novelty, also a beautiful colored illustration of same, a reproduction of a painting by the celebrated artist, Paul de Longrais, will be found in our descriptive catalogue, which will be sent on application to any one who may not have received it.

We can supply you the

### NEW ROSE, PRES. CARNOT

In any quantity, fine, strong, healthy plants, 2½ inch pots, at **\$15.00 per 100; \$125.00 per 1000**

### WINTER-FLOWERING ROSES

Is large and in exceptionally fine shape. We offer all the leading varieties as follows:  
Perle, Bride, Metzer, Bridermaid, Mme. Cusin, \$5 per 100; \$40 per 1000.  
Mae, Caroline Testout, Kaleria Agosta  
Victoria and Mrs. Pierpont Morgan, \$5 per 100; \$50 per 1000.  
American Beauty, \$3 per 100; \$30 per 1000.

Our Wholesale List and Complete Descriptive Catalogue will be Sent Free on Application to any who may not have received them.

**F. R. PIERSON CO.,**  
TARRYTOWN-ON-HUDSON, NEW YORK.

### TUBEROSE BEGONIAS AND TUBEROSE PEARL

At lowest Wholesale Rates in Quantity. Write for Prices.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

## SEEK FOR OUR PRICE LIST OF HIGH GRADE SEEDS AND BULBS

If You Have Not Received One.

**FLOWER AND VEGETABLE SEEDS IN PACKETS.**

### We Do Not "Commission" or Place Seeds Out "On Sale."

But we supply Florists with seeds put up in handsome colored packets for retailing at \$1.25 per 100, or \$10.00 per 1000. These Packets, besides having a lithograph of the flower the common and botanical name on the front, have a description of the flower and cultura directions on the back and a blank space for name and address, which will be printed on same if ordered in 1000 lots or more. **SEND FOR SAMPLE.**

Price of Peas, Beans and Corn in Packets, \$4.00 Per 100.

**DWARF PEARL TUBEROSE BULBS,** 4 to 6 inches in circumference, \$7.50 per 1000.

**TUBEROUS ROOTED BEGONIAS,** sound stock, 6 colors, separate, \$5.00 per 100.

**GLOXINIANS,** named varieties, \$5.00 per 100.

In Making Up Your Order for Florists' Flower Seeds, Don't Fail to Include Some

### ALLEN'S DEFIANCE MIGNONETTE

Offered this Season at \$1.50 per oz., and 35 cts. per packet, containing 1-8 ounce, . . .

**F. E. McALLISTER CO.,** Seed and Bulb Merchants, 69 Cortlandt St. N. Y.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

Do we have to have

## Canna Burbank?

No! The past four years have shown there are very few things you

Have to Have

**But** for more than four years the Florists of the world have been looking for a Pure Yellow Canna.

In Burbank we have practically a pure yellow, a flower in size more than twice as large as Madame Crozy, semi-double; and a plant with magnificent musa-like foliage and a constitution equal to the old Robusta. Austria is not a substitute for Burbank. It is unsalable at 15c. each. Burbank SELLS at \$8.00 per dozen, prepaid ON cash orders.

Read the unanimous statements of the S. A. F. Canna Committee. Ask any Chicago Florist about it. Can be ordered at 14 Barclay Street, New York. C. W. Ward, of Queens, also sells it.

**Vaughan's Seed Store,** Chicago: 84 & 86 Randolph St. New York: 14 Barclay St.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE



WE ARE  
**HEADQUARTERS**  
For California Growth  
**Freesia Refracta Alba,**  
CALLA ETHIOPICA,  
**LITTLE GEM CALLA.**  
Delivery Commences July.

**Tubrose, Dwarf Pearl,** lat size, very fine bulbs, \$1 per 100; \$7 per 1000.  
**Begonias,** single tuberous rooted, separate colors, 50c per doz; \$3 per 100.  
**Gladiolus,** fine mixed, \$1 per 100; \$8.50 per 1000.  
**Clatolus,** white and light, mixed, \$1.75 per 100; \$15 per 1000.  
**Gloxinias,** mixed, 60c per doz; \$4 per 100.  
**Hydrangea,** Calli, first-class condition, \$9 per 100; \$55 per 1000.  
**Madeira Vine,** extra strong roots, \$1.50 per 100; \$12 per 1000.

**JAPAN CROWN**  
**LILIUM LONGIFLORUM EXIMUM VERUM**  
The BEST sort of Longiflorum for forcing. (Delivery from August.)  
Send for our NEW Price List of above and other Summer Bulbs, Palm Seeds, etc

**SWEET PEAS.**

<b>Bianche Ferry</b> .....	20c. per lb.
<b>Butterfly</b> .....	20c. "
<b>Brown</b> .....	20c. "
<b>Blue</b> .....	20c. "
<b>Fine Mixed</b> .....	25c. "
<b>Emily Henderson</b> .....	25c. "
<b>Inchible Carnation</b> .....	25c. "
<b>Lottie Eckford</b> .....	40c. "
<b>Edwards' Mix</b> .....	20c. "
<b>Elliott's Rainbow Mixture</b> \$1	

**SPECIAL NOTICE!**  
To introduce to the TRADE the great and desirable Novelty,  
**LYGODIUM JAPONICUM**  
(Climbing Fern), equal, if not superior in all its uses to Smilax, having the advantage of being something NEW, we will deliver during the month of APRIL only, strong plants, each for 20 cts.; 10 for \$2.00; 50 for \$7.50. Mail or Express paid. The vines of this fern attain length of 8-10 ft.

**WM. ELLIOTT & SONS**  
NEW YORK.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Address all Communications to  
**H. H. BERGER & CO., San Francisco, Cal.**  
ESTABLISHED 1878.

Some of  
**Our Import Prices.**

Miniature Hyacinths, in 3 separate colors.....	Per 1000 \$4.00
Beaded Hyacinths, in 3 colors.....	16.00
Cheap Named Hyacinths, in 10 sorts.....	24.00
Al. Hyacinths, in 10 sorts.....	30.00

**TULIPS.**

Scarlet Due van Thol.....	2.50
Waterloo.....	3.50
Chrysolite.....	4.50
Keterkrook.....	5.50
La Kethe.....	6.50
Proserpine.....	12.50
Ed. de Cleve.....	15.50
Yellow Prince.....	15.50
Marille.....	10.00
Tourmaline.....	10.00
Narcissus von Sion.....	10.00
Spirea Compacta.....	25.00

**WHEN WRITING MENTION THE FLORISTS' EXCHANGE**

**BEGONIAS, TUBEROSES AND GLADIOLI.**

I have to offer an Extra Choice lot of Tuberoses (Repeat Begonias). Single large size, in 4 separate colors—white, pink, yellow and scarlet—at the following prices—100 for \$2.00; 500 for \$8.00; 1,000 for \$14.00.

**EXCELIOR PEARL TUBEROSE BULBS**—Large size at \$1.00 per 100; 500 for \$5.00; 1,000 for \$9.00. Smaller size at \$1.00 per 100; 500 for \$4.00; 1,000 for \$7.00.

**GLADIOLI**—Finest mixed colors on the market. Large size, \$1.00 per 100; 500 for \$5.00; 1,000 for \$9.00. Smaller size, 50c per 100; 500 for \$2.50; 1,000 for \$4.50.

All these Bulbs are the best on the market, and guarantee satisfaction. Prices quoted are for bulbs to be sent by express or freight. If longer quotations are wanted, ask for special quotations. Stock limited, but all orders will be filled promptly as long as it remains unworked. Address  
**F. H. MILLS, Seedman, Box 209, Rose Hill, New York**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**HULSEBROCK BROTHERS,**  
ENGLEWOOD, N. J.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**GET THE BEST**  
**ASTER SEED**  
of the celebrated **Simple Aster**, mixed. Separate colors all sold except pink. Seed well cleaned, plump and good. Crop of 1896. For sale in any desired quantity by  
**JAMES SEMPLE, Box 2, BELLEVUE, PA.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**SPECIAL OFFER.**  
**SWEET PEAS.**

**GLADIOLI**  
—FOR—  
**DEALERS AND FLORISTS.**  
Not cheap stuff to be gotten rid of at any price, but at reasonable rates. Price List on application. State quantity desired.  
**CUSHMAN GLADIOLUS CO.,**  
Mention this Paper.  
**EUCLID, O.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Apple Blossom, rosy-pink.....	Per lb 20c
Bianche Ferry, pink and white.....	20c
Blue.....	20c
Green of England, white.....	20c
Queen of Denmark.....	20c
Lady Penzance rose.....	20c
Blue of Brabant, pink.....	20c
Lottie Eckford, lavender.....	20c
Beau de Cleve, rose white.....	20c
Emily Eckford, ballrose.....	20c
Victorian Belle, rose and white.....	20c
Safety, white and crimson.....	20c
Victoria, cherry.....	20c
Princess of Wales, white and mauve.....	20c
White, pink.....	20c
Carlino, scarlet.....	20c
Princess yellow.....	20c
Capt. of the Blues, blue.....	20c
Countess of India, lavender.....	20c
Generous, peacock and white.....	20c
Comrade of India, rose purple and white.....	20c
Jane, crimson-scarlet.....	20c
All colors, finest mixed.....	15c

Add 5c extra per pound extra if wanted by mail.

**JOHN GARDINER & CO.,**  
P. O. Box 1206, Philadelphia Pa.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**SEEDS for Profit**  
**Flowers Sweet Peas**  
SEEDS  
Wholesale Catalogue on application. Seed Merchants  
**WEBER & DON,** and Grover,  
114 Chambers Street, New York City.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**JAPANESE IMPERIAL**  
**CONVOLYULUS SEED.**  
Very bricbe plants and well cleaned. (Growth by H. E. Amore, 4th American, resident in Japan for 20 years.) A mixture of the finest and most carefully selected strains. \$4.00 per lb.; \$30 per 10 lb. Order at once. Ship's limited. Terms net each 10 days  
**JACKSON & PERKINS CO., Newark, New York.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**BURPEE'S SEEDS**  
PHILADELPHIA  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**PALM SEED.**  
Washingtonia, Sonora, Seed Merchants  
\$1.00 per 500, \$3.00 per 1000, \$5.00.  
**CALIFORNIA NURSERY CO., Niles, Cal.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**NOW IS THE TIME TO ORDER**  
**FRESH STOCK,**  
JUST ARRIVED.  
**Amaryllis Johnsonii,**  
Extra large bulbs.  
**Lilium Auratum,**  
9x11 only.

Send me your list of such stock you will need the coming season, and I will quote you my bottom prices for first-class goods.  
**F. W. O. SCHMITZ,**  
JERSEY CITY, N. J.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**HEADQUARTERS FOR**  
**Callas and Freesia Bulbs**  
**PAMPAS PLUMES,**  
Palm, California Tree and Flower Seeds.  
Please let us book your orders for  
BULBS at once. . . . .  
ASK FOR SPECIAL PRICES.

**GERMAIN FRUIT CO. Los Angeles, Cal.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Seed.** FRESH  
ON HAND

Arceuthobium.....	Per 100 1000 5000
Cucurbit.....	\$1.00 10.00 20.00
Cucurbit.....	1.00 10.00 20.00
" Weddellian.....	1.25 10.00 20.00
Phlox.....	25 200 500
Linnæus Barbatum.....	50 250 750
Phlox Concolor.....	25 200 500
" linnæus.....	100 750 2000
" rectifolia.....	100 750 2000
" papilion.....	100 750 2000
" glauca.....	1.00 8.00 20.00
Washingtonia rubra.....	7.50 75.00 150.00
Zamia integrifolia.....	1.50 10.00 20.00
Asparagus (small).....	1.00 10.00
All kinds and smaller seeds now in stock.	

**J. L. SCHILLER, Rutherford, N. J.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE





### THE CAUSE OF BURSTING PANSES.

#### Bursting, Non-Blooming, Etc.

An inquirer writes me, asking why his *Scilla caroliniana* burst. He has two houses in which they are grown, but they do not bloom. There are about 200 plants in both houses, yet he only has two flowers. The plants were first maintained at a temperature of 55 degrees, then changed to 50 with no better results. They have also been kept in the open air; some of the plants stand three feet high and seem to be making more growth than before. He also gives plenty of water daily.

My correspondent has not given me quite enough description as would like to have. It is often hard, and sometimes impossible, to get at the facts of the case without either having a faithful description or first seeing the plants. However, let us see. First let us ascertain, if we can, why the flowers burst.

The caration, owing to the peculiar structure of the calyx, is more liable than any other flower within my knowledge. The cup-shaped calyx is nature's provision to retain the petals in their proper position, and to give the flower that symmetrical beauty which is sought after and admired in the caration.

From careful observation I am led to believe that the chief cause of the more liable the flower is to burst. The principal reason for this is that in nearly every variety of the flower, the short calyx go hand in hand; in other words, there are too many petals for the calyx and they burst properly, and the inevitable result is that the flower bursts.

At that point of the case can be seen in imperfect seedlings. There are many stages of this trouble, from the grotesque most strongly which seems to have scarcely an calyx at all, and which resembles a small cabbage head rather than a caration, up to the variety which has a normal calyx which gives only an occasional bursted flower. In the extreme grotesque variety, the growth is made of many cold-sized flowers, but not enough material to make one good calyx. In the variety which has a normal calyx which seldom or never bursts, we find the petals growing in and between the calyx, and increasing in length. Just why this should be I do not know any more than I know why the bursted flower bursts. It is through this illustration from nature that I must be guided in our efforts to burst the caration. The same would prevent flowers from bursting we must act on the same principle as does nature.

We have seen that an undue number of petals, or fullness of flower, will invariably cause the calyx to burst. We can all understand the philosophy of a flower bursting when it is naturally so inclined, but we understand it less like most of us, when we see other good variety take on this peculiarity. We must look a little further to find the cause of this peculiarity. The fullness of a calyx can be directly attributed to that receptacle containing more than nature intended for it, and my correspondent's nature's law has been violated when this state of affairs exists.

This bursting of the calyx of varieties not ordinarily subject to it can be brought on in a number of different ways, and while the result may differ from one case to another, they still seem to work in the same channel, and they either singly, collectively, or together, produce practically the same result.

To examine some of the most prominent of these causes and see if any of them be not my correspondent's case. A heavy soil will act very materially this tendency of caration flowers to burst, and my correspondent has just such a soil. Many varieties, however, can be grown in a heavy soil, and it is proper to give plenty of water to bursted flowers. Among these heavy soils may be included, in such a case, how many of the most beautiful and a formidable ally when another or more causes may be present. We know that carations, as well as many other flowers, grow considerably longer in heavy soil than in light soil, and in the case of the caration, the petals will not burst or burst the growth, causing the plants to come more compact and sturdy. While it is an indication that such a soil contains more substance than a plant grown in a very light soil. This extra substance extends to the stem, and the flowers will contain more substance in proportion than any other part of the plant, and the calyx the least. The

tendency of a light soil is to grow and push the plant out quickly, thus giving the flower little opportunity of becoming too full, and the result is that the result is perfect flowers, so far as the bursting is concerned.

Some who have grown *Mimulus Cook*, *Butcher's D'O* or any other variety which is inclined to burst, know full well the advantage of growing such a variety in such a soil. While many varieties get along very well in heavy soil, we always find it best to grow such a variety in a light soil, and to use a medium grade of soil; in this way we combine the advantages of both grades, and we get the best of both worlds; especially in the case of the connection with a heavy soil, which is naturally more retentive than a light one, thus when very fertile, either before sowing, or by repeated applications of liquid manure or mulches, its already natural tendency to produce abnormal flowers is greatly increased.

Some fairly non-bursting varieties, however, like *Daybreak*, which are capable of producing very heavy flowers, will burst in a heavy soil. *Daybreak* is a quick easy grower, and will, even in a light soil, take up enough material to burst. In a heavy soil, it will become abnormally large, and cause a rupture of their arrangement. In such cases the petals are twisted about by the pressure of a portion of them will emerge from the calyx considerably in advance of the others. This particular form of bursting is due to the petals overgrowing, and is confined to such varieties as are similar in growth, etc., to *Daybreak*. This, too, is a most prolific source of bursting when not properly managed.

Some varieties are permitted to overgrow, and will be very little trouble from this source. There are an abundance of varieties which are naturally a soil and allowing it to become fairly dry before watering again, and no good excuse can be given for this. The plants are overgrown, and when the plants are kept too wet, bursting rarely follows, unless induced by other causes. In the case of the latter tends to diminish the chances of bursting, by causing a rapid growth. This is the cause of many of the other diseases, principally bacteria and stem rot. It is the other extreme of allowing the plants to grow in a heavy soil, and in the same conditions as a heavy soil, or overfeeding will do.

Another cause may come very dry their growth is largely suspended; the petals, however, continue to grow more rapidly, and when the water is applied, and the plants freshened, they will burst. The plants in the flower. As we see the shrubs portions and tips of trees, and slender port forth the first leaves in spring, so it is with the caration. When growth has been suspended by withholding water for an unreasonable length of time, the plant will burst the plant to receive the benefit of the sap, the growth of which has been quickened again by the water.

Another cause is that the plant is not watered in the right way. The water is the tips of the shoots, the buds and flowers. In this way the petals undergo the same injury to a certain extent, and the effort to free themselves, must invariably cause the latter to burst.

Another cause of this in sudden changes in temperature. This cause, like all the rest, tends to retard the growth, causing the plant to behave in a manner similar to what they do when the plant becomes very dry. While a sudden drop in temperature may happen during any part of the day, it more frequently occurs at night. The mischief caused is in proportion to the fall of the temperature, and the extent to which the houses remain cold. In this case, instead of water being the means of restoring the plants to their normal condition, which has precisely the same effect as the water has in the case of the dry plants.

Another cause may be that of bursting flowers to prevent and try to explain. Those who have had any experience with stem rot, or rot, or other diseases, or other diseases, have had to notice a large number of flowers burst, when produced by plants so long as they were in the ground, or have existed, which are supposed to produce this defect. Bursting flowers from stem rot, or other diseases, which have been properly treated otherwise, differ very materially from bursted flowers produced by stem rot, or other diseases, and no abnormal development of the petals seems to have taken place, but the petals are very much distorted and partly developed. This form of bursting we must attribute to the impaired action of the or-

ganism of the plant, as a result of the disease with which it is affected. And since stem rot is incurable, it naturally follows that bursting under such circumstances is also incurable.

All the previous causes which I have mentioned in this inquiry can easily cure. My correspondent and any others who will be troubled in the same way can readily cure the plants for themselves when they know the nature of the cause.

Why do plants do not bloom in the earliest plants do not bloom to answer. His plants are too close together; they are deprived of light and air, two of the principal agents in producing a perfect blooming plant. The very tall growth has been attained through the efforts of the tops of the plants; in fact, the light and air there being none about the sides of the plants, they must naturally go upwards to find it, just as trees in a grove do when very close together. I would advise him to remove the work plants; if necessary, take out one-half of the lot; those which are left will produce more and better flowers than the ones left out.

Meantime, if the plants have been regularly fed with liquids or other forms of manure, it is likely that they can use up the surplus which the soil contains.

H. WEBBER.

### JENNINGS' SEEDLING

The only rust proofing commercial scarlet Carnation up to date. . . . .

### TRY IT!

Routed Cuttings, \$1.50 per dozen; \$10 per 100. Unrooted Pips, \$5 per 100; \$45 per 1000.

### JANN BROS. NEW Bedford, Mass.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

### CARNATIONS

All the leading new varieties; good clean, well rooted stock. 100 1000

- Mrs. Chas. H. Duhme, delicate . . . . . 10 75
- Mrs. Geo. M. Bradt, white, . . . . . 10 75
- striped scarlet . . . . . 10 75
- C. A. Dana, shell pink . . . . . 10 75
- Flora Hill, white . . . . . 12 100
- Mrs. McCarney, salmon pink . . . . . 12 100
- Mayor Pingree, yellow . . . . . 10 75
- Morelo, scarlet . . . . . 10 75
- Mad Band, blue . . . . . 10 75
- Lily Dean, white, striped pink . . . . . 10 75
- Harrison's White, white . . . . . 10 75

If not already received send for our price list, which contains all the leading standard varieties at moderate prices.

### F. DORNER & SONS CO., La Fayette, Ind.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

### WON FIRST PRIZE at Spring Exhibition, Mass. Horticultural Society, 1897.

### NEW SEEDLING

### CARNATIONS

originated by Mr. H. A. Cook, of Shrewsbury, Mass., grown by the subscriber, and now being put upon the market as

### NIVEA.

Cuttings now ready and free from rust. \$1.00 per 100; \$35.00 per 500; \$600.00 per 1000.

DAYBREAK, SCOTT, STORM KING, PURITAN, METEOR, GOLDFINCH, HECTOR, ALBERTINI, and others, \$1.25 per 100; \$10.00 per 1000.

DELLA FOX, nice plants from flats, \$4.00 per 100.

CHRYSANTHEMUM CUTTINGS.  
Ivory, Bonaffon, Gold Lodge, Minnie Wannamaker, \$3.00 per 100; \$15 per 1000.

### A. W. HOYLE, Spencer, Mass.

And 51 Withington St., Sta. O., DORCHESTER, MASS. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

### A MISTAKE, MINNIE COOK.

To delay your order for Minnie Cook. Price should be \$3.00 per 100; \$25.00 per 1000.

### MEADOW VIEW GREENHOUSES, PARSIPPANY, N. Y.

### PANSIES

In full bloom, \$30.00 100. Daisy and Forget-me-not. See how to do it. FRED DODDING, 200 East Spring Creek, Woodbridge, N. Y. Near Kings Co. Elevated. Plants produced from 2 1/2 inch diameter. By express, \$1.50 per 100; \$15.00 per 1000.

### PANSIES

Roomer's Prize Pansies, extra fine stock, ready for shipment in September and blinon, transplanted to bud-beds. Plants produced from 2 1/2 inch diameter. By express, \$1.50 per 100; \$15.00 per 1000.

### PETER BROWN, Lancaster, Pa.

### PANSIES! PANSIES!

All the best varieties, strong transplanted plants, ready for shipment. per 100 per 1000. Carnation Cascade, 2 1/2 inch flats, 5.00 per 100; 50.00 per 1000. Red Road, 2 1/2 inch flats, 5.00 per 100; 50.00 per 1000. York, 2 1/2 inch flats, 5.00 per 100; 50.00 per 1000. 1 1/2 inch flats, 5.00 per 100; 50.00 per 1000.

### PANSY PLANTS

"This strain is unsurpassed for size, color and blooming. Large clumps in bloom, \$1.00 per 100; \$8.00 per 1000. Extra stock of plants would bloom next season. By mail, 75 cts. per 100; \$7.00 per 1000. Cuttings, 50 cts. per 100; \$5.00 per 1000. By express, \$1.50 per 100; \$15.00 per 1000.

### ASTER PLANTS, Sample's Branching, Queen of the Market, By mail, 75 cts. per 100; \$7.00 per 1000. By express, \$1.50 per 100; \$15.00 per 1000.

### H. H. TIERMAN, 103 WEST UTICA, N. Y.

### PANSY PLANTS

Large stock, ready to bloom, 50 cts. per 100; \$5.00 per 1000.

### Whitton & Sons, Wholesale Florists, City and Green Streets, - UTICA, N. Y.

### Pansies Worth Raising

We can all furnish good plants, from 60,000, and which may bloom in April, at the time for 1000, 10-cb. express here. Now is the best time to buy; and plants will be guaranteed.

C. Soltan & Co., 199 Grand Jersey City, N. J.

### PANSIES

In splendid culture, large plants for early flowering, \$1.75 per 100; \$15.00 per 1000. Small plants from 1 1/2 inch diameter, \$1.00 per 100; \$10.00 per 1000. Plants produced by mail—Blossoms, 2 1/2 inch flats, \$7.50 per 100; \$75.00 per 1000. Carnation mixed varieties, 50 cts. per 100; \$5.00 per 1000. Blue, 50 cts. per 100; \$5.00 per 1000. Favorite, double white, Gem, 1.25 per 100; \$12.50 per 1000. See a full catalogue. One-fourth quantity at same rate.

### W. C. JENNISON, Natick, Mass.

### In Bloom

The Finest Pansies in the World.

ROEMER'S GIGANT PRIZE PANSIES, in splendid culture; strong transplanted plants from cold frame, at bud stage. \$2.00 per 100, or \$15.00 per 1000 by express.

MAX. E. KRAUS, 203 DARTMOUTH AVE., NEW HAVEN, Conn.

### PANSIES.

THE JENNINGS STRAIN OF Finest American Growth Pansies are up to date and easy to please. Fine stock plants from cold frame in bud stage, large downing in great variety of colors. By express \$3.00 per 100; \$15.00 per 1000. See a full catalogue. Cash with order.

### E. B. JENNINGS, Lock Box Southport, Conn.

### BROWER OF THE FINEST PANSIES.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

Plants for Easter.

All the bustle and excitement, at present among the large growing establishments, at Bay Ridge, N. Y., where Easter stock is raised on a very extensive scale...

James Dean will have the usual quota of these plants. He has, in addition, some of the larger size of genistas, spiraea, etc. These are all in elegant condition...

As regards carnations, Mr. Dean has in the city a fine lot of these plants. Although the foliage may not be so good as that on imported azaleas...

Mr. Dean does not believe there will be any large demand either for geraniums or carnations. The fine large specimens of the former, seen here in previous years...

Regarding hydrangeas, the tremendous forcing and other treatment they have been subjected to by florists who have killed their sale, says Mr. Dean...

Mr. Keller says: "Grow them slowly and rather cool, giving plenty of air, and there is no difficulty."

Jas. Weir & Sons was well prepared for a business season of this character. Their immense stock is mostly sold by the firm's stores. The lilacs are in very fine condition...

Milwaukee.

An item in THE FLORISTS' EXCHANGE in the issue of March 20, relating to the resignation of W. S. Scott, of the firm of Edliffen & Scott, did that gentleman an injustice...

GERANIUMS—Double Grant, La France, fine, 25¢ each; out of 25¢ each, 25¢ per 100...

CARNATIONS—Daybreak, McGowan, Wm. Scott, Portia, from \$1.00 per 100.

PAUL MADER, East Stroudsburg, Pa. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

WELL ROOTED CUTTINGS. Hardy Pinka, Her Majesty, May and the rest...

A. B. DAVIS & SON, Purcellville, Va. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

HEALTHY STOCK Well rooted ELDORADO, the most profitable yellow to date...

E. J. CLOUD, L. B. 32, Avondale, Pa. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

GARNATIONS Daybreak, Scott, Tidal and other fine varieties, 25¢ per 100.

JOSEPH REWARD, Unionville, Chester Pa. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

Rooted Cuttings. Rooted cuttings, in cash prices.

CARNATIONS. Wm. Scott, transplanted in soil, fine varieties...

FRYER, Railroad Ave. and Hill St., Brooklyn, N. Y. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

Novelties of Malmaison Carnation. Self color, 3 to 4 inches across, very fragrant...

CASH WITH ORDER, PLEASE. ALBERT KNAPPER, Frankford, Phila. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

EVERY FLORIST OUGHT TO INSURE HIS GLASS AGAINST FIRE.

For particulars address: JOHN G. BELIER, Secy, Saddle River, N. J. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

Carnations, Etc. HIGH GRADE ROOTED CUTTINGS.

Write for price list. H. WEBER & SONS, P. O. Box 67, OAKLAND, Md. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

CARNATION AND COLEUS CUTTINGS. Order in advance. The following varieties free from rust...

GEO. M. EMMANS, Newton, N. H. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

MORELLO The New Scarlet. From soil.

HOPP & LEMKE, East Grand Rapids, Mich. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

GERANIUMS Double Grant 2 1/2 in., 25¢ per 100.

EVERITT & INSALL, Hackettstown, N. J. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

GALLERT & CO. CARNATION GROWERS COLMA, SAN MATEO CO., CAL.

ROOTED CARNATION CUTTINGS. Scott and Portia, 25¢ per 100.

THE BOOL FLORAL CO., Ithaca, N. Y. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

Carnations. Major Pingree, Major, McGowan, Daybreak, Scott, Fortia and other good ones.

Good Healthy ROSES for Spring Stock. Send for price list. CUT ROSES and CARNATIONS always in stock.

H. DALE & SONS, Brampton, Ont. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

HERE'S YOUR CHANCE!! We are going out of business, and will sell at less than half price to close out.

Clean Strong GARNATIONS. Major, Scott, Albert, Almack, Minnie Cook, Rose Queen, Triumph, McGowan...

G. PILLSBURY & SON, Nashua, N. H. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

Pays Well Even out of Season. My advt. in regard to the Model carnation supply list...

Brooklyn, N. Y., March 30, '97.

Garnations and Violets. California 1, B. Campbell, Laguna, 75 cts. per 100...

P. M. DEWITT, Torrance, Philadelphia, Pa. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

G. H. SIEBERT THE RESTLESS SLEEPLESS FLORIST OF PITTSBURGH, PA. GROWS, SELLS CARNATIONS THAT PAY.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

50,000 ORNATIONS. ROOTED CUTTINGS, FLAT GROWN.

L. CHINARD, 15 QUAI ST. ANTOINE, Lyons, France, who has made a specialty of these articles for many years past...

HENRY A. NIEMEYER, Erie, Pa. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

GARNATION CUTTINGS. Strong and well rooted, of the following varieties: Jubilee, Triumph, Armazidy, Alaska, Eridonias...

PRIMULAS, 2 1/2 inch, 25¢ per 100. Send for list and prices on large lots.

HERB'S CARNATIONS. If the Cuttings are not satisfactory, you return them at my expense.

ALBERT M. HERR, L. B. 496, Lancaster, Pa. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

ROOTED CUTTINGS. CARNATIONS. Mrs. Chas. Duhme (Dorner) 375. Mrs. Geo. M. Brown (Dorner) 90.

Wm. Scott, Per 100 7.50. Little McGowan, 1.00. Daybreak & Storm King, 1.50. Mrs. Fisher, 1.25. Meteor, All sold. Eldorado, 2.00. Mrs. A. Ann Webb, 12.50. Thos. Carlidge, 1.50.

EDW. J. TAYLOR, Wholesale Garnation Grower. Cash or Reference. SOUTH BRIDGE CORNER, CONN. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

## CARNATIONS

Anna Webb, Helen Keller, Daybreak, Albertini, Cartledge, Van Leeuwen, Optelia, \$1.50 per 100; \$12.00 per 1000  
The price quoted last week was a mistake. For list of other varieties see last week's issue.

### CHRYSANTHEMUMS

44 varieties, including Mrs. Perrin, Wm. Simpson, Pink Ivory, Liberty, Riama, and the best of the standard varieties at moderate prices. Cash with order.

**JOHN HACKETT & CO.,** 62d St., near Elmwood Ave., PHILADELPHIA, PA.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## FAMOUS CARNATION DELLA FOX!

MYERS & SAITMAN, Wyndmoor, Chestnut Hill, Phila.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

### PROFITABLE CARNATIONS

Are the ones you want to grow this year. The time is too hard for you to grow poor carnations. Careless buyers have been greatly improved during the past few years. We have as good as can be produced up to date. Our stock is well rooted, very much of it being transplanted into soil and well established, but we have not raised our price for this. Send us your orders and we feel sure you will be satisfied. Special prices on large lots.

Here are a few quotations. Terms cash with order.

Marole, new scarlet, extra fine.....	\$10.00	\$75.00	Delta Fox, beautiful pink.....	.....	\$4.00	\$35.00
Floia Will, white, large and free.....	12.00	100.00	Jubilee, large, scarlet.....	.....	6.00	50.00
Mrs. McDermey, light pink, large.....	12.00	100.00	Ozark, extremely light scarlet.....	.....	4.00	25.00
Harrison's White, Sport from Scott.....	10.00	75.00	Dahbuck, soft, delicate pink.....	.....	2.00	15.00
Wayne Pique, yellow, large, free.....	10.00	75.00	Wm. Scott, clear bright pink.....	.....	2.00	15.00
Mrs. Dahme, clear pink, free, early.....	10.00	75.00	Rose Queen, rose tinted, free.....	.....	2.50	20.00
Mrs. White, marked pink.....	12.00	100.00	Bridesmaid, large, clear pink.....	.....	2.50	20.00
C. A. Dana, shell pink, fine.....	12.00	100.00	Mrs. Armstrong, one of the best.....	.....	2.50	20.00
Lizka white, marked pink.....	10.00	75.00	Wm. McDermey, white, large, free.....	.....	2.00	15.00
Maud Dean, white, bush center.....	10.00	75.00				
Ivory, very productive, white.....	3.00	25.00				

per 100 per 1000

per 100 per 1000

**CEO. HANCOCK & SON,**  
11 - Grand Haven, Mich.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## THE COTTAGE GARDENS, Queens, L. I.

SPECIALISTS IN  
Carnations, Cannas, Chrysanthemums,  
Geraniums and Dahlias.

MENTION PAPER. SEND FOR OUR PRICE LIST.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## SEEDLING CARNATIONS for 1897.

### CAPT. KING.

Variegated White and Pink, an early and continuous bloomer, very fragrant and a good shipper. Extra long and stiff, an exceedingly attractive and profitable variety.

**JOSEPH JEFFERSON.** Deep Pink, very large and showy flowers, on long, stiff stems, good resembling *Thun. Cartledge*, much larger flower.

Send For Wholesale List of New and Standard Carnations. Stock Strong and Healthy. **NO RUST.**

**G. J. PENNOCK, The Pines, KENNETT SQUARE, PA.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## THE CARNATION NOVELTIES, MAYOR PINGREE AND MORELLO

Other new sorts, also noted introductions, and well-known standards, Our Fine New Illustrated Catalogue Now Ready. FREE.

### DAN'L B. LONG,

Jobbing Florist and Growers' Agent, BUFFALO N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## NEW... CARNATION JUBILEE

IT IS A WINNER: YOU WILL GET LEFT WITHOUT IT.

Strong, Healthy Cuttings, Free From Rust, Rooted Cool.

	Per 100	Per 1000		Per 100	Per 1000
Jubilee.....	\$5.00	\$45.00	Eldorado.....	\$3.00	\$25.00
Mrs. Geo. M. Bradt.....	10.00	75.00	Meteor.....	2.50	15.00
Mrs. C. H. Drum.....	10.00	75.00	Bridesmaid.....	3.00	25.00
Morello.....	10.00	75.00	Albertini.....	3.00	25.00
Mayor Pingree.....	10.00	75.00	Lizka McDermey.....	1.00	10.00
Delta Fox.....	4.00	35.00	Alaska.....	2.00	15.00
Wm. Scott.....	4.00	35.00	Portia.....	1.00	6.00
Triumph.....	5.00	40.00	Peacemaker.....	1.00	8.00
Armada.....	4.00	35.00	Tidal Wave.....	1.50	10.00
Emma Woeber.....	4.00	35.00			
Rose Queen.....	2.00	15.00			

Terms, Cash with Order. Send for Wholesale List. Address FOREST CITY, GREENHOUSES, ROCKFORD, ILL.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## BATHS CARNATIONS

The following selection of Winter Flowering Carnations contains all the newest and most profitable market varieties yet introduced, they are all exceptionally vigorous, the flowers are large, with perfect calyx, and most profuse bloomers.

### CANARY BIRD.

Large yellow, with a bright scarlet edge, the flower is full and well formed. \$1.50 per doz.; \$11.00 per 100.

### DUKE OF YORK.

Flowers very large and full, on long stiff stems, color very rich, yellow scarlet-crimson, close perfumed. The plant is exceptionally vigorous. Certified R. H. S. London. \$1.25 per doz.; \$9.00 per 100.

### HENRY GIBBONS.

Flowers large and full, very bright crimson-crimson, continuous and of vigorous constitution. \$1.75 per doz.; \$12.00 per 100.

### LEONIDAS.

A magnificent variety, bright crimson-scarlet, large flower, continuous and very free. Certified R. H. S. London. \$1.50 per doz.; \$10.00 per 100.

The above are all strongly rooted plants from 3/4 in. pots. Packing free, and freight paid to New York, Boston, or Philadelphia.

Cash with Order, or Satisfactory Reference.

My collection of carnations for growing up the open field in one of the finest in Europe. Full catalogue free on application.

### R. H. DATH, THE FLORAL FARM, OSBECH, ENG.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## Harrison's White.

NEW CARNATION, SPORT FROM WM. SCOTT.

40,000 SOLE UP-TO-DATE.

All leading Carnationists are purchasers.

Strong, vigorous growth, requiring no support.

Described and illustrated in *Flourists Exchange*, 2/1, page 164.

### COME AND SEE IT.

Price: \$70.00 per 100, \$600.00 per 500, \$70.00 per 1000

Cash or satisfactory reference. All orders filled in rotation.

**JOHN HARRISON,**  
Near Bidwell  
739 Bergen Ave., Ave. Greenville  
JELISEY CITY, N. J.

Take Daytime or Afternoon Car from Pennsylvania R. R. Ferry sold at Bidwell Ave.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## NEW YELLOW CARNATION

### MAYOR PINGREE

BESTHER BROS., Canal Dover, O.

THE CORNELL UNIVERSITY,  
College of Agriculture,  
L. H. BAILEY, Prof. of Horticulture,  
ITHACA, N. Y.

Mr. FRED BREITMEYER,  
MT. CLEMENS, MICH.

Dear Sir:—Regarding the Mayor Pique Carnation, I have traveled extensively the few years past and have viewed nearly all the new varieties introduced in their original habitat, but none have pleased me so well as M. P. as to growth, freedom of bloom; in fact nearly every essential factor that goes towards making the perfect carnation. I have been pleased to see that you have crossed it with many other kinds and for crossing it seems admirable. We have some seedlings that doubtless will give us something very fine, if vigorous growth is any criterion upon which we may pin our hopes, etc.

Any one who does not secure some plants of it will make a mistake, doubt so to those who are in the fascinating part of plant breeding. Thanking you for the plants you sent, etc.

CHAS. BETSCHER.

P. S.—As a pot-plant I know of nothing that has the stamina of Pique.

Ready Now. \$1.50 Per Doz.; \$10 Per 100; \$75 Per 1000.

—FOR SALE BY—  
**JOHN BREITMEYER & SONS,** THE COTTAGE GARDENS,  
Miami and Grant Aves., DETROIT, MICH. QUEENS, L. I.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Mr. FRED BREITMEYER,  
MT. CLEMENS, MICH.

Dear Sir:—Regarding the Mayor Pique Carnation, I have traveled extensively the few years past and have viewed nearly all the new varieties introduced in their original habitat, but none have pleased me so well as M. P. as to growth, freedom of bloom; in fact nearly every essential factor that goes towards making the perfect carnation. I have been pleased to see that you have crossed it with many other kinds and for crossing it seems admirable. We have some seedlings that doubtless will give us something very fine, if vigorous growth is any criterion upon which we may pin our hopes, etc.

Any one who does not secure some plants of it will make a mistake, doubt so to those who are in the fascinating part of plant breeding. Thanking you for the plants you sent, etc.

CHAS. BETSCHER.

P. S.—As a pot-plant I know of nothing that has the stamina of Pique.

Ready Now. \$1.50 Per Doz.; \$10 Per 100; \$75 Per 1000.

—FOR SALE BY—  
**JOHN BREITMEYER & SONS,** THE COTTAGE GARDENS,  
Miami and Grant Aves., DETROIT, MICH. QUEENS, L. I.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## BEST ANSWERS TO QUESTIONS

OPEN TO ALL. FREE TO ALL.  
Answers Solicited from Those Who Know.

(84) Golden-Yelled Aethiops Japonica.—The European gardeners have not observed the variegation; we have seen it occur several times, but never found it constant.

(85) Scotch Heath, Ottawa.—The Scotch heath grows in this country except in botanical gardens. If you have references to the plants made by the name of Scotch heath, and as a selling card named "Scotch heather," but which are not natives of Scotland at all, we know of no one other stocks at present. Those who have them are growing for their own trade.

(86) Remedy Wanted for Winged Green.—Can any of your readers give directions for ridding greenhouses of what I call, for want of a better name, "winged ants"? They infest the carnations and rose beds, indeed, everything about the greenhouses, and are doing great damage. The woodwork of these houses was soaked in crude oil at the time of building, but that has not prevented these pests from coming in. The flies are common on the benches as well as large quantities of the plants.

(87) Violas.—J. The experience of the New York market this season has been that violets are being more extensively grown than ever before, and, further, that the flowers have been better in quality—that is, there has been a larger number of successful growers. On the other hand, the public expression of opinion has a proportionally increased desire for violas, and certainly has refused to pay the fancy prices obtainable.

Why growers persist in raising single violets is a question for them to answer. I do not notice any change in the part of the retail trade in this city to use single violas, excepting the very fine new sorts which are when introduced by the Princess of Wales, etc. Of course, the supply of these has been limited.

(88) Heating by Coll Boilers.—We have built coll boilers of 2-inch pipes, 6 feet long. We want to heat eight houses, 10 feet wide and 75 feet long, containing 200 feet of return and 100 feet of steam, using 2-inch flow and 1½-inch returns, two returns to one flow. Have we sufficient to heat these houses in the winter, in glass in zero weather? Location is protected from the north wind. How many returns and ends? If not sufficient for eight, how many houses would the piping mentioned heat?

VIOLATEUR.  
—Provided there is no glass in the side walls, the radiation, at proposed—1800 square feet for the eight houses—arranged as two 2-inch flows and four 1½-inch returns, should be ample. Considering economy of fuel ions, this will be the preferable way of arranging the radiation in the houses, as it will be "ridge and furrow" plan, and measure no more than 255 feet from ridge to the side walls, or 255 feet from the side wall to one 2-inch flow and four 1½-inch returns, although the temperature will drop to 40 through in very severe weather.

There must be some mistake about the size of the pipes, as the return number stated—five 1½-inch, each 6 feet long—would be utterly inadequate. While a larger number of pipes would be preferred, five 2-inch 3-pipe pipes of the above length, with a grate 24½ feet.

(89) Heating by Steam.—I have a house which contains violas, and has two flows and two returns, all 2-inch pipes; and I notice when the two flows are working the steam seems to be lost much quicker than when two or three 2-inch pipes constitute the returns. I have occasion to see that the radiation is the principle, but before doing so would like to get the steam engine, or circulator, working in the practical working of condensation. If it is necessary to have more returns than flows, please explain.

A READER.  
—I am not sure that I understand what is meant by "circulates quicker." It may be that when the additional returns are used the radiation is less, and the boiler can supply, in any case it will be only when it is fired hard that the pipes will be filled with steam. In arranging

the piping we only attempt to secure the required amount of radiation, and to have their level so adjusted that the condensed water will run back to the boiler. We may connect the supply pipes with the return pipes at the boiler, or let them fall through the house, and at the farther end connect a pipe to carry the return water to the boiler; or, better, run a single supply pipe overhead to the farther end, where it can be connected with the return pipe at the boiler, and have the coll boiler.

There are, of course, other ways of arranging the pipes, such as having the same amount of flow and return pipes put together in a single 4-inch carrier, allowing except for the flows, if I were to use steam to supply radiating surfaces, I should use one of them as a return for each coil, and place in the coils the number of pipes required to give the needed radiation, running them all down hill.

L. R. TAFT.

(90) Heating by Coll Boiler.—We wish to heat a house of 20x30 inches, 7 feet span, long, side to the south, by a coll boiler of 2-inch pipe to maintain a temperature of 60 degrees in the room on one side hill, protected on north side; has one bench and two solid beds. Side walls are made of brick, and are covered and packed with sawdust; no glass in ends; would prefer to have boiler at north end, and have the place for the boiler. How many 1½-inch returns would we need to maintain this temperature, and how would the place be placed? How many feet of pipe in coll with grate surface, 20x30 inches?

WRIGHT & HOWLER.

—For a house of the size described, the grate would be large, but 20x30 inches. This will require a fire surface in the heating coils of 84 square feet, or about 13½ linear feet of 2-inch pipe. To heat the house to 65 degrees, ten 1½-inch returns in addition to the two 2-inch flows will be required, or a total of about 20x30 inches. This will require a fire surface in the heating coils of 84 square feet, or about 13½ linear feet of 2-inch pipe. To heat the house to 65 degrees, ten 1½-inch returns in addition to the two 2-inch flows will be required, or a total of about 20x30 inches. This will require a fire surface in the heating coils of 84 square feet, or about 13½ linear feet of 2-inch pipe.

(91) Heating.—I have the following greenhouses: (1) a propagating house 8x40 feet, (2) a carnation house 16x80 feet, (3) a carnation house 16x80 feet, (4) a carnation house 28x30 feet. No. 1 is heated by 85 linear feet of 2-inch pipe; No. 2 and 3 are heated by 160 feet of 2-inch 8-inch terra cotta pipe; No. 4 is 170 feet of 2-inch pipe; and No. 4 will be heated by one 2-inch flow and twelve 1½-inch returns. The heater has a grate surface 28x36 inches. The heating surface on each side of the fire is supplied by 160 feet of 2-inch pipe, 8½ feet long, and form the sides and top of the fire box, while the others are ten feet long, and form the sides and top of the end of the smoke flues. These pipes are all 1½ inch, and are connected at the ends by a single 4-inch pipe, and run through all of the pipes on that side. The top of the arch is 28 inches above the grate. How many returns or ends do you suggest?

R. P.

The size of the grate is all right, but I should prefer to add from 35 to 80 per cent. to the amount of fire surface, and thus secure the desired temperature. We're not that the flues are used to heat one house, the fire surface should be increased from 80 to 100 per cent. to secure economy in fuel consumption. The top of the arch is at least ten inches higher from the grate than the sides, and this is a result. On each side the pipes are so connected that the water has to pass through twenty seven return bends in one circuit of the heater, which cannot but impede the circulation of the water, and shorten and straighten the circuit.

The radiating surface in house No. 1 (8x40 feet) is about two mow pipes. If a temperature of more than 50 degrees is required, the flues, perhaps, all right, depending upon the conditions. No. 3 (8x40 feet, for violas) would be best heated by one 2-inch flow and four 1½-inch pipes. In No. 4 (28x30 feet, for carnations) the 2-inch flow should not have a return pipe, but the 1½-inch pipes should be to heat the house properly it will be best to use three 2-inch flows, and either one 1½-inch or fourteen 1-inch returns.

L. R. TAFT.

(92) Carnations.—In looking over back numbers of the EXCHANGE, I fall to find anything that will throw light on several points about which I would like to know to have information. (1) In receiving carnation cuttings or plants from the distributor, should I dip the field at once without injury? (2) What is the best method of dipping carnation cuttings in Massachusetts? (3) Where lime is used in the soil, in open ground, should it be applied in any way, and what proportion is used? A. H. BROWN.

(1) If the plants are from pots or soil, have become well established and have not been injured by tearing too much soil from the roots, packed properly, and have been kept in a cool place, they will be perfectly safe to be transferred directly to the field, after first dipping the roots in water. This may also be done with cuttings from the sand, providing they are healthy and strong, and conditions are favorable for planting. When plants come a long distance and have become rather dry during transit, they should be thoroughly soaked with water and put in a cool, shaded place (not dark), to freshen up, and then be planted in the field, ready for planting at the time of arrival, the plants being kept a few days in flats without water, until they have well settled in the soil, by putting them in a cool place, either to procure plants from soil, or to purchase the cuttings at once and grow them in flats. This is the best method of planting in the field. Such plants will give better satisfaction than cuttings transferred from the soil, and will root better.

(2) This can only be answered intelligently by a resident of your own locality. We commence planting about the middle of May. This may vary a little according to the season. We are guided in this by the weather, and are sure to avoid any injurious frosts are over. The sooner the plants are planted after this time the better.

(3) Before lime is applied to the soil it must be slacked. The action of the lime will be applied to the soil, and it is distributed over the field in small pits. It will depend on your soil and the condition of the soil, and the condition of the soil. If it is rich in vegetable matter and contains 20 to 25 bushels per acre is a safe quantity, and will be beneficial for use. If it is rich in vegetable matter and contains 20 to 25 bushels per acre is a safe quantity, and will be beneficial for use. If it is rich in vegetable matter and contains 20 to 25 bushels per acre is a safe quantity, and will be beneficial for use. If it is rich in vegetable matter and contains 20 to 25 bushels per acre is a safe quantity, and will be beneficial for use.

H. WEBER.

## Hot Water Under Pressure.

Paper read by J. D. Fitch, of Henry A. Drer, Inc., before the Philadelphia Florists' Club, April 8, 1897.

It is interesting to me to speak on the subject of heating with hot water under pressure. I presume it has been the object of the club for me to show what results have been obtained in this line. Now, I wish to state right here that while I champion the hot water system of heating, I have never been known to be confined to conditions that exist at our Riverton plant, where it is impossible on account of the location to be applied to a pit sufficiently deep to return the condensed steam to the boilers by gravity, which makes necessary to use either a pump or a patent steam trap for the purpose. I therefore wish to impress that I am simply referring to the conditions under these conditions, and am not ready to condemn steam heating for all conditions and for all parts of the country, but as we have placed here in with the hot water system as not being applied by us, that I would not think of changing from it, even were it to erect a plant on a hillside where the conditions favorable conditions existed for steam heating.

I will not attempt to describe in complete detail the system we have adopted for us, as it is next to impossible to do this in a comprehensible manner without extensive explanation, and I do not think it necessary, as the plant has been seen by almost all of the members present. I would, however, like to mention a few points in the range of glass erected last summer both up-hill and down-hill piping, and in connection with the same, the use of the run of pipes with the most satisfactory results; our boilers are located centrally, and the pipes are of uniform size, and the sizes we are enabled to reach the most dis-

tant points, nearly 400 feet from the boilers, sufficiently quick to prevent any serious drop in the temperature, even in the coldest weather, and in the winter.

## Selection of Boilers.

The same as with steam heating, the most important point to begin with is to select the boiler that will give the most work for the least money. It is not a junk shop for this and buy up any old kettle that you find lying on a lot, which you may see at a bargain, and which may be pulled out of some manufacturing establishment because it was not large enough, or because it was not of the right size, or about used up, and is no more fit for the manufacture of plants or cut flowers than the boiler that you find lying on a lot. In our own work we use the horizontal tubular style of boilers, with a few alterations, and we have had a large experience without a steam dome, and the entire shell is filled with tubes right to the top. The shell is 50 inches in diameter, and contains thirty-five 4-inch tubes; they are bricked in in such a manner that the gases first pass under the shell of the boiler, returning through the lower sixteen tubes to the front and back to the smokestack through the upper sixteen tubes. The gases travel forty-eight feet before reaching the smokestack, and having six feet to heat for waste.

## Theory and Practice.

There is no doubt that in this city hot water heating is not so well adapted to the plants as steam heating, and it is well known that there are still many plants for us to learn. The fact that we were once a few years since condemned the practice, and we have found perfectly practical, and, while true, the best practice, can never be so varied, and there is a great improvement being out by men of limited experience which they are not able to do.

In 1892 we built a range of six houses covering a space 105 feet long by 156 feet wide, and having a total of 1000 feet of piping, operated by two cast iron patent boilers; the piping was arranged according to the plan of the boiler, and the boiler was low enough to allow of an up-grade to the flow pipes to the farthest point, returning pipes being arranged to the boiler, the boilers low enough to allow of an up-grade to the flow pipes to the farthest point, returning pipes being arranged to the boiler, the boilers low enough to allow of an up-grade to the flow pipes to the farthest point, returning pipes being arranged to the boiler.

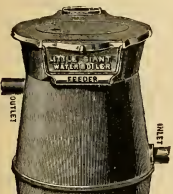
In 1886 we built a range of glass covering an area of 175 feet by 252 feet, and our engineers, Mr. J. D. Fitch, and Mr. H. Weber, in deciding on this, we took the safe course of calling into consultation several of the best engineers of the city. An important factor in the problem was the fact that water lies very close to the surface of the ground, and the boiler was at the point where these buildings were to be erected, which necessitated the construction of very expensive water lift pits, should we adopt the current construction of Roberts' boiler; to obviate this, one of our engineers, Mr. J. D. Fitch, of the De-Perre Machine Co., of Collegeville, Pa., proposed to place the boilers above ground, and to have the water lift pits at a lower elevation, then dropping down to the lowest points from which the pipes were to be drawn, and to have the reversal of current practice, and of the limited theory then extant, and as we consulted several of the best engineers of the city, we did not feel justified in taking the risk of expending the large sum of money on a plan which might fail; we, therefore, followed the old idea, at a cost of many thousands of dollars, and we have had a safe and suitable watertight pits for the boilers.

The system consisted of four forty-five foot steel return tubular boilers as described before and coils of two-inch pipe. This system worked excellently, but the water was not of uniform temperature as uniform as might be desired, but showed the sought after economy in consumption of fuel. The system consisted of four forty-five foot steel return tubular boilers as described before and coils of two-inch pipe. This system worked excellently, but the water was not of uniform temperature as uniform as might be desired, but showed the sought after economy in consumption of fuel.

## The Elevated Boiler System.

In 1896 we duplicated the houses we have built in 1886, and we have had a safe and suitable watertight pits for the boilers. The year before in setting our boilers, we again called on Mr. Roberts, who had been called on by several other planters on the elevated boiler system, which were being operated satisfactorily. The fact that we were once a few years since condemned the practice, and we have found perfectly practical, and, while true, the best practice, can never be so varied, and there is a great improvement being out by men of limited experience which they are not able to do.

volume caused by expansion by the heat, rises and a colder and heavier atom descends to take its place. We then have a certain volume of water which by the power due to difference of the specific gravities of its atoms, must be moved with sufficient rapidity to supply enough heat upon it to maintain the required temperature against the resistance due to friction.



Little Giant Heater.

to be provided and maintained. Our expense and the cost of running a 2 inch pipe about balance the advantages gained in radiation, and the disadvantages of cost are more than made up for by the same. In other words, a 2 inch pipe is better than a larger one, because of more economical cost and the saving of the system in the case of more economical cost of erection and operation. The attention required in running a hot water plant are also much less than a steam plant of the same capacity. We have a furnace of the capacity of 50-horsepower at night and remains until 6 o'clock in the morning, when it is considered that it is able in the morning to take care of after the eleven boilers amounting in all to 430 horse-power; that these boilers are in four different pits to make a full round of which by must each time travel about 400 yards; it will fully illustrate the economy of the system in the saving of labor. The man doing the firing has no other duties to perform, he being guided in his work by the thermometer and the temperatures as noted by the watchman. With a steam plant of same capacity, one man could not be able to attend to the work thoroughly.

**Comparative Cost of Coal.**

To show the relative consumption and comparative cost of fuel between the two systems of heating, I have selected the following figures for comparison with steam, consisting of 45,000 square feet of glass, against which I have placed that erected in four different pits, which consists of 52,000 square feet of glass, and which is filled up with hot water under pressure, which is raised by an elevated tank from which the pressure varies from 12 to 15 pounds. This enables us to make the water heating run at 100 degrees, or 12 degrees above the boiling point; our houses, however, are piped so as to heat more readily than we push it to be boiling point.

The average temperature maintained in heat supplied by steam is 100 degrees, whereas, so the figures given will illustrate very closely the work done by the different power house, it might be said that the houses heated with steam are all the oil stoves of houses, while the water heating is a great deal better than the gutters elevated 6 1/2 feet above the walk. Now, as many growers maintain that the power house is a regular boiler to warm a house of this size on account of the greater volume of air, this space, if filled with water, would be a great deal more than has been taken into consideration in my estimate, and would throw so much more heat into the room.

I have selected the three months, January, February and March, 1896, as a basis for my observations as three average winter months, and find as follows:

To heat the 45,000 square feet of glass with steam we use in ordinary weather one 45-horse power horizontal tubular boiler and a boiler of same capacity; these are supplemented in severe weather by another 45-horse power tubular boiler, making in all 150-horse power for the 45,000 square feet of glass; now this same amount of power is required to run a pump and an engine for supplying power to a small circular saw, and other machinery, and the cost of coal consumed to furnish this power I have been unable to separate from the total consumption, but have estimated that allowance is 10 per cent as being used for this purpose during the three months would be a fair allowance.

The consumption of steam heat during the three months 355 tons of buckwheat coal, deducting 90 tons as being the quantity of coal consumed to run the engine, totals, at \$1.70 per ton make a total of \$450.50 for heating the 45,000 square feet of glass during the three months, or \$10 per 1,000 square feet of glass surface for the three months. During the three months 52,000 square feet of glass heated with hot water by three depressed horizontal tubular boilers of 45-horse power each, and 125-horse power in all, consumed 245 tons of the same quality of fuel, which at \$1.70 per ton makes a total of \$416.50, or 125 cents per 1,000 square feet, or a saving of 20 per cent over the steam plant.

I regret not to be able to show a similar comparison between the above described steam plant and the block of houses with elevated pipes, but I feel satisfied that a further saving of at least 5 per cent, more could be shown. The water heating system, as described of the main pipe, that enables us to get a quicker circulation of the water and consequently a greater surface power with the pushing of the boilers.

**Sweet Peas.**

A second bulletin on sweet peas (127, by Messrs. A. P. Wyman and M. G. Kahn) has just been issued by the Agricultural Department of Cornell University Experiment Station, Ithaca, N. Y. The following are the varieties which are listed relative to a selection of varieties:

"It is a great advantage, of course, in the selection of varieties to know just what to get, and when a wise man purchases he gets the very best. At the University of California, the varieties of Burpee selected independently the four varieties which each considered the best. Mr. Hutchins, of the University, has Mrs. Eckford, Lady Penzance, Ramona. Mr. Burpee's choice agreed with this as to the best variety for market, but Mr. Burpee, his choice for the others Mrs. Joseph Chamberlain and Blanche Burpee. No selection by either of these men, of course, carries much weight, but when they agree upon any one or two varieties as being the best of all, their choice is not to be disputed. Besides this, the Station experiment plot has been closely watched and the best representatives in all points of each of the classes which have been named above as they have grown here, have been reported. They are (in my opinion):

- DARE PURE.—Waverly, Duke of Clarence.
- STRIPED PURE.—Gray Friar, Jantia, Senator.
- LADY BURPEE.—Countess of Radnor, Lottie Eckford.
- WHITE.—The Bride, Emily Henderson.
- SPRING OF FLOWERS.—Eckford.
- WHITE, FLOUSED WITH PINK.—Blushing Beauty, Katherine Tracy, Eliza Eckford.
- SPRING OF FLOWERS.—Ramona.
- ORANGE PINK.—Lady Penzance, Meteor.
- ROSE PINK.—Cherry Blossom, Splendor.
- ROSE PINK, SHADED WITH ORANGE.—Frisby, Princess Victoria.

It is really very simple those of this experiment plot. Blanche Burpee, I suppose, ought to have come before Emily Henderson, but it has been so long since she came up to expectation here and consequently must drop out. No doubt the best of the best is in the hands of the University. We hope that in this list is the cream of most that is good in sweet peas. It is said that the University is inferior to Blanche Burpee, but it is notched, does not spread, but it is inferior to the latter and has a tinge of green as the latter does not. Nevertheless, with us in the market, it is the best of the best. While full grown individual blossoms possess all the qualities said of it, most of the plants are inferior to the best of the best maturity, and consequently do not set the parent expected of them. Of the strip pink, Ramona and Mrs. Joseph Chamberlain ought really not to be compared, as they are of a wholly different shade of pink. Ramona may be put out only because it is perhaps the more refined. Mention of the dwarf Cupid must not be omitted. Cupid is no other thing of beauty. Mr. Hutchins, however, considers it well worth the introduction into the market, on the basis of the variety cross with the tall varieties, that one may be made to produce a fine blossom at a more convenient height."

**St. Louis.**

Bad Weather Induces Bad Business. The announcement, in my last letter, of the arrival of Spring, was premature; since last Monday we have had all sorts of weather. The weather was erratic, the weather; sunshine buoyed prices the early part of the week, but the rainfall caused prices to fluctuate in unsettled fashion. A very early report that fair, but many of them did very little business, in fact, some say the past week was the worst of the season. The 25,000 quart storage and millinery operations took place and helped to prevent congestion of the market. The market is somewhat better, but not so good as prices which enabled them to sell roses early. The roses were abundant, but not a great deal of stock of fair quality met with clients. The only lot of roses were bruised or short-stem stock. Meteor continues to come in of old color and built-in quality. The roses were of average quality. Peris was in good demand. Beauty was in demand, but the demand is heavier than the supply; short-stem stock was a glut on several days, and found ready sale. The market for Florida bought fancy, long-stem Beauty in limited quantity, compelling the wholesaler to carry. The roses are called for more as sales were made.

Carnations were scarce early in the week, and prices advanced sharply, but the supply increased by Wednesday, and prices dropped. Fancy carnations brought \$9 per 100, and in one day advanced to \$5, but heavier receipts depressed the market to \$3, at which figure the week closed. Daybreak was more plentiful, and the price reduced to \$2.50 per 100. The demand. There was no loss of good quality carnations.

Valley was in demand in California having the call. Single home-grown violets sell at 15c. to 25c. per 100. Receipts of 15c. and in one day advanced to \$5, but heavier receipts depressed the market to \$3, at which figure the week closed. Daybreak was more plentiful, and the price reduced to \$2.50 per 100. The demand. There was no loss of good quality carnations.

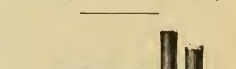
Romans were in over supply. Von Slon were scarce. Dutch hyacinths sold to \$3 to \$4 per 100. Miniature Dutch at \$2 per 100. Valley was plentiful and lower in price. Paper White was scarce. Harriet reacted under the talk of short crop and sold at from \$5 to \$8 per 100. Callas were a drug. Camillia was scarce.

Plant Trade. The plant trade continues fair, and growers express themselves well pleased so far with business. O'Neil & Sons Co. and C. Bayer have stands at the Union Market. They report trade better than last year at this season. Club Notes. The regular monthly meeting of the St. Louis Florists' Club will be held next Thursday afternoon.

Jettage. LOUIS HUDSON is very ill, suffering from asthma. His condition is critical. O'NEIL & SONS are disposing of large quantities of artificial palms of their manufacture. They are shipping them as far south as Texas. Club Notes. F. C. WEBER was granted a building permit for a handsome store and dwelling, and palm house adjoining, at Boyle and Fisher sts., and occupies it before Fall.

GEORGE WALDBART put a new refrigerator and counter into his handsome greenhouse, which improves the appearance of his salesroom and affords him better facilities for handling his stock. C. G. F. Amityville, L. I.

CHARLES LEMKER is reported to have resigned the superintendency of the Amityville Nursery and Greenhouse Company.



The two illustrations of blowers show on the right were referred to in Professor Taft's article in last week's issue, but the cuts did not arrive in time for insertion in that number. The blowers are manufactured by the American Blower Company.

Ornamental Plants.

In a recent number of the Mount Hope (N. J.), "Mirror," Mr. William T. Harding contributes an interesting article describing the best of the flowers...

From the wide-spread fame of this excellent and useful material, it was a measure, somewhat prepared for the astonishment I naturally expected to meet with...

Among so vast a number of choice plants, every one which possesses some peculiar charm, or interesting feature—and which, from obvious reasons, I am constrained to omit describing...

This celebrated island is surrounded with bare perpendicular cliffs 300 feet high, and against which the surge and breaker of the Pacific perpetually beat and surge in the wildest fury imaginable...

On some of the largest old trees, which ruthless time had not spared as accumulative years counted on its leafy form, lay the snow of a few good seeds withered by violent gale, and measured in length 310 feet, and in circumference 85 feet.

New Orleans.

Trade here, since Mardi Gras, has been at a standstill. Business during that festive day was very good, and yesterday being much larger than last year. Prices were lower, however.

Business has set in very early this year, the thermometer some days going up to 85 degrees in 10 degrees nights. Annals for the month do not flower, and on account of the warm weather. Pansies, phlox, etc., are being put and replaced with crotons, caladiums, etc.

There are some abundant. M. Cook has a band showing of teas and hybrid teas, many of which are new and give great promise. He has also sent me out that La France, Mme. C. Testout and Perle des Jardins are of no use on the coast...

PLANTS FOR

AZALEA INDICA. Specialties of American trade, from 3 to 12 inch diameter, \$15.00 to \$50.00 per 100.

KENTIA FORSTERIANA. With 4, 5 and 6 character leaves, from 13 1/2 to 5 ft. high, \$20.00 per 100 leaves.

LATANIA BORNICANA. From 13 to 20 inches, \$25.00 to 100.00 per 100.

COCOS VEDELLIANA. From 1 ft. upwards, \$30.00 and upwards per 100.

ARACARIA EXCELSA. From 1 1/2 to 2 ft. and over \$35 to \$100.00 per 100.

ARACARIA EXCELSA. From 1 1/2 to 2 ft. and over \$35 to \$100.00 per 100.

SWEET BAYS. Fronds and standards, fine shaped trees, from 2 to 100 per 1000 leaves.

ASPIDISTRA LURIDA. Green leaves, \$20.00 per 1000 leaves. Variegated, \$75.00 per 1000 leaves.

BEGONIA. Single—Separate Colors. 1 1/2 in. high, 1 in. diam., \$8 and \$10 per 100.

Double—in Separate colors. 1 1/2 in. and 1 1/4 in. diameter, \$25 and \$40 per 1000.

GLOXINIA ERECTA (Hybrid). From 12 to 14 in. diam., \$10 and \$15 per 100.

CAMELLIAS, RHODODENDRONS, CAMELLIAS, RHODODENDRONS, in quantities.

From bulk orders, independent Cash, with Packing Fees.

ROYAL NURSERIES

LOUIS VAN HOUTTE PERE Ghent, Belgium.

When writing mention THE FLORISTS' EXCHANGE

EASTER STOCK.

Azaleas. Lilies. Hyacinths, in Pans and Pots. Tulips, in Pans.

Kyngas, Hyacinths, Spiraeas. When writing mention THE FLORISTS' EXCHANGE

THE FLORISTS' EXCHANGE

When writing mention THE FLORISTS' EXCHANGE

THE FLORISTS' EXCHANGE

When writing mention THE FLORISTS' EXCHANGE

THE FLORISTS' EXCHANGE

When writing mention THE FLORISTS' EXCHANGE

THE FLORISTS' EXCHANGE

When writing mention THE FLORISTS' EXCHANGE

THE FLORISTS' EXCHANGE

When writing mention THE FLORISTS' EXCHANGE

THE FLORISTS' EXCHANGE

When writing mention THE FLORISTS' EXCHANGE

THE FLORISTS' EXCHANGE

When writing mention THE FLORISTS' EXCHANGE

THE FLORISTS' EXCHANGE

When writing mention THE FLORISTS' EXCHANGE

THE FLORISTS' EXCHANGE

When writing mention THE FLORISTS' EXCHANGE

THE FLORISTS' EXCHANGE

When writing mention THE FLORISTS' EXCHANGE

THE FLORISTS' EXCHANGE

When writing mention THE FLORISTS' EXCHANGE

THE FLORISTS' EXCHANGE

When writing mention THE FLORISTS' EXCHANGE

THE FLORISTS' EXCHANGE

When writing mention THE FLORISTS' EXCHANGE

THE FLORISTS' EXCHANGE

When writing mention THE FLORISTS' EXCHANGE

THE FLORISTS' EXCHANGE

When writing mention THE FLORISTS' EXCHANGE

THE FLORISTS' EXCHANGE

When writing mention THE FLORISTS' EXCHANGE

THE FLORISTS' EXCHANGE

When writing mention THE FLORISTS' EXCHANGE

THE FLORISTS' EXCHANGE

When writing mention THE FLORISTS' EXCHANGE

GOOD STOCK. LOW PRICES.

- Pandanus Utilis, 2 1/2 inch pots, extra strong, \$1.00 per doz.
Arca Luteo-cens, 3 1/2 inch pots, strong, 1 plant in a pot, \$1.00 per doz.
Kentia Bolmeriana, 3 1/2 inch pots, strong, 2 plants in a pot, \$1.00 per doz.

JOHN SCOTT, Kap Street Greenhouses, BROOKLYN, N. Y.

Nephrolepis Exaltata Bostoniensis.

In large and small quantities for Spring delivery, from \$40.00 to \$80.00 per 1000. Mine is the genuine stock.

FRED. C. BECKER, 1730 Cambridge Street, CAMBRIDGE, MASS.

When writing mention THE FLORISTS' EXCHANGE

CYCAS REVOLUTA.

The true long leaf variety, just arrived. Stems from 2 inches long, up to 12 inches, in 2 1/2 inch pots.

F. W. O. SCHMITZ, JERSEY CITY, N. J.

When writing mention THE FLORISTS' EXCHANGE

Nephrolepis Exaltata Bostoniensis.

THE BOSTON DRIFTING FERN.

Mine is the Genuine Stock. Now ready or orders booked for June to August delivery. Strong plants for \$40.00, \$60.00, \$80.00, \$100.00, \$150.00 and \$250.00 per 1000.

L. H. FOSTER, 45 King St., Dorchester, Mass.

When writing mention THE FLORISTS' EXCHANGE

THE FLORISTS' EXCHANGE

When writing mention THE FLORISTS' EXCHANGE

THE FLORISTS' EXCHANGE

When writing mention THE FLORISTS' EXCHANGE

THE FLORISTS' EXCHANGE

When writing mention THE FLORISTS' EXCHANGE

THE FLORISTS' EXCHANGE

When writing mention THE FLORISTS' EXCHANGE

THE FLORISTS' EXCHANGE

When writing mention THE FLORISTS' EXCHANGE

THE FLORISTS' EXCHANGE

When writing mention THE FLORISTS' EXCHANGE

THE FLORISTS' EXCHANGE

When writing mention THE FLORISTS' EXCHANGE

THE FLORISTS' EXCHANGE

When writing mention THE FLORISTS' EXCHANGE

THE FLORISTS' EXCHANGE

When writing mention THE FLORISTS' EXCHANGE

THE FLORISTS' EXCHANGE

When writing mention THE FLORISTS' EXCHANGE

THE FLORISTS' EXCHANGE

When writing mention THE FLORISTS' EXCHANGE

THE FLORISTS' EXCHANGE

When writing mention THE FLORISTS' EXCHANGE

THE FLORISTS' EXCHANGE

When writing mention THE FLORISTS' EXCHANGE

THE FLORISTS' EXCHANGE

When writing mention THE FLORISTS' EXCHANGE

THE FLORISTS' EXCHANGE

When writing mention THE FLORISTS' EXCHANGE

THE FLORISTS' EXCHANGE

When writing mention THE FLORISTS' EXCHANGE

THE FLORISTS' EXCHANGE

When writing mention THE FLORISTS' EXCHANGE



**PALMS  
AND  
FERNS.**

The LARGEST STOCK in the West.

**GEO. WITTBOLD,** 1708 N. Halsted St., CHICAGO.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**SIEBRECHT & SON,**  
The Largest and Finest Collection of  
**PALMS,**  
DRACENAS, FIGS and FERNS,  
ARAUCARIAS, etc., in all sizes.  
Prices to suit all. One visit and you  
will always come here.  
**STOCK HOME-GROWN.**  
WRITE TELEGRAPH OR TELEPHONE, AND  
OUR COURAGE WILL MEET YOU!  
Rose Hill Nurseries, New Rochelle, N. Y.  
New York Office, 409 Fifth Avenue.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**CYCLAMEN.**

(STOEBT'S STRAIN.)  
Pink, white, red.

2 1/2 in. Pots, \$5.00 per 100, Cash.

**EDWIN A. SEIDEWITZ,**  
36 W. LEXINGTON ST., BALTIMORE, MD.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**FERNS** ❖ ❖

Varieties Suitable for Ferns Dishes, etc.  
**ADIANTUM CUNEATUM,** 3 inch, \$5.00 per  
100. Fine bushy stock.  
Cash with Order.

**CHAS. F. BAKER, Utica, N. Y.**  
WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**EASTER PLANTS**

MY SPECIALTY.

ERICAS—Fine plants, well flowered.....	\$0 75 to \$5 00
AZALEAS—Fine plants, well flowered.....	75 " 12 00
HYDRANGEAS—All sizes.....	1 00 " 7 00
LILAC—Splendid plants.....	1 00 " 2 00
METROSIDEROS (Bottle Brush).....	1 50 " 3 00
KALMIA LATIFLORA.....	1 50 " 3 00
LILIUM LONGIFLORUM.....	3000 pots.
TULIPS and HYACINTHS.....	several thousand.

A Large Stock of ARAUCARIAS and PALMS.

**ANTON SCHULTHEIS, College Point (L.I.), N.Y.**

Opposite R. R. Depot, North Shore Division, Trains every Half Hour.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**10,000 Blooming Plants for Easter.**

**LILIUM LONGIFLORUM, AZALEAS, HYDRANGEAS, SPIREAS, RHODODENDRONS,** assorted  
**ROSES, LILACS, and HYACINTHS** in pans and pots.  
Also a fine holiday lot of **CARNATIONS** from flats; Daybreak,  
Wm. Scott, Lizzie McGowan, Tidal Wave and Minnie Cook.

PRICES ON APPLICATION.

**H. C. STEINHOFF,**

578 Hudson Boulevard, near Ann St., - - - West Hoboken, N. J.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE



FOR SALE TO TRADE  
DURING EASTER WEEK,

**FIFTEEN THOUSAND SELECTED LONGIFLORUMS**

IN POTS OR CUT FLOWERS.

**CITY HALL CUT FLOWER MARKET,**

15 PROVINCE STREET,  
BOSTON.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE



### EXCLUSIVELY A TRADE PAPER.

Entered as Second-Class Matter, Post Office No. 207, New York, N. Y., May 11, 1878.

Published Every SATURDAY by

A. T. DE LA MARE PTC. AND PUB. CO. LTD.,

2, 4, 6, 8 Duane St., New York.

P. O. Box, 1697. Telephone 2151 Cortlandt

#### SUBSCRIPTIONS:

\$1.00 per year to United States, Canada and Mexico. \$2.00 per year to foreign countries. Single copies 10 cents. Payment in Advance. New subscriptions will commence with the issue immediately after receipt unless otherwise ordered. Back numbers can be supplied when wanted. The insertion of address labels when the subscription expires and is the subscriber's receipt. No other receipt is sent.

#### ADVERTISEMENTS:

Only such reach this office not later than Thursday in order to secure insertion in issue of the following Saturday. Rates for one week, \$1.00 per inch. Special positions extra. DISCOUNT on contracts of one month or longer to advertisers from 10 to 25 per cent to be accompanied by cash or satisfactory references.

### Contents.

AN ASSIGNEE'S RESPONSIBILITY	373
ARTS, EXPERIENCE IN GROWING	388
BOOKS RECEIVED	373
CARNATIONS	377
CHANGES IN BUSINESS	375
CORRESPONDENCE	378
HEATING GREENHOUSES. (Hints)	384
HOW TO MAKE A PRESERVE	387
LYMBAL BLEBS, DISEASED	384
ORNAMENTAL PLANTS	384
PARASITIC PLANTS	384
QUESTIONS ANSWERED	375
PERKINS' BOX	388
ROSES	387
SEED TRADE REPORT	379
SPECULATION IN STOCKS	394
SWEET PEAS	381
TARIFF, THE PROPOSED NEW	384
TRADE NOTES:	
Baltimore, N. J., Poughkeepsie	376
Milwaukee	381
Louisville	381
New Orleans	381
New York, Philadelphia	381
New York, Columbus, O., Pittsburg, Spring-	381
field, Mass.	381
Chicago, Cincinnati	381
Buffalo, Syracuse	381

### For the Busy Man.

The New York plant market, at Canal st., has opened for the season. Boston is now in business.

Easter lily buds from Bermuda are coming by the thousands, by each steamer from the West Indies.

Send in your vote on the coupon printed on page 34 of April 30 issue, if you are interested in tariff matters.

The Rev. W. T. Hutchins, the west pea specialist and noted editor of an amateur horticultural publication.

John G. Barker, late superintendent of Forest Hill cemetery, Boston, is now in business as a landscape architect.

Jack Frost (always relentless) beat Flora Hill in the carnation contest, but Flora was looking—in other words, a better commercial grower.

Easter prospects continue bright; in all probability prices obtained will be lower than last year's.

There are indications that not so many Dutch bulbs are formerly will be grown next season. The Dutchmen are finding great difficulty in getting them.

The Philadelphia Florists' Club is to discuss, at its next meeting, club relations with the A. F. F. other clubs should be holding their own.

The subject is well worthy of a full discussion.

Several growers of lilies have expressed a desire for temporary loan to Florida, and for Japanese bulbs at that, on account of the depression which Bermuda bulbs are giving.

The violent man of Poughkeepsie, member of the Dutchess Horticultural Society, who has adopted a scale of prices for judging the specialty at the forthcoming exhibition of the Society's November. See page 387.

#### Erratum.

In advertisement of Meadow View Greenhouses, page 34, the read price of Minnie Cook carnation \$25.00 per 1,000; not \$35.00.

### The Proposed New Tariff.

(See Voting Coupon, Page 381, Issue of April 3.)

In last week's FLORISTS' EXCHANGE, page 340, will be found a list of other readers' opinions concerning the new Tariff Bill which is now in the hands of the Senate Finance Committee.

On page 361 of the same issue we printed a cutting from the New York Herald, and our readers' attention to the same, requesting all interested that they at once cast their votes and thus give their own opinion on the will of the majority may be made known.

We will delay forwarding our summary of the ballots to Washington until April 19, so as to give tardy voters the opportunity to express their views.

The voting up to date has been remarkable only for its apathy, and if no more general response to our invitation is evolved, the trade will have itself, and no other factor, to blame for future developments. Step up, gentlemen, and vote.

### Diseased Lily Bulbs.

Complains anew the prevalence of disease in the Harriell lily bulbs received from Bermuda have been more numerous this year than formerly; and it would seem that each recurring season sees this dreaded pest assume a more aggravated form. The loss, to say nothing of the disappointment, imposed upon the American florists in consequence is keenly felt by all by the large grower, but as well by the small one. Coupled with this is the fact that the market is glutted with the extra good flowers from the bulbs he grows, he is unable to sell his product at a sufficient profit to compensate for the deficit which diseased bulbs entail, on account of the competition to which he is subjected through the cheap imported bulbs. In Bermuda in flooding our markets with lily buds that are diseased at figures with which it is impossible for the home grower to cope, and which of necessity reduce his income, he must meet some competition by a real lily grower, or fall altogether to rest his flowers.

The grower who has the whole proceeding of the Bermuda grower in mind, all yet our florists, year after year, are the ones who are to be pitied, unless without any attempt at remedy, importations beyond the perennial growth, an apathy which is in fact, a real lily sufferer, exists among those who are the sufferers.

Should not the cry of protection that is reverberating through our country, extended to this particular industry? If there is one branch of the trade that needs protection from the intrusion of foreigners surely this is it. And is there any good reason why it should not receive the same protection as other branches of the trade with others that have received it, but for which protection is unnecessary, as in fact it is unnecessary, for instance, why should not be protected simply because these plants are not grown here?

It is true that our American growers arise in their might and insist on the preservation of their just rights.

But if their just bearings, were properly presented to our legislators, we doubt that a remedy would be forthcoming in the shape of a tariff, unless to make the exporting of lily flowers from our country are admitted free.

At present, the "crude vegetable substances" which are sold here, the Bermuda men cannot afford to change their methods of production, the trade is glutted with the lily crop. That, of course, is a matter for their consideration. It is no expense, and it is no trouble, to grow the bulbs; nor should the American grower be punished in the form of an unjust competition, to the detriment of his business for bad business practices among themselves.

These bulb growers are evidently the ones who are to be pitied, and by exacting the last pound of flesh they sooner or later will strike a snag that will be a real lily sufferer.

Some of our best lily growers are confined to the home supplies of Harriell can be raised at a price which is not profitable; all we lack is the men with sufficient enterprise and energy willing to start in the venture. Many florists are growing Japanese longifloras in preference to the Harriell, and the difficulty of parity in the price, and there is a general feeling prevalent that it is only a question

of time when Bermuda longiflorum bulbs will be discarded entirely.

In certifying to note that the New York Herald, in its issue of April 4, discusses the question of the importation of such bulbs from Bermuda, and the effect of the Bermuda. Public education along this line, will do much toward remedying the evil complained of.

#### At A Glance.

The steamer *Carib* which arrived from Bermuda on April 4, brought twenty-eight cases containing 1,680 Easter lilies, the first consignment of the season.

### Tasty Environments.

Our illustration (p. 385) shows approach to green-houses and dwelling of Peter Street, Grand View, N. Y. The climber seen in the picture is *Mimosa lobata*, which produces a handsome effect. Tasty environments begot content. We are glad to recognize the treatment of a florist's establishment. Such home attention by the florist greatly benefits not only himself, but the whole trade interest.

### New York.

Wholesale Market. The conditions which have prevailed for the past three weeks have not been altered, but the competition is becoming so keen that business is worse; and, further, among the many dull lilies previously experienced (excepting the first week) the present one beats the record as far as the highest price attempted. In addition to the restricted flower trade, now an enormous supply, the result of recognizing the treatment of a florist's establishment, such home attention by the florist greatly benefits not only himself, but the whole trade interest. The conditions which have prevailed for the past three weeks have not been altered, but the competition is becoming so keen that business is worse; and, further, among the many dull lilies previously experienced (excepting the first week) the present one beats the record as far as the highest price attempted. In addition to the restricted flower trade, now an enormous supply, the result of recognizing the treatment of a florist's establishment, such home attention by the florist greatly benefits not only himself, but the whole trade interest.

White carnations, unless of very high quality, are selling at \$8 per 100. Specimens which not long ago sold to order at \$15 have been placed with difficulty at \$8, the price of the highest quality Parson's Red. Rothschild sold at \$3c. each; and a limited stock of special Brunner, at 16c. Mixed roses, six to eight and ten to dozen bunches, six sprays to a bunch. Jacquets, from 1c to 5c. each. In large quantities, from 10c to 15c. each.

There will be a very heavy supply of everlastings, from \$1.50 per dozen volume of stock sold will be enormous, and at the low prices everything will likely be cleared up.

The Plant Trade. Business in this line has been brisk, and also in the market, as you have heard of. There is no discrimination—any kind of plants that is in good condition sells for the same price, and is generally speaking, in the prices from those paid in former seasons. A large increase in the price of plants has been offered; on the average they are also better in quality than usual. On these, prices are ranging from \$1.50 per dozen.

The action business received quite a boom this week; the attendance was large and the volume of sales was enormous. Very heavy sales are expected next week.

The plant market at Canal st. opened Tuesday, March 30, with two wagons in line. The number has since increased, and on Saturday there were 16 wagons, and on Thursday of the week, there were 20 wagons. The market will open on the Saturday before Easter.

Visitors. Mr. S. S. Suter, Toledo, Ohio, G. W. Wagener, Providence, R. I., W. Griffin, Lenox, Mass., were in town.

The Florida Club meeting will be held in the Elk's Hall, Monday evening, April 12. The funeral design competition for the club will occur some night.

News of the Week. HERMANN HEFFLE sailed on the First Harriack, April 8, to Rotterdam. W. A. International Exhibition.

### Philadelphia.

Market News. There has now been no improvement in business around the stores this past week; the market is overcrowded with flowers. The carnation market is the street at very low figures. The City Council Chamber was turned into a floral show on Monday, for the occasion of organizing of the new council. The display was a fine one, and signs of flowers were perhaps the best seen on such an occasion. The work was distributed all over the city, and into the suburbs, so was not felt to any extent.

Prices of flowers continue low, the best \$4.00 per 100. The market is overcrowded with flowers. The carnation market is the street at very low figures. The City Council Chamber was turned into a floral show on Monday, for the occasion of organizing of the new council. The display was a fine one, and signs of flowers were perhaps the best seen on such an occasion. The work was distributed all over the city, and into the suburbs, so was not felt to any extent.

Prices of flowers continue low, the best \$4.00 per 100. The market is overcrowded with flowers. The carnation market is the street at very low figures. The City Council Chamber was turned into a floral show on Monday, for the occasion of organizing of the new council. The display was a fine one, and signs of flowers were perhaps the best seen on such an occasion. The work was distributed all over the city, and into the suburbs, so was not felt to any extent.

Prices of flowers continue low, the best \$4.00 per 100. The market is overcrowded with flowers. The carnation market is the street at very low figures. The City Council Chamber was turned into a floral show on Monday, for the occasion of organizing of the new council. The display was a fine one, and signs of flowers were perhaps the best seen on such an occasion. The work was distributed all over the city, and into the suburbs, so was not felt to any extent.

Prices of flowers continue low, the best \$4.00 per 100. The market is overcrowded with flowers. The carnation market is the street at very low figures. The City Council Chamber was turned into a floral show on Monday, for the occasion of organizing of the new council. The display was a fine one, and signs of flowers were perhaps the best seen on such an occasion. The work was distributed all over the city, and into the suburbs, so was not felt to any extent.

Prices of flowers continue low, the best \$4.00 per 100. The market is overcrowded with flowers. The carnation market is the street at very low figures. The City Council Chamber was turned into a floral show on Monday, for the occasion of organizing of the new council. The display was a fine one, and signs of flowers were perhaps the best seen on such an occasion. The work was distributed all over the city, and into the suburbs, so was not felt to any extent.

Prices of flowers continue low, the best \$4.00 per 100. The market is overcrowded with flowers. The carnation market is the street at very low figures. The City Council Chamber was turned into a floral show on Monday, for the occasion of organizing of the new council. The display was a fine one, and signs of flowers were perhaps the best seen on such an occasion. The work was distributed all over the city, and into the suburbs, so was not felt to any extent.

Prices of flowers continue low, the best \$4.00 per 100. The market is overcrowded with flowers. The carnation market is the street at very low figures. The City Council Chamber was turned into a floral show on Monday, for the occasion of organizing of the new council. The display was a fine one, and signs of flowers were perhaps the best seen on such an occasion. The work was distributed all over the city, and into the suburbs, so was not felt to any extent.

Prices of flowers continue low, the best \$4.00 per 100. The market is overcrowded with flowers. The carnation market is the street at very low figures. The City Council Chamber was turned into a floral show on Monday, for the occasion of organizing of the new council. The display was a fine one, and signs of flowers were perhaps the best seen on such an occasion. The work was distributed all over the city, and into the suburbs, so was not felt to any extent.

Prices of flowers continue low, the best \$4.00 per 100. The market is overcrowded with flowers. The carnation market is the street at very low figures. The City Council Chamber was turned into a floral show on Monday, for the occasion of organizing of the new council. The display was a fine one, and signs of flowers were perhaps the best seen on such an occasion. The work was distributed all over the city, and into the suburbs, so was not felt to any extent.

Prices of flowers continue low, the best \$4.00 per 100. The market is overcrowded with flowers. The carnation market is the street at very low figures. The City Council Chamber was turned into a floral show on Monday, for the occasion of organizing of the new council. The display was a fine one, and signs of flowers were perhaps the best seen on such an occasion. The work was distributed all over the city, and into the suburbs, so was not felt to any extent.

Prices of flowers continue low, the best \$4.00 per 100. The market is overcrowded with flowers. The carnation market is the street at very low figures. The City Council Chamber was turned into a floral show on Monday, for the occasion of organizing of the new council. The display was a fine one, and signs of flowers were perhaps the best seen on such an occasion. The work was distributed all over the city, and into the suburbs, so was not felt to any extent.

Prices of flowers continue low, the best \$4.00 per 100. The market is overcrowded with flowers. The carnation market is the street at very low figures. The City Council Chamber was turned into a floral show on Monday, for the occasion of organizing of the new council. The display was a fine one, and signs of flowers were perhaps the best seen on such an occasion. The work was distributed all over the city, and into the suburbs, so was not felt to any extent.

Prices of flowers continue low, the best \$4.00 per 100. The market is overcrowded with flowers. The carnation market is the street at very low figures. The City Council Chamber was turned into a floral show on Monday, for the occasion of organizing of the new council. The display was a fine one, and signs of flowers were perhaps the best seen on such an occasion. The work was distributed all over the city, and into the suburbs, so was not felt to any extent.

Prices of flowers continue low, the best \$4.00 per 100. The market is overcrowded with flowers. The carnation market is the street at very low figures. The City Council Chamber was turned into a floral show on Monday, for the occasion of organizing of the new council. The display was a fine one, and signs of flowers were perhaps the best seen on such an occasion. The work was distributed all over the city, and into the suburbs, so was not felt to any extent.

Prices of flowers continue low, the best \$4.00 per 100. The market is overcrowded with flowers. The carnation market is the street at very low figures. The City Council Chamber was turned into a floral show on Monday, for the occasion of organizing of the new council. The display was a fine one, and signs of flowers were perhaps the best seen on such an occasion. The work was distributed all over the city, and into the suburbs, so was not felt to any extent.

Prices of flowers continue low, the best \$4.00 per 100. The market is overcrowded with flowers. The carnation market is the street at very low figures. The City Council Chamber was turned into a floral show on Monday, for the occasion of organizing of the new council. The display was a fine one, and signs of flowers were perhaps the best seen on such an occasion. The work was distributed all over the city, and into the suburbs, so was not felt to any extent.

Prices of flowers continue low, the best \$4.00 per 100. The market is overcrowded with flowers. The carnation market is the street at very low figures. The City Council Chamber was turned into a floral show on Monday, for the occasion of organizing of the new council. The display was a fine one, and signs of flowers were perhaps the best seen on such an occasion. The work was distributed all over the city, and into the suburbs, so was not felt to any extent.

Prices of flowers continue low, the best \$4.00 per 100. The market is overcrowded with flowers. The carnation market is the street at very low figures. The City Council Chamber was turned into a floral show on Monday, for the occasion of organizing of the new council. The display was a fine one, and signs of flowers were perhaps the best seen on such an occasion. The work was distributed all over the city, and into the suburbs, so was not felt to any extent.

Prices of flowers continue low, the best \$4.00 per 100. The market is overcrowded with flowers. The carnation market is the street at very low figures. The City Council Chamber was turned into a floral show on Monday, for the occasion of organizing of the new council. The display was a fine one, and signs of flowers were perhaps the best seen on such an occasion. The work was distributed all over the city, and into the suburbs, so was not felt to any extent.

later are now two inches higher and better in every way than the former. He also finds that admantium does well in it. The flowers are of the plants, the buds are luscious, and grows very freely. Another plant that promises well in this material is the one labeled A. It is a material one is potted in Judoo and are growing freely.

F. H. ALBURIO has made great improvements in his establishment the past few weeks. He has had some new houses and building modern ones in their places. Easter stock is looking well, with all four weeks ago, having been grown to a temperature of 45 degrees all winter, and not having any additional fire heat until four weeks ago. There have been many diseased Harellid the past season that now longform will be grown next. Many very fine plants, usually having very fine lot of Easter plants, and everything in good shape. The firm is now getting very busy preparing for its large Spring business, and has an excellent stock of plants. DAVID HURT.

Boston.

Market News. The retail cut flower business is dropping off, and there is a tendency to accustom to the wholesale trade for the next few days these symptoms of depression will be more pronounced and will increase. Good carnations have rather scarce for the past week, selling readily at 50 cents per dozen. The demand with the retailers has caused a drop of from one-half to one cent this Wednesday. Flowers are usually better, short, and good prices will doubtless be realized next week. Roses are plentiful, and will be sold at 15 cents per dozen. Violets of inferior quality are offered in abundance, at purchasers' price, and will be sold at 10 cents per dozen. Supply in this vicinity seems to be limited to a few growers.

Continuing the light retail business, the store men are all busy making arrangements for the immense trade expected next week, and the signs point to a realization of their most sanguine anticipations about the next week. The market has been thoroughly searched for choice offerings of plants and the probable supply of cut flowers throughout the season. Many things new either in potted plants or cut flowers seems to be what is most anxiously sought by the public. Standard goods are in about the usual demand.

The News. GEORGE BROTHERS, at the City Hall Flower Market, has prepared a prospectus for a large business next week, and reports as good coming in, which is a report that Easter is more than a week away.

JOHN G. BARKER has cast his lot with Frank M. Blasdell, civil engineer and landscape architect of the Tremont Building, this city. Mr. Barker's many years of faithful labor as Superintendent of the City Cemetery, ably assisted by his natural gifts and aptitude for such work, have fully qualified him to satisfactorily fulfill the duties of his new position, which he has now entered. He leaves immediately for New Castle, Penn., where he will be engaged to make a layout of a park, and is developing a park system in connection with the electric road company's property at that place.

JAMES DELRAY & SON have taken the store recently vacated by the Pope Manufacturing Company, and conveniently located in the corner of Dorchester and flower store on Boylston street, wherein they intend to make a especially attractive display of Easter plants.

N. F. MCCARTHY & Co. offer for Easter trade, a fine lot of genuine longform Judoo carnations and roses, also some good clean young plants.

DAN MCGRIE and WALTER MOTT are among the commercial perennator visiting Boston within the past week. The monthly meeting of the Boston Gardeners and Florists' Club occurred at the City Hall on Friday evening. Unfortunately, the audience was not large, because quite a treat was presented in the form of a valuable paper on equities by Carl Blomberg, the successful gardener on the Oakes Estate at North Easton. Mr. Blomberg's paper was highly appreciated, and of much importance attended to, after which the meeting adjourned till the first Tuesday of May, when will be the next meeting before the Summer vacation.

GEORGE A. SUTHERLAND has made arrangements to handle a choice line of cut flowers next week, and looks for a large trade. The flowers are being packed quietly away in boxes in Chapman field and hope to be shipped as Easter blessings, along with the rest of the springline. W. K. W.

Springfield, Mass.

Your Spring Edition is great. The articles on commercial orchids alone is worth your year's subscription to an inexperienced grower.

The Amateur Horticultural Society held its first meeting on Friday, called for to the city were in attendance, including President Copeland, Secretary Canning Schuchman, and others. Present were the secretary and several members from the Holyoke Society. Mr. Canning brought with him a specimen bloom of the new Brazilian Dutchman's pipe, that attracted much attention. One of the professors from Smith College will address the Society, in the last of this month, on the color line in plants.

Easter Prospects. Easter promises to keep the market very busy next week. Not many plants are growing in this locality, especially for the retail trade. The only plants come from Long Island and will be presented to the market.

Rev. W. T. Hutchins has become Editor of Amster Gardeners. There can be no more interest in the Hampden County Horticultural Society's coming sweet pea show than ever. A new edition of the schedule will be out the 20th inst. W. F. G.

Pittsboro.

Market Notes. Trade during the past week has not shown much of an improvement. The market here is bringing in a good stock in great abundance, and if such weather continues, it will be a difficult matter for the grower to find a market for his stock for Easter, in good condition. Bulbous material and azaleas will be hard to hold. The market for garden stock is about the usual. It is shipped here at \$3 per hundred, selling at \$1 per dozen. Brunner sell readily at 50 cents per dozen. Carnations are about the only stock that hold up in price. Our growers are doing well this season; Elliott & Ulan are very successful at present, the rest will hardly be able to compete with their stock. These flowers have not been much called for.

Around Town. T. P. LANGHANS & Co., in the Allegheny market, are preparing a prospectus for Easter, and were rather fortunate lately, capturing a good many wedding orders. Their customers are doing well, and their own support of his own invention, it is very simple in construction, and more convenient to use than most others offered so far.

A number of Holland bulbous were sold lately, but they find it very difficult to induce the growers to place orders, as they are not prepared to cater this season, and prospect for next season. BARKER had left for a trip east to look up stock and will be gone for a week or more.

PLANTMEN are occupying their usual places in the market, but stock goes very slowly.

Columbus, O.

A healthy sign of the times is reported by K. B. ROSE, president of the Columbus Co., who says collections are just tumbling in, and hopes it is the case all over. He struck a capital thing when he built a cold storage shed next the barn last Fall—practically a lean-to with windows—and in a few days the market for plants was running through the roof, a satisfactory transaction is maintained. At present the market for plants with Easter stock, looking tip-top.

UNBROKEN BROS. utilize several houses for the raising of plants, and have had some noble plants. Mr. Underwood, Sr., who is an old-time friend and admirer of Wood Bros., has a very fine specimen of this variety, which will be shipped to the White House to be planted out on the grounds. The plant is 30 feet tall and has been kept well pruned; a bud is now on every shoot. W. K. W.

Taunton, Mass.

MISS ANNE HUSBAND is reported to be very seriously ill at her home on Clinton st.

Index to Advertisements.

Alphabetic index of advertisements including categories like Carnations, Daisies, Geraniums, and various florists such as A. J. Barker, J. H. Blomberg, and others.

Roses.

This is Easter week and we will undoubtedly be very busy, especially those who grow other plants as well as roses. As all good roses will be worth money, the cuttings of them are in great demand...

REINBERG BROS.

Strong, Healthy ROSES From 2 1/2 inch pots.

AMERICAN BEAUTY, \$3.00 per 100; \$5.00 per 100; \$4.00 per 100. GOLDEN GATE, PERLE BELLE, SIERREONT, METEOR, BRIDE, BIDESMAID, KAISERIN...

CARNATIONS-Rooted Cuttings.

IVORY and DELLA CO. \$3.00 per 100; \$5.00 per 100. ROSE QUEEN, \$2.50 per 100; \$3.00 per 100. SCOTT, DAYBREAK, WANCY WAKES, TRAIL WAVE, ALBERTA, PORTIA, LIZIE...

51 WABASH AVE., CHICAGO, ILLS.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

AMERICAN BEAUTY PLANTS

FREE FROM BLACKPOT.

FORGING HYBRIDS. SHARMAN CRAWFORD, pink, 2 1/2 in. pots, \$5.00 per Hundred. ULRICH BRUNNER, 2 1/2 in. pots, \$5.00 per Hundred.

JOHN BURTON, Chestnut Hill, Pa.

..GERANIUMS..

The very best varieties, strong plants, from 2 1/2 inch pots, ready for a bush. \$2.50 per 100. Selected stock of Marie Louise, roseted Ivory Geraniums, double varieties, \$2.00 per 100.

Geo. H. Benedict, Yorkville, N. Y.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

LOOK HERE

The following roses are in all conditions. ROSES, out of 2 in. pots. Bridemaid and Bride, \$2.50 per 100; \$3.00 per 100; Meteor and Perle, \$1.50 per 100; \$2.00 per 100.

25,000 GERANIUMS 25,000

NEW READY. Strong plants, 3/4 inch pots, \$3.00 per 100; \$2.00 per 100. Also bedding and basket plants later.

Geo. W. Gaskill, Warren, Ohio.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

SUNNYWAYS GREENHOUSES

BRIDESMAID parent stock. Still exists in perfect condition in the sunnyways greenhouses. Have also the following varieties: Meteor, Bridemaid, Pearl, and others.

FRANK MOORE, Chatham, New Jersey.

SUNNYWAYS GREENHOUSES

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

Fine Healthy Stock of

'Brides', 'Maid', 'Perles', 'Meteors', 'C. N. OOSTEN, Importer, 193 Greenwich Street, NEW YORK.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

JOHN HENDERSON CO. Flushing, N. Y.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

Sterling American Novelty, the

WHITE MOUNTAIN

In a sport from Maman Cochet, which is considered to be the best pink out-of-door rose...

Price, per dozen, from 4 inch, \$5.00 per 100; \$2.50 per 100.

All Orders Must be Accompanied with Cash.

J. COOK, 318 CHARLES STREET, Baltimore, Md.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

TEN DEGREES BELOW ZERO

is the temperature that we have experienced with out injury to unprotected yard plants of the new climatic...

ACACIA or YELLOW RAMBLER

In our nurseries the past Winter, this proving it to be ever hardier than we had supposed. A Hardy Yellow Climbing Rose...

150 Hedges and a Bush

This new plant is produced by the Yellow Star which is a splendid combination of blossoms in splendid big clusters as does the Crimson Star...

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WE are the Introducers

of this rose in this country, having been long supplied by Mr. Peter Lambert, the originator. We are also prepared to plant of two of our most valuable climbing roses...

WE WANT EVERY FLORIST

to send us orders for our new roses. We will send FREE OF CHARGE...

JACKSON & PERKINS CO. Newark, New York

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

A FEW THOUSAND MORE

Brides', 'Maid' and 'Perles'

than I shall need for my own use. Grand plants in 2 1/2 pots, at \$5.00 per 100. Who wants them?

CASH WITH ORDER.

BENJAMIN DORRANCE, Dorrance, Penn.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

... ROSES ...

From 2 1/2 in. pots, large and in excellent shape. Bride, Hybrid, \$1.00 per 100; \$2.00 per 100.

Richard, Pink Super, Crimson

EMPERESS OF CHINA

... GERANIUMS ...

The very best varieties, strong plants, from 2 1/2 in. pots, ready for a bush. \$2.50 per 100; \$3.00 per 100.

Heterahy, Le Ploist, Jsa. Y. Markland, Grand Chancellor, In. Parvite, Mrs. Chas. F. Lee, etc.

Our New Seedling Geranium, John A. Doyle

J. A. DOYLE - Springfield, Ohio

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

American Beauty

3 1/2 in. pots, very fine, \$7.00 per 100; \$4.00 per 100, ready for shifting, \$5.00 per 100.

Crimson Rambler

3 1/2 in. pots, strong, \$10.00 per 100; \$5.00 per 100, ready for shifting, \$5.00 per 100.

Marechal Niel

5 in. pots, \$12.00 per 100; \$6.00 per 100, 3.00 per 100, 3.00 per 100.

Also 100,000 HYBRID PERFECTION

W. S. LITTLE & CO., ROCHESTER, N. Y.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

8000 ROSA RUGOSA 8000

Fine plants 3 ft. high, \$10.00 per 100, \$80.00 per 1000.

2000 Hypericum Moserianum, \$3.00 per 100.

NEWPORT NURSERY CO., Newport, R. I.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE



**WALKER'S EXCELSION FOOD**

For use on plants in gardens, outside propagating, etc. Contains soluble phosphate, soluble potash and in a convenient form, matted fern with each package. Directions for use on all plants and flowers. Price per package, 10¢. **PAKES**—One-pound packages, sufficient for 25 plants; five-pound packages, sufficient for 125 plants; and ten-pound packages, sufficient for 250 plants. Six months, 10¢ a lb., by post. Write for booklets for Lawn Dressing and Soil Dressing. Manufacturers of Flowering Brand Face Bone Manure for house plants. Put up in packages with attractive wrapper.

Agents wanted everywhere. Liberal terms. **THE WALKER FERTILIZER CO.,** Clifton Springs, N. Y.

**SITUATIONS WANTED.**

**FIRST-CLASS** carpenter to take commercial place where steady work is wanted. Ch. Hubner, 70 3d Ave., Brooklyn, N. Y.

A **FIRST-CLASS** all-around florist wants a situation, either as florist or florist general, in a city or country. Address B. C. Fore (Florist), 250 E. 11th St., New York, N. Y.

**YOUNG man, 26**, single, wants situation in greenhouse on private place or as propagator in nursery. Good references. J. P., Lafayette, Monticue Co., Pa.

**SITUATION** wanted by a young married man, no children, as florist in a florist general or in a glass and manure grower. Best of references. Address E. H. Baro, Lancaster, Montgomery County, Pa.

**SITUATION** wanted as foreman in commercial greenhouse. An expert in the culture of all kinds of flowers. Florist stock, age 40, married, first-class references. Address: J. M. B. B. B. B., P. O. Box 88, Wilkes Barre, Pa.

**WANTED** by an experienced grower of roses, cut-flowered, in a florist general place. Capable of handling 50,000 feet. as well as florists. 70 years of age. Address: J. M. B. B. B., P. O. Box 88, Wilkes Barre, Pa.

**SITUATION** wanted on private place by a married man, no children, 60 years, 14 years' experience in florist general growing of ferns, palms, ferns and all kinds of flowers. Address: J. M. B. B. B., P. O. Box 88, Wilkes Barre, Pa.

**SITUATION** wanted by an all-around florist in general gardening, in growing roses, carnations, geraniums, etc. Address: J. M. B. B. B., P. O. Box 88, Wilkes Barre, Pa.

**SITUATION** wanted by a young man, no children, 26 years of age, in a florist general place. Capable of handling 50,000 feet. as well as florists. 70 years of age. Address: J. M. B. B. B., P. O. Box 88, Wilkes Barre, Pa.

**SITUATION** wanted by a young man, no children, 26 years of age, in a florist general place. Capable of handling 50,000 feet. as well as florists. 70 years of age. Address: J. M. B. B. B., P. O. Box 88, Wilkes Barre, Pa.

**SITUATION** wanted by a young man, no children, 26 years of age, in a florist general place. Capable of handling 50,000 feet. as well as florists. 70 years of age. Address: J. M. B. B. B., P. O. Box 88, Wilkes Barre, Pa.

**SITUATION** wanted by a young man, no children, 26 years of age, in a florist general place. Capable of handling 50,000 feet. as well as florists. 70 years of age. Address: J. M. B. B. B., P. O. Box 88, Wilkes Barre, Pa.

**SITUATION** wanted by a young man, no children, 26 years of age, in a florist general place. Capable of handling 50,000 feet. as well as florists. 70 years of age. Address: J. M. B. B. B., P. O. Box 88, Wilkes Barre, Pa.

**SITUATION** wanted by a young man, no children, 26 years of age, in a florist general place. Capable of handling 50,000 feet. as well as florists. 70 years of age. Address: J. M. B. B. B., P. O. Box 88, Wilkes Barre, Pa.

**SITUATION** wanted by a young man, no children, 26 years of age, in a florist general place. Capable of handling 50,000 feet. as well as florists. 70 years of age. Address: J. M. B. B. B., P. O. Box 88, Wilkes Barre, Pa.

**SITUATION** wanted by a young man, no children, 26 years of age, in a florist general place. Capable of handling 50,000 feet. as well as florists. 70 years of age. Address: J. M. B. B. B., P. O. Box 88, Wilkes Barre, Pa.

**SITUATION** wanted by a young man, no children, 26 years of age, in a florist general place. Capable of handling 50,000 feet. as well as florists. 70 years of age. Address: J. M. B. B. B., P. O. Box 88, Wilkes Barre, Pa.

**SITUATION** wanted by a young man, no children, 26 years of age, in a florist general place. Capable of handling 50,000 feet. as well as florists. 70 years of age. Address: J. M. B. B. B., P. O. Box 88, Wilkes Barre, Pa.

**SITUATION** wanted by a young man, no children, 26 years of age, in a florist general place. Capable of handling 50,000 feet. as well as florists. 70 years of age. Address: J. M. B. B. B., P. O. Box 88, Wilkes Barre, Pa.

**SITUATION** wanted by a young man, no children, 26 years of age, in a florist general place. Capable of handling 50,000 feet. as well as florists. 70 years of age. Address: J. M. B. B. B., P. O. Box 88, Wilkes Barre, Pa.

**SITUATION** wanted by a young man, no children, 26 years of age, in a florist general place. Capable of handling 50,000 feet. as well as florists. 70 years of age. Address: J. M. B. B. B., P. O. Box 88, Wilkes Barre, Pa.

**SITUATION** wanted by a young man, no children, 26 years of age, in a florist general place. Capable of handling 50,000 feet. as well as florists. 70 years of age. Address: J. M. B. B. B., P. O. Box 88, Wilkes Barre, Pa.

**SITUATION** wanted by a young man, no children, 26 years of age, in a florist general place. Capable of handling 50,000 feet. as well as florists. 70 years of age. Address: J. M. B. B. B., P. O. Box 88, Wilkes Barre, Pa.

**SITUATION** wanted by a young man, no children, 26 years of age, in a florist general place. Capable of handling 50,000 feet. as well as florists. 70 years of age. Address: J. M. B. B. B., P. O. Box 88, Wilkes Barre, Pa.

**SITUATION** wanted by a young man, no children, 26 years of age, in a florist general place. Capable of handling 50,000 feet. as well as florists. 70 years of age. Address: J. M. B. B. B., P. O. Box 88, Wilkes Barre, Pa.

**SITUATION** wanted by a young man, no children, 26 years of age, in a florist general place. Capable of handling 50,000 feet. as well as florists. 70 years of age. Address: J. M. B. B. B., P. O. Box 88, Wilkes Barre, Pa.

**SITUATION** wanted by a young man, no children, 26 years of age, in a florist general place. Capable of handling 50,000 feet. as well as florists. 70 years of age. Address: J. M. B. B. B., P. O. Box 88, Wilkes Barre, Pa.

**SITUATION** wanted by a young man, no children, 26 years of age, in a florist general place. Capable of handling 50,000 feet. as well as florists. 70 years of age. Address: J. M. B. B. B., P. O. Box 88, Wilkes Barre, Pa.

**FRUIT FARM**

TO EXCHANGE for a greenhouse property of 5,000 to 10,000 feet of class, on farm in one of the best of the States; 25 acres apples, peaches, small fruits and clover; 25 acres timber; 1 room house; soil climate, no malaria. Mrs. E. J. TYLEE, Willow Springs, Mo.

**Experience in Growing Asters.**

(Paper read by William E. Chappell, of Providence, before the Florists and Gardeners' Club, of Rhode Island, recently.)

In this paper I shall simply record a few observations that I have made during my experience in growing asters, which covers a period of twenty years or more. In that time I have grown many varieties, and until within the past three years I had been very successful.

Three years ago I discovered for the first time that many of my plants, when sown ready to develop flower buds, began to wilt as if starving for water. Upon close examination, I found that the trouble could not be due to lack of water, as I had them under perfect control, so far as results

I had more diseased plants in midsummer than in the Spring and Fall, when the weather is not so extremely hot and dry. I sown in succession, and have flowers from the first week in July till the middle of November. Last year they served me well in chrysanthemum, geranium, etc. The late comers were protected by glass.

I think a good, light, rich soil is best adapted for asters, although they will do well in most any soil with a little care, barring the disease. Keep them well hoed and watered. I have also found manuring to be a great benefit to them during the extreme hot weather, as they prefer it rather than to develop a nice, perfect flower.

The aster has a great many enemies. The best known to me are the cut worms, common grass, lead insect, aster bug, grasshopper and black aphid. I will not dwell upon the *modus operandi* of these pests, as they are too well known to those who have had any experience in growing plants. There is one, however, that has interested me very much, and it will be the only one I shall say anything about. It is the pest

no month. You can plainly see the channel through which the fluid passes down the proboscis to the body. When it walks or crawls, this little instrument shuts up under the body, as a knife blade would shut into the handle, and extends about the length of the body. When it is wanted for use, the body is raised by the legs to a sufficient height to enable the instrument to swing like a piece for action. It is perfectly rigid, having one joint, and that is the head.

Just in front of the plant, which looks great the root of the plant, one looks smooth to the naked eye, are uneven places like little hollows. In these places were eggs. In different stages from the transparent spaw to the little insects just out. It was very amusing to see the mother, as I suppose, was trying to extricate the body from the sack in which it was enclosed. It stood on its rear legs, as I call them, and using its arms, was vigorously combing the sack from the body. I also saw it in the act of feeding; it would apply the proboscis to the root, and tug away as if it was a very arduous task. It does not eat but taps the root.

**HELP WANTED.**

**YOUNG man** of home life and experience to take charge of store. Good references. Send references to Box 32, Butler, Mont.

**WANTED**

A young man, single, quick at potting and leading out, \$30.00 a month and board. Send copy of references.

P. O. No 273, Huntington, L. I., New York.

**GREENHOUSES and LAND.**

**FOR SALE** Cheap. 1800 feet of ground, N. Y. City, two story dwelling, 6 rooms, all well furnished. Good location. Price \$10,000.00. Paying business established, 60 acres of choice land, 1000 ft. frontage, 300 ft. deep, in country. Call for selling. For further particulars address, B. J., Florists' Exchange.

**FLORISTS and GARDENERS.**

Wanted, for private and commercial places, superintendents, journeymen, assistants and apprentices. Joseph B. Searles & Co., Storekeepers of Florists and Gardeners, 54-52 No. Market St., Boston, Mass.

**GREENHOUSES & COTTAGE FOR RENT**

All in good running order and a chance to live in New York. Address: E. VOLMER, 89 Palisade Ave., West Hoboken, N. J.

**FOR SALE.**

Three 6 room houses, nearly new, 40 square feet of glass, stem, china, water, double house. Am to retire from business and will sell at a sacrifice, stock and all. The chance of a lifetime. For particulars address,

G. PILLSBURY, Nashua, N. H.

**Greenhouses to Rent.**

Five houses containing 2300 square feet, well built and in thorough repair. Two boilers, rent low. Plenty of water and good location. Government term, month house on the place. 7 rooms. 8 miles from Boston on B. & A. R.R. Address H. R. STEVENS, Dover, Mass.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**Tasty Environments.**

commonly called the lead louse, deriving its name from the color of the body, which is the color of oxidized lead; that is not the color of the pest, however, when seen under a powerful microscope, as I will show you later on.

This little pest awarms, breeds and feeds upon the small roots, thus taking from the plants the power of securing the proper nutriment required to develop the flower and a healthy foliage. The result is to be seen on the crown, terminal and lateral buds, together with the foliage, which turns a sickly yellow; and if the buds mature, they are worthless. This little pest seems more abundant in poor or worn out soil, than in good rich loam, though I have seen it in both.

I will now endeavor to give you an idea how this pest looks under a very powerful microscope, enlarging it many hundred times. It has six legs, all of which are located well to the front of the body. They act as props or braces to keep the body from toppling over while the insect is feeding or otherwise engaged. Each leg has four joints, with a hook like appendage at the end to aid it in holding on to the root while feeding, as well as to assist in locomotion. The body and head seem to be all in one, as there is no joint between the two. It has two big black eyes just back of the forelegs or arms, as it uses them as such. The proboscis is attached to the head, very much like an elephant's trunk; with it it feeds itself. It has a sharp, black point, which it runs into the root and saps the life of the plant. It has

The egg is perfectly round and transparent. At another stage it is pure white, then of a mouse color, and at last a light yellow. The color that looks like oxidized lead is the powder-like substance upon the body. It is a curiously made-up insect, and for its size is capable of doing great injury to a plant.

I also made cross and elongated sections of diseased and healthy plants. There was no material difference in the looks of the two sections. The disease seemed to be between the outer skin or bark and the inner part. In the healthy section the pulp appeared bright and crystallized like gum camphor, while those of the diseased seemed to be of an entirely different nature. The granulations were very imperfect, considerably enlarged, and looked very much like fermenting scum on a stagnant pool, and were of a putrid nature.

After much study and examination of the diseased parts as compared with the healthy, I arrived at a conclusion. It is this: I believe the aster disease is a fungus growing between the outer skin or bark and the stalk; and as concretion takes place, the pores or channels through which the sap flows are clogged, and the plant dies for want of food just the same as a human being would if his throat were stopped and he could not feed the stomach. I have dissected the aster disease and am perfectly satisfied with the result. The cause and remedy I shall leave to wiser heads than mine.

W. H. MASON.



ENGLISH Ivy field-grown, 2 yrs. old, \$1.10 per 10; \$3.00 per 100; 1 yr. old, \$1.00, per 10; \$3.00 per 100. RELIANTUS, 1 yr. old, \$1.00, per 10; \$3.00 per 100. Cash with order.

DANN & SON, Westfield, N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

New Cannas

From 4 inch pots. Italy, Austria, Aurora, Francois Billard, Franz Buchner, Papa, Souz, de Minc, Crozy, Souv. du Pres. Carnot and others.

W. W. COLES, Kokomo, Ind.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

GLENWOOD NURSERIES

SPRING OF '97.

- 10,000 Ampelis Veitchii. Grow in 3-in pots, \$50 per 1000. 5,000 Clematis Panacula. 1, 2 and 3 years old \$5 to \$12 per 100. 10,000 Monoguckas in variety, \$80 per 1000. 10,000 Dahlias, unselected, field-grown roots, 1000 and 10,000, \$20 to \$30 per 1000. California Prill, 1 to 5 feet. Samples and prices on application. Trade list for Spring containing full assortment of Trees, Shrubs and Vines, now ready. Send for one. Correspondence solicited.

THE WM. H. MOON CO., Morrisville, Pa.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Prize-Winning DAHLIAS

AN UNPRECEDENTED RECORD.

23 First Prizes, Certificates of Merit, 2 Diplomas, and highest mention everywhere.

If you want the Very Best Dahlias that bloom, send for our 1897 descriptive type list now ready. Address

W. P. PEACOCK,

Dahlia Specialist, ATCO, N. J.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

CANNAS and CROTONS

For immediate delivery we offer 1000 CANNAS in divided roots, for \$20.00, or 100 for \$10.00. This offer refers to above quantities only and in such proportion as supply will allow. Selection of varieties to suit to order.

Alba Rosa, Bouvier, Chas. Hedergren, Capt. de Suzzoni, Exp. Crampell, Egmondia, Ene-ma, Estafan du Rhone, F. Neuveve, Florence Vaughan, Geoffrey St. Hilare, Golden Star, Jacob Schmitz, Jacquemus, Rosefont, Maurice Musy, Maurice Hoyers, Mme. Crozy, E. J. Bardsley, Paul Brand, Paul Marquet, Nellie Bowen, Princess Lusignea, Princess de Brocova, Queen Charlotte, Sarah Hill.

We offer 100 crotons, in 10 to 12 inch pots, \$1.00 each, for \$1.00. We offer 100 Crotons, in 10 to 12 varieties, in 10 to 12 inch pots, for \$1.00. Our crotons are remarkably dry and plants well-grown.

P. J. BERCKMANS, Fruitland Augusta, Ga.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

50,000 PEACH to offer at lowest prices.

C. L. LONGSDORF, Floradale, Pa.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

ASSIGNEE'S SALE OF HARDY AMERICAN PLANTS and FLOWERS, TREES and SHRUBS.

Finest Collection in America. 40,000 native Azalea, Fire-spike, and other flowering shrubs. Entire stock of the well-known Highlands Nurseries and also the Spring and Fall stock of our Nurserymen, Florists, Parks and Cemeteries to clear and stock at reduced prices. For lists prices and information address

ASSIGNEE, HIGHLANDS NURSERY,

Kawana, N. C.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

AMPELOPSIS VEITCHII.

Finest, dormant, 1 and 2 years old; price \$3.00 and \$9.00 per 100. Delivered, 25 cts. extra, at 100 per 1000.

CANNAS - ITALIA, \$5.00 per doz. AUSTRIA and ALBAE, \$2.50 per doz; fine border stock.

Hardy Fruits, including Her Majesty, \$2.50 per doz.; \$2.50 per 100. Golden Raspberry, 4 in. \$2.00 per doz. Honey-suckles, Halliana and Golden, fine, 1 year, 5 cts. per doz.; or fine CALIFORNIA Violets, fall rainers, \$1.00 per 100.

BENJAMIN CONNELL, Florist, West Grove, Pa.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Would Sell the Earth. I believe that an ad. in your paper would sell the earth. O. H. WELLS.

Gray Center, March 23, '97.

DELAWARE COLLEGE AGRICULTURAL EXPERIMENT STATION.

DEPARTMENT OF HORTICULTURE AND ENTOMOLOGY.

G. HAROLD POWELL, HORTICULTURIST AND ENTOMOLOGIST.

NEWARK, DEL., Dec. 15, 1896.

Dear Sir:- This is to certify that I have examined a large number of plants of your course for peach yellow, black rosette and fan-like scales, and have found no evidence of these or other injurious insects or diseases.

G. HAROLD POWELL, HORTICULTURIST AND ENTOMOLOGIST, Delaware College Agricultural Experiment Station

PEACH & PLUM TREES FOR SPRING DELIVERY, 1897.

Reliable and clean stock at low wholesale prices. Send for Scriptus Lists.

ASPARAGUS ROOTS, 2 and 3 Years, Strong.

ALEXANDER PULLEN, HILFORD Nurseries, MILFORD, DEL.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

HEDERA.

ENGLISH IVY, from 5 and 6 inch pots, branched 2 to 4 feet, \$1.50 per 10; from 2 1/2 inch pots, 6 to 15 inches high, 100, \$3.00; per 1000, \$25.00.

FERD. BOULON, Sea Cliff, N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Rhododendrons of American-grown hardy sorts.

Japanese Maples and other Rare Plants.

Parsons & Sons Co.

LIMITED, Kissena Nurseries, Flushing, N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

COMMONWEALTH OF PENNSYLVANIA. DEPARTMENT OF AGRICULTURE.

FOR SALE - FRORADALE, Pa. Oct. 17, 1897. To whom it may concern:- This is to certify that I have this day received from the undersigned money made of C. L. Longsdorf, grower at Floradale, County of Adams, State of Pennsylvania, and found to be the presence of "San Jose Scale, Rosette, Yellow, or other injurious insects or diseases" that might be transferred on Nursery stock from the nursery to the orchard or garden. (Signed) G. O. GIBBS, Special Agent.

50,000 PEACH to offer at lowest prices.

C. L. LONGSDORF, Floradale, Pa.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

ASSIGNEE'S SALE OF HARDY AMERICAN PLANTS and FLOWERS, TREES and SHRUBS.

Finest Collection in America. 40,000 native Azalea, Fire-spike, and other flowering shrubs. Entire stock of the well-known Highlands Nurseries and also the Spring and Fall stock of our Nurserymen, Florists, Parks and Cemeteries to clear and stock at reduced prices. For lists prices and information address

ASSIGNEE, HIGHLANDS NURSERY,

Kawana, N. C.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

AMPELOPSIS VEITCHII.

Finest, dormant, 1 and 2 years old; price \$3.00 and \$9.00 per 100. Delivered, 25 cts. extra, at 100 per 1000.

CANNAS - ITALIA, \$5.00 per doz. AUSTRIA and ALBAE, \$2.50 per doz; fine border stock.

Hardy Fruits, including Her Majesty, \$2.50 per doz.; \$2.50 per 100. Golden Raspberry, 4 in. \$2.00 per doz. Honey-suckles, Halliana and Golden, fine, 1 year, 5 cts. per doz.; or fine CALIFORNIA Violets, fall rainers, \$1.00 per 100.

BENJAMIN CONNELL, Florist, West Grove, Pa.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Would Sell the Earth. I believe that an ad. in your paper would sell the earth. O. H. WELLS.

Gray Center, March 23, '97.

GLEMATIS. Best dormant and in pots; good plants \$2.50 per doz.; \$30.00 per 100.

DOWNING ROSEBERRIES. Special low price. Each one and two years, nine plants, at \$1.00.

SMILAX. Strong plants from last year, 50 in. pots, \$1.50 per 100. Transplanted, \$1.00 per 100.

HERACEOUS PEONY. Ten named kinds, \$5.00 each; 100 unnamed kinds, \$1.00 per 100.

F. C. BAUER, Bloomington, Ill.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

FAY'S CURRANTS FOR SALE.

Price of 2-year, No. 1, \$22.00 per 1000. " 2-year, No. 2, \$18.00 " " 3-year, No. 1, \$28.00 " " Packing free.

F. BURDETT, Clifton, Monroe County, N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

PEACH TREES.

A good stock of first-class trees of the most reliable varieties, healthy, true to name and thoroughly reliable; more better at reasonable prices. Free from scale and diseases. Certificate of entomologist of N. J. Agric. College Experiment Station with price list. If you want reliable peach trees get my prices before you purchase. Also 1,000,000 Reliable Strawberry Plants of thoroughly tested varieties. Do not throw money away on untested varieties. For prices address CHAS. H. BLACK, Hightstown, N. J.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

CANNA ALBA STRA. GREEN PLANTS READY NOW

\$20.00 per 100.

CHAS. H. ALLEN, Floral Park, N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

NEW CANNAS FOR FLORISTS.

ITALIA - Fine, 4 in. plants, each 65 cts.; \$5.00 per doz. AUSTRIA - Fine, 4 in. plants, each 25 cts.; \$2.50 per doz. AUSTRIA - Fine, 100 plants, each \$1.50 per doz.; \$10.00 per 100. Also Water's New Pedigree Cannas, Philadelphia, Maiden's Bush, Pillar of Fire, Golden Pinks and others; 1 set of 6 splendid varieties, from 4 to 14 inch pots, packed to express here, only \$8.00; ready now. New Yellow Rambler, Golden Rambler and Crimson Rambler Roses. New Blue Symples and Crimson Symples (A. Waterer). New Golden Pinks, Strawberry Raspberries, Lithaea Lanterns Plants, New and Choice Plants for Florists use. Send for Special Low Down Price List.

ALFRED F. CONARD, West Grove, Pa.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

SURPLUS-APPLES, PEARS and PLUMS

CHESTNUTS - Parsons, Parry's Apple, Bageley, etc. WALNUTS - 1000 Japan Parasol, etc. QUINCE - Heavy Stock, Champion, Mesh, etc. Trifoliate Orange, Elmsong Long's, Rocky Mt. Cherry, Cal. Privet, Tree (franchises), all 1, 2 and 3 year. Logan Berries, Mayberries and Strawberry-Raspberries. For plants and seed-order, W. H. F. & S. - Sugar, Norway, Silver and Noydura, in large quantities and sizes.

PARRY'S POMONA NURSERIES, Parry, New Jersey.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

ROSES!

STRONG FIELD-GROWN DORMANT PLANTS.

Large stock Gen. Jacquemont, Paul Neyron, Ulrich Brunner, Magna Charta, Harross Rothschild, and other leading varieties of Hybrid Perpetuals, \$3.00 per 100; \$30.00 per 1000.

MOSS ROSES in the ten best sorts, \$9.00 per 100. CLIMBING ROSES, Baltimore Belle, Prairie Queen, Tennessee Belle, and Seven Sisters, strong, 2 years, \$9.00 per 100.

Wichitarians (Memorial Rose) field-grown, \$8.00 per 100.

CANNAS. New Giant Flowered AUSTRIA, strong, 4 in. pot plants, \$3.00 per doz.; \$30.00 per 100. A large stock of the cream of the older varieties, such as Florence Vaughan, Queen Charlotte, Eldorado, Sunbeam, Admoral Bouvier, Charles Henderson, Madam Crozy, President Carnot, Alfred Avellan, Edward Migé, etc. Do not fail to get our prices before buying.

CALADIUM ESCULENTUM. Sound bulbs with good centers, 7 1/2 in. good centers, 7 1/2 in.

BEGONIA PRITY. A new pure white of the semperflorens type, very fine flowering, \$2 per doz.

GERANIUMS. Strong 2 1/2 in. pot plants, large stock of S. A. Nutt, Baltimore Belle, Marvel, Heteranthe, La Favorite, and other best bedding sorts, \$25 per 1000.

Immense stock of Fruit Trees, Nut Bearing Trees, Grape Vines, and Small Fruits. One of the largest assortment of Ornamental Trees and Shrubs, Climbing Vines, Bulbs, Hardy Perennials, etc., in America. And 32 greenhouses filled with what the average florist is most likely to want. Correspondence solicited. Catalogues and trade lists free.

THE STORRS & HARRISON CO., Painesville, Ohio.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

CLEAN CITY Strawberry. Finest raised in the world. Best seasonally. Donaldis, Olympia, Aurora, Franchis, Kertes's, etc. production of fruit market. Philadelphia, Pa. Japan, Pluma, Small Fruits, Ferns, Prichard's, Coach, Japan. HARRISON'S NURSERIES, BELLING, MD.

IF YOU IMPORT ANY FLORIST OR NURSERY STOCK.

Don't forget to ask for Van Prielon and Kersbergen's (Hoosker, Holland) price list.

LOUIS VAN CORT, General Agent,

295 Dorchester Street. - Co. Boston, Mass

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

TREES

F. & F. Nurseries, SPRINGFIELD, N. J.

Subs. MELROSE, D. L. & W. R. K.

Wegrow and Karpis stock the most complete assortment of hardy lawn stock. Catalogue free.

Chicago.

State of Trade. Another week of fine spring, sunshy weather, just warm enough to need a little fire, particularly at night, has...

Easter Prices. Although no definite figures are yet agreed upon, the probabilities are that this year's prices will be lower, if anything...

Welsher's Spring Exhibition. E. WEINBERG gave a private exhibition of Spring plants and flowers on Tuesday...

Cincinnati, O.

The Market. All good stock sold the past week, and at fair prices. The stores were quite busy with floral and other work.

W. F. Law, of Shelbyville, Ind., was in the city Saturday, buying stock for a large new order. Harry Bayard, with Pitcher & Manda, and Henry Weber, of Oakland, Md., were also callers.

Early Planting of Carnations. C. C. MURPHY commenced planting his carnations in the field on March 30. This is the earliest that I have heard of.

THOMAS WINDRAM, of Newport, Ky., is the first in the market with sweet peas—Blanche Ferry. W. MURPHY had some very choice spikes of gladioli. His Bridesmaid carnations are now coming into crop, and are magnificent.

Saturday evening, the regular meeting of the Cincinnati Florists' Society was held. It was presided that owing to the magnificent show of flowers made every week in the Jabez-Elliott flower shop...

Shelbyville, says Little's Anti-pest kills the rust for him. A week or so ago, a sneak thief, during the daytime, entered the sleeping apartments of Thomas Jackson, of Milldale, Ky., and stole all of Tom's clothes.

For an exhibition staged in the club rooms Saturday was a good one, particularly the displays of Huntman & Co. and Henry W. Ober, at Oakland, Md. By Wintersteater staged Emma Woher and Buttercup carnations. William Murphy carried off first prize in Bridesmaid and Portia carnations and also exhibited a sport of Delta Fox resembling the variety E. A. Wood, being slightly more delicate; the flower is very fragrant, of good color and fine calyx.

Holyoke, Mass.

E. H. HOWLAND reports good business, and has a fine stock for Spring trade.

HARRY SINCLAIR, who is very successful in the seedling chrysanthemums, has been appointed Judge at the forthcoming Spring show of the Northampton Horticultural Society.

A change will be made in the ownership of the Rosemont Greenhouses, but JOSEPH BEACH, who has run them so successfully since the plants were erected, will retain the management.

Sanbury, Pa.

C. E. ROEBSTER has greatly improved his property by the addition of a handsome office. New boilers have been put in, and when coal costs but 60 cents per ton there should be a little in the business.

TOBACCO STEMS

Large Bales (\$80 lbs.)... STRONG AND FRESH Tobacco Seed, 2c. per lb. Kaffin, the best material for tying, does not injure the leaves; it rots earliest and is cheapest; first quality long fibre a lb. at 11c.

H. G. FAUST & CO. 64 & 66 N. Front St. Philadelphia, Pa.

THE BEST... FOR ALL Florists... FOR SALE BY Seed Stores. For Free Pamphlet, apply to LOEBLIEVE, TRUST VEEB, or H. G. FAUST & CO., Louisville, Ky.

EVERETT B. CLARK & SONS, Sole Manufacturers of the

GENUINE TROWBRIDGE GRAFTING WAX

and Wholesale Growers and Dealers in select New England Greenhouses. MILFORD, CONN.

THE KIDNEY PILLS... Do not injure the most sensitive plants. Endorsed by prominent Botanists. Used for fumigation or spraying indoors or out. 300 pounds of boxes in one lot of shipment. Sold by seedsmen. Circular sent. SEABOARD BOTANICAL CULTURAL DEP. OF CONN. "What Quickly & Does It." WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Hot-Bed Sash Tenons white-leaded. Corners secured with iron dovetails. Every detail of construction perfect. Made of Clear Cypress Lumber.

Quick Shipments. We have in stock and can ship immediately: 3 ft. x 6 ft. 3 rows 10 in. glass 3 ft. 3 in. x 6 ft. 4 " 8 in. 4 ft. x 6 ft. 5 " 8 in.

Delivered Prices. Quoted on application. State size and quantity wanted. No order too small to receive careful attention, and none too large for our facilities.

LOCKLAND LUMBER CO., Lockland, Ohio.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE GARDEN, ETC., HOSE "Mineralized Standard" at 1/2 cts. a yd. 1/2 in., 4 yd. covered, is the best hose made at any price.

Standard Flower Pots.

Send for our New Price List with extra discounts. All our Pots, from 7 in. and upwards, have our Patent Elastic Bottom, which is a great advantage, as it ensures perfect drainage.

FLORIST POTTS

We are Manufacturing a Full Line of STANDARD FLOWER POTTS and HANGING BASKETS OF THE BEST QUALITY.

Shipping Facilities First-Class, thereby Securing Lowest Freight Rates. Our goods are well packed, and breakage is nominal. Give us a trial. Send for Price List.

STANDARD FLOWER POTTS--At Bargains.

2 inch... per 1000, \$3.50 4 inch... per 1000, \$7.50 3 1/2 " " " 3.00 5 " " " 12.00 2 1/2 " " " 3.50 6 " " " 18.00 3 1/2 " " " 4.00 7 " " " 30.00

Water Coolers, from 2 gallons to 50 gallons, 12 1/2 cts. per gallon; made from stone clay and steel coloring.

Cylinders for Cut Flowers, made from stone clay, with handles 6 inches wide, 12 inches high, \$5.00 per dozen.

TERMS CASH. ADDRESS HILFINGER BROTHERS, Pottery, Fort Edward, N. Y. Or AUGUST RÖLKER & SONS, 136 and 138 W. 24th St., New York Agents.

SPRAY PUMPS The Best in the World. Our Pumps are used by the Leading Agricultural and Experimental Stations in America. PRICES \$2.00 TO \$15.00. Send for Catalogue and Special Price List. CHARLES J. JAGER COMPANY, 17 BRADLEY ST., BOSTON, MASS.

STANDARD POTS. We are now ready to supply a superior quality of Pots in unlimited quantities. Catalogues and price lists furnished on application.

A. H. HEWS & CO., NORTH CAMBRIDGE, - MASS.

STANDARD FLOWER POTTS

In any quantity, and of the best quality. Get my price list before ordering elsewhere.

W. H. ERNEST, Station M. N. E., WASHINGTON, D. C. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Standard Flower Pots.

Send for our New Price List with extra discounts. All our Pots, from 7 in. and upwards, have our Patent Elastic Bottom, which is a great advantage, as it ensures perfect drainage.

FLORIST POTTS

We are Manufacturing a Full Line of STANDARD FLOWER POTTS and HANGING BASKETS OF THE BEST QUALITY.

Shipping Facilities First-Class, thereby Securing Lowest Freight Rates. Our goods are well packed, and breakage is nominal. Give us a trial. Send for Price List.

STANDARD FLOWER POTTS--At Bargains.

2 inch... per 1000, \$3.50 4 inch... per 1000, \$7.50 3 1/2 " " " 3.00 5 " " " 12.00 2 1/2 " " " 3.50 6 " " " 18.00 3 1/2 " " " 4.00 7 " " " 30.00

Water Coolers, from 2 gallons to 50 gallons, 12 1/2 cts. per gallon; made from stone clay and steel coloring.

Cylinders for Cut Flowers, made from stone clay, with handles 6 inches wide, 12 inches high, \$5.00 per dozen.

TERMS CASH. ADDRESS HILFINGER BROTHERS, Pottery, Fort Edward, N. Y. Or AUGUST RÖLKER & SONS, 136 and 138 W. 24th St., New York Agents.

THE JOHN J. PETERS COMPANY (INCORPORATED) COMPRESSED PULVERIZED A Quick Germinator and Crop Forcer. PURE SHEET FERTILIZER Beats Every Chemical Fertilizer on Earth. Pure Sheep Fertilizer permanently improves the soil. Matures the largest and best crops. Quick and lasting in its action. CLEAN TO HANDLE. ADDRESS Long Island City, New York. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**J. K. ALLEN,**  
Wholesale Commission Dealer in  
**CUT FLOWERS,**  
57 W. 28th St., New York,  
Orders by mail or otherwise promptly attended to.  
Telephone Call, 382 8th St.  
**ROSES AND VIOLETS SPECIALTIES.**

**W. S. ALLEN,**  
17 West 28th St., New York.  
Correspondence Solicited.

**FITZGERALD & HAMMOND,**  
Wholesale Commission Dealers in  
**CUT FLOWERS,**  
115 West 30th Street,  
Consignments Solicited. NEW YORK.

**FORD BROS.**  
**WHOLESALE FLORISTS,**  
111 West 30th Street,  
NEW YORK.  
Consignments Solicited. Telephone 303 38th St.

**WM. H. CUNTER,**  
**Wholesale Florist**  
VIOLETS AND CARNATIONS A SPECIALTY.  
Consignments Solicited.  
30 West 29th St., New York.  
Telephone, 209-28th Street.

**MICHAEL A. HART,**  
**Wholesale & Commission Florist,**  
118 W. 80th St., New York,  
Telephone Call, 1907 8th St.  
All kinds of Roses, Violets and Carnations  
& specialties.  
**ORDERS PROMPTLY ATTENDED TO.**

**H. A. HOFFMANN,**  
**Wholesale Florist**  
54 W. 28th St., NEW YORK.  
Telephone Call, 197 18th St.  
American Beauties, Carnations, White Violets,  
Specialties. CONSIGNMENTS SOLICITED.

**EDWARD C. HORAN,**  
**WHOLESALE • FLORIST,**  
No. 34 W. 29th St., New York.  
The Bride, Mermat and American  
Beauty Specialties.

**JULIUS LANG,**  
**Wholesale Florist**  
53 WEST 30th ST.  
Consignments Solicited. NEW YORK.

**FRANK FULLANG,**  
Wholesale Commission Dealer  
...in Cut Flowers...  
408 East 34th St., New York City.  
Telephone Call, 184-36th.

**EASTER! APRIL 18th EASTER!**  
CUT FLOWERS, SMILAX, and FERNS, HARRISII, CALLAS,  
TULIPS, HYACINTHS, ROSES, CARNATIONS, VALLEY,  
DAFFODILS, ETC.

We are ready to quote prices on all Cut Flowers. All orders promptly attended to. Write us  
**W. E. LYNCH, 19-21 Randolph St., CHICAGO, ILL.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE  
**CHAS. W. McKEELAR,**  
**WHOLESALE COMMISSION FLORIST**  
We are prepared to take best of care of Easter orders. Will have full supply  
of all essential flowers. Give us a list of your wants, 321 E. 13th St.  
**FLORISTS' SUPPLIES, WIRE WORK, Etc. Consignments Solicited.**  
Telephone, Main 1129. 59 WABASH AVE., CHICAGO, ILL.  
ED. F. WINTERTSON, Manager.



NAMES AND VARIETIES.	NEW YORK		PHILADELPHIA		CHICAGO		ST. LOUIS	
	Apr. 9, 1897.	Apr. 1, 1897.	Apr. 7, 1897.	Apr. 4, 1897.	Apr. 7, 1897.	Apr. 6, 1897.	Apr. 6, 1897.	Apr. 6, 1897.
A. Beauty, fancy and special	5.00 to 25.00	35.00 to 50.00	30.00 to 50.00	20.00 to 35.00	20.00 to 35.00	20.00 to 35.00	20.00 to 35.00	20.00 to 35.00
"extra	5.00 to 25.00	30.00 to 35.00	30.00 to 40.00	15.00 to 15.00	10.00 to 10.00	10.00 to 10.00	10.00 to 10.00	10.00 to 10.00
No. 1	5.00 to 10.00	8.00 to 12.00	8.00 to 12.00	8.00 to 12.00	8.00 to 12.00	8.00 to 12.00	8.00 to 12.00	8.00 to 12.00
"Calla and ordinary	5.00 to 10.00	4.00 to 6.00	5.00 to 10.00	3.00 to 5.00	4.00 to 6.00	4.00 to 6.00	4.00 to 6.00	4.00 to 6.00
Bismut, Cash	2.00 to 2.00	4.00 to 4.00	4.00 to 4.00	2.00 to 2.00	2.00 to 2.00	2.00 to 2.00	2.00 to 2.00	2.00 to 2.00
Bride	1.00 to 4.00	3.00 to 8.00	3.00 to 8.00	3.00 to 4.00	2.00 to 2.00	2.00 to 2.00	2.00 to 2.00	2.00 to 2.00
Bridesmaid	1.00 to 4.00	3.00 to 8.00	3.00 to 8.00	3.00 to 4.00	2.00 to 2.00	2.00 to 2.00	2.00 to 2.00	2.00 to 2.00
"Calla and ordinary	1.00 to 4.00	3.00 to 8.00	3.00 to 8.00	3.00 to 4.00	2.00 to 2.00	2.00 to 2.00	2.00 to 2.00	2.00 to 2.00
E. A. Victoria	1.00 to 2.00	2.00 to 2.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Jacquemont	1.00 to 2.00	4.00 to 4.00	4.00 to 4.00	4.00 to 4.00	4.00 to 4.00	4.00 to 4.00	4.00 to 4.00	4.00 to 4.00
L. P. French, Green	1.00 to 2.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Memo. Chaper. Mrs.	1.00 to 2.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Memo. Teston.	1.00 to 2.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Meteor	1.00 to 2.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Mrs. F. Morgan	1.00 to 2.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Niphetos, Rose	1.00 to 2.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Signa Garden	1.00 to 2.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Perle	1.00 to 2.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Rey de Wootton	1.00 to 2.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Ulrich Brauner	3.00 to 12.00	12.00 to 50.00	8.00 to 25.00	3.00 to 6.00	3.00 to 6.00	3.00 to 6.00	3.00 to 6.00	3.00 to 6.00
Waltville	1.00 to 2.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
W. P. French	1.00 to 2.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Asparagus	5.00 to 50.00	50.00 to 50.00	50.00 to 50.00	50.00 to 50.00	50.00 to 50.00	50.00 to 50.00	50.00 to 50.00	50.00 to 50.00
Calla	5.00 to 5.00	4.00 to 5.00	5.00 to 5.00	4.00 to 5.00	4.00 to 5.00	4.00 to 5.00	4.00 to 5.00	4.00 to 5.00
(All orders, inferior grades)	1.00 to .75	.25 to .50	.25 to .75	.25 to .75	.25 to .75	.25 to .75	.25 to .75	.25 to .75
Calla	.75 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
STANDARD	1.00 to 1.00	.75 to 1.50	1.00 to 1.00	.75 to 1.00	.75 to 1.00	.75 to 1.00	.75 to 1.00	.75 to 1.00
VARIETIES	1.00 to 1.00	.75 to 1.50	1.00 to 1.00	.75 to 1.00	.75 to 1.00	.75 to 1.00	.75 to 1.00	.75 to 1.00
*FANCY (White)	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00
"Yel. & Var.	1.00 to 2.00	1.25 to 1.50	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
CARNATIONS	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00
(CUT) (White)	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00
(CUT) (Yellow)	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00
(CUT) (Red)	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00
(CUT) (Pink)	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00
NOZZLES.	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00
CATELAIS	25.00 to 35.00	30.00 to 35.00	30.00 to 35.00	30.00 to 35.00	30.00 to 35.00	30.00 to 35.00	30.00 to 35.00	30.00 to 35.00
LEILA	1.00 to .75	.75 to 1.00	1.00 to 1.00	.75 to 1.00	.75 to 1.00	.75 to 1.00	.75 to 1.00	.75 to 1.00
LEILA, Longiform	2.00 to 5.00	4.00 to 5.00	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00
LEILA of THE TABLE	1.00 to 2.00	1.00 to 3.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00
MIGNONETTE	.50 to 4.00	1.00 to 4.00	1.00 to 4.00	.75 to 4.00	1.00 to 4.00	1.00 to 4.00	1.00 to 4.00	1.00 to 4.00
NARCISSUS, Von Hise	1.00 to 2.00	1.00 to 3.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
"Golden Spurr.	1.00 to 2.00	1.00 to 3.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
ROMAN HYACINTHS	5.00 to 1.00	.75 to 1.00	1.00 to 4.00	1.00 to 4.00	1.00 to 4.00	1.00 to 4.00	1.00 to 4.00	1.00 to 4.00
SMILAX	12.00 to 20.00	10.00 to 15.00	15.00 to 20.00	10.00 to 12.00	10.00 to 12.00	10.00 to 12.00	10.00 to 12.00	10.00 to 12.00
TULIP	1.00 to .40	.25 to .50	.50 to .50	.35 to .50	.35 to .50	.35 to .50	.35 to .50	.35 to .50

For Prices of Fancy and Special Stock see our Correspondence Columns.  
Prices are for quantities of one hundred unless otherwise noted.  
Prices quoted above are given only after very careful inquiry, and while we do not  
guarantee their accuracy, they will be found practically correct up to the date mentioned.

**REINBERG BROS.,** Wholesale Growers of Cut Flowers. .  
500,000 Feet of Glass. .

We can fill all orders on short notice with all leading varieties of ROSES and  
CARNATIONS. We are headquarters for fine AMERICAN BEAUTIES.  
Give us a trial and convince yourself.  
**SALESROOM 51 Wabash Avenue, CHICAGO, Ill.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**SAMUEL S. PENNOCK,** WHOLESALE  
FLORIST.  
...FINE...  
**BRUNNERS** NOW IN. ALSO GOOD ASSORT-  
MENT OF OTHER ROSES.  
CROP OF BEST STOCK.  
We are still headquarters for finest and best varieties of CARNATIONS.  
**1612-1614 Barker St. Bet. Chestnut & Market St. Philadelphia, Pa.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Illinois Cut Flower Co.,** KENNICOTT BROS. COMPANY,  
J. B. DEAMUD, Manager. Wholesale • Cut • Flowers,  
WHOLESALE COMMISSION FLORISTS, 88 Wabash Avenue,  
59 Wabash Ave., Chicago. CHICAGO, ILL.  
Consignments Solicited. WIRE WORK A SPECIALTY.

**THE NEW YORK CUT FLOWER CO.**  
119-121 West 23d Street,  
112-114 West 24th Street,  
Telephone 735, 12th St., NEW YORK.  
**THE LARGEST DEALERS IN CUT  
FLOWERS IN THE WORLD . . .**

**PURDY & BLAUVELT,**  
Wholesale and Commission Dealers in  
**CUT FLOWERS**  
MAINEHED PEEN FRONES A SPECIALTY.  
57 WEST 30TH ST.  
Bet. Broadway & 6th Ave. NEW YORK.

**A. & F. ROLKER,**  
WHOLESALE DEALERS IN  
**CUT FLOWERS**  
53 West 28th St.  
Telephone 2379 38th St. NEW YORK.

**W. F. SHERIDAN**  
Wholesale Commission Dealer in \*  
**CUT FLOWERS**  
39 West 25th St., New York.  
Telephone, 214-38th St.  
PRICE LIST SENT ON APPLICATION.

FRANK H. TRACY, CHAS. SCHENCK &  
**TREANDY & SCHENCK,**  
Wholesale Florists,  
38 W. 28th St., and CUT FLOWER EXCHANGE.  
NEW YORK.  
Telephone 691-38th St.  
#2-Consignments Solicited.

**JOHN YOUNG,**  
**Wholesale Florist,**  
51 WEST 23th ST.,  
NEW YORK.

**WM. J. BAKER,**  
**Wholesale Florist**  
1432 So. Penn Square,  
Philadelphia, Pa.

**DUMONT & CO.,**  
**WHOLESALE FLORISTS**  
CARNATIONS A SPECIALTY.  
No. 1305 Filbert St., Philadelphia.

**EDWARD REID,**  
**Wholesale Florist**  
ROSES, VIOLETS  
Roses, Carnations, Violets,  
No. 40 South Sixteenth Street,  
Local and Long Distance 7900E. Philadelphia.

**ROGERS PARK FLORAL CO.,**  
**Wholesale Growers of Cut Flowers**  
OFFICE AND SALESROOM,  
41 WABASH AVE., CHICAGO.  
Headquarters for AMERICAN BEAUTIES.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Wholesale Florists **JOBBER'S IN**  
 ALWAYS ON HAND: **FLORIST'S**  
 CUT FLOWERS, SUPPLIES.  
 N. F. WILKINSON  
 FLORISTS' VASES.  
 Horticultural Antiquaries,  
 84 HAWLEY STREET, - BOSTON.

**GEORGE MULLEN,**  
 Wholesale and Commission Dealer in  
**Cut Flowers.**  
 Best stock and lowest prices. Orders by  
 mail, express, telegraph, or tele-  
 phone promptly attended to.  
 GEORGE MULLEN 18 Chapman Place, Boston.

**GEO. A. SUTHERLAND,**  
 SUCCESSOR TO WM. J. STEWART,  
**CUT FLOWERS AND FLORISTS' SUPPLIES**  
 WHOLESALE.  
 67 Bromfield St., Boston, Mass.

**City Hall Cut Flower Market**  
**WELCH BROS., Props.**  
 Regular Consignees Given Space Free  
 of Charge. Send lot to growers willing  
 to sell their own goods.  
 Flowers Shipped to all Points.  
**SEND FOR PRICE LIST.**

**W. ELLISON,**  
**Wholesale Cut Flowers,**  
 Florist Supplies. Wire Designs.  
 2744 Franklin Ave., ST. LOUIS, MO.

**CHAS. G. FLECKENSTEIN,**  
 Wholesale Florists,  
 1323 PINE STREET,  
 ...ST. LOUIS, MO.

**C. A. KUEHN,**  
 Successor to ELLISON & KUEHN,  
**WHOLESALE FLORIST,**  
 1122 Pine St., St. Louis, Mo.  
 A COMPLETE LINE OF WIRE DESIGNS.

**C. W. WORS,**  
**Wholesale Florist,**  
 913 N. LEFFINGWELL AVENUE,  
 ST. LOUIS, MO.  
**FINE ROSES**—Sorted carefully to all  
 parts of the country.

**HEADQUARTERS** In Western  
 New York.  
**TRY US**  
**ROSES, CARNATIONS,**  
**AND VIOLETS.**  
**WM. F. KASTING** Wholesale  
 486 Washington Street, Commission  
 Buffalo, N. Y. Florist.

**E. G. HILL & CO.,**  
 Wholesale Florists,  
 RICHMOND, INDIANA.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**ROSE SEEDS**  
**ASPARAGUS PLUMOSUS NANUS,**  
**W. H. ELLIOTT,**  
 75 Cts. per 100 lbs.  
 Buds weight about 60 lbs.  
 THE BEST AND FAVORITEST SORT OF FRESH,  
 NOT OLD ORDER BY LETTER. Ten lbs. and the best of  
 H. A. STOOTHORP, 315 Madison Ave., N. Y.  
 Cut Strings, 8 to 10 feet long,  
 50 lbs. each.  
 Shipped to any part of the  
 country.  
**Brighton, Mass.**

**Dorchester, Mass.**  
 In a November issue of the EXCHANGE  
 the writer told of the method pursued by  
 LAWRENCE CUTTER with the Crimson  
 Rambler rose. At that time the plants  
 were being rested; water, they were  
 brought right along, till now we see a  
 grand lot in 12-inch pots, trained out  
 or egg-shape, with a profusion of buds  
 making, as my Boston friend expressed it,  
 "superlatively fine" plants; but the price  
 is \$10 apiece. They are well worth it, but  
 I am afraid 'tis too high for many to invest  
 in such a luxury, still Easter will no doubt  
 see every plant disposed of. Several hon-  
 ors of hybrid are in splendid condition.  
 Beauty, Major and tete also look well.  
 Testout will be discarded for Kaiserin  
 Augusta. Carnations will not be grown  
 any more; the houses are well adapted for  
 roses, and Mr. Cutter can make more  
 money by following this course.  
 WARREN EWING rejoices in the prospect  
 of a grand supply of bilbons stock for  
 Easter. W. M.

**Brookline, Mass.**  
 F. E. PALMER has received many in-  
 quiries regarding his method of growing  
 the grafted rose, and will probably give  
 the readers of the EXCHANGE, at no distant  
 date, the benefit of his experience. Mean-  
 time we watch and wait, as he did at that  
 time.

Mass Vase has sold part of the land ad-  
 joining her houses. It is far too valuable  
 to retain for the purpose of building green-  
 houses thereon.  
 J. GREEN has a patronage which enen-  
 him to raise thousands of narcissi, both  
 double and single, in pans—a popular  
 method. One of the most pleasing ranges  
 in white and green is valley or La Candeur  
 tulips, with Adiantum cuneatum, in a  
 bright, clean pan. How few think of  
 sending out a plant in a clean pot. W. M.

**Cambridge, Mass.**  
 Judging by the immense stock being  
 grown, evidently FRED. C. BECKER com-  
 templates a larger demand than usual for  
 the Boston fern; the sales of which, both  
 locally and outside, have been very large  
 this season, all stable stock being easily  
 disposed of.

W. E. DOYLE has a beautiful lot of lilies  
 and hydrangeas in perfect form for Easter.  
 Many of the latter are in 9 and 10-inch  
 pots, I counted, respectively, 12 and 20  
 heads—fine trusses of perfect color. Du-  
 Murphy wants to know if this can be had.  
 The old variety of Spirea japonica is grown  
 by the houseful; it is also in fine condi-  
 tion.

WM. EDGAR has several houses of the  
 azaleas at Waverly. W. M.  
**New Haven, Conn.**  
 JOHN CHAMPION is completing three-  
 houses, each 115x6 feet, for carnations, the  
 demand for which is satisfactory. A bus-  
 iness wagon has lately been added to keep  
 ahead of the procession.

SMITH T. BRADLEY has been very success-  
 ful, both in producing some grand roses and  
 obtaining good prices for same this season.  
 Carnations are very promising.  
 S. H. MOORE is exceedingly busy with  
 decorations for openings. An annual order  
 for 2,500 roses for free distribution by a  
 prominent store, was a good lift.  
 ROBERT VEITCH & SON report a good seed  
 business, their plant department is increas-  
 ing, many old and new varieties are  
 grown. Here one sees the unique and very  
 rare occurrence of three generations taking  
 an active interest in one business at one  
 time. W. M.

**Hartford, Conn.**  
 JOHN COOMBS intends adding one  
 Weathered house for roses, 100x18 ft. He  
 has a splendid stock for Easter. Carna-  
 tions are scarce just now, but the scarcity  
 is more than compensated by heavy crop-  
 s of roses and violets. W. M.

**Boston Florist Letter Co.**  
 THE MODERN BUSINESS LETTER WRITER  
 FLORISTS' LETTERS.  
 This modern business letter writer, finished, 15-30  
 112 made in two sections, one for each size, when  
 given with first order of 500 letters.  
 Sent Letters, 12 1/2 each one per 100, \$2 00  
 Sent Letters, \$4 00  
 Features with each letter or word.  
 Used by leading florists everywhere and has been  
 adopted by many florists and nursery dealers.  
 N. F. MCCARTHY, Treas. & Manager.  
 16 STATE ST., BOSTON, MASS., an agency in  
 every city.

**CUT SMILAX**  
 \$25.00 per 100 strings.  
**ADIANTUM CUNEATUM**  
 Extra fine French \$125 per 100. Cash with order.  
**CUSTAVE SCHRAEDER.**  
 Hoffman Boulevard, Cut Flower Exchange,  
 Newtown, L. I.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CUT ROSES.**  
 Fine BRIDE, BRIDESMAID  
 and PERLE on short notice.  
 Give us a trial.

**THE NATIONAL PLANT CO., Dayton, Ohio.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE  
**10,000 HARRISII**  
 \$9.00 per 100 buds and blooms in pots.  
 \$8.00 per 100, cut.  
 It will be for those who order, to order be-  
 fore they are thoroughly opened, as they will  
 ship better.

Cash With Order.  
**WM. A. BOCK,**  
**NORTH CAMBRIDGE, MASS.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**EASTER OFFERING**  
 CHOICE SEASONABLE FLOWERS  
 DELICATE SEEDS SUPPLIES  
 PRICES AS LOW AS POSSIBLE  
**ELMOUNT**  
 1 Live St. CHICAGO  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**JOHN CONLEY & SON,**  
 MANUFACTURERS OF  
**TIN FOIL,**  
 2 and 4 Dominick Street,  
 NEW YORK.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**M. RICE & CO.,**  
 Importers and Manufacturers of  
**FLORISTS' SUPPLIES,**  
 25 N. 4th St., Philadelphia, Pa.  
 NEW FALL CATALOGUE NOW READY  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**PAPER** Toophicks.  
**AND** Paper Bags.  
**TWINE.** Waxed and Tissue  
 Papers—all sizes.  
**H. A. SOHL,** 147 E. 42d St.,  
 NEW YORK.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**WIRE CATER**  
 MANUFACTURED BY  
**FLORISTS' WIRE DESIGN**  
 125 W. 23d St. NEW YORK

**YOU NEED WIRE WORK**  
 WE ARE LARGE MANUFACTURERS  
 IN THIS LINE.  
 Get our Low List and Save Money  
**ELLIS & POLLWORTH,**  
 Box 75. Milwaukee, Wis.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

...THE COMPLETE...

**BOOK CATALOGUE.**  
 We have just issued the most select and  
 complete catalogue of books on horticul-  
 tural and allied subjects, ever published.  
 The catalogues of the various book pub-  
 lishers of this country as well as Europe,  
 have been carefully gone through, and such  
 works taken therefrom as were considered  
 suitable for our patrons.  
 This catalogue contains 99 pages, and  
 embraces

...BOOKS for  
 The Florist  
 The Market Gardener  
 The Nurseryman  
 The Fruit Grower  
 The Seedsman  
 The Student of Botany, Entomology and Ornithology  
 The Poultry Keeper  
 The Farmer  
 The Lover of Plants and Flowers  
 and the Student of Nature in general, in fact  
**BOOKS FOR EVERYBODY**  
 interested in the science and practice of  
 rural economy.  
 This handy catalogue will be sent on  
 application accompanied by a two-cent  
 stamp. Address  
**A. T. DE LA MARE PTC. and PUB. CO. Ltd.**  
 P. O. Box 1697, New York.

## Cypress Greenhouse Material.

We are the pioneers in Clear Cypress Greenhouse Material. We discovered that Cypress is better than any other wood for greenhouses from top of posts up and we introduced it, and fought for it against many prejudices, and finally succeeded in bringing it into general use.

Others have attempted to follow where we lead, others are trying to reap what we sowed, but we have the experience and are recognized as experts in greenhouse construction.

Write for Circulars or Estimates.

Lockland Lumber Co.

LOCKLAND, OHIO.

## Modern Greenhouse Heating.

One of our boilers, 10,380 feet of two inch pipe, and sixty tons of coal will heat 20,000 feet of glass (four 20x200 feet double rable houses) to 65 degrees in coldest winter weather; they have done it, and will do it for you—we guarantee it. Our boilers are not only the best of their kind, but the best made. They have the largest "firelight" direct surface, are the easiest cleaned, handled and set up; and from engineering facts, they are the ideal frictionless, economical water heating boilers of our day.

Plenty's Horticultural Works,

148-156 Randolph Ave.,

JERSEY CITY, N. J.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE



VALVES, FITTINGS, AND VENTILATING APPARATUS.

COLDWELL WILCOX CO., Newburgh, N. Y. Mention paper.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**The Strength of a Child** pushes the "Simco's" Hose Mender into place. No tools required.

**The Strength of a Horse** cannot pull it out. Each or 3/4 inch by mail, 10 cts. 4 inch by 25 cts. per set.

**ELECTRIC HOSE** can be bent double, twisted into any shape or run over by teams without injury. Send for sample.

A GOOD LAWN SPRINKLER, By mail, \$4.00. KING & KNIGHT, 35 E. Wendell Street, Boston

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**GLASS!** FOR GREENHOUSES, CONSERVATORIES, GRAPERIES, HOTBEDS AND FLOORS GENERALLY, AT LOWEST RATES. L. HARRIS & SON, 497 W. BROADWAY, NEW YORK, 89 LIBERTY ST., NEW YORK. Tel. Broadway and Clarka Bldg.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**GLASS!** For Greenhouses, Conservatories, Graperies, Hotbeds and all other purposes, at Lowest Rates. N. COWEN'S SON 392 & 394 West Broadway, New York.

Get our Circulars before buying Glass. \* \* \* Estimates Freely Given. PARMENTER 124 and 130 So. Fifth Avenue. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**GLASS** For GREENHOUSES, CONSERVATORIES, GRAPERIES, HOTBEDS AND FLOORS. VANHORNE GRIFFEN & CO. Agents for CHAMBERS & M'KEE CO., Jeannette Brands American Glass.

Importers of French Glass, 13, 15 & 17 LIGHT ST., AND 25, 27 & 29 WATER ST., NEW YORK. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**RED CEDAR** Never Decays. A. DIETSCH & CO. 619 Sheffield Avenue, CHICAGO. MANUFACTURERS OF RED CEDAR AND CYPRESS GREENHOUSE MATERIAL. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

SEND FOR OUR NEW CATALOGUE, WHICH SHOWS **The New Automatic Case Ventilator**. An all-pur in the house complete. We also give you prices with a guarantee that each machine sent out will operate just as successfully. Sold nowhere else for less. A. Q. WOLF & BRO., Dayton, Ohio. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## Parasitic Plant Diseases.

In a lecture delivered before the Massachusetts Horticultural Society, on March 27, by Dr. Edwin F. Smith, of the Division of Vegetable Physiology and Pathology, U. S. Department of Agriculture, he said that most diseases which prevail extensively and are known as "catching" diseases are due to parasites. These plant parasites are plants or animals which have in some way lodged on or gained an entrance into the body of a plant, and there multiply to its detriment. The manner in which these parasites succeeded in getting from one plant to another was by means of insects, such, for instance, as bees, which had been known to carry the virus blight from an infected bush to a healthy one.

Bacterial wilt of cucumbers, melons, pumpkins and squashes was due to a sticky virus micro-organism which filled the water ducts of the plants, and caused a sudden collapse of the plant. It was readily communicated by the striped cucumber beetle, which feeds on the plants. The insects carry the virulent sticky germs on their backs, and deposit them in the next plant bitten. Bacterial brown rot of the potato, tomato and egg plant: The Department of Agriculture has recently published a bulletin on this subject. Infected on the diseased plants that are swarming with the parasite, and go to other plants which are not and thus quickly become diseased. The disease may be known by the sudden wilt of the foliage, the stems becoming brown internally and shriveling.

Spread by snails and slugs: The damage done to these as carriers of disease is greater than the injuries they induce by eating the plants. The fact that snails and slugs blacken the vines, causes the leaves to fall off, and prevents the formation of roots in the plants. In the common greenhouse slug disseminated the micro-organism to which this was due, and increased the damage done internally.

Barnyard manure always contains a great variety of organisms, most of which are harmless to plants. But sometimes spores of parasites get in through fodder or bedding, and often through moldy or rotten vegetable refuse on the plants. The watermelon wilt disease lives over winter in the dead stems and grows readily in manure. So this should never be used on plants. It is also to be kept from other plants and other plants have become diseased in this way, and it should be remembered that manure should be used to be kept free from the rubbish of plants that have been diseased.

Certain parasitic diseases live and multiply in the soil as saprophytes, ready when opportunity offers to become parasites. These soil fungi get from field to field, sometimes by irrigation or by floods; sometimes by the plough or tools. Onion smut, potato scab, etc., are examples of these soil parasites. He mentioned particularly the case of Fusarium wilt disease of the United States. He knew of eight cultivated plants subject to them. In all the trouble is due to a parasitic clogging of the water ducts. The plants found so affected were cotton, cow pea, watermelon, cabbage, potato, tomato, sweet potato, and pineapple. The cause of the trouble is too frequent growing of the same crop, and the best remedy is a wide rotation.

Disease is also spread by way of seeds, buds, tubers, cuttings, and nursery stock. In oats and wheat the smut spores adhere to the kernels, germinate at the same time and boys into the young seedlings. Many diseases are distributed in bulbs, but the most wholesale manner of distribution is through the medium of irresponsible nurserymen. In this way all sorts of fungi and insect pests are spread from one part of the country to the other. The San Joaquin scale has been distributed in this way.

## Speculation.

A suggestion touching the now popular village improvement might well be studied by those who are interested in pressed by hard times. It may be considered very practical, since it comes from a tourist who has put it into practice at least in part. It looks to the buying up of the waste lands, so often an eyesore about railroads, and improving them. A public square or street and some fine building lots may be bought from the owner of a block of land. These might be put in proper shape, and a block of hardy, herbaceous plants and shrubs from every part of the country to the other. This San Joaquin scale has been distributed in this way.

## MEYER GREEN SILKLINE.



Will not fade, or rot like other colors. Made also in fancy colors for tying purposes. Seed for names and prices. JOHN C. MEYER & CO., 87 Summer Street, BOSTON, MASS., U. S. A. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

HAVE YOUR COLLECTIONS MADE THROUGH THE NATIONAL FLORISTS' BOARD OF TRADE, 271 BROADWAY, NEW YORK.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**SNIPS** Then the best for florists, florists, gardeners, etc. is Kelley's Florists' Shears and Flower Cutters. Circular free. FLORISTS' EXCHANGE, FRENCH BLVD., N. Y.

**CLARK BROTHERS,** Manufacturers and Printers of **PAPER SEED BAGS** Of every description except Hessian Bags. 61 ANN STREET, NEW YORK.

**CANE PLANT STAKES** 3 to 6 ft., per 1000, \$2.00. 6 to 8 ft., " " 3.00. Ready Now. Cash with order. Will ship light, because well dried. W. W. HENDRIX, Bowling Green, Ky. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CHOCOLATE COOLER CO.,** GRAND RAPIDS, MICH. Manufacturers of **FLORIST'S REFRIGERATORS.** Send for Circular. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**RAFFIA** Of Best White Quality, Braided. Direct from the Packers in Madagascar. Apply for quotations to **ANDRE L. CAUSSE,** 105-107 Hudson St., New York. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**SUMMER IN WINTER** By Using **Standard Greenhouse Boilers** One cent gets you the Catalogue. **GIBLIN & CO.,** Utica, N. Y. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Etant Improved Challenge.** Roller bearing, self-oiling device, automatic stop, etc. This device makes the IMPROVED CHALLENGER work with perfect returns in the market. Write for catalogue and prices before placing your orders else where. **Quaker City Machine Co.,** RICHMOND, IND. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**MASTICA** For Glazing Greenhouses. A substitute for mull. Superior in every way. **MASTICA and MASTICA GLAZING** PATENTED were given Highest Award at S. A. F. at Pittsburg. Address for circular, **F. D. PIERCE CO.,** 170 Fulton St., N. Y. Sole Manufacturers. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**LORD & BURNHAM CO.,**  
**HORTICULTURAL ARCHITECTS AND BUILDERS,**  
**STEAM AND HOT WATER HEATING ENGINEERS.**

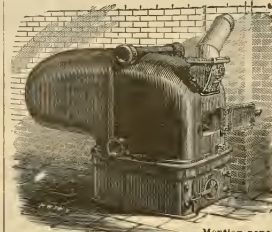
Plans and Estimates furnished on application.



Largest Builders of Greenhouse Structures. Six Highest Awards at the World's Fair.  
 Plans four cents postage for Illustrated Catalogue.

**LORD & BURNHAM CO.,**  
 ARCHITECTURAL OFFICE, 160 FIFTH AVE., COR. 21st STREET, NEW YORK.  
 Factory: Irvington-on-Hudson, New York. Mention paper

**GREENHOUSE HEATING AND VENTILATING,**  
 Horticultural Architecture and Building.



Mention paper.

SEND 4c. POSTAGE FOR ILLUSTRATED CATALOGUE.

**Hitchings & Co**

ESTABLISHED 1844.

233 Mercer Street, NEW YORK

**FIVE PATTERNS OF BOILERS.**

NINETEEN SIZES.

Perfect Sash Raising Apparatus,  
 Rosehouses, Greenhouses, Etc., of Iron  
 Frame Construction erected complete  
 or the Structural Iron Work ship-  
 ped ready for erection.

Iron Frame Benches with the  
 "Perfect Drainage Bench Tie"  
 or Slate Taps.

**Market News.**

Every day trade is what might be called good for the Lenten season, fair, pleasant weather for shoppers, with store openings calling for decorations and flowers to give away, lending influence in this direction.

The usual anticipation now exists regarding the flattering prospects of Easter trade.

**Death of an Old Time Florist.**  
 ALEXANDER ALDRICH, of South Park Ave., this city, an old and respected market gardener and florist, died, March 31; the death of his wife occurred but four days previous. He leaves two sons and one daughter.

A hurried visit to the Botanic Gardens found Prof. Cowell in the midst of active spring operations. A goodly sized house has been erected for the accommodation of a hilly tank bordered by raised walks, of ample width, and will be an unusual feature to the general public.

SEBASTIAN PICKELBACH has returned from a South American trip. His description of life and features met with in that region, is of an instructive and entertaining nature.

W. T. BELL, of Franklin, Pa., visited friends here on Tuesday. V.I.D.

**Syracuse, N. Y.**

**A Floral Fountain.**  
 The funeral of Henry J. Mowry, president of the Water Board, created quite a little trade. The floral pieces were numerous and costly, the most prominent being a fountain from the employees of the Water Department. The lower basin was fringed with lilies, with a profusion of smilax and fern. The groundwork of the column was of lilies and white tulips, studded with Bridewind roses. The upper basin was composed of Hoste and Bride roses, with sprays of valley to represent the jets of water. Standing a little over 6 feet in height, it was a beautiful piece of work, and very creditable to the designer, W. Wesson, of P. R. Quinlan & Co. C. BAISON.

**White Plains, N. Y.**

W. G. HARPER, a florist of this place, and Samuel Smith, one of his employees, were killed at Kenosha by being struck by the Pittsfield express, while crossing the tracks of the Harlem Railroad.

**Chester, Pa.**

THOMAS F. DELAHUNT is receiving the congratulations of friends on the arrival of a bright-eyed baby daughter, which was introduced to him on Saturday, April 3.

**Cumberland, Md.**

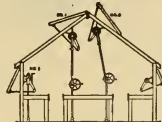
James Blackwell, who has been chief florist and gardener at the West Virginia Asylum for the Insane at Weston, suddenly became insane and had to be placed in the violent ward.

**Akron, O.**

GEORGE F. ANSON dropped dead while working in his greenhouse March 30. Heart disease is said to have been the cause of death. He was 50 years old, and unmarried.

**STANDARD VENTILATING MACHINE.**

NONE  
**EQUAL IT**  
 IN  
**Strength**  
 AND  
**Durability**



NOTHING  
**Flimsy**  
 OR  
**Complicated**  
 about it.

Send for Catalogue.

E. H. HIPPARD, YOUNGSTOWN, OHIO.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

**GREAT REDUCTION IN PRICE.**

On account of the consolidation of the two firms—Rider Engine Company and De Lamater Iron Works, which have heretofore manufactured the

**RIDER & ERICSSON HOT AIR PUMPING ENGINE**

a great reduction in prices has been made, and the enlarged and improved facilities enable the new firm to produce a better engine than ever before offered for securing an abundant water supply for all purposes on Dairy, Stock and other farms, and for country seats, city residences, &c.

New catalogues are ready, and will be sent to those who ask for them.

RIDER-ERICSSON ENGINE CO.,

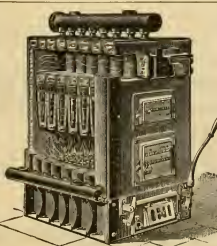
22 Cortland St., New York, N. Y. 586 Lake St., Chicago, Ill.  
 191 & 193 High St., Boston, Mass. 29 & 31 N. 7th St., Phila., Pa.

WHEN WRITING, MENTION THE FLORISTS' EXCHANGE.



**GREENHOUSE**  
**GLASS**  
**WORKS**

The Wood Glass Co.  
 226 N. Salina St.,  
 Syracuse, N. Y.



**ATTENTION, FLORISTS!**

It will be to your advantage to look into the merits of the Scollay "Invincible" Hot Water Boiler. It is all that its name implies, and don't forget it. Cuts and full information mailed on application.

**JOHN A. SCOLLAY,**  
 74 & 76 MYRTLE AVE.,  
**BROOKLYN, NEW YORK.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Chadborn's Automatic Ventilator  
**CHADBORN, KENNEDY & CO.**  
 NEWBURGH, N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CYPRESS GREENHOUSE MATERIAL**

JOHN C. MONINGER CO.  
 412 to 422 HAWTHORNE AV. CHICAGO, ILL.

OF ANY DESCRIPTION.

SEND FOR CATALOGUE.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

IF YOU WANT  
**A GOOD SASH LIFT**  
 For a Very Little Money Get

THE NEW DEPARTMENT VENTILATING APPLIANCE

For Descriptive Catalogue Send to  
**J. D. CARMODY, Evansville, Ind.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CYPRESS**  
 IS MUCH MORE DURABLE THAN PINE.

**CYPRESS SASH BARS**  
 UP TO 32 FEET IN LENGTH OR LONGER.  
**GREENHOUSE**  
 AND OTHER BUILDING MATERIAL.

Send for our Illustrated Book  
 "CYPRESS LUMBER AND ITS USES."  
 Send for our Special Greenhouse Circular.

**THE A. T. STEARNS Lumber Co.**  
 N. W. CORNER OF N. STATE ST., BOSTON, MASS.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Valuable Paper.  
 Am well satisfied with results obtained from us for your valuable paper. JOHN A. DOTY, Springfield, Ohio, July 30, 1896.

# SOUV. DU PRESIDENT CARNOT

SEE ADVERTISEMENT IN NEXT WEEK'S ISSUE.

E. G. HILL & CO., STRAUSS & CO., ROBERT CRAIG,

RICHMOND, IND.

WASHINGTON, D. C.

PHILADELPHIA, PA.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Write to  
**COLEUS**  
**PANCIES**  
**VERBENAS**  
**D. K. HERR,**  
 we are in for bargains on  
 these. See full ad. page 376.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**WELCH BROTHERS,**  
 DEALERS IN  
**FLORISTS' SUPPLIES,**  
 No. 2 Beacon Street. - BOSTON.

Wire Designs, Wheat Sheaves, Baskets, Immortelles, Cape Flowers, Out Flowers, Boxes, and all other supplies, at prices to meet competition.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## Galax Leaves.

CHAS. H. RICKSECKER, Linville, N. C.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Caranopsis.**—All the novelties of the season from 2½ inch pots, at ruling prices. Standard varieties from 2½ inch pots, \$1.00 per 100 Bushy plants for summer flowering, 4.00

**Chrysanthemums.**—All the best standard varieties from pots, \$2.00 per 100

Mrs. H. Robinson, \$4.00 per 100.

**Clematis Ramblers.**—Strong plants from 3 inch pots, \$1.00 per 100; \$4.00 per 1000.

C. EISELE, 11th & Jefferson Streets, Philadelphia, Pa.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE



## Florists' Supplies...

LARGEST STOCK IN THE COUNTRY

All goods up to date, and of superior quality. Send for Illustrated Catalogue.

We are prepared to supply

## GALAX LEAVES

in any desired quantity

**H. BAYERSDORFER & CO.,**

56 N. FOURTH STREET, PHILADELPHIA, PA.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## CYCAS LEAVES AND FUNERAL SHEAVES BASKETS AND SUPPLIES, SEEDS AND SPRING BULBS.

At wholesale only; apply for lists. Address

**AUGUST ROLKER & SONS, NEW YORK,**

136 and 138 West 24th Street. P. O. Station E.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## LARGEST AND BEST STOCK OF PREPARED CYCAS LEAVES

TO BE FOUND ANYWHERE

Metal Floral Designs, Sheaves, Doves, Baskets, Moss Wreaths, Wheat, Milkweeds, Cape Flowers, Wire Work, and all Florists' Supplies.

Write for catalogue. Free to the trade.

**A. HERRMANN, 404-412 East 34th Street (Near Ferry), New York,**

Manufacturer of METAL FLORAL DESIGNS, Importer and Dealer in FLORISTS' SUPPLIES.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# ROSES. ROSES. ROSES.

Buy Now, before High Tariff Prices Rule.

## HARDY FRAGRANT DWARF and TREE ROSES

In Leading Varieties, such as

**BARONESS ROTHSCHILD,**  
**GENERAL JACQUEMINOT,**  
**GLOIRE de MARGOTTIN,**  
**MRS. JOHN LAING,**

**MME. GABRIEL LUZET,**  
**MAGNA CHARTA,**  
**LA FRANCE,**  
**PRINCE CAMILLE de ROHAN,**

**PAUL NEYRON,**  
**FISHER HOLMES,**  
**AND OTHER**  
**GOOD SORTS.**

In the above I have a limited quantity to offer by the 100, 1000, or in original case of 1600-1700.

Also **HARDY AZALEAS, RHODODENDRONS, HYDRANGEA P. G., SNOW-BALLS** and **OTHER ORNAMENTAL PLANTS, SPRING FLOWERING BULBS, ETC.**

State your Wants and Prices will be Quoted.

**C. H. JOOSTEN, Importer, 193 Greenwich St., N.Y.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# FLORISTS' EXCHANGE

We are a straight shoot and aim to grow into a vigorous plant.

A WEEKLY MEDIUM OF INTERCHANGE FOR FLORISTS, NURSERYMEN, SEEDSMEN AND THE TRADE IN GENERAL.

VOL. IX. NO. 16.

NEW YORK, APRIL 17, 1897.

One Dollar Per Year.

## PITCHER & MANDA

WILL CONTINUE their Special Low Offer of

### Excelsior Dwarf Pearl Tuberoses.

\$6.00 per 1000; 5000 for \$25.00.

PLEASE REMEMBER that these bulbs are NOT the usual grade of Tuberoses known as "4 to 6 inch," containing 50 per cent. of 4 inch bulbs. Our bulbs are SELECTED; some of our customers say they are the best bulbs they ever saw, both as to size and quality.

**JAPANESE LILIES—Auratum and Speciosum**—Will accept orders for a few days longer at the special low prices quoted in special number of Florists' Exchange.

**GLADIOLUS—Floreata Extra White and Light**. THIS BEST..... \$24.00 per 1000  
Standard White and Light..... 12.50 per 100.

## ORCHIDS FOR CUT FLOWERS.

	Each.	
<i>Coelogyne cristata</i> , 4 inch pots, 15 bulbs, 4 leads.....	\$0 75	1 00
<i>Coelogyne cristata</i> , 4 inch pots, 20 bulbs, 0 leads.....	50	75
<i>Coelogyne cristata</i> , 5 inch pots, 25 to 30 bulbs, 10 leads.....	50	75
<i>Lechi anceps</i> , on blocks, 6 bulbs, 1 lead.....	1 00	1 50
<i>Lechi anceps</i> , on blocks, 6 bulbs, 2 to 4 leads.....	50	75
<i>Lycaste Skinneri</i> , 1 inch pots, 4 bulbs, 1 lead.....	50	75
<i>Lycaste Skinneri</i> , 1 inch pots, 6 bulbs, 2 leads.....	1 50	2 25
<i>Odontoglossum crispum</i> , 5 inch baskets, 8 bulbs, 2 leads.....	75	1 00
<i>Odontoglossum crispum</i> , 3 inch pots, 4 bulbs, 1 lead.....	50	1 00
<i>Odontoglossum grande</i> , 4 inch pots, 8 to 12 bulbs, 2 to 4 leads.....	50	1 00
<i>Odontoglossum grande</i> , 3 inch pots, 4 bulbs, 1 lead.....	50	75
<i>Cypripedium Harrisonianum</i> , 3 inch pots, 2 to 3 growths.....	50	75
<i>Cypripedium Harrisonianum</i> , 1 inch pots, 4 growths.....	1 00	1 50
<i>Cypripedium Harrisonianum</i> , 3 inch pots, 6 to 8 growths.....	1 50	2 00
<i>Cypripedium insigne</i> , 4 inch pots, 6 growths.....	50	75
<i>Cypripedium leucanthum</i> , 3 inch pots, 4 growths.....	1 50	2 00
<i>Cypripedium leucanthum</i> , 4 inch pots, 6 growths.....	1 50	2 00
<i>Cypripedium speciosum</i> , 3 inch pots, 4 growths.....	1 50	2 00
<i>Cypripedium speciosum</i> , 4 inch pots, 6 growths.....	1 50	2 00

PITCHER & MANDA, Short Hills, N. J.  
JOHN N. MAY, Receiver.

## COCOS WEDDELIANA.

We have just received a consignment of fresh seed in perfect shape, which we offer as long as unsold at \$9.00 per 1000; 5000 lots at \$8.00 per 1000.

NEW CLIMBING

### YELLOW RAMBLER ROSE.

The Only Hardy Yellow Climbing Rose Yet Introduced.  
A Worthy Companion to the Wonderful Crimson Rambler.

This new Rose bids fair to have as wonderful a sale as its predecessor, the Crimson Rambler. We have a large stock of it, and offer it at the following exceedingly low prices, viz:—

Full Plants, 2 1/4 inch pots, \$2.50 per doz.; \$15.00 per 100.

Full description of this valuable novelty, also a beautiful colored illustration of same, a reproduction of a painting by the celebrated artist, Paul de Longpre, will be found in our descriptive catalogue, which will be sent on application to any one who may not have received it.

We can supply you the **NEW ROSE, PRES. CARNOT** in any quantity, fine, strong, healthy plants, 2 1/4 inch pots, at \$15.00 per 100; \$125.00 per 1000.

### WINTER-FLOWERING ROSES

is large and in exceptionally fine shape. We offer all the leading varieties as follows:—  
Perle, Bride, Victoria, Bridesmaid, Mme. Cassin, \$5 per 100; \$40 per 1000.  
Mme. Caroline Testout, Kaiserin Augusta  
Victoria and Mrs. Pierpont Morgan..... \$4 per 100; \$30 per 1000.  
American Beauty..... \$3 per 100; \$30 per 1000.

Our Wholesale List and Complete Descriptive Catalogue will be Sent Free on Application to any who may not have received them.

**F. R. PIERSON CO.,**  
TARRYTOWN-ON-HUDSON, NEW YORK.

### TUBEROSE BEGONIAS AND TUBEROSE PEARL

At lowest Wholesale Rates in Quantity. Write for Price.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## SEND FOR OUR PRICE LIST OF HIGH GRADE SEEDS AND BULBS

If You Have Not Received One.  
FLOWER AND VEGETABLE SEEDS IN PACKETS.

### We Do Not "Commission" or Place Seeds Out "On Sale."

But we supply Florists with seeds put up in handsome colored packets for retailing at \$1.25 per 100, or \$10.00 per 1000. These Packets, besides having a lithograph of the Flower the common and botanical name on the front, have a description of the flower and culture directions on the back and a blank space for name and address, which will be printed on same if ordered in 100 lots or more. SEND FOR SAMPLE.

Price of Peas, Beans and Corn in Packets, \$4.00 Per 100.

**DWARF PEARL TUBEROSE BULBS**, 4 to 6 inches in circumference, \$7.50 per 1000.

**TUBEROUS ROOTED BEGONIAS**, sound stock, 6 colors, separate, \$3.00 per 100.

**GLOXINIAS**, named varieties, \$5.00 per 100.

In Making Up Your Order for Florists' Flower Seeds, Don't Fail to Include Some

**ALLEN'S DEFIANCE MIGNONETTE** Offered this Season at \$1.00 per oz., and 35 cts. per packet, containing 1-8 ounce.

**F. E. McALLISTER CO.** Seed and Bulb Merchants, 69 Cortlandt St. N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## SPECIAL OFFER COMMERCIAL ORCHIDS.

ESTABLISHED PLANTS.

	Per doz.
<b>CATLEYA</b> , Triana, Mossie, Gaskelliana, Percivaliana, strong flowering size plants.....	\$10 00
<b>LÆLIA</b> , Autumnalis and Aneaps, strong flowering size plants.....	5 00
<b>COELOGYNE</b> Cristata, strong flowering plants.....	4 00
<b>DENDROBIUM</b> , Noble and Phalenopsis, strong flowering size plants.....	7 50
<b>LYCASTE</b> , Skinneri and Doppe, strong flowering plants.....	7 50
<b>ONCIDIUM</b> , Tigridum and Splendidum, strong flowering size plants.....	9 00
<b>CYPRIPEDIUM</b> Insigne, strong flowering plants.....	9 00
<b>CALANTHE</b> , Trarneri and Regnierii, bearing large beautiful spikes of white, blotched with crimson.....	5 00

100 plants made up of the above varieties in equal numbers of each for \$60.00  
50 plants for \$35 00

**SIEBRECHT & SON,**  
ROSE HILL NURSERIES, New Rochelle, N. Y.

Watch for our Colored Plate of NEW TRIO CANNAS.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE



**Tuberoses, Dwarf Florist, lat size, very fine** tuberoses, single tuberoses root, separate colors, 50c. per doz.; \$3 per 100.  
**Gladia's**, fine mixed, \$1 per 100; \$8.50 per 1000.  
**Gladia's**, white and light, mixed, \$1.75 per 100; \$15 per 1000.  
**Gloxinia's**, mixed, 60c. per doz.; \$4 per 100.  
 1 1/2 y Arrastras, 7 1/2 y, first-class condition, \$8 per 100; \$13 per 1000.  
**Madrera**, White, extra strong roots, \$1.50 per 100; \$12 per 1000.

### SWEET PEAS.

**Blanche Ferry**..... 30c. per lb.  
**Butterfly**..... 30c.  
**Excelsion**..... 30c.  
**Fine Mixed**..... 30c.  
**Emily Henderson**..... 30c.  
**Excelsion Carnation**..... 30c.  
**Lottie Eckford**..... 30c.  
**Eckford's Mixed**..... 30c.  
**Elliott's Rainbow Mixture** \$1

### WM. ELLIOTT & SONS NEW YORK.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CLUCAS & BODDINGTON Co.**  
 Importers, Exporters and Growers' Agents of  
**Plants, Seeds and Bulbs,**  
 501 and 503 W. 13th St.,  
 Telephone Cal., 403 19th St. NEW YORK CITY.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

### SEEDS for Profit FLORISTS' Flower Wholesale Catalogue on application.

**WEBBER & DON,** Seed Merchants and Growers.  
 114 Chambers St., New York City.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

### SUMMER FLOWERING BULBS.

**CHAS. H. ALLEN,** Floral Park, N. Y.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

### BURPEE'S SEEDS PHILADELPHIA

WHOLESALE-PRICE LIST  
 FOR FLORISTS AND MARKET GARDENERS  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**WE ARE HEADQUARTERS ON BULBS FOR FORCING, FLOWER SEEDS FOR FLORISTS, ENGLISH MUSHROOM SPAWN.**  
 SPECIAL PRICES ON APPLICATION.  
**JOHN GARDINER & Co.,** Seedsmen,  
 Box 1896, Philadelphia, Pa.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

### BEGONIAS, TUBEROSES AND GLADIOLI.

I have to offer an Extra, Yellow and Tuberoses Rooted Begonias. Single tuberosa, light orange color—white, yellow and scarlet—at the following prices—100 for \$2.00 100 for \$2.00 100 for \$2.00.

**EXCELSIOR PEARL TUBEROS BULBS**—Large size at \$1.00 per doz; 100 for \$3.00; 1000 for \$30.00. Second size at 50c per doz; 500 for \$15.00; 5000 for \$50.00.  
**GLADIOLI**—Finest mixed colors on the market. Large size, \$1.00 for 100; 50 for \$3.00; 1000 for \$30.00. Second size, 50c per doz; 500 for \$15.00; 5000 for \$50.00. Low for \$2.00.  
 All these Bulbs are the best on the market, and I guarantee satisfaction. Prices quoted are for bulbs to be used by express or freight. I accept quality over quantity, for special satisfaction. Stock limited, but all orders will be filled promptly as long as it remains unsold. Address  
**T. H. MILLER, Sec'd., 2205 Kew-Forest Hill, New York**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

### AUSTRIA CANNA—Strong 4 inch plants, \$5.00 per doz.; \$16.00 per 100; \$150.00 per 1000.

**ALSAE**, (nearest white), 4 in., \$2.00 per doz.; \$16.00 per 100. Fine.  
**ITALIA**, 4 inch, \$5.00 per doz. Also Winter's New Pedigree Canna's, Philadelphia, Maudslayi's Blue Pillar of Fire, Golden Fire, Triumph and Sunset, these for \$2.50. New Double Kudzbak's Golden Glow, 2 1/2 in., \$6.00 per 100. New Logan Brier, strong root-growers, \$10.00 per 100. Strawberry-Raspberry, \$3.00 per 100. Golden Maroon, Oblique, \$2.00. **Kew-Forest Hill, New York**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

### HEADQUARTERS FOR Cattas and Freesia Bulbs

### PAMPAS PLUMES,

Palm, California Tree and Flower Seeds.

Please let us know your orders for **BULBS** at once. . . . .  
 ASK FOR SPECIAL PRICES.

### GERMAIN FRUIT CO. Los Angeles, Cal.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

### NEW GIANT FANCY COSMOS

THE FINEST IN THE WORLD.  
 Six Splendid New Varieties, \$1 per doz., separate mixed, \$1.50 per doz; \$10 per 100.  
 New New York City, \$1 per doz; \$10 per 100.  
 Callipala, Tall caulescens grandiflora, \$1 per doz; \$10 per 100.  
 Hyperborea lateralis, \$1 per doz, fresh seed.  
 Olympia Australis (Tree Form), fresh seed, \$1 per doz; \$10 per 100.  
 Anna Muncie, 6 ozs., \$1 per doz; \$10 per 100.  
 New York City, \$1 per doz; \$10 per 100.  
 Callipala, Tall caulescens grandiflora, \$1 per doz; \$10 per 100.  
 Hyperborea lateralis, \$1 per doz, fresh seed.  
 Olympia Australis (Tree Form), fresh seed, \$1 per doz; \$10 per 100.  
 Anna Muncie, 6 ozs., \$1 per doz; \$10 per 100.  
 New York City, \$1 per doz; \$10 per 100.  
 Callipala, Tall caulescens grandiflora, \$1 per doz; \$10 per 100.  
 Hyperborea lateralis, \$1 per doz, fresh seed.  
 Olympia Australis (Tree Form), fresh seed, \$1 per doz; \$10 per 100.

**ROSA WICKHAMIANA** (Memorial Rose), extra large Japanese training rose, open grand double variety mixed, 11 cuttings per 100. \$2.00. \$1.00 per 50. \$10.00 per 500. **GLADIOLI'S**, 21 colored named varieties mixed, 11 cuttings per 100. \$2.00. \$1.00 per 50. \$10.00 per 500. **OXALIS**, for Summer bedding, 4 distinct varieties, mixed, 11 cuttings per 100. \$2.00. \$1.00 per 50. \$10.00 per 500. **DIANTHUS**, mixed, 11 cuttings per 100. \$2.00. \$1.00 per 50. \$10.00 per 500. **HYDRANGEA**, 11 cuttings per 100. \$2.00. \$1.00 per 50. \$10.00 per 500. **E. Y. TEAS**, 11 cuttings per 100. \$2.00. \$1.00 per 50. \$10.00 per 500. **IRVINGTON, Ind.**

### New Canna

From 4 inch pots.  
 Italia, Austria, Aurora, Francois Bilard, Franz Brueher, Papa, Snow de Mine-Crozy, Snow de Pres, Carrot and others.  
 write for low prices.

### W. W. COLES, Kokomo, Ind.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

### Prize-Winning DACHS AN UNREPEATED RECORD.

23 First Prizes, Certificate of Merit, 2 Diplomas and highest medal ever won.

If you want the **Very Best Dahlias** that bloom, send for our 1897 descriptive trade list now ready. Address

### W. P. PEACOCK, Dahlia Specialist, ATCO, N. J.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

### NOW IS THE TIME TO ORDER FRESH STOCK

### AMARYLLIS JOHNSON,

EXTRA LARGE BULBS.  
 Send me your list of such stock you will need the coming season, and I will quote you my bottom prices for first-class goods.

### F. W. O. SCHMITZ, JERSEY CITY, N. J.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

### AMPELOPSIS VITICOLA.

Plant dormant, 1 and 3 years old, price \$3.00 and \$5.00 per 100. Delivered, 25c. extra, at florist's office.

### CANNAS—ITALIA, \$5.00 per doz.; AUSTRIA and ALSAE, \$3.50 per doz.; fine border culture.

**Hardy Plants, including Her Majesty, \$5.00 per doz. Crissum, Kew-Forest Hill, New York. Money-Suckler, 4 in. \$3.00 per doz. Money-Suckler's, Hallowa and Golden, 6 in., 1 year, \$3.00 per doz. extra. California Violets, full-blown, \$1.00 per 100.**  
**SEWARD COMPANY, Florist, 2nd Floor, 100 N. W. 4th St., SEATTLE, WASH. D. C.**

### HENDERSON'S BULB CULTURE.

THIS is a large twenty-four page book, with Special Culture directions for over 300 varieties of bulbs. It has been compiled with great care, and its information is accurate, reliable and up to the latest date. This book should be in the hands of every Florist.

POST-PAY for 25 cts.  
**THE FLORISTS' EXCHANGE**  
 P. O. BOX 1697 NEW YORK.

### Stationery for Florists.

Every florist in the land should have a complete supply of printed matter wherewith to conduct his business in style. We have the largest outfit in America devoted solely to horticultural printing, and we understand the wants of the trade. Below we quote two combination offers and would be pleased to supply you.

### \$5.00 Combination offer includes...

- 250 Notedahas, 5 1/2 x 8 1/2 in.
- 250 Envelopes, size 5 1/2 x 8 1/2
- 250 Billheads, 7 in. wide, 9 1/2 in. deep.
- 250 Business Cards, 2 1/2 x 4 1/2 in.
- 250 Tags, size 2 1/2 x 4 1/2 in.

Cash with order. Delivered F. O. B., N. Y.

### \$10.00 Combination offer includes...

- 500 Notedahas, 5 1/2 x 8 1/2 in.
- 500 Envelopes, size 5 1/2 x 8 1/2
- 500 Billheads, 7 in. wide, 9 1/2 in. deep.
- 500 Business Cards, 2 1/2 x 4 1/2 in.
- 500 Business Cards, 2 1/2 x 4 1/2 in.
- One Day Book, \$1.00. If these are not wanted subtract \$1.00.

Cash with order. Delivered F. O. B., N. Y.

### PLEASE READ THIS BEFORE YOU ORDER.

Write plainly and send "copy" for each article wanted.  
 Notebooks will be furnished in smooth writing paper with ruled lines. Linen paper, or, if so ordered, can be had instead if so ordered.  
 Envelopes are full commercial size and of good quality.

Billheads will be furnished as above, but size 8 1/2 x wide and 4 1/2 in. deep. Billheads will be printed in red and black. Cards are of good quality and ample proportions.

Day Book and Ledger are large enough for ordinary purposes. Ledger is indexed and will hold 100 accounts.  
 Special designs, trade marks, etc., engraved to order. A rose, violet, or other flower will be printed on your letterheads and envelopes, if you so order.  
 The quality of all the above work is guaranteed.

We can furnish this combination offers with advantage to the purchaser, but it will not pay from a distance to order a single item on account of the express charges.

Address all orders to

### A. T. DE LA MAR PGT. AND PUB. CO. LTD.

P. O. Box 1676, New York.

### SOME OF Our Order Prices:

Milastore Hyacinths, in 3 separate colors..... \$8.00  
 1600 Hyacinths, in 10 colors..... 16.00  
 Cheap Named Hyacinths, in 10 colors..... 24.00  
 A1. Hyacinths, in 10 colors..... 30.00

### TULIPS.

Scarlet De van Thol..... 2.50  
 Yellow..... 5.50  
 Chrysola..... 8.50  
 Yellow..... 11.00  
 La Reine..... 2.75  
 Prosperine..... 3.75  
 Yellow Prince..... 7.50  
 White..... 11.00  
 Tournesol..... 10.00  
 Sent For Trade Lists, Bulbs and Seeds and Catalogue..... 25.00

### MULBERRY BROTHERS, ENGLEWOOD, N. J.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

### ALMA Seed.

FRESH ON HAND  
 Arcos bulbs..... 1.25 100 125.00  
 Canna small..... 1.50 100 150.00  
 Canna large..... 2.00 100 200.00  
 Gladioli..... 1.50 100 150.00  
 Latania herbaceous..... 1.00 100 100.00  
 Pinks..... 1.50 100 150.00  
 Primrose..... 1.00 100 100.00  
 Tulips..... 1.50 100 150.00  
 Washingtonia..... 1.00 100 100.00  
 Yucca..... 1.00 100 100.00  
 Yucca..... 1.00 100 100.00

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

REPORT

Points and information from the Committee, and all interested in this column solicited. Address Editor S. B. TRADE, care of Florists' Exchange, P. O. Box 107, New York.

Free Seed Distribution.

Editor Florists' Exchange: The appropriation for the free distribution of seeds has not yet been passed by the Senate, as some letters which we have received from several Florists to the Senate Committee and the Secretary of Agriculture look into the matter of the bill.

We have not been able to obtain a hearing before the Committee, excepting by correspondence, but this correspondence has had a good effect. We understand the new Secretary of Agriculture now desires a change in the bill, and that more money be allowed for putting up the seeds in Washington, which we suppose will leave a less amount for the purchase of seeds. This is a great point gained, as it will increase the number of seeds to which Senator and Representative; yet it seems to be dawdling upon the minds of Senators that there must be a large quantity of the common varieties of seeds distributed by the present Secretary of Agriculture, however we may desire to reform the Department and send out new and rare varieties. We do not know whether we will be able to get this appropriation abolished in this present Congress—the bill is likely to be amended in a Committee of the House, before which we cannot appear, so unless we can get some Senator or Representative to save the amount, we will not see it when it comes before the House or Senate again, we shall not be able to accomplish our object at the present season.

I feel that the Committee has accomplished vastly more for the seed trade in getting the appropriation increased than we could have expected, and probably more rare varieties substituted for common varieties, than we could have expected. I am glad to see you able to explain here that there has been some impression that we, as seedsmen, were making a large amount of money lobbying in Washington. Probably our first meeting in Washington, and likewise our last letter, were intended to present some reasons for arriving at such a conclusion. To put the matter right, I make this statement, to wit: That we have accomplished (which is considerable) has been done at a less cost than \$400. This is not a very large amount for Washington work done in various directions which is unnecessary to explain here.

As our first meeting in Washington some large amounts of money were promised as subscriptions, to be paid when required, and part of these amounts have been paid in. A letter received this morning says: "I do not think it exactly right for some of us to pay the expenses of the meeting to the benefit of it. We think it is wise to proceed with the work to abolish this free distribution of seeds. We are going to enter into a fight half-hearted and getticed locked on the first round?" Another says: "In my opinion, the seedsmen ought to keep at this good work as long as the money will last, and if the money has gone, we could all get up in arms to push the good work along." Another says: "My idea would be to have you raise the money and we should continue in a systematic manner to agitate this question." Another: "It seems to me that you should have a fund of \$5,000 for a year's campaign. They could well afford this amount, but it may be a little more than they are willing to do." All should pay their share, and then it will be a very small amount for us.

I coincide with the above, and think all seedsmen should subscribe. Of course, the total amount of the proposed fund paid in at once, but a remittance on account should be sent from the seed trade in Washington, for the purpose that one will then be very light. I believe, if we continue, we shall accomplish our object, and we will be able to keep the bill and then some one in an official position would watch the progress of events and act as opportunity arises, and we should endeavor to kill the free distribution of common varieties of seeds by the Government.

T. W. Wood, Chairman.

Gloverville, N. Y.—L. Phelps & Son have opened a seed and farmer's general supply store at 257 North Main st.

European notes.

Review of Crop Conditions.

A fresh spell of winter visited us during the past week, and while the frost has not been very severe, it is hardly likely to benefit the young and tender growth already put forth. Continuing the review of the present condition of these crops, commenced in last week's Notes, it is safe to report that carrot, parsnip and parsley are in a fairly healthy and promising state. The carrots under cultivation are very much less than last year, but with the prospect of a good yield this is hardly due to cause any serious concern. The same remarks apply to leeks and onions; the bulbs of the latter have kept well, and will be ready for winter and with a fair season should give very good results.

Price Dependent on Tariff.

A very warm and favorable weather is reported from the South of Europe, the varieties grown in that region are likely to be very abundant, but the question of price will, to a very great extent, depend upon the demand from your side. As the bill doubtless will be regulated by the tariff, growers are naturally very anxious to get the bill passed, in which it will be fixed. In any case, it is too late to make an alteration now, for no useful crop could be raised as a substitute for those it might be deemed wise to destroy. A report on our other biennial plants may be given in the present.

Outlook of Bulb Crop.

The abundant moisture of the past winter and the warm weather now prevailing are likely to be very beneficial, but having a very beneficial effect upon the Roman hyacinth and other bulbs are not so good in that regard. As regards the former, there is every prospect of an abundant supply of first and full size bulbs, and the latter, which are also doing very well, and growers should not have any difficulty in securing orders for the bulbs of the stipulated sizes. Should present promises be fulfilled it will do something toward relieving the criticism caused by the unsatisfactory deliveries of last season. The explanations (?) offered by some of these gentlemen only make their conduct the more reprehensible. While the bulbs in the South are flourishing in a manner similar to those in England under exceptional conditions quite the reverse. The weather conditions there, but this is likely to do anything worse than retard the blooming season. The general appearance of the bulbs as a whole is very healthy and sound.

Display of Late Border Tulips at Hamburg.

Those seedsmen who are interested in the revival of the Late Border Tulips should attend to the forthcoming Horticultural Exhibition at Hamburg, about the 14th week in May, as Polman Meyer of Hattum, has arranged an exhibit of 12,000 bulbs, chosen from the finest varieties in his extensive collection, on or about the date named. As the general public is getting tired of carpet bedding, and the late border Tulips are becoming more popular every year.

EUROPEAN SEEDS.

Lawn Sprinklers.

The "Twin Comet" and "Little Giant" lawn sprinklers, manufactured and advertised by the Stebbins Manufacturing Company, Springfield, Mass., have merits particularly their own, which impress those who have used them. The "Twin Comet" is made to the ideal as it is possible to bring machines of this description. The globe, or body, of the "Twin Comet" Lawn Sprinkler is made in two parts, and by means of the swiftly revolving arms and intermediate revolving arms, which revolve in a downwardly carrying the hose nozzle, from which a full stream of water is thrown, the water, thereby covering a much larger space than any other stationary sprinkler. The revolving arms are 20 or 24 inches long, and are adjustable, and can be set so as to sprinkle any desired space, or the nozzle can be raised or lowered, and the hose is attached in place of the nozzle tip, discharging instead of a solid straight stream a very fine mist at the center of the revolving arms.

The "Little Giant" traveling lawn sprinkler is a very simple, reliable and wonderful machine. Under an ordinary water pressure of 30 pounds or upwards, it

APRIL 22d... ..APRIL 22d.

FOR DECORATING. FOR CUTTING. FOR ALL FLORAL WORK. GREAT AUCTION SALE

Of a Grand Selection in excellent order and condition, from SANDER & CO. ST. ALBANS, ENGLAND... and ...BRUGES, BELGIUM.

Send for Illustrated Catalogue giving full description, etc., of the quantities of Cattleyas, Laelias, Dendrobies, Vandas, and other Glossums Offered, including a superb New Cape Plant,

The finest flowering plant of the year. WATSON'S PATENT VERNEIL Useful both for indoor and outside culture.

Messrs. Cleary & Co. 60 VESEY STREET, - - NEW YORK. Will sell the above on THURSDAY NEXT, APRIL 22, 1897.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

will drag 100 feet of garden hose and propel itself slowly and continuously in either a straight line or a circle of any desired diameter, while its speed may be varied at will from 15 to 500 feet per hour. By means of a figured dial plate it may be set to travel any desired distance. A moment suffices to change its speed from the highest to the lowest, and it may be gauged to distribute a spray effectively over a swath varying in width from 5 to 50 feet, while by simply throwing it out of gear it is instantly converted into a stationary sprinkler of exceptional efficiency. The propelling force is supplied by back pressure of the water in the arms causing them to revolve with force and rapidity, while at the same time they throw out a fine spray or mist.

Williamsport, Pa. EYENDEB EGGS, have good success with carnation Bride of Ericsson, and find it one of the most profitable carnations extant. They have a grand lot of L. Hartell in pots—just right for Easter. W. M.

Eric, Pa. H. NIEMEYER, of this town, reports business satisfactorily good this season. The front of his store on State street has been remodelled into one large show window style, and is a decided improvement. He has a fine stock of Easter plants. Among seedling carnations he has a red of fine character, and a striped pink, after the type of J. J. Harrison, but softer in color.

MRS. W. NIEMEYER contemplates re-locating the branch retail store on State street at an early date.

JOHN THOMAS shows his usual well skilled growth of all-around stock, including a fine strain of clematis.

THE SCHLURAFF FLORAL COMPANY have retired from the seed business, and now give their attention entirely to the cut flowers and plant trade. A new, well-arranged and neatly fitted office is a recent and successful acquisition.

TITUS BERT has a good showing of bulbs on stock.

H. TONG has a new carnation after the type of Helen Keller, which attracts considerable attention locally. ROMER.

THE EXPERIMENT STATIONS.

COMMERCIAL FERTILIZERS, ANALYSES OF—By Geo. V. Noyes, Bulletin No. 5, Exp. Station, Geneva, N. Y. THE RASHERY-CANE MAUGOT, By Professor W. N. Shingler, Bulletin No. 6, Cornell, Ithaca, N. Y. SWEET PEAS, By Messrs. A. P. Wyman and M. K. Kaine, Bulletin No. 7, same station. DANIELS, By Mr. Wilhelm Miller, Bulletin No. 8, same station.

ATLANTA, GA.—Wachendorf Brothers have succeeded to the business of the father, the late E. Wachendorf. WOODSTOCK, N. Y.—Robert Skilonsky will occupy a store corner Jackson ave. and Third st. for his florist business. MORRISTOWN, N. J.—H. C. Holmes, formerly superintendent for A. McCurdy, Esq., of Morris Plains, has taken the old-established greenhouses on Morrisist, corner of Pine. MORRIS, ILL.—The Morris Floral Company has been incorporated, with a capital stock of \$15,000, to deal in flowers and plants. Incorporators, S. M. Underwood, Alfred M. Milington, Frank Martin, H. E. Mitteny, E. C. Huns, John Mackay.

Pittston, Pa. J. B. CARPENTER expects to open a florists' store here on Exeter st. Scranton, Pa. THE GREENHOUSES OF WILLIAM MOTT were burned on March 30. The fire originated in a defective fire in a neighbor's building.

Robert McMillan showed a spike of a seedling mignonette, pronounced by experts to be an improved form of the old *A. mellorata* and similar to some of the best strains now coming into the New York market.

### American Institute Show and Meeting.

The regular monthly meeting of the Farmers' Club of the American Institute was held on Tuesday, April 18, at their rooms, 113 West Thirty-eighth st., New York. The main topic of discussion was the raising of fruits and vegetables under glass. In the place of Dr. F. M. Henshaw, who has been for the past two weeks confined to his bed with the grip, T. L. Harris presided. The speakers were C. L. Allen, J. W. Withers, W. Anderson, A. Herrington, T. G. White and S. Henshaw. The exhibition itself was quite a success, and of a very unique character. One of the principal exhibits was twenty-four pots of strawberries from A. Herrington. These were superb. Many of the fruits weighed 2½ ounces each, and one even filled a quart. There was an average of five fruits to a pot. The varieties were from Harris and Sharpless. Messrs. Arch-

er and Meteor, from Erie, Pa., claim that by this process they can produce an exact reproduction of the original model, weight, size, color, shape, etc. For comparative purposes, these models should prove invaluable. They remain unaffected by temperature, stand handling and cleaning, and are said not to fade.

### Toronto.

#### Society News.

The lecture delivered by Prof. Jeffrey before the Toronto Horticultural Society, on Saturday, on the subject of "How Plants Suck," was very interesting to most of the members; but was too scientific for many. The lecturer was illustrated by light light views of highly magnified sections of different parts of roots and leaves, and the whole process of plant feeding was carefully described. The hall was nearly filled with members and friends, the platform was nicely decorated with palms and other foliage plants. There is no doubt but the lecture will do the Society much good.

**Easter Outlook.**  
There is a fine stock of cut flowers and plants in sight for the Easter trade. Lilies are at present very plentiful, the prices asked at wholesale is from 10c down to 5c per bloom, and there is nearly as much difference between the stock as there is in the prices. Roses appear to be very abundant and good. Prices quoted at wholesale are for Bride, Bridesmaid,

tions, bulbous stock and violets is apparent.

Harris were never so fine as they are this season; the late Easter has enabled the grower to bring them in generally, good strong plants and firm buds being the result.

A. S. Swanson has rented a store on Seventh st. for his Easter display and is looking it up rapidly with a choice lot of blooming plants, down in his Merrick Park Greenhouse.

L. L. May & Co have enlarged their already spacious store by removing a partition and will have 4,000 square feet of floor surface in which to make their display. The firm has a fine wholesale trade and reports country shipping orders as coming in very freely.

Rose prices range about as follows: *Roses*, \$1.50 to \$2 per dozen; carnations, 50c to 75c; *astrodia*, valley, Romans, tulips, etc. 75c; *violets*, 30c per bunch; *Harris*, \$3 per dozen; *emilax*, 30c to 35c per string. The latter is very scarce here at present.

#### Jottings.

H. Van Zanten, of Holland, was a recent caller and reported a fair outlook for the bulb business. Importations will so doubt be greatly curtailed another season, if the proposed tariff goes into effect.

Mrs. M. Stang and W. Seelins, of Duluth, were recent callers. They report business in the Zenth City as fair, though department store sales have injured it somewhat.

### Baltimore.

#### Jottings.

Charles Wagner, manager for the Green Spring Gardens, is an enthusiast on the subject of seedlings. His carnation seedlings contain some gems; among them, but the being their first year, one as yet cannot tell the full value of them. California violets do as well with him. Mignonette also seems to be a favorite at this place. An opportunity is afforded here to observe the difference between a greenhouse, built years ago with small and bad glass, which burrs up everything in sight, and a modern structure in which large, clear glass has been used. It is wonderful how good some of the older florists could really grow as home stock as they did in their time.

### BOOKS RECEIVED.

The Care of Plants in the Home—A neat, well-illustrated brochure, issued by the Hessay Co., 365 Fifth ave., New York, containing an enumeration of those plants best adapted for home culture, with very succulent and useful information on their treatment.

Federal Design made by Jos. Supler, N. Y. Winner of Plum Cup.

### New York Florists' Club.

The meeting of the Club on Monday evening last was fairly well attended, taking into consideration the fact that it was Easter week, when everyone is pushed for time. President Henshaw occupied the chair.

There were eight contestants for the Plum Cup in the floral federal design competition. The judges, after careful examination, awarded the cup to Joseph Supler, with George Stump, for a piece made up of three rows of cypress leaves, with a bunch of Meteor roses and a cluster of mignonette, tied with a broad white satin ribbon. Certificates of merit were awarded to Frank Schlosbamer and W. S. Lee, also with Mr. Stump; to the former for a crescent wreath of dark colored pansies set on a standard, with a band of *Di-centra cucullaria* (Dutchman's breeches), having streamers of purple ribbon, with a white carnation, Niphetos, and valley resting on two cypress leaves. The same exhibitor also had a wreath of *Adiantum Farleyense*, interspersed with clusters of Carnot roses on a base of violet, the lettering N. Y. F. C. thereon being in white immortelles.

Mr. Lee's design was a wreath made up of white carnations, valley and Niphetos, on a bed of smilax, with a spray of *Teucria orbiculata* on top. The base was of cypress leaves, springing from a spray of weeping willows. A broad crimson ribbon bore the lettering N. Y. F. C. James I. Donlan exhibited a wreath of white carnations, Niphetos, and valley resting on two cypress leaves.

A. Dummett had a standing crescent wreath encircling an anchor, the letters of valley and Bride roses, on a foundation of ivy leaves; on the crescent, which was made up of Bridesmaid and clusters of mignonette, were the initials of the club, worked on Daybreak carnations in purple hydrants. The base was of ivy leaves with fronds of *Asparagus Sprengeri* and *Neprolepis exaltata*, springing therefrom. The same exhibitor had a smaller wreath, the anchor being made of *Azalea indica* alba, the crescent of roses, valley and white carnations, the base of *Harrisii lilies*, *spiral*, *Asparagus Sprengeri* and *Teucria orbiculata*.

A. Le Mont had a wreath of panels, surrounded by callas, *apricax*, *Harrisii*, white roses and *Azalea indica* alba.

W. A. Mauda had an arrangement of Cherokee rose on a crossed cypress leaf, a cluster of *Maudsii* Primrose at the base, with a streamer of broad white silk ribbon.

The following gentlemen were appointed a committee of awards: Messrs. Eugene Dalledonne, Chas. H. Allen, Alex. S. Harris, S. C. Mack, J. W. Withers, and John G. Esler.

Mr. Esler was unable to be present at the meeting, but hopes to be on hand next month to talk on hail and fire insurance.

deacon & Co., 100 Murray st., also exhibited some fine berries. Cut in the regular market style. Bennett & Hall, 161 West st., put up remarkably fine Boston market lettuce, from a Rhode Island grower, W. W. Rawson, Arlington, Mass., staged ten improved White Spine forcing cucumbers—very fine lot.

Messrs. Weeber & Don, 141 Chambers street, exhibited a fine collection of vegetables grown from their seed; their display included Telegraph cucumbers, Golden Queen, and Boston market lettuce, Mohawk beans, Scarlet-tip radish; also another variety which was highly recommended for forcing purposes, owing to its bright scarlet color, uniform size, and more particularly, on account of its remarkably short space top. They also had some very fine examples of mushrooms.

C. L. Allen, Floral Park, N. Y., exhibited a distinct rubea, round, clean-cut and very smooth.

John Lewis Childs, Floral Park, exhibited six vases of a walsonea, and *Primula*, *masia* alba and the newer variety, *majia* tulle. With the white form should make an admirable forcing plant for florists' use. In fact, a good deal has been grown around New York the past season.

W. Anderson, gardener to Mr. J. M. Comtable, exhibited a splendid show of *Telegraph* and *Sutton's Progress* cucumbers, *Sutton's Best of All tomato* (this latter is exhibited for forcing), *Telegraph* pusses than the *Lorillard*, and some remarkable mushrooms.

The Clewaco Co. is manufacturing Company, 335 Broadway, was a very interesting and educational exhibit of plastic

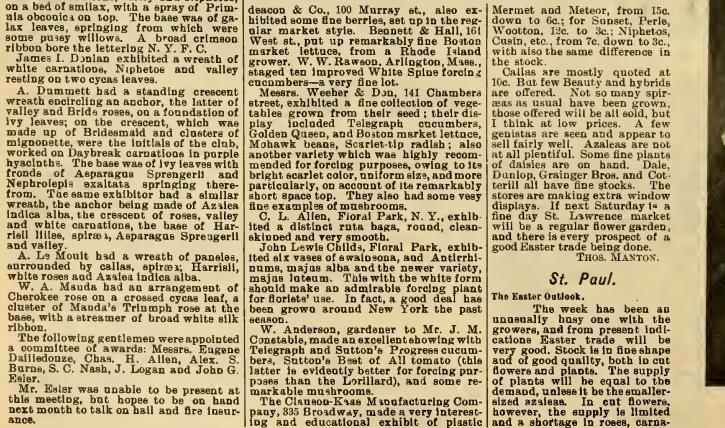
Mermet and Meteor, from Erie, Pa., to 6c; for *Teucria orbiculata*, Wootton, 13c. to 3c; *Niphetos*, Cusin, etc. from 7c down to 3c, also with the same difference in the stock.

Roses are mostly quoted at 10c. But few Beauty and hybrids are offered. Not so many sprays as usual have been grown, those offered will be all sold, but I think at low prices. A few *genistas* are seen, but are not so well as last year. *Azaleas* are not at all plentiful. Some fine plants of *Telegraph* and *Sutton's Progress* cucumbers are on display. If next Saturday is a fine day St. Lawrence market will be a regular flower garden, and there is every prospect of a good Easter trade here.

### St. Paul.

#### The Easter Outlook.

The week has been an unusually busy one with the growers, and from present indications the Easter trade will be very good. Stock is in fine shape and of good quality, both in cut flowers and plants. A supply of plants will be equal to the demand, unless it be the smaller-sized *azaleas*. In cut flowers, however, the supply is limited and a shortage in roses, carnations,



Federal Design made by W. S. Lee, N. Y. Certified by N. Y. Florists' Club.



LILIUM HARRISII—3 plants in a pot.  
Grown by Julius Roehrs, Carlton Hill, N. J.

Specimen  
Easter  
Subjects



KALMIA LATIFOLIA. Grown by Julius Roehrs.



HYDRANGEA OTAKSA. Grown by Julius Roehrs.



ACACIA UNDULATA—10½ feet high.  
Grown by Julius Roehrs.



WHITE LILAC.  
Grown by C. W. Ward, Cottage Gardens, Queens, N. Y.

Cinerarias.

Paper read before the New York Gardeners' Society, Saturday Evening, April 10, by Robert Angus, Torrington, N. Y.

Though the fashions and fancies of recent years have left Cinerarias, like many other old-time favorites, somewhat in the background, still they are undoubtably worthy of a more cultivated and constant demand than they are my special favorites, and would consider a greenhouse without Cinerarias during the early spring months very bare indeed.

There are few classes of greenhouse plants that afford more variety and brilliancy of color, combined with luxuriant foliage and compactness of habit if the plants be well grown. The season at which I find these plants most serviceable is Easter.

To have them at their best at that time. The seed should be sown by the first week in August in shallow pans, finely sifted, light, free soil, and only lightly covered. The pans should be placed in a cold frame, well shaded. The seed will germinate quite freely providing it is fresh. As soon as the plants are large enough to handle they should be potted in 4 inch pots. Catalogue free.

When writing mention the florists' exchange. When writing mention the florists' exchange. When writing mention the florists' exchange. When writing mention the florists' exchange.

When writing mention the florists' exchange. When writing mention the florists' exchange. When writing mention the florists' exchange. When writing mention the florists' exchange.

When writing mention the florists' exchange. When writing mention the florists' exchange. When writing mention the florists' exchange. When writing mention the florists' exchange.

When writing mention the florists' exchange. When writing mention the florists' exchange. When writing mention the florists' exchange. When writing mention the florists' exchange.

When writing mention the florists' exchange. When writing mention the florists' exchange. When writing mention the florists' exchange. When writing mention the florists' exchange.

When writing mention the florists' exchange. When writing mention the florists' exchange. When writing mention the florists' exchange. When writing mention the florists' exchange.

When writing mention the florists' exchange. When writing mention the florists' exchange. When writing mention the florists' exchange. When writing mention the florists' exchange.

F & F Nurseries

SPRINGFIELD, N. J. ... Don't forget to ask for Van Prolesen and Kriebel's new ...

IF YOU IMPORT ANY

FLORIST OR NURSERY STOCK,

Don't forget to ask for Van Prolesen and Kriebel's new ...

FLORIST OR NURSERY STOCK,

Don't forget to ask for Van Prolesen and Kriebel's new ...

FLORIST OR NURSERY STOCK,

Don't forget to ask for Van Prolesen and Kriebel's new ...

FLORIST OR NURSERY STOCK,

Don't forget to ask for Van Prolesen and Kriebel's new ...

FLORIST OR NURSERY STOCK,

Don't forget to ask for Van Prolesen and Kriebel's new ...

FLORIST OR NURSERY STOCK,

Don't forget to ask for Van Prolesen and Kriebel's new ...

FLORIST OR NURSERY STOCK,

Don't forget to ask for Van Prolesen and Kriebel's new ...

FLORIST OR NURSERY STOCK,

Don't forget to ask for Van Prolesen and Kriebel's new ...

FLORIST OR NURSERY STOCK,

Don't forget to ask for Van Prolesen and Kriebel's new ...

FLORIST OR NURSERY STOCK,

Don't forget to ask for Van Prolesen and Kriebel's new ...

FLORIST OR NURSERY STOCK,

Don't forget to ask for Van Prolesen and Kriebel's new ...

FLORIST OR NURSERY STOCK,

Don't forget to ask for Van Prolesen and Kriebel's new ...

FLORIST OR NURSERY STOCK,

Don't forget to ask for Van Prolesen and Kriebel's new ...

FLORIST OR NURSERY STOCK,

Don't forget to ask for Van Prolesen and Kriebel's new ...

FLORIST OR NURSERY STOCK,

Don't forget to ask for Van Prolesen and Kriebel's new ...

FLORIST OR NURSERY STOCK,

Don't forget to ask for Van Prolesen and Kriebel's new ...

ROSES! ROSES!

STRONG FIELD-GROWN DORMANT PLANTS.

Large stock Gen. Jacqueminot, Paul Neyron, Ulrich Brunner, Magoa Charta, Baroness Rothschild, and other leading varieties of Hybrid Perpetuas, \$3.00 per 100; \$30.00 per 1000.

CANNAS.

New Giant FLOWERED AUSTRIA, strong, 4 in. pot plants, \$3.00 per doz.; \$20 per 100. A large stock of the cream of the Queen Charlotte, Eldorado, Sunbeam, Alphonse Bouvier, Charles Henderson, Madam Crozy, President Carnot, Admiral Avellan, Edward Mieg, etc.

CALADIUM ESCULENTUM.

Sound bulbs with good centers, 7 1/2 to 10 in., \$5 per 100. 6 to 7 1/2 in., \$3 per 100. 5 to 6 in., \$2 per 100.

BECONIA PURITY.

A new pure white of the semperflorens type, very free flowering, \$2 per doz.

GERANIUMS.

Strong 2 1/2 in. plants, large stock of S. A. Nutt, Bevel, Heteranthe, La Favorite, and other best bedding sorts, \$25 per 1000.

THE STORRS & HARRISON CO., Painesville, Ohio.

VEGETABLE PLANTS!

Lettuces, \$1 per 100. Cabbages, Jersey Wakefield, Early Summer, Blood Red, \$1 per 100. Cauliflowers (snowball), \$7.50 per 100. J. C. SCHEER, Erie, Pa.

STRAWBERRY PLANTS.

Strong, Young, Healthy Plants, Superiorly Packed, Downing, Sharpless, Jessie, Haverland, Wilson, etc. \$1.00 per 100. J. C. SCHEER, Erie, Pa.

CANNAS.

Queen Charlotte, Alphonse Bouvier, Mme. Crozy, Chas. Henderson, out of 4 inch pots, \$6 per 100.

AZALEAS.

Ghent and Molis, strong plants, 30c. to 50c. ea. If there is anything on which you like prices our ad. is in April or June issue.

THE ELIZABETH NURSERY CO., ELIZABETH, N. J.

DELAWARE COLLEGE AGRICULTURAL EXPERIMENT STATION.

DEPARTMENT OF HORTICULTURE AND ENTOMOLOGY.

G. HAROLD POWELL, HORTICULTURIST AND ENTOMOLOGIST.

NEWARK, DELE., Dec. 15, 1898.

My dear Mr. FULLER, Milford, Delaware. I have examined the plants of the ...

ASSIGNEE'S SALE OF HARDY AMERICAN PLANTS AND FLOWERS, TREES AND SHRUBS.

Fluist Collection in America. 60,000 native Azalea ...

ASSIGNEE, HIGHLANDS NURSERY, Kawana, N. C.

VEGETABLE PLANTS

LETTUCE—Big Boston, Grand Rapids, Boston ...

CABBAGE—Jersey Wakefield, Henderson's Succession and Early Summer, 15c. per 100, \$1.00 per 1000.

TOMATO—Extra Early Red, Royal Red, Stoum and Paragon, 15c. per 100; \$1.00 per 1000.

EGG PLANTS—New York Improved, 25c. per 100; \$2.00 per 1000.

WINTER PLUM CELERY, now ready for transplanting, 15c. per 100; \$1.00 per 1000.

When writing mention the florists' exchange.

10,000 PRIVET

PRICES ON APPLICATION.

Ampelopsis Veitchii

See prices in last issue.

CANNAS.

Queen Charlotte, Alphonse Bouvier, Mme. Crozy, Chas. Henderson, out of 4 inch pots, \$6 per 100.

AZALEAS.

Ghent and Molis, strong plants, 30c. to 50c. ea. If there is anything on which you like prices our ad. is in April or June issue.

THE ELIZABETH NURSERY CO., ELIZABETH, N. J.

...I HAVE A...

FINE STOCK

Pears, Cherries, Peaches, Apples, Quinces.

MANY IN BEARING SIZES.

2,000 Elms, 14 to 16 feet

4,000 Norway Spruces, 4 to 11 "

5,000 Sugar Maples, 10 to 12 "

400 Cut-leaved Birches, 5 to 10 "

500 Golden and Scarlet Oaks, 8 to 18 "

500 Blood-leaved Maples, 5 to 12 "

800 Linden, 10 to 12 "

200 White Birch, 10 to 12 "

1,200 Purple-leaved Beech, 3 to 8 "

1,000 Evergreens, all sizes.

10,000 Roses, XX strong.

10,000 Rhododendrons, XX fine.

3,000 Azaleas and Rhododendrons, X nice.

Superintendent of Parks and Comestibles, New York City.

Address: 100 Wall Street, New York City.

STEPHEN CRANE, Norwich, Conn.

When writing mention the florists' exchange.

PEACH & PUM TREES

FOR SPRING DELIVERY, 1897.

Reliable and cheap stock as low wholesale prices. Send for Sample Lists.

ASPARAGUS ROOTS.

2 and 3 Years, Strong.

ALEXANDER PULLEN, HILFORD Nurseries, MILFORD, DEL.

SURPLUS—APPLES, PEARS AND PLUMS

CHESTNUTS—Parson, Parry's Giant, Ridgely, etc. WALNUTS—1000 Java, Persian, etc. QUINCES—Heavy Stock, Champion, Meach, etc.

PARRY'S POMONA NURSERIES, Parry, New Jersey.

# NEW AND CHOICE ROSES

## CARNATIONS and CHRYSANTHEMUMS.

All in A1 stock, now ready at up-to-date prices.

**JOHN N. MAY, Summit, New Jersey.**

WHICH WRITING MENTION THE FLORISTS' EXCHANGE

Fine Healthy Stock of

### Brides, 'Maids, . .

### . . Perles, Meteors,

From 2 1/2 inch pots, ready for shifting, \$4.00 per hundred.

**JOHN HENDERSON CO.**  
Flushing, N. Y.

WHICH WRITING MENTION THE FLORISTS' EXCHANGE

Sterling American Novelty, the

## WHITE COCHET

Is a sport from Maman Cochet, which is considered as the best pink out-of-door rose. It has all the good qualities of its parent. Its color is pure white and no doubt it will prove the best white out-of-door rose up to date.

Price, per dozen, from 4 inch, \$5.00.  
" " " " 4 " " 4 " " 25.00.

All Orders Must be Accompanied with Cash.

**J. COOK, 318 CHARLES BALTIMORE, Md.**  
STREET.

WHICH WRITING MENTION THE FLORISTS' EXCHANGE

## American Beauty

3 1/2 in. pots, very fine \$7.00 per 100,  
2 1/2 " " ready for shifting, \$5.00 per  
100; \$4.00 per 100.

## Grimson Rambler

3 1/2 in. pots, strong, \$10.00 per 100,  
2 1/2 " " ready for shifting, \$5.00 per  
100; \$4.00 per 100.

## Marechal Niel

5 in. pots, \$12.00 per 100,  
3 1/2 " " 8.00 per 100,  
2 1/2 " " 5.50 per 100; \$30.00 per 1000.

Also 100,000 HYBRID PERFECT-  
ED, MOSSES and CLIMBERS,

10 1/2 in. pots, \$30.00 per 1000.

Write for our list of varieties.

**W. S. LITTLE & CO.,**  
ROCHESTER, N. Y.

WHICH WRITING MENTION THE FLORISTS' EXCHANGE

## ROSES.

Roses. Strong plants, 2 1/2 in. pots, \$2.50 per 100  
\$20.00 per 1000. By mail, 25 cts. per 100 additional.

- |                  |                 |
|------------------|-----------------|
| Agripolina       | Maman Cochet    |
| Archduke Charles | Marie Guillot   |
| Br. Silcock      | Marie Van Hoote |
| Br. General      | Revue           |
| C. G. Soupart    | Th. de Meaux    |
| D. de la Haye    | Th. de Meaux    |
| Devoisiana       | Th. de Meaux    |
| Dr. H. Schwan    | Th. de Meaux    |
| Duch. de Brabant | Th. de Meaux    |
| Erasme           | Th. de Meaux    |
| G. de Lyon       | Th. de Meaux    |
| Polkara          | Th. de Meaux    |
| Queen's Scaplet  | Th. de Meaux    |
| St. Charles Vera | Th. de Meaux    |
| M. Niel          | Th. de Meaux    |

HIBISCUS, 10 varieties, prices same as roses.

TERMS CASH WITH ORDER.

**R. H. MURPHEY, Urbana, Ohio.**

WHICH WRITING MENTION THE FLORISTS' EXCHANGE

## TEN DEGREES BELOW ZERO

is the temperature that has been undergone without injury by unprotected yearling plants of the new climbing rose.

## AGLAIA or YELLOW RAMBLER

In our catalogue the past Winter, thus proving it to be even harder than we had supposed.

A Hardy Yellow Climbing Rose

that everyone has wanted for years and Aglaila is, therefore, an immensely important introduction.

150 Blossoms in a Bush have frequently been produced by the Yellow Rambler, for it has the same manner of blooming as the old clusters as those the Crimson Rambler to which it is a splendid companion rose and probably related. The color is a clear decided yellow the flowers of moderate size, very fragrant and last three to four weeks. The habit of growth is very vigorous, well established plants making dozens of light to ten feet high in a season.

We are the introducers of this rose in this country, having been so introduced by Mr. Lambert, the originator. We are not prepared to offer plants of two other valuable climbing roses.

## EPIHYOSYNE or PINK RAMBLER

Color a clear light red, otherwise very similar to Aglaila.

## THALIA or WHITE RAMBLER

White; same style and habit as Aglaila.

## WE WANT EVERY FLORIST

to handle them. Free from insects, but customers and to everyone who will do so, agree, to depend upon you as for its supply of plants.

## WE WILL SEND FREE OF CHARGE

a beautiful colored plate illustrating the Aglaila, together with 100 handsome descriptive circulars with names and addresses stamped upon them. Send at once.

Price for strong plants from 2 1/2 inch pots, \$5.00 per 100; \$30.00 per 1000. Trade Lists of other Roses and General Stock.

**JACKSON & PERKINS CO.** Newark, New York

WHICH WRITING MENTION THE FLORISTS' EXCHANGE

## ...NEW ROSE...

# SOUV. du PRESIDENT CARNOT

Strong, healthy plants, from 2 1/2 inch pots, \$15 per 100; \$125 per 1000. Ready now.

## AMERICAN BEAUTY ROSES.

We have this year an exceptionally fine stock of AMERICAN BEAUTY ROSES, in 2 1/2 inch pots, ready now to shift into 3 inch. \$6.00 per 100; \$50.00 per 1000.

## ULRICH BRUNNER ROSES.

Extra strong, from 2 1/2 inch pots, rooted from hard wood cuttings. This stock is gilt-edged, either for growing in the greenhouse for forcing, or for planting in the open ground. \$4.00 per 100; \$35.00 per 1000.

## NEW BEDDING ROSE MOSELLA.

This grand new Rose will be as popular as Clothilde Souper. It is always in bloom, and produces medium sized double flowers of a creamy white color, shading to apricot yellow in the center. We have a splendid stock, and have reduced our price. Strong plants, from 2 1/2 inch pots, \$5.00 per 100; \$40.00 per 1000. Strong plants, from 4 and 5 inch pots, \$3.00 and \$4.00 per dozen, according to size.

## TWO YEAR OLD ROSES.

From 5 inch pots. Augusta Victoria, Mme. Kruger, Hermosa, Pink Souper, Clothilde Souper, Caroline Marinnes, strong plants, for Spring sales, \$20.00 per 100.

Souv. du President Carnot, 5 inch pots, strong, \$35.00 per 100.

American Beauty, Mme. Cochet, Maman C. Testout, Belle Siebrecht, 5 inch pots, strong, \$25.00 per 100.

## WE HAVE A SPLENDID STOCK OF WINTER FORCING ROSES.

Before placing your order, send in your list of prices. Address

# ROBERT SCOTT & SON,

19th and Catharine Sts., Phila., Pa.

WHICH WRITING MENTION THE FLORISTS' EXCHANGE

# RENBERG BROS.

Strong, Healthy ROSES From 2 1/2 inch pots.

AMERICAN BEAUTY, \$5.00 per 100; \$40.00 per 1000  
GOLDEN GATE, PERLE BELLE, SIEBRECHT, METEOR, BRIDE, PIDEISMAID, KAISERIN and LA FRANCE, \$3.00 per 100; \$25.00 per 1000. No orders for less than 100 of one variety accepted. We are the largest rose growers in the United States, and can fill all orders with the very best stock. TESTOUT, \$3.00 per 100; \$30.00 per 1000.

Rose Cuttings, \$1.50 per 100; American Beauty, \$2.50 per 1000.

## CARNATIONS—Rooted Cuttings.

IVORY and BELLA FOX \$3.00 per 100; \$35.00 per 1000. ROSE QUEEN, \$2.50 per 100; \$30.00 per 1000. WM. SCOTT, DAYBREAK, HARRY WARKS, TIGAL WAVE, ALBERTINI, PORTIA, LIZZIE GILBERT, CORSAIR, LIZZIE MCGOWAN, STORM KING and SILVER SPRAY. \$1.00 per 100; \$5.00 per 1000. No orders for less than 100 of any one variety accepted. Special Prices on large lots. The above stock is well rooted and free from rust. Send orders to

**51 WABASH AVE., CHICAGO, ILLS.**

WHICH WRITING MENTION THE FLORISTS' EXCHANGE

# THE NEW PRESIDENT CARNOT

FROM 2 1-2 INCH POTS. \$15.00 PER 100; \$125.00 PER 1000.

## HEALTHY YOUNG STOCK.

## READY NOW FOR DELIVERY.

Mosella, "Yellow Souper," 2 1/2 inch pots, ready for a shift, \$15.00 per 100; \$100.00 per 1000

Pink Souper, 2 1/2 inch pots, \$5.00 per 100; \$40.00 per 1000

Climbing Wootton, a very vigorous climber, identical with Wootton in bloom, perfectly hardy in this latitude, \$10.00 per 100; \$70.00 per 1000

Carmine Pillar, 2 1/2 inch pots, a fine climber, hardy, \$10.00 per 100

Cocos Weddelliana, 3 inch pots, beautiful plants, \$20.00 per 100

Arca Lutescens, 3 1/2 inch pots, ready for a shift, \$15.00 per 100; \$100.00 per 1000

Also fine stock of larger sizes, prices on application.

Arca Weddelliana Seed, fresh crop, just received, \$8.00 per 1000

Arca Lutescens Scud, fresh crop, \$6.00 per 1000

Livistona Rotundifolia, 2 inch pots, \$10.00 per 100; \$80.00 per 1000

Asparagus Sprengerii, 2 1/2 inch pots, good stuff, \$10.00 per 100

A plant of great value for decorative purposes.

**ROBERT CRAIG, - - - 49th and Market Streets, Philadelphia, Pa.**

# Sou. du.....

## President Carnot

A superb hybrid tea rose of delicate shell pink color. Blooms produced abundantly on strong, stiff stems; an A1 forcer as well as beller and fine pot rose.

No wide-awake florist can afford to be without it. Order quick and get strong, healthy plants, out of 2½ inch pots, the finest in the country. Ready now.

Price, \$3.00 Per Doz.; \$15.00 Per 100; \$125.00 Per 1000.

50 at 100 Rates.

500 at 1000 Rates.

\$20.00 per 100 out of 3 inch Pots.

# ERNST G. ASMUS, West Hoboken, N. J.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## METEOR ROSES. A BARCAIN.

857 3 inch and over 250 2 inch fine, clean, strong, healthy stock.

\$30.00 takes the lot. Cash with order.

T. W. LYDECKER & CO.,

ENCLEWOOD, N. J.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# WING ROSES

150 each of BRIDE and MAID, out of 2½ inch pots, strong. I grew this stock to plant myself, but have taken the carnation fever, so will sell them for \$3.00 per 100.

GEO. A. RACKHAM, 880 Van Dyke Ave., - DETROIT, MICH.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## DORMANT ROSES—Own Roots.

FIELD-GROWN 2 to 4 feet H. P's, and Mosses, out back to 24 to 30 inches, \$5.00 per 100; \$1.00 per 100. Mine. Plants and bary climbers, out back to \$9.50 to \$10.00 per 100; \$1.00 per 100. 1 to 2 stems. \$15.00 of the following varieties: John Hoopland, La Reine, Baron de Rothschild, M. de Meaux, M. de France, Paul Neyron, Baron Provost, E. de Hollande, Jules Margottin, Capt. Ingram, Blanche Mosses, Hildegarde, Henry Martyn, M. de Noirmont, S. M. Albert, Mme. Plantier, Belle Queen of Frisco, Gen. de La Motte, Seven Sisters, grown by Heiler-Bloxer Nursery Co., Niles; now in cold storage, for sale at Council Bluffs.

W. F. HEIKES, Mgr., Council Bluffs, Iowa.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# AMERICAN BEAR CLAW

FREE FROM BLACKSPOT. 2½ in. pots. \$2.00 per Hand; \$70.00 per Thousand. FORGING HYBRIDS. ULRICH BRUNNER, 2½ in. pots, \$5.00 per Hundred. JOHN BURTON, Chestnut Hill, Philadelphia, Pa.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# GSUNNYWOODS GREENHOUSES BRIDESMAID

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## AMERICA BEAUTIES.

I have a few thousand more than I need for my own use. Clean, one stock, 2½ inch pots, \$7.00 per 100, cash with order, packed and delivered to R. E. JOSEPH BRADBURY, SOUTH ORANGE, N. J.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## LOOK HERE

The following plants are in A1 condition, ROSES, out of 2½ inch pots, Bridesmaid and Bride, \$2.50 per 100; \$25.00 per 1000. Mesocore and Parde, \$3.00 per 100; \$30.00 per 1000. Mild and Fine, out of 2½ inch pots, \$3.00 per 100. Marie Louise Violet, rooted runners, 50c per 100. Cash with order.

C. MERKEL & SON, Mentor, Ohio.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## Gardeners and Gardening in Early Chicago.

Paper read before Chicago Horticultural Society by Edgar Sanders.

Speaking horticulturally, forty years ago in this city is a cry so far in a gardening way in this city that only those permitted to take part at that time can appreciate the great and grand difference between then and now.

In passing, I might say I was early enough a settler here to have known all the pioneers in gardening, many of whom have crossed that bourne between no traveler is supposed to return.

What I will say will mostly be confined to the coming of garden and gardening as they existed in this city up to and prior to the date I first became a humble member thereof, which was the end of March, 1837.

Please understand the words "gardeners and gardens" as defined by Loudon—a early date for "the" and "a" united spot, for culinary and ornamental purposes for the various purposes of utility, ornament and recreation," and the gardener on the broad explanation of the word as "he who attends and cultivates a garden," and particularly those defined as master gardeners. And let me say, speaking of gardeners, by which I mean such as take charge of gentlemen's private places, I am sure, limited in numbers as they were at that date, they were often more in evidence taking an active part in horticultural societies and in writing on horticultural matters.

And let me say, speaking of gardeners, by which I mean such as take charge of gentlemen's private places, I am sure, limited in numbers as they were at that date, they were often more in evidence taking an active part in horticultural societies and in writing on horticultural matters.

And let me say, speaking of gardeners, by which I mean such as take charge of gentlemen's private places, I am sure, limited in numbers as they were at that date, they were often more in evidence taking an active part in horticultural societies and in writing on horticultural matters.

And let me say, speaking of gardeners, by which I mean such as take charge of gentlemen's private places, I am sure, limited in numbers as they were at that date, they were often more in evidence taking an active part in horticultural societies and in writing on horticultural matters.

And let me say, speaking of gardeners, by which I mean such as take charge of gentlemen's private places, I am sure, limited in numbers as they were at that date, they were often more in evidence taking an active part in horticultural societies and in writing on horticultural matters.

And let me say, speaking of gardeners, by which I mean such as take charge of gentlemen's private places, I am sure, limited in numbers as they were at that date, they were often more in evidence taking an active part in horticultural societies and in writing on horticultural matters.

Austin, the English Poet Laureate says: "The moment I enter a garden I know whether it is a true garden or the gardener's garden. Nearly all the large and costly gardens are gardeners' gardens. I continue to see good gardeners in little village or secluded spots, cultivated and made beautiful, by the pathetic expellents of the poor, which seem to have a charm that mine cannot rival."

Now, understand, the largest part of the gardens in old-time Chicago were "owners' gardens" rather than the "gardener's gardens." You know we live in what is dubbed the "garden city," and I will believe that that cognomen was much more appropriate at the time the city was so christened, than it is now, for the reason because as then viewed it was in a measure to its citizens a garden spot.

It has been said that between the panic of 1837 and the revival of trade after there being no money, the garden afforded the economist a household a large part of the family supplies, etc. Men began to whitewash their fences, plant for fruit and vegetables and for shade, clean up their yards, plank their walks and lay out their grounds for culture and beauty. Then the "garden city" of the "Garden City of the Country Gentleman," Albany, N. Y., in 1860, it is related that the Chicago Florists Club appointed a committee to see their duty it was to collect facts relating to our city, and they stumbled upon the version of its origin thus: Mr. Samuel Brooks, the oldest greenhouse man here, many years since (1848), built a greenhouse on a block at Clark and Monroe. A prominent man visited him, who was so struck by the beauties inside, as compared to anything out West, that he said it was "The Garden City." However, the origin is no doubt outlined in the first example here cited, and the name is not confined to this city alone, but the good people of the time took care to retain it for us all times.

Miss Harriet Martineau, who traveled in the United States, visited this city in 1836, and in the progress of that trip made the journey from Niles, Mich., by wagon. In her work "Societies in America," she says: "On arrival in Chicago a fine fair was going on. Being too much fatigued to attend, I only sent me a bouquet of Prairie flowers."

In the "United States State Papers" for 1818, occurs the following: "A more extensive cultivation will be commenced at Chicago and other parts, of the cultivation of the most useful vegetables, and in the vicinity of the garison posts it shall be carried on by the troops under the direction of the several commanding officers of the posts, and will embrace the bread and such other vegetables as part of the rations."

So, you see, Uncle Sam began gardening early in the city, and the citizens were soon to follow, even if these articles were of Prairie flowers.

Chicago had a horticultural society as early as 1836; it gave several exhibitions, the last published account being in 1849, and the society was then said to have had highly members in the city. The first covered horticultural products in their shows prior to 1857, when a Cook County Agricultural and Horticultural Society was organized. In that year it held a fine fair on the lot bounded by Division, Clark, and North La Salle streets. It was held on all open prairies at the time—after which the Florists Club, in 1858, and afterward, a horticultural society, held their exhibitions down to the big fire of 1871.

When I came here it was no rare thing to see ornamental plants in this city, and I remember noting the remains of a fine peach orchard out at Dr. Kennicot's farm, bounded by North La Salle. He told me, prior to the terrible winters of 1854-5-6-7, which killed the trees, root and branch, a horticultural society, held their exhibitions down to the big fire of 1871.

When I came here it was no rare thing to see ornamental plants in this city, and I remember noting the remains of a fine peach orchard out at Dr. Kennicot's farm, bounded by North La Salle. He told me, prior to the terrible winters of 1854-5-6-7, which killed the trees, root and branch, a horticultural society, held their exhibitions down to the big fire of 1871.

(To be continued.)

QUESTIONS BOX.

OPEN TO ALL. . . . . FREE TO ALL. Answers Solicited from Those Who Know.

(32) Manure for Violets.—W. Com manure is always preferable for violets grown in solid beds.

(34) Moss.—M. E. Lane.—We would advise you to advertise in our columns.

(35) Glass in Greenhouse Burning Plants.—I have a greenhouse, which I do not use very often. It always has burned everything we put in early in the Spring, even in February, if the sun comes out. The house is 50x20 feet, span roof, half span running southwest and northeast. I thought if I painted the inside with transparent varnish, that would remedy matters. Do you think this paint would interfere with the light in the Winter so as to affect the blooming of the plants? The varnish is very thin, and I think it will stick on during the Winter and break all the lenses. What is your idea about it, or could you suggest some other better remedy?

To remove the bad glass and improve the ventilation is the only practical way out of the difficulty. To cover with varnish or anything of that nature tends to reduce the amount of light and white lead is not sufficient shading for Summer, a more delicate one can be made by taking quick lime in milk and mixing to the consistency of thin paint. This can be made in a portable way, if so wished, by the use of a sponge. By the last named method, the shading can be removed at any time, and at the same time be very effectual.

Walden, N. Y.

KOFFMAN, the "Smullax King," reports his European sales as continuing successful and profitable in every way, the stock arriving on the other side in fine condition. During February and March last he has been in the chair, six new strings each Wednesday and Saturday, using the American and Concord line steamers. With his improved facilities for growing, he expects to produce crop of 60,000 strings of smilax a year.

Mr. Koffman has recently suffered a severe family affliction through the death of his honored father, Adolphus Koffman, who was well known in real estate circles. Mr. Koffman, Sr., was 75 years old.

Madison, N. J.

The Morris County Horticultural Society, held its regular monthly meeting, Wednesday, April 14, President A. Herington in the chair. Six new members were proposed. An exhibition committee was appointed to work up a Fall show on the fertilization and ministry of orchids, which he illustrated by the use of 48 diagrams and colored charts, and a large collection of living flowers. The lecturer displayed a thorough knowledge of his subject. This society is in a very healthy and flourishing condition.

Oneda, N. Y.

Easter trade promises to be brisk, and our stock is good and ready. Carnations are scarce. John S. Hay has leased the Lake Street Greenhouses (No. C. GREEN). Mr. Hay will give more attention to the seed business, and continue the Main st. store, handling flowers and plants for Mr. Green.

Some of our people have got caught in ill flowers shipped in from Bermuda; they will have to set fifteen fair flowers out of a hundred. J. S. H.

CARNATIONS. Ready Now!

The very best stock and the very best varieties of the market affords. Morelo, Harrison's White, Mayor Fingere, Mrs. Dulme, 75¢ per 100. Flora Hill, Mrs. M. Burney, and G. A. Dams, \$1.00 per 100. Della Fox, Dazzle, \$1.00 per 100. Jubilee, \$1.00 per 100. Ivory, \$1.00 per 100. Daybreak, Wm. Scott, Rose Queen, Lizzie McGowan, \$1.50 per 100. Bridesmaid and other varieties at low prices.

Geo. Hancock & Son, - - Grand Haven, Mich. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Anna Webb, Helen Keller, Daybreak, Albertini, Cartledge, Van Leuven, Ophelia, \$1.50 per 100; \$2.00 per 1000 The price quoted last week was a mistake. For list of other varieties see last week's issue.

CHRYSANTHEMUMS. 44 varieties, including Mrs. Perrin, Wm. Simpson, Julia Ivory, Liberty, Riceman, and the best of the standard varieties at moderate prices. Cash with order.

JOHN HACKETT & CO., 82d St., near Elmwood Ave., PHILADELPHIA, PA. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

FAMOUS CARNATION DELLA FOX!

MYERS & SAMPSON, Wyndmoor, Chestnut Hill, Phila. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

EVERY FLORIST OUGHT TO ENSURE HIS GLASS AGAINST THE SUN'S RAYS.

For particulars apply to JOHN G. KELLER, Secy., Saddle River, N. J. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

A MISTAKE, to delay your orders for MINNIE COOK.

Price should be \$3.00 per 100; \$25.00 per 1000.

MEADOW VIEW GREENHOUSES, PARSIPPANY, N. Y. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

GRALLERT & CO. CARNATION GROWERS, COLMA, SAN MATEO CAL. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Carnations, Etc. HIGH GRADE ROOTED CUTTINGS.

Write for price list.

H. WEBER & SONS, P. O. Box 57 OAKLAND, Md. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

CARNATION AND COLEUS CUTTINGS. Strong, well-rooted cuttings of the following varieties: Fort, Scott, Portia and McGowan, \$1.00 per 100. Alaska, Rose Queen, Storm King, Peach Bloss, Minnie Cook, Lago, Queen Victoria, Meteor and Dazzle \$2.00 per 100. Della Fox, Eldorado and Benton \$3.00 per 100. \$4.00 per 1000. In bulk \$1.00 per 100.

Write me neatly by Vercaschaffelt and Golden Heider, 75c per 100. Cash or satisfactory reference. GEO. M. CHAMBERS, HOUSTON, TEX. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

MORELLO The New Scarlet. From soil. HOPP & LEMKE, East Grand Rapids, Mich.

CARNATIONS Daybreak, Scott, Tidal Wave, S. Sprays, Lizzie McGowan, \$1.00 per 100. Cash with order.

WILETS of Erlachdorf, \$2.50 per 100; \$1.00 per 1000. LITTLE Ledy Campbell, \$1.00 per 100. COLEUS, 50 standards, \$1.00 per 100. Cheery, my selection, Bodder and Vercaschaffelt, \$1 per 100, by mail.

JOSEPH RENARD, Unionville, Pa.

HEALTHY STOCK Well rooted LELAND, the most profitable yellow, to date \$15 per 1000, only 2000 left; no weak spikes.

Write for catalogue, Louise, Campbell and Swanley White, rooted runners, strong. COLEUS, 50 standards, \$1.00 per 100. Cheery, my selection, Bodder and Vercaschaffelt, \$1 per 100, by mail.

E. J. CLOD, L. U. 32, Avondale, Pa. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Carnations and Violets.

California L. H. Campbell, Los Angeles, 75¢ per 100 per 1000. Carnations, well-rooted cuttings, Wm. Scott, \$1.00 per 100. With order, P. M. DEWITT, Torrance, Philadelphia, Pa. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Scott and Portia, \$1.25 per 100; \$10.00 per 1000. Daybreak, \$1.50 per 100; \$15.00 per 1000. Lizzie McGowan, \$1.00 per 100; \$8.00 per 1000.

THE BOOFL FLOWAL CO., Ithaca, N. Y. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Rooted Carnation Cuttings.

Good healthy ROSES for Spring Stock. Send for price list. CUT ROSES and CARNATIONS always in stock.

H. DALE - - - Brampton, Ont. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Carnation Cuttings

Strong and well rooted, of the following varieties: Jubilee, Triumph, Armisteady, Alaska, Bridesmaid, Dean Hole, Goldfinch, Lizzie McGowan, Miss. Bernard, Meteor, Peachbloss, Rose Queen, Silver Spray, Wm. Scott, Uaele John.

PRIMULAS, 2 1/2 inch, \$2.00 per 100. Send for list and prices on large lots.

Logan Ave. Greenhouses, - Danville, Ill. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

50,000 CARNATIONS ROOTED CUTTINGS, FLAT GROWN.

L. McGowan, Eldorado, Wm. Scott, Portia, Daybreak, Silver Spray, Alaska, J. Harrison, Meteor, Meteor, Rose Queen, \$1.50 per 100; \$12.00 per 1000.

MARIE LOUISE, 10,000 Violets, flat grown, \$1.50 per 100; \$12.00 per 1000. Cash with order.

HENRY A. NIEMEYER, Erie, Pa. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

JAMES H. ELLIOTT

The only rust proof paying commercial scarlet Carnation up to date. . . . . TRY IT!

Rooted Cuttings, \$1.50 per dozen; \$10 per 100. Unrooted Flips, \$5 per 100; \$45 per 1000.

JAHN BROS., New Bedford, Mass. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

HERR'S CARNATIONS.

YOU RUN NO RISK. If the Cuttings are not satisfactory, you return them at my expense. Unlimited quantities at reasonable prices.

Varieties.—McGowan, Alaska, Ivory, Harrison's White, Scott, Dazzle, Abundance, Triumph, Bridesmaid, Dolin Fox, Victor, Emma Weeber, Fort, Fred Torrey, Cartledge, Wava, Lago, Crimson Spray, Buttercup, Eldorado, Iceland, Armisteady, etc.

Pansies. Smilax. Violets. ALBERT M. HERR, L. B. 496, Lancaster, Pa. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

CARNATIONS

All the leading new varieties; good clean, well rooted stock.

- Mrs. Chas. H. Duhme, delicate pink . . . . . \$10 75 Mrs. Geo. M. Bradt, Rose, striped scarlet . . . . . 10 75 C. A. Dana, shell pink . . . . . 10 75 Flora Hill, white . . . . . 12 100 Mrs. McGowan, salmon pink . . . . . 12 100 Mayor Fingere, yellow . . . . . 10 75 Morelo, scarlet . . . . . 10 75 Hand Den, blush . . . . . 10 75 Lily leaf, white striped . . . . . 10 75 Harrison's White, white . . . . . 10 70

If not already received send for our price list, which contains all the leading standard varieties at moderate prices.

F. DORNER & SONS CO., La Fayette, Ind. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

ROOTED CUTTINGS. CARNATIONS.

Mrs. Chas. Duhme (Dorner '93). Mrs. Geo. M. Bradt (Dorner '93). \$1.50 per doz.; \$10 per 100; \$75 per 1000. Lily Den (May), Maud Den (May), \$2.00 per doz.; \$10 per 100; \$75 per 1000.

Wm. Scott . . . . . 1.00 7.50 Lizzie McGowan . . . . . 1.00 7.50 Mrs. McGowan, salmon pink . . . . . 1.50 12.50 Portia & T. Wave . . . . . 1.10 10.00 Mrs. Fisher . . . . . 1.25 11.00 Eldorado . . . . . 2.00 Alaska . . . . . 1.50 12.50 Storm King, Meteor, Anna Webb and Thos. Cartledge all sold.

EDW. J. TAYLOR, Wholesale Carnation Grower, SOUTHPORT, CONN. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WON FIRST PRIZE at Spring Exhibition of Mass. Horticultural Society, 1897.

SEED PINK CARNATION

Originated by Mr. H. A. Cook, of Shrewsbury, Mass., grown by the subscriber, and now being put upon the market as

NINEA

Cuttings now ready and free from rust. \$10.00 per 100; \$85 per 1000; \$60.00 per 1000.

DAYBREAK, SCOTT, STORM KING, PURITAN, METEOR, GOLDFINCH, VECTOR, ALBERTINI, and others, \$1.25 per 100; \$10.00 per 1000.

DELLA FOX, nice plants from flats, \$4.00 per 100.

CHRYSANTHEMUM CUTTINGS. Ivory, Bonafont, Gold Lode, Minnie Wanmaker, \$2 per 100; \$15 per 1000.

A. W. HOYLE, Spencer, Mass. And 51 Withington St., Sta. O. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Advertisement for CHAS. STEEBER, THE RESTLESS & THE BLESS'ED FLORIST OF PITTSBURGH, PA. GROWS & SELLS CARNATIONS & VIOLETS.

Advertisement for HEALTHY STOCK Well rooted LELAND, the most profitable yellow, to date \$15 per 1000, only 2000 left; no weak spikes.

Advertisement for THE ONLY RUST PROOF PAYING COMMERCIAL SCARLET CARNATION UP TO DATE. TRY IT!

Advertisement for A. W. HOYLE, Spencer, Mass. And 51 Withington St., Sta. O. WHEN WRITING MENTION THE FLORISTS' EXCHANGE



# CARNATIONS.

## Summer Treatment.

Shading will now require some attention. It is the bright blazing sunshine as much as the heat that causes carnations to give out very early in summer. Indeed, during this portion of the year the carnation will gradually adapt itself to the heat, and grow vigorously, provided there are other essentials in addition to shading are carefully looked after and maintained. First, shading should not be left go until the plants are actually suffering for the want of it; for it is a difficult matter to make them regain ground. They will have lost when this has been postponed too long.

We have already given all our carnation houses a light shading. The main trouble with a great many in shading early in the season lies in putting it on too heavy. A thick coat of whitewash or any other material should not at any time of the year be put on the glass. We must remember that outdoors the carnation does its best during the cool, refreshing days of autumn, when the sun barks less, and the power, and the atmosphere is often hazy and, generally speaking, cool, bracing breezes prevail. These are the conditions to which we should try to imitate as far as is possible.

We can temper the rays of the sun by a light coating of whitewash, just enough to make a perceptible difference to the plants; this we put on evenly all over the glass, and no had effects follow when used in this way. As the season advances and the sun's rays increase in strength, the shading must be put on heavier gradually until in mid-summer, when it will have become quite heavy. It is not to direct rays to come into the house. From thence on we allow the action of the weather to gradually remove it, so that by housing it for the new crop, the glass will be about the 20th of August, which is a reasonable date.

We say that the carnation will adapt itself readily to the increasing heat of spring and summer. Then surrounds them with these means, these might say, consist of shading, ventilation, watering and feeding. It is difficult to say which is the most important factor; it is that the fullest success cannot be obtained when any of these four essentials is neglected. The most important must be necessarily hinge upon them all, and each one should be attended to as though it were the main object in bringing about success. Ventilation must be thorough and complete. Shading and ventilation are probably the two most important factors which enable the carnation to withstand the intense heat of spring and summer. In ventilation, the main object is to keep the air moving. With the air constantly changing, the carnation will stand 100 degrees quite as well as 80.

To successfully grow carnations in warm localities under pits in summer, bottom ventilation must be resorted to; without this, it is impossible to get a thorough circulation. A house which has only its top ventilators in operation, soon becomes veritable bake oven, and it is little wonder that carnations will give out early in summer in such a house.

With bottom ventilation, it is impossible for the air to stand still, no matter how warm the day may be. With the sun shining, the temperature inside the house must invariably be higher than outdoors, and since here the air always rises, and the floor of the house is always the coolest, it is easy to comprehend the importance of admitting the air from the bottom, in order to maintain a continual and complete circulation.

When we take up the carnation from the field it is strictly an outdoor plant, but during its sojourn in the greenhouse, we gradually accustom it to conditions quite different from those which existed outdoors; doing out, however, to preserve the principal features of its outdoor life. In this way, by the time spring and summer arrive, the carnation is enabled to withstand a much greater amount of heat than it could have done in the fall. Its ability to adapt itself to a large amount of heat, relieves us of any undue considerations at that score, and time and labor are saved in securing a thorough circulation will do more to maintain its vigor during the summer months.

Watering must also undergo a gradual change as warm weather approaches. Dur-

ing winter months a good watering will last several days, sometimes a whole week, depending upon the state of the weather, the nature of the soil and the position of the houses. This, however, gradually changes, until very often daily waterings become necessary.

To allow the plants to become dry enough before watering, and to prevent them from getting so dry that we must continue to be our guide. Many are tempted during hot weather to dash the water over the tops of the plants, and often with a great deal of force. The injurious effects of this practice have been dwelt upon before in these columns, and need hardly be repeated again.

We have not yet sprayed our carnations this spring, and will not until warm, settled weather commences. In summer we continue to apply the water directly to the soil between the rows, just as we do in winter, or leave it fall from the hose down between the plants; after the plants are watered in this way, we spray lightly over the top, but never with force.

Feeding, although I mention it last, is by no means the least important part of the warm weather treatment of the carnation. Light and air are the two most important agents which assist the plants to take up nourishment from the soil. It is a lack of these two essentials during winter which makes over feeding a dangerous probability where liquid manure is used regularly, and then during spring, when other work is pushing, the feeding is often neglected; the grower, in many cases, mistaking the increased growth as an indication that the soil is not doing enough, requiring only the bright spring days to bring it out. This is an error, to the extent that the soil does not furnish sufficient nourishment to last any length of time. It must be remembered that they have no substance to draw upon, and the little soil on the benches or in the beds is easily exhausted, especially when there is an abundance of plants.

The principal feature in feeding, then, is to keep it up and not allow the soil to be so dry that it is necessary to come into the check, from which, on account of their age and the season of the year, they cannot take up any more.

By adhering to summer treatment on this line we are enabled to cut blooms during the winter months, and very often to get a winter growth stock.

H. WEBER.

## American Carnation Society.

Secretary Albert M. Herr has issued the following circular, reaccompanied with a list of the names of the growers that will accede to every carnation grower, when the list is in your possession. It makes over every assistance should be rendered to the Society in its efforts to provide what really will be very valuable information. Go over the list carefully, and mark the varieties that are being grown in your vicinity, as Secretary Herr directs:

"The report of the Cincinnati meeting will be ready and mailed you the following month.

"Our next meeting will be in Chicago, with a preliminary meeting in Providence, R.I., during the convention of the S. A. F., to arrange for a premium schedule and other business that may come up. All who can should attend that meeting with suggestions for the success of the Chicago meeting and the good of the Society.

"Growers of seedlings will please note that only twelve blooms will be called for to compete for the preliminary certificate in two-year-old seedling class. They will also note that a fee of \$1 will be charged for registering a name.

"In order to get our list of varieties in as short a space as you please send a portion of your time and look over the following list, marking those grown in your vicinity, with an X among the newer varieties (if there are any known to you) that were never sent out, or never will be, please name it after their names; also, if there are any that will be sent out soon, give the date. It is desired to get up this list in shape so that varieties now in commerce, or about to be, will be separate from the others, and it is only by your assistance that this can be accomplished.

"If any one wishes to offer special premiums they can be forwarded to the secretary at any time prior to the meeting at Providence, August, 1897.

"These members who have not paid their dues (\$3) will please remit at once to the Secretary. New members are needed, can't you get them from your vicinity?"

"RICHARD WITTEBSTER, President.

ALBERT M. HERR, Secretary.

Lancaster, Pa."

# THE CARNATION NOVELTIES, MAYOR PINGREE AND MORELLO

Other new sorts, also noted introductions, and well-known standards. Our Fine New Illustrated Catalogue Now Ready. FREE.

**DAN'L B. LONG,**  
Jobbing Florist and Growers' Agent, **BUFFALO, N. Y.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# MAYOR PINGREE

**BEST YELLOW TO DATE.**  
Ready Now. \$1.50 per dozen; \$10.00 per 100; \$75.00 per 1000.

—FOR SALE BY—  
**JOHN BREITMEYER & SONS, THE COTTAGE GARDENS,**  
Miami and Gratiot Aves., DETROIT, MICH. QUEENS, L.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# BAT'S CARNATIONS

The following selection of Winter Flowering Carnations confine all the newest and most profitable market varieties yet introduced, they are all exceptionally vigorous, the flowers are large, with perfect calyx, and most profuse bloomers.

- CANARY BIRD.** Large yellow, with a bright scarlet edge, the flower is full and well formed. \$1.25 per doz.; \$10.00 per 100.
- DUKE OF YORK.** Flowers very large and full, on long stiff stems. Very rich violet scarlet-crimson, color, long formed. The plant is unusually vigorous. H. S. S. Certificate No. 100. London. \$1.25 per doz.; \$9.00 per 100.
- HENRY GIBBONS.** Flowers large and full, very bright clear crimson, continuous and very free bloomer, and of vigorous constitution. \$1.75 per doz.; \$12.00 per 100.
- LEONIDAS.** A magnificent variety, bright crimson-scarlet, large flower; growth vigorous and very free. \$2.00 per doz.; \$15.00 per 100.
- Mlle. Therese Franco.** Beautiful fresh pink, very large full flowers, petals slightly fringed. This is undoubtedly the finest Pink Carnation in cultivation. Certificated R. H. S., London. \$1.25 per doz.; \$9.00 per 100.
- PRIMROSE DAY.** The finest Yellow Carnation yet introduced. The type of exceptional vigor and very free bloomer. Certificated R. H. S., London. \$2.00 per doz.; \$15.00 per 100.
- WILLIAM ROBINSON.** Very brilliant scarlet, large, well formed flowers; very free bloomer. This is much the best Scarlet Carnation yet introduced. Certificated R. H. S., London. December 16, 1896. \$2.00 per doz.; \$15.00 per 100.

The above are all strongly rooted plants from 3/4 in. pots. Packing free, and freight paid to New York, Boston, or Philadelphia.

Cash with Order, or Satisfactory Reference. My collection of carnations for growing in the open field is one of the finest in Europe. Full catalogue free on application.

**R. H. BATH, THE FLORAL WISBECK, ENG.**  
FARMS,  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# Harrison's White

NEW PAVAN CARNATION. SPORT FROM WM. SCOTT. 40,000 SOLD UP-TO-DATE. All leading Carnationists are purchasers. Strong, vigorous growth, requiring no support.

Described and illustrated in *Florists Exchange*, Nov. 21, page 1044.

COME AND SEE IT.  
Price: \$10.00 per 100, \$40.00 per 500, \$70.00 per 1000

Cash or satisfactory reference. All orders filled in regularity.

**JOHN HARRISON,** New Rochelle, N. Y., 100 West 12th Street, N. Y.

739 Bergen Ave., JERSEY CITY, N. J.

Take Bayonne or Greenville from Jersey City to R. R. Fair or get at New York & A. R.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

### Experiment Stations as Exhibitors at Flower Shows.

Exclusively a Trade Paper.

Entered as New York Post Office as Second Class Matter

Publishes EVERY SATURDAY

A. T. DE LA MAR Ptg. and Pub. Co. Ltd.,

P. O. 6, 8 Duane St., New York.

2, 4 Box, 1897. Telephone 2164 Cortlandt.

#### SUBSCRIPTIONS:

\$1.00 per year to United States, Canada and Mexico, and \$1.50 per year to foreign countries in postal union. Payable in advance. New subscriptions will commence with the first number after receipt unless otherwise ordered. Back numbers can be supplied whenever wanted. The date or address label shows when the subscription expires and is the subscriber's receipt. No other receipt is sent.

#### ADVERTISEMENTS:

Copy sent this office not later than Thursday in order to secure insertion in issue of the following Saturday. Rate, \$3.00 per inch. Special positions extra. Discounts on contracts of one month or longer. Orders from unknown parties must be accompanied by each of satisfactory references.

#### Contents.

AMERICAN INSTITUTE SHOW AND MEETING, 400	AMERICAN BOTANICAL SOCIETY, 410
CAUTIONS, 400	CHANGES IN BUSINESS, 399
CINERARIAS, 402	CORRESPONDENCE, 418
DALLAS, TWELVE BEST, 401	EASTERN SPECIMENS (Illustrations), 401
EXPERIMENT STATIONS, 399	FLORISTS' EXHIBITORS, 399
FEDERAL DESIGNS SHOW AT N. Y. F. CLUBS, 403	GARDENERS AND GARDENING IN EARLY CIRCUITS, 404
LAWN SPRINKLERS, 399	NEW YORK FLORISTS' CLUB, 400
QUESTIONS FOR VENDORS TO ANSWER, 400	SEED TRADE REPORT, 396
SEEDLINGS AND CERTIFICATES, 402	SHORT TRIPS TO SOUTH GREENHOUSES, 406
St. Paul, Boston, 399	St. Paul, N. Y., Walden, N. Y., 408
New York, 408	Chicago, Washington, 410
Cleveland, Philadelphia, 410	Grand Rapids, St. Louis, 410
Brooklyn, Buffalo, Syracuse, 414	WATER LILIES, 406

### Our Plant Illustrations.

Acacia undulata differs from *A. armata* in the matter of color. The foliage is a little greener; the flowers are a little larger, but of a much paler yellow. The wood growth is also a little more prominent, but better. It is a handsome shrub. *A. armata* is nearly white. *A. undulata* also seems inclined to grow taller. This is the first reason that the quantity has been seen in this country. Julius Reehrs has imported a number of grand specimens, and does not intend to sell them this season, but will give them a year's growth in our climate when he thinks he can get the best results on them. They are already starting freely into growth. A number of the plants on his place are trained pyramidal form; all are more than six feet high, and, as our illustration shows, some attain the height of ten feet and over.

There is a large quantity of *A. armata* being very popular. To suit this trade Mr. Reehrs has always on hand a number which he plants to five plants. This plan usually obtains excellent results. Our illustration shows a three-bulb specimen.

### For the Busy Man.

Clery & Co., New York, will hold an auction sale of orchids on Thursday, April 22, Joseph Supple, will hold an auction of New York plants at the Plum Club for the benefit of a fund to be adopted by the New York Florists' Association.

Everybody is prepared for a good Easter. There are more than 100 million dollars' worth of supply of all kinds of stock, except a garnish of eggs, on the market, and more than any other season. The demand is so great from many points.

Reports regarding the European bulb crops are all favorable. A grand display of border tulips, which are becoming very popular, will be made at the coming International Exposition by Polman Mow.

him at that time. And as there was no specific information attached to the Cornell exhibit, intimating that it was an "illustrative and educational" display of the kinds in the market, etc., we treated it as we did other exhibits in the market. The opinion then formed. There was, as far as we saw, no individual merit in the Cornell display. It was, in our opinion, being the only feature about it that we could record.

We have no doubt of the honesty of purpose of the station officers in displaying the kinds in the market, but we do not think that the flower show exhibited the utmost capability of their growers; and we have no reason to believe that they had any credit to the station officers or to the show; and in the opinion of experts it was not the best that could be had. In fact, the management was advised to have it removed. It detracted from the impression of the exhibition in toto created, besides frustrating the object for which flower shows are held, by acting as a deterrent to the exhibitors who would not take up dahlias grown, inasmuch as they would not venture into the work, lest their labor might be lost. It is a precedent similar to those the Cornell people succeeded in raising. In this way it was calculated to do more harm than good by "seeing everything at its best." The joy of the exhibition was not reaped by visitors. The exhibitors, however, would not fully understand the object of the Cornell station officers. It was pointed out by Professor Bailey in bulletin 128, had it been made known to them by placard or otherwise, that the exhibitors would not have looked upon the exhibit as a display of the skill of the Cornell growers, which it undoubtedly was.

In favorable contrast to the Cornell station officers, the first and second "display" was the exhibit of apples, staged in the best exhibiting style, correctly in the station officers' own manner, at Geneva, N. Y. Such handsome specimens of this fruit are rarely, if ever, seen. The exhibitors, however, showed in two ways than one; they showed that at least some of our experiment station officers are able to grow apples of the highest quality, science with practice intelligently, such first-class results as they obtained could be shown to the exhibitors. The exhibitors received the highest honors and accommodations.

There is here where the whole rests—not on the cultivators at Cornell, but on the dealers supplying the experiment stations. It is the way they do it. We do not often get the best stock which the exhibitors receive. It is the dealers' tag-ends. If the dealers are willing that the varieties should be judged by such plant stock as they receive, they are certainly not; but how unjust of the dealers to treat the Cornell station officers, and subject these officers to our distasteful criticism through such treatment.

But why did not the Cornell cultivators accompany their exhibits, however staged, with some such explanation as this: "These flowers are not grown from the best stock in the market, but from such as they apply to the experiment stations." Then, indeed, would the distastefulness of the exhibit be "educational and instructive," instead of mediocre and misleading.

But, you may say, take ye heed! In future send us only your best of everything to Cornell experiment station, for the products of your station will be the best. It is not so. The station as "illustrative and educational," and may do you either great harm or great good, depending on the way you do it.

We are glad of the information the Professor has given us as to the proper use of the experiment station, viz: "to make records." Now we know; and our duty is to stress this fact, and to this end, its purpose, and keep away from the exhibition business—unless it can produce and show a record. It was our own judgment, however, that this exhibition station has to learn the art of exhibiting as well as the art of growing. It is not in their forte, why should not the stations supply such a lesson in exhibiting? That part of the exhibition business which affects the public good. Exhibiting being a great factor in the business, the stations should be made to know it is so. Or, if the station still be desirous to educate the public on matters with which they are not in their own nature, it is possible to raise trash from "tag-ends" and to do so for the purpose of being so specified when it makes such exhibits.

We take issue with the closing sentence of the Professor's so-called "concrete example" illustrative of a station's work. It is not the station's business to do anything that will bring other business

to them—ever or credit to their profession, and plants grown of "exhibition quality," when seen, always will conduce to the same result, in greater or lesser degree.

Then again, the station falls short in its exhibition of the plants. It does not show the possibilities of the flower, if it (the station) presents not some blooms of "exhibition quality."

We hope if the Cornell officers do keep on exhibiting, that they also will put up a record of their work, and publication in any future bulletin—something regarding why they can make a record of their credit. It may have been due to their achievements worthy of note.

It is not in their nature, however, to do just what it says. Anyone having the money to buy the tubers and the space in which to grow them, could have done as done likewise—made an exhibit of the flowers and received a similar award.

But, be it noted, there is no mention made by Professor Bailey that the complimentary honors referred to were bestowed on the exhibitors.

"Illustrative and educational" merits.

### New York.

#### Wholesale Markets.

The price of cut bloom up to Friday morning was somewhat of a haphazard nature. Buyers have been too busy with their other work to get to the market, and the cut-flower trade. Consequently, they have been shy in either buying or selling. It is expected that on Saturday, on the other hand, growers have evidently been keeping back more than they have presented to the market, and a rise in prices has been attempted, and was fairly well sustained. Beauty, which has been the most popular variety, had on Thursday night reached \$6 per dozen. No. 1 Bride and Bridesmaid had reached \$4.50 per dozen. The price of \$10, and it is expected that during Friday and Saturday these figures will stiffen considerably.

Violets are numerous, but it is anticipated that the sales of this stock on Saturday will be enormous and that 75c, and even \$1 per 100, will be possible figures.

Carotation shipments have been so light and irregular that we are unable to quote the prices obtainable up to Thursday night. However, the supply evidently is much larger than for the last Saturday and prices will be still forward quotations for one day, for the first three are in the 100, and the rest in the 200. We do not doubt that these figures will be obtained for such plant stock, and higher grades will sell proportionately well.

Valley is doing a little better and there is a probable chance that on Saturday it will reach \$2.50 and \$3 per 100; higher or lower figures will depend upon supply, and the market is very tight. The water lilies are likely to hold up well and clear out. Narcissi of different kinds are selling at from \$1.50 to \$2.00 per 100. They do so. Tulips are dragging and will likely remain in that condition.

#### Easter Predictions.

The predictions will be the only stock on which the percentage will be felt. Roses of all kinds, including hybrids, are plentiful. The same with bulbous stock of all kinds. The demand for the latter thing will sell Saturday and Sunday at a price which may be a little above the usual amount. A certainty bright and clear will follow on late sales.

#### Plant Trade.

Never before was there such a gorgeous display of plants as on Thursday. The demand so good. At midnight Thursday many large retailers had stock piled up to the ceiling. The demand had exceeded those of any previous season, and that according to the orders on hand their stock was being run out. The plant trade this is going to be the banner Easter.

#### Retail Trade.

All retailers are in a very amiable mood. There is coming their way in an unexpected manner. The plant display made by each one is larger than ever before. The demand is so good that they are engaged for the accommodation of plants that was not heretofore known at this time. In fact, the display is not confined to the city, but is being shown all over the city this condition prevails.

As Orchid Sale.

Clary & Co., 60 Vesey street, have a sale of orchids and other plants from Sander & Co., England, on Thursday next...

Scilly's New Show Boxes. J. A. Scilly, 74-76 Myrtle ave. Brooklyn, has a new York show room at 251 Water st., in connection with the Howard Furnace Company...

The News. WILLIAM ROEBB, Carlton Hill, has accepted the call made upon him and will officiate as one of the judges at the Hamatic International Exhibition on Sunday next.

CORNELIUS VAN BRUNT gave an illustrated address on the cultivation of orchid plants before the Camera Club on Thursday night, at 111 West Thirty-eighth st.

H. A. SOHL, 147 East Forty-second st., New York, has recently begun to cater to the large and increasing demand for an assortment of waxed and tissue papers, bookbinders, paper bags, twines, etc.

DALLBOUZE BROS. have secured a large stock of new greenhouse, 300x22 feet. Lord & Burnham will build.

H. A. MCGUIRE has opened a flower store at East 125th st.

Boston.

Preparing for Easter. The florists were probably never better prepared to meet the demands of a discriminating public on the eve of a great festival than they are at the present.

F. M. MCCARTHY & Co. will commence their Spring auctions on Tuesday next, their first offering consisting of hardy roses, clematis, Japanese maples, hydrangeas, and a variety of other shrubs and plants.

W. H. ELLIOTT, as assignee of Bowditch & Co., reports the sale of the Bowditch collection of plants on Monday and Tuesday last. The final settlement of that concern's affairs has been made.

The superiority of the general run of Boston high quality flowers is noticeable to all the observer, and in many instances plants are fully up to the standard of the highest quality of the market.

Hybrid roses have been better on prevalence in the market. Cotoneaster, Clematis, Crismon Rambler are in prime condition and form a striking feature in most of the flower gardens.

Among which were noted as especially desirable the azaleas, spruce cedars, dendrodon, Azalea mollis and catalpas. William K. Joyce, in both his Tremont and Bowditch stores, most acceptably displays a fine collection of plants, including some remarkably fine hydrangeas and hydrangeas, and some of the best roses.

Houghton & Clark have made a special selection in yards and greenhouses of their store, have leased an entire building two or three doors distant, at No. 491 Broadway, and have fitted up the first and third floors are filled with a choice lot of goods, all of fine quality and much of it especially desirable.

The flower trade in New York is also up to date with fine offerings. Galvin Brothers are well supplied with a choice collection of plants, especially in this line of their goods.

The cut flower trade has not started so early as to be hoped that their present arrangements will be successful. The cut flower trade has not started so early as to be hoped that their present arrangements will be successful.

The trade list of Dutch plants, for sale by the firm Van Proissen Kerstinger, of Boskoop, Holland, has just been issued by the firm.

W. H. ELLIOTT, manager of the Co-operative Market, has been on the sick list for several days, but is now about again, prepared to meet the heavy work of the next few days.

N. F. MCCARTHY & Co. are prepared for the season, having the flower market run full to overflowing, with a fine lot of lilies from Pierson, of Cromwell, Conn.

SHOPLING. The florists are well satisfied, with orders coming in now very satisfactorily.

Business Cards. HILL & Co., 415 Broadway.

Decorative Goods. HILL & Co., 415 Broadway.

Decorative Goods. HILL & Co., 415 Broadway.

Decorative Goods. HILL & Co., 415 Broadway.

Decorative Goods. HILL & Co., 415 Broadway.

Decorative Goods. HILL & Co., 415 Broadway.

Decorative Goods. HILL & Co., 415 Broadway.

Decorative Goods. HILL & Co., 415 Broadway.

Decorative Goods. HILL & Co., 415 Broadway.

Decorative Goods. HILL & Co., 415 Broadway.

Decorative Goods. HILL & Co., 415 Broadway.

Decorative Goods. HILL & Co., 415 Broadway.

Decorative Goods. HILL & Co., 415 Broadway.

Haverhill, Mass.

C. H. Kaubacher reports a busy time. Funeral work kept all hands running several days last week.

Index to Advertisers. Hughes Geo J., 429.

Hughes Geo J., 429. Hughes Geo J., 429. Hughes Geo J., 429. Hughes Geo J., 429.

Hughes Geo J., 429. Hughes Geo J., 429. Hughes Geo J., 429.

Hughes Geo J., 429. Hughes Geo J., 429. Hughes Geo J., 429.

Hughes Geo J., 429. Hughes Geo J., 429. Hughes Geo J., 429.

Hughes Geo J., 429. Hughes Geo J., 429. Hughes Geo J., 429.

Hughes Geo J., 429. Hughes Geo J., 429. Hughes Geo J., 429.

Hughes Geo J., 429. Hughes Geo J., 429. Hughes Geo J., 429.

Hughes Geo J., 429. Hughes Geo J., 429. Hughes Geo J., 429.

Hughes Geo J., 429. Hughes Geo J., 429. Hughes Geo J., 429.

Hughes Geo J., 429. Hughes Geo J., 429. Hughes Geo J., 429.

Hughes Geo J., 429. Hughes Geo J., 429. Hughes Geo J., 429.

Hughes Geo J., 429. Hughes Geo J., 429. Hughes Geo J., 429.

Hughes Geo J., 429. Hughes Geo J., 429. Hughes Geo J., 429.

Hughes Geo J., 429. Hughes Geo J., 429. Hughes Geo J., 429.

Hughes Geo J., 429. Hughes Geo J., 429. Hughes Geo J., 429.

Hughes Geo J., 429. Hughes Geo J., 429. Hughes Geo J., 429.

Hughes Geo J., 429. Hughes Geo J., 429. Hughes Geo J., 429.

Hughes Geo J., 429. Hughes Geo J., 429. Hughes Geo J., 429.

Hughes Geo J., 429. Hughes Geo J., 429. Hughes Geo J., 429.

Hughes Geo J., 429. Hughes Geo J., 429. Hughes Geo J., 429.

Hughes Geo J., 429. Hughes Geo J., 429. Hughes Geo J., 429.

Hughes Geo J., 429. Hughes Geo J., 429. Hughes Geo J., 429.

Hughes Geo J., 429. Hughes Geo J., 429. Hughes Geo J., 429.

Hughes Geo J., 429. Hughes Geo J., 429. Hughes Geo J., 429.

Hughes Geo J., 429. Hughes Geo J., 429. Hughes Geo J., 429.

Hughes Geo J., 429. Hughes Geo J., 429. Hughes Geo J., 429.

Goldwell, Wilcox Co. 413. Oakes N. 308. 414. Dwyer J. A. 404.

Goldwell, Wilcox Co. 413. Oakes N. 308. 414. Dwyer J. A. 404. Henderson, John Co. 403.

Goldwell, Wilcox Co. 413. Oakes N. 308. 414. Dwyer J. A. 404. Henderson, John Co. 403.

Goldwell, Wilcox Co. 413. Oakes N. 308. 414. Dwyer J. A. 404. Henderson, John Co. 403.

Goldwell, Wilcox Co. 413. Oakes N. 308. 414. Dwyer J. A. 404. Henderson, John Co. 403.

Goldwell, Wilcox Co. 413. Oakes N. 308. 414. Dwyer J. A. 404. Henderson, John Co. 403.

Goldwell, Wilcox Co. 413. Oakes N. 308. 414. Dwyer J. A. 404. Henderson, John Co. 403.

Goldwell, Wilcox Co. 413. Oakes N. 308. 414. Dwyer J. A. 404. Henderson, John Co. 403.

Goldwell, Wilcox Co. 413. Oakes N. 308. 414. Dwyer J. A. 404. Henderson, John Co. 403.

Goldwell, Wilcox Co. 413. Oakes N. 308. 414. Dwyer J. A. 404. Henderson, John Co. 403.

Goldwell, Wilcox Co. 413. Oakes N. 308. 414. Dwyer J. A. 404. Henderson, John Co. 403.

Goldwell, Wilcox Co. 413. Oakes N. 308. 414. Dwyer J. A. 404. Henderson, John Co. 403.

Washington.

Easter Outlook.

All kinds of material will be plentiful for the harvest by the end of the week... Many large bunches were offered for \$10 each.

J. L. Loose has forced quite a number of irises and shrubby peonies this Spring... Many of the shrubby peonies, varieties of the large house peonies, are being imported from France.

The bulb house built last Fall by the GUDE BROTHERS has turned out to be a great success... The lowest point reached by the thermometer was three degrees below zero.

OTTO BUSECK has been appointed successor to the late Henry McCrowe... EDGAR SANDERS.

Paterson, N. J. OTTO BUSECK has been appointed successor to the late Henry McCrowe, as vice president of East Side.

Exhibitions. The preliminary premium list of the Third Annual Chrysanthemum Show and Floral Festival... The date of the exhibition is November 16-19, inclusive.

50,000 MARIE LOUISE VIOLETS. Rooted runners, healthy and clean. 50c. per 1000 in full bloom.

PANSIES. In full bloom, \$1.00 per 1000. Daisy and Forget-me-not.

W. G. SOUTTA & Co., 159 Grand Avenue, Jersey City, N. J.

Trade Notes. Chicago. Before this reaches our readers the tale of the Easter trade for 1897 will have been told.

25c Cash with order. MAX. E. KRAUS, SO. BAYVIEW AVE., NEW HAVEN, CONN.

Beauty \$5 per dozen for long stem, down to six inches and shrubby varieties... There is nothing out of the ordinary in the way of plants for Easter for the market.

At the last club meeting, George Stollery read a paper on short span to the south... The idea first started, the Stollery Brothers were just beginning to build, and so built several houses in this style.

The stated quarterly meeting of the Chicago Horticultural Society was held April 10... Two new members were elected.

W. G. BERTMAN, of Indianapolis, was present at the meeting.

GEORGE REINBERG is building one house 25x23, and two others, same width, of 100 feet in length.

CHARLES W. McCELLAR has removed to 45 S. Wabash avenue, and the ILLINOIS CUT FLOWER CO. to 51 Wabash avenue.

OTTO BUSECK has been appointed successor to the late Henry McCrowe, as vice president of East Side.

50,000 MARIE LOUISE VIOLETS. Rooted runners, healthy and clean. 50c. per 1000 in full bloom.

PANSIES. In full bloom, \$1.00 per 1000. Daisy and Forget-me-not.

W. G. SOUTTA & Co., 159 Grand Avenue, Jersey City, N. J.

25c Cash with order. MAX. E. KRAUS, SO. BAYVIEW AVE., NEW HAVEN, CONN.

ROBERTS' GIANT PRIZE PANSIES, in flower, are the finest prize transplanted plants from cold frame, at \$2.00 per 100, or \$15.00 per 1000 by express.

PANSIES.

THE JENNING'S STRAIN OF FINEST AMERICAN GROWN PANSIES are up to date and sure to please... By express \$2.00 per 100; \$15.00 per 1000.

E. B. JENNING'S, 254 S. Southport, Conn.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

PANSY PLANTS. This strain is unsurpassed for size, color and bloom.

ASTER PLANTS, Smilax's Branching Queen of the Market. By mail, 75c. per 100; \$6.00 per 1000 by express.

J. C. SCHEIDT & Co., Bristol, Pa.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Pansies! Pansies! We are the largest growers of Pansies in America.

Whitton & Sons, Wholesale Florists, City and Green Streets, - UTICA, N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

GOOD OFFER and GOOD STOCK PANSIES, from seed bed, \$2.00 per 1000 transplanted plants.

100 SMILAX, 4 inch pots, for \$3.50. Cash with order.

HENRY HULLICK, Florist, EATONTOWN, N. J.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

West Islip Greenhouses.

Marie Louise Violets, Rooted Runners \$1.00 per 1000, cash with order.

E. B. SUTTON, Jr., P. O. Address, Babylon, L. I., N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

THE FARQUHAR HEADQUARTERS' STOCK Earliest, Finest, Darkest and Most Double, from 2 1/2 in. pots.

C. E. WELD, VIOLET SPECIALIST, ROSLINDALE, MASS.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

SUPPLY THE VIOLET KING Offer the following varieties of Violets for March delivery.

Princess of Wales (Princess de Galles), introduced by me from France four years ago.

Admiral Archon, now \$1.00 per dozen; \$7.00 per 100.

Princess de Galle. The Queen of single Violets.

FERD. BOULON, Sea Cliff L. I., N. Y.

VIOLETS. Clumps or Runners. At Stock, Clean, and no disease.

ANCHORAGE ROSE CO. ANCHORAGE, KY.

NEW PINK VIOLET MRS. J. J. ASTOR Similar in form and habit to Marie Louise, but more vigorous.

VIOLET CLUMPS MARIE LOUISE. Per 100, \$3.00.

ROOTED CUTTINGS GERANIUMS, Double White Pink, and Red.

GERANIUMS, mixed, Mme Salpêtre, Marie Louise, Yucca Var., Var. Sierra, GERANIUM REX BEGGIA.

WEST ISLIP GREENHOUSES. Sweet Alyssum, double, Galvia, acetosa, BELGIOTE CARNACTIONS, COUSIN SUEZ, mixed, SNOWDROPPY DAISY, CYCLOUS ALTERNIFOLIUS.

ROSLINDALE, MASS. Write for prices on other rooted cuttings. Stock true to name and extra care in stock.

GREENE & UNDERHILL, Watertown, N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

THE FARQUHAR HEADQUARTERS' STOCK Earliest, Finest, Darkest and Most Double, from 2 1/2 in. pots.

C. E. WELD, VIOLET SPECIALIST, ROSLINDALE, MASS.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

SUPPLY THE VIOLET KING Offer the following varieties of Violets for March delivery.

Princess of Wales (Princess de Galles), introduced by me from France four years ago.

Admiral Archon, now \$1.00 per dozen; \$7.00 per 100.

Princess de Galle. The Queen of single Violets.

FERD. BOULON, Sea Cliff L. I., N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

THE FARQUHAR HEADQUARTERS' STOCK Earliest, Finest, Darkest and Most Double, from 2 1/2 in. pots.

C. E. WELD, VIOLET SPECIALIST, ROSLINDALE, MASS.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

SUPPLY THE VIOLET KING Offer the following varieties of Violets for March delivery.

Princess of Wales (Princess de Galles), introduced by me from France four years ago.

Admiral Archon, now \$1.00 per dozen; \$7.00 per 100.

Princess de Galle. The Queen of single Violets.



## SITUATIONS WANTED

**SITUATION** wanted by expert florist, Danz, 27, single, wide experience in Europe and this country, first-class all-around grower. A. B. Care Florist Exchange.

**FIRST-CLASS FLORIST** wants situation, excellent, palms, ferns and foliage plantist good adjuster and maker-up. P. N. care Florist Exchange.

**SITUATION** wanted by christian young man an expert grower on all flowers, flowers, plants, ornamental plants, Capensis of handling 25,000 ft. One of the best and experienced in Europe and this country, there would be a chance to improve in other lines and the first class all-around grower. A. B. Care Florist Exchange.

**WANTED**, by an experienced grower of roses, carnations, geraniums, and other flowers, a good ornamental place. Capensis of handling 25,000 ft. One of the best and experienced in Europe and this country, there would be a chance to improve in other lines and the first class all-around grower. A. B. Care Florist Exchange.

**SITUATION** wanted as foreman, by an up-to-date, successful grower of florist stock; same has experience in Europe and this country, Reliable and energetic, strictly temperate, 5 years' experience as 1st German, learned, references. K. Rankin, 42 Livingston St., Newark, N. J.

## HELP WANTED.

**WANTED.** Florist with small capital as partner, or will rent place to grow roses. For particulars address FLORIST, 2359 Trenton Street, Louisville, Ky.

## WANTED.

A bright respectable young man who has had some experience in general commercial contracting. Wagner, 1808 S. W. 12th St., Miami, Fla. Mark all letters "C." A. COWE, Meadowdale Nurseries, Berlin, N. Y.

## WANTED.

**CRYSTAL PALACE GEM.** Plants or rooted cuttings. State prices and quantity.

R. H. MURPHY, Urbana, Ohio.

## GREENHOUSES AND LAND.

Small place on Jersey City Heights; two new greenhouses, both good, stable, horse, wagon, 1000, easy terms. Inquire 450 Columbus Ave., New York.

## FRUIT FARM TO EXCHANGE FOR

FRUIT GREENHOUSE property of 100 to 150 feet of fruit trees, all kinds of fruit, slope of the Ozarks; 2 acres apple, peaches, small fruit, all kinds of berries, all kinds of nuts, mild climate, no malaria. Mrs. E. J. TYLER, Willow Springs, Mo.

**FOR SALE CHEAP.** 18,000 feet of 10" x 12" well N. Y. City, two story dwelling, stocked, convenient to business. Good heat, water, all modern. Furnishings established. By order of the owner. Price \$1000.00. For particulars, inquire 1000 Broadway, New York. For further particulars address, B. J. Florists' Exchange.

## FLORISTS AND GARDENERS.

Wanted, for private and commercial places, experienced, journeyman, assistance and apprentices. Rooms, 25 South Main Street, Boston, Mass. Information, 51-52 No. Market St., Boston, Mass.

## FOR SALE.

Three greenhouses, nearly new, 4000 square feet of glass, steam heat, city water, dwelling house. Am to retire from business and will sell at sacrifice stock and all. The chance of a life-time. For particulars address, G. HILLSBURY, Nashua, N. H.

## FOR SALE CHEAP.

In the mid section of West Tennessee, a rural business 2 1/2 brick greenhouses, steam heat, outside water, all modern, and a fine house, all modern improvements. On western division I. C. R. 10 miles from Nashville. Good soil, good seed and shipping business and is a thriving business. A good chance for a good man. For all particulars, etc., address, W. H. CAPPELL, Newbern, Tenn.

## Greenhouses for Rent.

Five houses containing 330 square feet, well built and in thorough repair. Two boilers, heat, water, electricity, and good soil. Good convenient tenement house on the place. Rooms, 2 miles from Nashville. For particulars, address H. H. STEVENS, Dover, Mass.

When writing mention THE FLORIST'S EXCHANGE.

## Cleveland.

**Trade Notes.** The weather for the past ten days has been very dull and unfavorable for retail dealers, but the growers it has benefited. Trade has been normal, with the usual amount of funeral and decorative work. Freesia has been a good crop, so an excellent trade this week, and of every flower be favorable, the hopes of every grower are bright. Prices have been realized.

Roses are an extraordinary stock of plants and cut flowers on the market, which will probably be entirely used up. Prices as follows: 24 and 32 best quality, good color, and sold for considerably higher within the next couple of days. Carnations are selling to be 75 cents now, selling at 75c. to 40c., and will no doubt bring 50c. to 75c. toward the end of the week.

Roses are in good supply, and most varieties selling at \$1 to \$1.50 per dozen, but will reach \$1.50 to \$3 later; Beauty, \$3, \$4, \$5, and \$8 per dozen, very good, and will realize 75c. per dozen. Hybrid is excellent now, and prices will go to \$2 and \$2.50.

Bulb stock is in abundance, and with light demand. Hyacinth, good stock, in \$1.50 to \$2.00 per dozen. An extra good trade is expected in plants, with more than usual demand for the same. Some extra good crops were by J. M. Gasser were seen, the price asked being \$2.00. Prices range from 50c. to 35c. as mentioned. G. A. T.

## Philadelphia.

**Make Ready for Philadelphia.** The past week has been a busy one preparing for Easter. From all indications the business done will be good. The weather has been favorable all day and the nights just cool enough to keep flowering plants in good condition. The growers all appear to be doing well. It is a grover's Easter beyond a doubt. On every corner is seen groups of flowering plants, and the growers are all busy. Some stores have been selling flowering stock all week. These stores have bought their stock in Philadelphia. They have been bought in thousand lots, as late as the hundred. Apparently the plants are selling well, and the growers are all busy. Next week I hope to note the effect this has had upon the florists' trade.

**The Plant Trade.** Prices of plants are about the same as last year. Lilies have sold mostly at 10c. per dozen. The quantity of diseased lilies has been enormous. Growers report losses as high as 50% in some cases. In three cases almost the total loss reported. This was where the bulbs had been heated in coming over.

Hyacinths are as numerous as ever, but in much better condition than formerly, being well headed and very good. The new *Spiraea* antidesis is a good variety, and in three cases very good. Hyacinths in pots and pans are very good this year, and being better headed and in better condition.

Growers of Spring stock have been generally surprised at the large sales made of gladioli and grape hyacinths, such as fuchsias, mignonette, heliotrope, and geraniums. The hucksters and those having stalls on the streets are doing very well with a bloom on it.

Novelties are very few in number. Some new grown gladioli and grape hyacinths have been sent by J. A. Woltemate and are selling well. George Campbell had a house of pelargoniums of assorted varieties; these have all sold well.

## Cut Flowers.

No great advance in prices is looked for. There will be lots of flowers, from all indications. Beauty is now selling at \$1.00 to \$1.50 per dozen. Freesia is selling at the latter figure. Tea roses are being sold at \$8 to \$10 for the best stock. Carnations are selling at \$2 to \$3. These flowers seem to be most uncertain at present, as no one can estimate the quantity to be expected. Indications are that many are being held back.

Smilax appears to be scarce, and is selling at \$1.50 to \$2.00 per dozen. Asparagus strings, 50c. to 75c. Prices on all bulbous stock are rising. Lots of Salvo to 80c. per dozen. Narcissus and tulips go very slow. White flowers are bringing the best prices, and on the whole, the market is better than ever. Very scarce and held firm.

## New Items.

The patrons of the phone are increasing. The latest additions to those

who have put in telephones are John Burton and Edwin Lonsdale, and the most surprising addition is William J. Baker. Both of our patrons I have never heard all along the line.

**SAMUEL B. PENNOCK** also has an addition to his present list, with a bouncing boy at the end of last week.

The past two weeks have been very severe on the part of many on the sick list at present—more than the city has had for a long time. No serious cases are reported. The city of Philadelphia has a bad attack of inflammatory rheumatism. This and the gripe are the chief causes of illness, being, no doubt, brought on by exposure in most cases.

The meeting of the Horticultural Society, the 11th inst., will be very interesting. It is gotten up mostly for the benefit of the florists, and will be a treat for exhibitors, flowers and propagation in the house.

## Seedlings and Certificates.

**Editor Florist's Exchange:** The prolonged and spicy controversy on the subject of the appearance of your columns the past few weeks has been amusing to say the least; and I am of the opinion it has also been instructive to the large number of florists who grow carnations, and I understand that many certificates are given and place more value on varieties so honored.

As my name has been mentioned along with several others who awarded certificates at Cincinnati, I have a good excuse to defend our, or at least my, judgment.

I will pass over Mr. Ward's peevish remarks about the appearance of your columns we can afford to know that Mr. W. could not have felt well when he penned that foolish remark, which was not only a slur on our judgment, but an insult to our country—but that matters not. The personnel of the committee was composed of men having no desire or motive to advance the interest of any variety or its owner, and that is the greatest disappointment with a smile, and try again.

One result of this voluminous controversy, and I understand, is that a variety free of cost, and that should be a great reward for Mr. Ward; for he seems to think that the Horticultural Society is not worth much, if so, then why all this fuss because the judges did not think his variety a certificate variety.

The Carnation Society has done good work, and if every set of judges will be as conscientious and impartial as the judges at Cincinnati, the work will be still more valuable. Many of us have depended on the award given by the society to new varieties, and have not been disappointed; notably Jubilee last year at New York, which has proved to be the greatest acquisition to carnation growers that has appeared in several years. Mistakes may have been made, but the mistakes were made, and it has been on the side of giving every variety the highest praise or a certificate resulting from the society's judgment. I think the case here is mistaken; and in future it should be more so.

It is a pity that the formed, and its mission is not to advance the sales of the growers of new varieties, any more than it is to advance the sales of the present varieties for his business the best there is up to date. I am sure I will be indorsed by 90 per cent. of all the growers who will not say that it is much better to disappoint the raiser of a new variety even if it is worthy of the award given by the society, than to unworthy candidate for public favor. In the first case you have disappointed only one variety, in the second you disappoint many varieties; if it has real merit, will quickly work its way to the front; while, in the latter case, you have disappointed a number of people who cannot afford to spend their hard earned dollars on every fickle fancy of the day, and who really is no better than existing varieties.

Mr. Graham said in his letter that judges could not be expected to present a list of flowers, now considered the best. I cannot conceive of any other rule to go by. The judges at Cincinnati were not conscientious, both old and new, any one of which would, six years ago, have been well worth the price of a flower. It is their excellence would have been a decided

advance on existing varieties. The flowers we have to-day are a great improvement on those of six or seven years ago, and unless a variety is better than the present, it is inferior more or less in advance of those already grown, what right has it to a certificate?

As far as Mr. Ward's individual case is concerned, I can throw some light on that, and I think it will be benefited by it. One of his exhibits came out very well. The number of points, but by the most liberal allowances fall far below the required number that Mr. Ward has. In high opinion of his pet flower, the judges went over the difference of the flower again, and still it was deficient. This was not a "biased judge," but most impartial; for the judges were I am sure, have been pleased if they could have given the required number of points, 85. To make sure that their judgment was not erroneous, they called in an eminent grower of New England, and without a word let him figure up what he thought the flower was worth. His estimate didn't reach 70 points; that settled it.

Mr. Ward was not the only one disappointed, but I have not heard of any number of our friends from Ohio quarters.

Whatever the mistakes our society has made in the past, the judges at Cincinnati are not responsible; and if the judges of the future will be as impartial and just to the exhibitor as the courts of growth. The men at Cincinnati, there will be less heard of "this being no good," and the other "being a fraud," and the required number of points will be valued not only by the raiser, but by the great majority of growers.

## Singerland, N. Y.

Fred Goldring has had big success with *Martha Louisa* violet; in fact they have cropped heavily and continuously right through the season. At time of writing the plants are in the country of growth, of splendid color and size, and are doing very well. The plants are doing very well, being cleaned the plants and removing the flowers, and the plants are doing very well. The plants are doing very well, being cleaned the plants and removing the flowers, and the plants are doing very well. The plants are doing very well, being cleaned the plants and removing the flowers, and the plants are doing very well.

When writing mention THE FLORIST'S EXCHANGE.

When writing mention THE FLORIST'S EXCHANGE.

When writing mention THE FLORIST'S EXCHANGE.

When writing mention THE FLORIST'S EXCHANGE.

When writing mention THE FLORIST'S EXCHANGE.

When writing mention THE FLORIST'S EXCHANGE.

When writing mention THE FLORIST'S EXCHANGE.

When writing mention THE FLORIST'S EXCHANGE.

When writing mention THE FLORIST'S EXCHANGE.

When writing mention THE FLORIST'S EXCHANGE.

When writing mention THE FLORIST'S EXCHANGE.

When writing mention THE FLORIST'S EXCHANGE.

When writing mention THE FLORIST'S EXCHANGE.

When writing mention THE FLORIST'S EXCHANGE.

When writing mention THE FLORIST'S EXCHANGE.

When writing mention THE FLORIST'S EXCHANGE.

When writing mention THE FLORIST'S EXCHANGE.

When writing mention THE FLORIST'S EXCHANGE.

When writing mention THE FLORIST'S EXCHANGE.

When writing mention THE FLORIST'S EXCHANGE.

When writing mention THE FLORIST'S EXCHANGE.

When writing mention THE FLORIST'S EXCHANGE.

When writing mention THE FLORIST'S EXCHANGE.

When writing mention THE FLORIST'S EXCHANGE.

When writing mention THE FLORIST'S EXCHANGE.

When writing mention THE FLORIST'S EXCHANGE.

When writing mention THE FLORIST'S EXCHANGE.

When writing mention THE FLORIST'S EXCHANGE.

When writing mention THE FLORIST'S EXCHANGE.

When writing mention THE FLORIST'S EXCHANGE.

When writing mention THE FLORIST'S EXCHANGE.

When writing mention THE FLORIST'S EXCHANGE.

When writing mention THE FLORIST'S EXCHANGE.

When writing mention THE FLORIST'S EXCHANGE.

When writing mention THE FLORIST'S EXCHANGE.

When writing mention THE FLORIST'S EXCHANGE.

When writing mention THE FLORIST'S EXCHANGE.

St. Louis.

Market News. There was fair trade last week in all the market stock on hand to meet all current demands. On several days it seemed as if a glut was inevitable...

CHRYSANTHEMUMS

See last issue of Florists' Exchange for some especially valuable varieties. A large stock of R. C. and 2 and 3/4 inch pot plants. Send list of wants for best prices. Violet Carnations. Bound to become popular on account of its good points...

LADY CAMPBELL

Free on spot, will divide into from 5 to 15 plants, \$2.00 per 100. T. H. WORTON, Hightstown, N. J.

CHRYSANTHEMUMS.

Best standard commercial varieties, from pots. 1 1/2 inch round, 2 1/2 inch round, 3 1/2 inch round, 4 1/2 inch round, 5 1/2 inch round, 6 1/2 inch round, 7 1/2 inch round, 8 1/2 inch round, 9 1/2 inch round, 10 1/2 inch round, 11 1/2 inch round, 12 1/2 inch round, 13 1/2 inch round, 14 1/2 inch round, 15 1/2 inch round, 16 1/2 inch round, 17 1/2 inch round, 18 1/2 inch round, 19 1/2 inch round, 20 1/2 inch round, 21 1/2 inch round, 22 1/2 inch round, 23 1/2 inch round, 24 1/2 inch round, 25 1/2 inch round, 26 1/2 inch round, 27 1/2 inch round, 28 1/2 inch round, 29 1/2 inch round, 30 1/2 inch round, 31 1/2 inch round, 32 1/2 inch round, 33 1/2 inch round, 34 1/2 inch round, 35 1/2 inch round, 36 1/2 inch round, 37 1/2 inch round, 38 1/2 inch round, 39 1/2 inch round, 40 1/2 inch round, 41 1/2 inch round, 42 1/2 inch round, 43 1/2 inch round, 44 1/2 inch round, 45 1/2 inch round, 46 1/2 inch round, 47 1/2 inch round, 48 1/2 inch round, 49 1/2 inch round, 50 1/2 inch round, 51 1/2 inch round, 52 1/2 inch round, 53 1/2 inch round, 54 1/2 inch round, 55 1/2 inch round, 56 1/2 inch round, 57 1/2 inch round, 58 1/2 inch round, 59 1/2 inch round, 60 1/2 inch round, 61 1/2 inch round, 62 1/2 inch round, 63 1/2 inch round, 64 1/2 inch round, 65 1/2 inch round, 66 1/2 inch round, 67 1/2 inch round, 68 1/2 inch round, 69 1/2 inch round, 70 1/2 inch round, 71 1/2 inch round, 72 1/2 inch round, 73 1/2 inch round, 74 1/2 inch round, 75 1/2 inch round, 76 1/2 inch round, 77 1/2 inch round, 78 1/2 inch round, 79 1/2 inch round, 80 1/2 inch round, 81 1/2 inch round, 82 1/2 inch round, 83 1/2 inch round, 84 1/2 inch round, 85 1/2 inch round, 86 1/2 inch round, 87 1/2 inch round, 88 1/2 inch round, 89 1/2 inch round, 90 1/2 inch round, 91 1/2 inch round, 92 1/2 inch round, 93 1/2 inch round, 94 1/2 inch round, 95 1/2 inch round, 96 1/2 inch round, 97 1/2 inch round, 98 1/2 inch round, 99 1/2 inch round, 100 1/2 inch round.

Market Plants.

In the selection of the following varieties we have included those of pleasing color and of dwarf yet sturdy growth: EARLY. per 100 Domination, white, ..... \$3 Ivory, ..... 3 Marion Henderson, yellow, 3 Miss M. M. Johnson, 3 Glory of Pacific, pink, ..... 3 Pink Ivory, ..... 3 MIDSEASON. Mutual Friend, white, \$3 Mrs. H. McK. Twombly, 3 Major Bonaffon, yellow, 3 Mrs. C. B. Freeman, 5 Vivand-Moré, pink, 3 Zulinda, 3 Red Warrior, bronze, 6 John Shrimpton, red, ..... 3 LATE. Yanoma, white, ..... \$5 Mrs. Jerome Jones, white, 3 H. W. Rieman, yellow, 4 W. H. Lincoln, ..... 3 Francis B. Hayes, pink, ..... 8 Ciebeague, ..... 6

FOR Market Plants.

FOR Market Plants.

FOR Market Plants.

FOR Market Plants.

FOR Market Plants.

FOR Market Plants.

FOR Market Plants.

FOR Market Plants.

FOR Market Plants.

FOR Market Plants.

FOR Market Plants.

FOR Market Plants.

FOR Market Plants.

FOR Market Plants.

FOR Market Plants.

FOR Market Plants.

FOR Market Plants.

FOR Market Plants.

FOR Market Plants.

FOR Market Plants.

PANSIES

Small plants once transplanted, \$3.00 per 100. 50 cts. per 10 by mail. \$2.50 per 100 in bloom. NY ornamental strains. VINOLO variegata, strong October tips, \$3.00 per 100. Will exchange for St. L. Violets. W. J. ENGLE, Box 211, Dayton, O.

CYCLAMEN.

Finest grandiflorum splendens in assorted colors, 2 1/2 inch pots, strain extra strong and healthy. \$6.00 per 100; \$50.00 per 1000.

CYCLAMEN.

(STOEDT'S STRAIN) Pink, white, red. 2 1/2 in. Pots, \$5.00 per 100, Cash. EDWIN A. SEIDEWITZ, 36 W. LEXINGTON ST., BALTIMORE, MD.

LEHNIG & WINNEFELD,

HACKENSACK, N. J. WHEN WRITING MENTION THE FLORIST'S EXCHANGE.

E. G. HILL & CO., RICHMOND, IND.

YOUNG CYCLAMENS from the finest English prize strain

In color to name, from 2 inch pots, \$4.00 per 100.

Strong young plants of HYDRANGEA Otakusa and Ramis Picta. \$3.00 and \$4.00 per 100, according to size.

THE NEW DAISY Madam Graellert. Every florist should have a stock of this fine plant. \$4.00 per 100.

THE FRENCH DAISY Madam Farfaillon. Try a dozen of this; only 50 cts. per doz.

CHRYSANTHEMUMS by the 100 or 1000. Just the kinds every florist needs for cut flower purposes. Bergmann, Fitzgram, Marion Henderson, Modesto, Mrs. Perrin, Mrs. Murdoch, and every other good one in quantity. Price as low as any for good stock.

IVY GERANIUMS. Unquestionably the finest and best collection in the country. You should see them. 100 of these in 10 new varieties for \$6.00.

E. G. HILL & CO., Richmond, Ind.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

LARGEST AND FINEST VERBENA STOCK

BEST MAMMOTH, rooted cuttings, ..... per 100, \$1.25; per 1000, \$10.00  
BEST MAMMOTH, rooted cuttings, ..... " 3.00 " 25.00  
BEST MAMMOTH, strong pot plants, ..... " 2.50 " 25.00  
OLD MAMMOTH, strong pot plants, ..... " 2.00 " 20.00

STRONG CARNATIONS ROOTED CUTTINGS

Armandy, Ivory, Della Fox, Triumph, ..... per 100, 1000.  
Buttercup, M. H. Stanley, ..... 5 30 40 00  
Bridesmaid, Meteor, Storm King, Eldorado, Albertini, Alanks, Day-break, Paritana, ..... 20 15 00  
Dean Hole, Buntan d'Or, ..... 2 50  
Thos. Cartledge, ..... 2 00  
Lizzie McArthur, Portia, Wm. Scott, 1.50 12 50

STRONG ROOTED CUTTINGS.

Ageratum, blue and white, ..... \$1.25 \$10.00  
Colesa, all leading colors, ..... 1 00 10 00  
Fuchsia, double and single, ..... 2 00 20 00  
Everfew, Dwarf Gem, ..... 2 00 15 00  
Heliotropes, light and dark, ..... 1 25 10 00  
Moon Flower, true, ..... 2 00 15 00  
Salvia, Splendens and Wm. Bodman 1.25 10 00

STRONG ROOTED CUTTINGS.

Ageratum, blue and white, ..... \$1.25 \$10.00  
Colesa, all leading colors, ..... 1 00 10 00  
Fuchsia, double and single, ..... 2 00 20 00  
Everfew, Dwarf Gem, ..... 2 00 15 00  
Heliotropes, light and dark, ..... 1 25 10 00  
Moon Flower, true, ..... 2 00 15 00  
Salvia, Splendens and Wm. Bodman 1.25 10 00

WOOD BROS., Fishkill, N. Y.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

The Easter Outlook.

Indications are not flattering as to large quantities of flowers for the Easter trade. There is no longer a doubt about the lily shortage. It is now an assured fact, and florists who did not order early are anxiously looking over the grounds for plants, but little prospect of securing them. Carnations are generally of crop and if the demand is as active this season as last year, the price will be the minimum. There will be enough bulbous stock to fill all orders. Smilax is scarce.

Chrysanthemum Show.

The committee in charge of the Chrysanthemum show held a meeting last Thursday night and closed the preliminary list for this year's show. The committee decided upon enclosing Music Hill in the Exposition Building, in preference to the East Side, as was suggested some time ago, their selection meets with the approval of the entire fraternity.

Florist's Club Notes.

The regular monthly meeting of the Club was held last Thursday afternoon. The attendance was light. The feature of the meeting was the essay of Dr. S. Halsted, on "Growing Chrysanthemums for Exhibition Purposes." The members attended him quite an ovation, and ordered him a vote of thanks.

The St. Clair Floral Co. had an exhibition of their new and beautiful stock of bunches of fine Katerina. Ude, of Kirkwood had a fine vase of carnations. Frank Phillips exhibited a fine vase of fine assorted roses, and Geo. M. Kellogg, of Pleasant Hill, Mo., had on exhibition a lot of very fine American Beauty.

W. GUR, of Belleville, is still on the sick list.

Grand Rapids, Mich.

The latest meeting of the Grand Rapids Florists' Club was principally devoted to a discussion on how to make the next club meeting show successful, especially from a financial standpoint. Many suggestions were made, however, the next club meeting will be held on the 21st inst. The gentlemen composing this club are: Wm. Cunningham, S. E. Crabb, Fred W. G. M. Croelmann, S. H. Henry Smith, N. B. Stover and Mr. Good.

It was reported that all the florists are well supplied with good, healthy Easter stock and that the stock will be devoted to "Bedding Plants," and the president named Mr. Croelmann to prepare a paper on that subject.

W. CROELMANN.

W. CROELMANN.

W. CROELMANN.

W. CROELMANN.

Yours is a good paper to advertise for our business. BENEY S. BURT & SONS, Hightstown, Pa., June 1, 1896.

NATHAN SMITH & SON, ADRIAN, MICH.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

Syracuse, N. Y.

Brooklyn, N. Y.

Trade News. Business during the past week was up to the top notch, several florists say it was one of the busiest weeks they ever had.

F. H. EBELING, the leading seedman here, reports that it is a rare case that the average, there being a great demand for flower seeds of the ordinary garden kinds. The market will be more active, Mr. Ebeling does a large business in farm seeds, he says there is a steadily increasing demand for clover and other forage seeds in this section.

All signs point to an immense Easter trade among the florists. A lot from the different places found stock in splendid shape and plenty of it, with the exception of the roses, which will be scarce, and possibly there will not be sufficient roses to go around.

P. R. QUINTAN, who has built a large extension at the rear of his down town store to accommodate Easter trade. A New Adamium.

Adiantum Bardii is the name Peter Crowe, of Utica, has given to a fern which originated with him as a chance seedling. It is supposed to be a cross between A. cucullatum and A. capillus-veneris. It could take too much credit to record many excellent qualities, but it looks as if it might take the place of A. cucullatum in a greenhouse. It is a more luxuriant fern, strong wiry stems, is taller and stronger than cucullatum, while retaining the character of the latter, the name named it in honor of his friend, Robert Bard, of this city. C. BARSON.

Buffalo.

Easter Preparations. The store windows begun to show a very much "trimmed up" appearance, the decorations are the products of the florists. In many cases in a lavish manner, being quite noticeable. It is not overdue. Respectively in the florists, the display of carnations, which has been quite low, will be much below the average. Violets are somewhat early but will be well shown. Has been taxed unduly by recent heavy crops. A year ago a dearth of roses existed in these parts, which put the florists comparatively different this year. To look about some growers' list, it would seem as though, though all lilacs would be in blossom, they still is hard letting. A few of the remaining plants, which show a marked difference in the product of certain cases where their flowering is somewhat ahead to that of the plants they represent to note, the prevalent disease is making sad inroads on results, and very materially reducing the profits. It is a pity that the nurseries of this built at the present time, they seem a real shameful pity that such an amount of growing material be carried through the season, only to prove, after the investment is increasing in daily expenses, that a poor quality of bulbs is being nursed, finally to be dumped, and too late for anything else to occupy its place profitably.

Some fine hydrangeas are seen in more abundance than in most years. J. G. Pickens has several varieties in stock, some of the finest that are seen come from George E. Fancourt, of Wilkesbarre, Pa. His stock like earlier ones, is very good, and, etc., seems to be fully up to the usual standard in supply and quality. No doubt, if you order your stock from him you will get a nice business will be done. Entreprises and Fillings.

J. H. REBESOCK has taken, for a few days, the store at 51st Street, and he will also use the second store, located two doors from his regular Main Street location, for handling any over.

ANDY ADAMS will move, May 1st, to 452 Main Street, there to occupy a portion of a warehouse store.

W. F. KASTING, the commission man, 493 Washington street, has purchased the stock of supplies formerly handled by D. B. Long and will thereafter incorporate with his flower business, occupying the same location, thus giving him a large store. He intends to devote his full attention to the wholesale bulb trade and importing business, but will continue to handle some plant stock in a jobbing and brokerage way. Needless to say, also, his noted florists' photographic specialty will receive more needed attention.

A second recent sad bereavement of Mr. S. G. Armstrong is a great loss to the florist, the death of his widowed mother, Mrs. Juliette P. Anderson, at the age of fifty-three years, which occurred on Tuesday, after an illness of long standing.

Mr. PEARCE, of Pontiac Floral Company, Pontiac, Michigan, called on Wednesday.

V.I.D.

The outlook for Easter trade, especially in flowering plants, is particularly bright. Immense supplies of plants have been laid in this respect. The plants have been more elaborate and tasteful displays. There is not so great a tendency this year as last to use a large quantity of flowers to hide the pots, with broad silk ribbon of harmonizing tint to further enhance the decoration.

The perennial parterres of flowering stock are in the street sellers are beginning to make their appearance. However no other city can equal Brooklyn in this respect. The plants have already begun busy plying his vocation, his wares evidently finding a ready sale.

Another flower grower has opened up here recently. Among them are the following:

H. MEYER at 1214 High St.; JOHN F. RUDY, 492 Sumner ave.; DWYER & CARROLL, 81 Summit St.; McMAHON & CASHFIELD, 138 Columbia St.; HENRY E. WOODRUGH, 146 S. Chester St.; LIZS ZINN, 794 Lexington ave.; M. DAZER & Co. 602 Washington St.; DICKSON & HAMILTON, 110 Bedford ave.; CHAS. F. HUNWICK, near J. Jackson and near N. W. of The Arlington, at 415 Tompkins ave.

Westerly, R. I.

S. J. KRUTER will commence immediately after Easter the construction of a six house, each 200x20 feet, for roses, it being his intention to turn the whole of the existing ground into a nursery, for which he will require from twenty-five to thirty thousand plants, the greater portion of which are already rooted off. To see the superb Daybreak, Alaska and McEwan being picked, every bloom fit to give cover in any class were good enough. Mr. Reuter, however, thinks nothing is too good for the Boston market, in addition to several promising seedlings of his own raising he is experimenting with twenty-one new kinds, hoping to secure something better than he already has.

A new ventilating apparatus, an invention of his of the village of Orange, N.Y. principle, without arms or chain, most simple, cheap and highly effective, will be used in his new house. And those who are on the lookout for a good thing should not fail to see it in conjunction with this model plant, which will be finished by August. Mr. Reuter cordially invites all his friends and fellow-craftsmen to visit him at convention time, and see for a hearty welcome to one of the cleanest and quietest to see in New England. Those desiring to stop off, may go to Providence, or make a special trip from that city, and no one will regret doing so.

FERNS... Varieties Suitable for Fish Dishes, etc. ADIANTUM CUCULLATUM, 1 inch, \$5.00 per doz. Fine bushy stock. Cash with Order. CHAS. F. BAKER, Utica, N. Y.

Palms

Decorative Plants... Sent for in wholesale lots. Special prices for large orders, and prompt delivery. W. J. HERRICK... WHEN WRITING MENTION THE FLORISTS' EXCHANGE

ORCHIDS and GREENHOUSE PLANTS... FOR SALE... Having disposed of several of my Greenhouses and the remainder here are now offered. I have decided to offer for sale the excess, consisting of the greater portion and the choicest specimens of my collection for the past 20 years...

Palms

Decorative Plants... Sent for in wholesale lots. Special prices for large orders, and prompt delivery. W. J. HERRICK... WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Palms

Decorative Plants... Sent for in wholesale lots. Special prices for large orders, and prompt delivery. W. J. HERRICK... WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Nephrolepis Exaltata Bostoniensis.

In large and small quantities for Spring delivery, at \$40.00 to \$80.00 per 1000. Mine is the genuine stock.

FRED C. BECKER, - - - 1730 Cambridge Street, CAMBRIDGE, MASS. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

ORCHIDS FOR CUTTING.

The Largest and Finest Stock in the World. T. SANDER & CO., St. Albans, England. (Bruges, Belgium.

Agent, A. DIMMICK, care of Weber & Don, Seedsmen, 114 Chambers St., N. Y. City. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Palms and Ferns.

THE LARGEST STOCK IN THE WORLD. GEO. WITTBOLD, 1709 N. Halsted St. CHICAGO. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

P. OUWERKERK.

1123 Summit Ave., Jersey City, N. J. Just received from our Holland Nurseries:

RHODODENDRONS, AZALEAS, SPIRÆA JAPONICA, LIMNOSPECIUM, PEONIES, BLEEDING HEART, POT GROWN LILACS, HYDRANGEA IN SORTS.

CLEMATIS and H. P. ROSES, in the best sorts. PRICES MODERATE.

FINE STOCK OF PALMS

Table listing various palm species and prices: ARGEA LUTEA, LANTANA BORNIENSIS, KENTIA FORSTERIANA, BELMORONIA, CYPRIPES ELASTICA, etc.

When writing mention the florists' exchange. JOHN BADER, Allegheny City, Pa.

Nephrolepis Exaltata Bostoniensis.

THE BOSTON DRIPPING FERN. Mine is the Genuine Stock. Now ready or orders booked for June to August delivery. Strong plants at \$10.00, \$20.00, \$30.00, \$40.00, \$50.00 and \$60.00 per 1000, and \$25.00 and \$30.00 per 500.

L. H. FOSTER, 45 King St., Dorchester, Mass. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

GOOD STOCK. LOW PRICES.

Table listing plants and prices: Pandanus Vitell, Arcea Lutescens, Kentia Belmfontiana, Lantana Borniensis, etc.

# Galax Leaves.

CHAS. H. RICKSECKER, Linville, N. C.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**SNIPS THEM** The best for Florida, Florida, California, etc. is Kelly's Florists' Shears and Clippers. **FLORISTS' SHEARS** and **CLIPPERS** made in the U.S.A. **WHEN WRITING MENTION THE FLORISTS' EXCHANGE**

**HAVE YOUR COLLECTIONS MADE THROUGH THE NATIONAL FLORISTS' BOARD OF TRADE, 271 BROADWAY, NEW YORK.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**WELCH BROTHERS, DEALERS IN FLORISTS' SUPPLIES, No. 4 Beacon Street - BOSTON.**  
Wire Designs, Wheat Sheaves, Baskets, Imported, Cane Flowers, Cut Flowers, Boxes, and all other supplies, at prices to meet competition.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## CANE PLANT STAKES

3 to 6 ft., per 1000, \$3.00.  
6 to 8 ft., " " 3.00.  
Ready Now. Cash with order. Will ship light, because well dried.  
**W. W. HENDRIX, Bowling Green, Ky.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CHOCOLATE COOLER CO., GRAND RAPIDS, MICH.**  
Manufacturers of

**FLORIST'S REFRIGERATORS.**  
Send for Circular.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## RAFFIA

Of Best White Quality, Braided. Direct from the Packers in Madagascar.

Apply for quotations to **ANDRE L. CAUSSE, 105-107 Hudson St., New York.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**PAPER AND TWINE.** Toothpicks. Paper Bags. Waxed and Tissue Papers—all sizes.

**H. A. SOHL, 147 E. 42d St., NEW YORK.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Boston Florist Letter Co.**  
Manufacturers of **FLORISTS' LETTERS.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

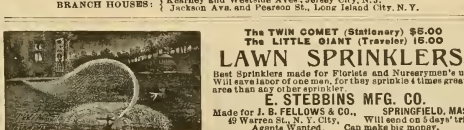
Each wrapper box nicely printed and varnished, 18x30 1/2 made in two sections, one for each side letter, given with that one of 500 letters. Black Letters, 1 1/2 or 2 each also, per 100, \$3.00. Royal Letters, \$4.00. Furnish with each letter or word. Each by leading florists everywhere and for sale by all wholesale florists and supply dealers.  
**N. F. McCARTHY, Treas. & Manager, 20 CENT ST., BOSTON, MASS.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# FLOWER POTS

We are Manufacturing a Full Line of **STANDARD FLOWER POTS and HANGING BASKETS OF THE BEST QUALITY.**  
Shipping Facilities First-Class, thereby securing Lowest Freight Rates. Our goods are well packed, and breakage is nominal. Give us a trial. Send for Price List.

**Address THE SYRACUSE POTTERY CO., 403 N. SALINA ST., SYRACUSE, N. Y.**  
**Standard Flower Pots.**  
Send for our New Price List with extra discounts. All our Pots, from 7 in. and upwards, have our Patent Elevator Bottom, which is a great advantage, as it insures perfect drainage.  
A FULL LINE OF BURLS PATENT.  
**THE WILLIDIN POTTERY CO., 718 & 719 Wharton Street, PHILADELPHIA.**  
BRANCH HOUSES: Kearney and Westside Aves., Jersey City, N. J.; Jackson Ave. and Pearson St., Long Island City, N. Y.

**THE TWIN COMET (Stationary) \$5.00**  
**THE LITTLE GIANT (Traveller) 16.00**  
**LAWN SPRINKLERS.**  
Best Sprinklers made for Florists and Nurserymen's use. Will save a score of men, for they operate a fifteen greater area than any other sprinkler.  
**E. STEBBINS MFG. CO.**  
Made for J. B. FELLOWS & CO., SPRINGFIELD, MASS.  
69 Warren St., N. Y. City. Will send on 3 days' trial. Agents Wanted. Can make by money.



## THE JOHN J. PETERS COMPANY

**PULVERIZED (INCORPORATED) COMPRESSED**  
A Quick Germinator and Crop Former.  
Beats Every Chemical Fertilizer on Earth.



FACTORY: Little Ferry, New Jersey.  
OFFICE: Long Island City, New York.  
NATURAL. ODORLESS. CLEAN TO HANDLE.  
Matures the largest and best crops. Quick and lasting in its action.

# "JADOO"

"Jadoo" Fibre!  
A new potting material.  
Seeds germinate more quickly than in earth.  
Greater perfection easily attained.  
Suits all kinds of plants.  
Is much lighter than earth.  
Less frequent watering required.

Protected by Letters Patent.  
Concentrated "JADOO" LIQUID is the cheapest Fertilizer sold. Both meat and drink to Plants. Revives drooping Plants, strengthens the weak and nourishes the strong; above all, it increases the size, causes greater profusion of bloom, and heightens the colors of all Flowers and Plants. Can be used on Flowers or Plants, that are grown in Earth or "JADOO" FIBRE.

**SIMPLY INVALUABLE IN POT CULTURE!**

For testimonials (both Foreign and American) and prices, apply to

**THE AMERICAN JADOO CO., 811, 813, 815 Fairmount Ave., PHILADELPHIA, PENNA.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

It costs 6 cents for each 900 feet of gas paper.  
**Kill AND SAVE THE BUGS!**  
Does not injure the most sensitive plants. Endorsed by prominent florists. Used for fumigation on spraying indoors or out. 100 pounds of tobacco in one pint of Nikotee. Sold by ex-cessive. Circular free. **SKAUBER OF CO., CHICAGO.**  
**Nikotee**  
Quickly Does It.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Tobacco Stems**  
Large Bags (50 lbs.) \$1.50  
**STRONG AND FRESH**  
Tobacco Dust, 2c. per lb.  
Raffia, the best material for tying, does not injure the plants; it gets further and is cheapest; first quality long fibre at 1 lb. \$1.00; 100 lbs.

**H. G. FAUST & CO., 61 & 66 N. Front St., Philadelphia, Pa.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**THE BEST FOR ALL Florists.**  
**ROSE LEAF EXTRACT OF TOBACCO INSECTICIDE**  
FOR SALE BY Seed Stores.  
For Free Sample, write to **LOUISVILLE FLORIST TRADE TOBACCO CO., Louisville, Ky.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**STANDARD FLOWER POTS.**  
We manufacture a full line of standard Flower Pots, Seed Pans, Cylinders, glazed and unglazed. For out growers; Lawn Vases and Hanging Baskets.  
Send for price list before ordering elsewhere. Address **111 F. ENGINEER BLDG., Fort Edward, N. Y.,** or **ALSTON MARKETING THE FLORISTS' EXCHANGE, 138 & 138 W. 24th St., N. Y. City.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**STANDARD FLOWER POTS.**  
We are now ready to supply a superior quality of Pots in unlimited quantities. Catalogues and price lists furnished on application.  
**A. H. HEWES & CO., NORTH CAMBRIDGE, - MASS.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**SCOLLAY'S IMPROVED PUTTY BULB**  
For Glazing Sash, Etc., - ALSO THE PATENT PLANT SPRINKLER  
For sale by your Seedsmen or sent, postpaid for \$1.00.  
**JOHN A. SCOLLAY, 91 & 93 Myrtle Ave., BROOKLYN, - N. Y.**  
SEND STAMP FOR CATALOGUE  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Neponset Flower Pots**  
of Waterproof Paper, are sold as follows:  
Terms—Net cash with order. If ordered shipped by freight, add 50 cents enroute.  
Packed in Gross Weight  
Size of pot per 1000 pots Per 100 Per 1000  
1 1/2 inch..... 1000..... 20 lbs..... \$6.30..... \$2.50  
2..... 1000..... 28..... 30..... 2.50  
3..... 1000..... 38..... 40..... 2.50  
4..... 1000..... 48..... 50..... 2.50  
5..... 1000..... 58..... 60..... 2.50  
6..... 1000..... 68..... 70..... 2.50  
Standard Pot Measure, 1000 15 20  
Less quantities than Full crates at 100 rates.

**FOR SALE BY**  
**F. W. HIRD & SONS, Manufacturers.**  
Address orders to our General Agents,  
**August Rölker & Sons, New York, P. O. Station E.**  
or **E. J. PARQUEUR & CO., Boston, Mass. Eastern Agent.**

**J. K. ALLEN,**  
Wholesale Commission Dealer in  
**CUT FLOWERS,**  
57 W. 28th St., New York.  
Orders by mail or telegraph promptly attended to.  
Telephone Call, 882 28th St.  
**ROSES AND VIOLETS SPECIALTIES.**

**W. S. ALLEN,**  
17 West 28th St., New York.  
Correspondence Solicited.

**FITZGERALD & HAMMOND,**  
(Late with F. W. Rossmo),  
Wholesale Commission Dealers in  
**CUT FLOWERS,**  
115 West 30th Street,  
Consignments Solicited. NEW YORK.

**FORD BROS.**  
**WHOLESALE FLORISTS,**  
111 West 30th Street,  
NEW YORK.  
Consignments Solicited. Telephone 202 29th St.

**WM. H. CUNTER,**  
**Wholesale Florist**  
VIOLETS AND CARNATIONS A SPECIALTY.  
Consignments Solicited.  
30 West 29th St., New York.  
Telephone, 300-29th Street.

**MICHAEL A. HART,**  
**Wholesale & Commission Florist,**  
118 W. 30th St., New York.  
Telephone Call, 107 30th St.  
All kinds of Roses, Violets and Carnations a specialty.  
**ORDERS PROMPTLY ATTENDED TO.**

**H. A. HOFFMANN,**  
**Wholesale Florist**  
54 W. 28th St., NEW YORK.  
Telephone Call, 187 28th St.  
American Beauties, Carnations, White Violets, Specialties. **CONSIGNMENTS SOLICITED.**

**EDWARD C. HORAN,**  
**WHOLESALE FLORIST,**  
No. 34 W. 28th St., New York.  
The Bride, Mornet and American Beauty Specialties.

**JULIUS LANG,**  
**Wholesale Florist**  
53 WEST 30th ST.  
Consignments Solicited. NEW YORK.

**FRANK HILLANG,**  
**Wholesale Commission Dealer**  
...in Cut Flowers....  
408 East 34th St., New York City.  
Telephone Call, 164-38th.

# EASTER! APRIL 18th EASTER!

CUT FLOWERS, SMILAX, and FERNS, HARRISII, CALLAS, TULIPS, HYACINTHS, ROSES, CARNATIONS, VALLEY, DAFFODILS, ETC.

We are ready to quote prices on all Cut Flowers. All orders promptly attended to. Write us  
**W. E. LYNCH, 19-21 Randolph St., CHICAGO, ILL.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## CHAS. W. McKELLAR, WHOLESALE COMMISSION FLORIST

We are prepared to take best of care of Easter orders. Will have full supply of all seasonable flowers. Give us a list of your wants. Have also  
**FLORISTS' SUPPLIES, WIRE WORK, Etc. Consignments Solicited,**  
Telephone, Main 1129.  
**45, 47, 49 WABASH AVENUE, CHICAGO, ILL.**  
ED. J. WINDERSON, Manager.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

### WHOLESALE FLORIST

NAMES AND VARIETIES.	NEW YORK	NEW YORK	PHILADELPHIA	CHICAGO	ST. LOUIS
	Apr. 18, 1897	Apr. 14, 1897	Apr. 14, 1897	Apr. 14, 1897	Apr. 14, 1897
A. Beesly, fancy and special.	20.00 to 40.00	35.00 to 50.00	47.00 to 50.00	39.00 to 40.00	40.00 to 39.00
" extra .....	20.00 to 25.00	30.00 to 30.00	" 25.00 to 30.00	15.00 to 20.00	20.00 to 25.00
" No. 1500 .....	8.00 to 12.00	" 8.00 to 12.00	" 8.00 to 12.00	" 8.00 to 12.00	" 8.00 to 12.00
" Culls and ordinary .....	1.00 to 1.00	8.00 to 18.00	3.00 to 3.50	5.00 to 8.00	3.00 to 3.00
Berrett, Dublin .....	2.00 to 3.00	4.00 to 12.00	2.00 to 2.50	3.00 to 3.50	3.00 to 3.00
Birds .....	2.00 to 5.00	4.00 to 13.00	3.00 to 3.50	6.00 to 8.00	4.00 to 37.00
Bridalmaid .....	3.00 to 8.00	4.00 to 13.00	5.00 to 10.00	5.00 to 8.00	4.00 to 8.00
Jacqueline .....	2.00 to 3.00	10.00 to 25.00	3.00 to 3.50	3.00 to 3.50	3.00 to 3.00
K. A. Victoria .....	" to 1.00	10.00 to 25.00	10.00 to 12.00	3.00 to 4.00	4.00 to 10.00
" and Prince, same .....	" to 1.00	10.00 to 25.00	10.00 to 12.00	3.00 to 4.00	4.00 to 10.00
" ordinary .....	" to 1.00	" to 1.00	" to 1.00	" to 1.00	" to 1.00
Magns Chab .....	" to 1.00	" to 1.00	" to 1.00	" to 1.00	" to 1.00
Mrs. Testout .....	" to 1.00	" to 1.00	6.00 to 8.00	4.00 to 7.00	6.00 to 8.00
Metzer .....	3.00 to 8.00	4.00 to 10.00	3.00 to 3.50	4.00 to 6.00	4.00 to 8.00
Mrs. F. Wagon .....	1.50 to 3.00	" to 1.00	3.00 to 4.00	3.00 to 7.00	4.00 to 8.00
Nipheton, Hoste .....	1.50 to 3.00	" to 1.00	3.00 to 4.00	3.00 to 7.00	4.00 to 8.00
Paq. Gaudin .....	" to 1.00	" to 1.00	3.00 to 4.00	3.00 to 7.00	4.00 to 8.00
Pelle .....	1.50 to 3.00	2.00 to 6.00	4.00 to 6.00	4.00 to 6.00	4.00 to 6.00
Ruby de Noctun .....	" to 1.00	" to 1.00	" to 1.00	" to 1.00	" to 1.00
Ulrich Brunner .....	3.00 to 15.00	12.00 to 55.00	12.00 to 25.00	" to 1.00	" to 1.00
Wattville .....	" to 1.00	" to 1.00	" to 1.00	" to 1.00	" to 1.00
WATERBURY .....	" to 1.00	" to 1.00	" to 1.00	" to 1.00	" to 1.00
YACQUINE .....	" to 1.00	" to 1.00	" to 1.00	" to 1.00	" to 1.00
ASPARAGUS .....	" to 50.00	" to 50.00	" to 50.00	50.00 to 75.00	50.00 to 60.00
CALLA .....	5.00 to 15.00	" to 10.00	" to 10.00	10.00 to 8.00	12.00 to 10.00
" All colors, inferior grades .....	75 to 1.00	" to 1.00	75 to 1.00	75 to 1.00	1.50 to 1.50
" All colors, standard .....	1.50 to 2.00	2.00 to 4.00	1.50 to 2.50	1.50 to 2.00	2.00 to 2.00
" STANDARD .....	1.50 to 2.00	3.00 to 4.00	1.50 to 2.50	1.50 to 2.00	2.00 to 2.00
" VARIETIES .....	1.50 to 2.00	2.00 to 4.00	1.50 to 2.50	1.50 to 2.00	2.00 to 2.00
" *FANCY .....	1.50 to 2.00	2.00 to 4.00	1.50 to 2.50	1.50 to 2.00	2.00 to 2.00
" *VEL & VARIO .....	1.50 to 2.00	2.00 to 4.00	1.50 to 2.50	1.50 to 2.00	2.00 to 2.00
" *GRIPES GRAND .....	2.00 to 4.00	4.00 to 8.00	2.00 to 4.00	2.25 to 2.50	2.50 to 2.50
" *GRIPES (small) .....	4.00 to 8.00	4.00 to 8.00	2.00 to 4.00	2.25 to 2.50	2.50 to 2.50
" *GRIPES (large) .....	4.00 to 8.00	4.00 to 8.00	2.00 to 4.00	2.25 to 2.50	2.50 to 2.50
" *NOVELTIES .....	2.00 to 5.00	" to 1.00	3.00 to 4.00	2.00 to 5.00	" to 1.00
" *CATEYLA .....	30.00 to 40.00	" to 1.00	" to 1.00	" to 1.00	" to 1.00
" *LEAF .....	40 to 1.00	" to 1.00	" to 1.00	" to 1.00	" to 1.00
" *LILAS, LongFlorum .....	4.00 to 8.00	12.00 to 15.00	8.00 to 10.00	" to 1.00	12.00 to 12.00
" *LILAS, Short .....	1.50 to 2.00	1.50 to 1.50	2.00 to 4.00	" to 1.00	" to 1.00
" *MORNING .....	50 to 5.00	4.00 to 5.00	2.00 to 4.00	2.00 to 4.00	" to 5.00
" *NABONNE, Von Sion .....	3.00 to 2.00	" to 1.00	" to 1.00	" to 1.00	" to 5.00
" *ORANGE .....	" to 2.00	" to 1.00	" to 1.00	" to 1.00	" to 1.00
" *ROMAN HEADSTICKS .....	" to 1.00	" to 1.00	" to 1.00	" to 1.00	" to 1.00
" *SWEET .....	12.00 to 20.00	" to 1.00	15.00 to 20.00	15.00 to 15.00	" to 1.00
" *VIOLET .....	25 to 60	" to 1.00	60 to 75	60 to 75	" to 1.00

For Prices of Fancy and Special Stock see our Correspondence Columns. Prices are for quantities of one hundred unless otherwise noted. Prices quoted above are given only after very careful inquiry, and while we do not guarantee their accuracy, they will be found practically correct up to the date mentioned.

# REINBERG BROS., Wholesale Growers of Cut Flowers. . . 500,000 Feet of Glass. . .

We can fill all orders on short notice with all leading varieties of ROSES and CARNATIONS. We are headquarters for fine AMERICAN BEAUTIES. Give us a trial and convince yourself.

**SALESROOM 51 Wabash Avenue, CHICAGO, ILL.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## SAMUEL S. PENNOCK, WHOLESALE FLORIST.

...FINE... NOW IN. ALSO GOOD ASSORTMENT OF OTHER ROSES. BEST STOCK.

We are still headquarters for finest and best varieties of CARNATIONS.

**1612-1614 Barker St., Bet. Chestnut & Market Sts. Philadelphia, Pa.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Illinois Cut Flower Co.,**  
J. B. DEAMUD, Manager.  
**WHOLESALE COMMISSION FLORISTS,**  
51 Wabash Ave., Chicago.  
Consignments Solicited.

**KENNICOTT BROS. COMPANY,**  
**Wholesale - Cut - Flowers,**  
88 Wabash Avenue,  
CHICAGO, ILL.  
**WIRE WORK A SPECIALTY.**

**THE NEW YORK CUT FLOWER CO.**  
119-121 West 23d Street,  
112-114 West 24th Street,  
Telephone 731, 10th St., NEW YORK.  
**THE LARGEST DEALERS IN CUT FLOWERS IN THE WORLD...**

**PURDY & BLAUVELT,**  
Wholesale and Commission Dealers in  
**CUT FLOWERS**  
MAINTAIN FINE STOCK A SPECIALTY.  
57 WEST 30th STREET,  
Bet. Broadway & 6th Ave., NEW YORK.

**A. & F. ROLKER,**  
WHOLESALE DEALERS IN  
**CUT FLOWERS**  
53 West 28th St.  
Telephone 2379 38th St. NEW YORK.

**W. F. SHERIDAN**  
Wholesale Commission Dealer in  
**CUT FLOWERS**  
39 West 25th St., New York.  
Telephone, 214-38th St.  
PRICE LIST SENT ON APPLICATION.

FRANK H. TRENDEL, CHARLES SCHROEDER &  
**TRENDEL & SCHROEDER,**  
Wholesale Florists,  
38 W. 29th St. and CUT FLOWER EXCHANGE,  
NEW YORK.  
Telephone 301-30th St.  
Consignments Solicited.

**JOHN YOUNG,**  
**Wholesale Florist,**  
57 WEST 28th St.,  
NEW YORK.

**WM. J. BAKER,**  
**Wholesale Florist**  
1432 So. Penn Square,  
Philadelphia, Pa.

**DUMONT & CO.,**  
**WHOLESALE FLORISTS**  
CARNATIONS A SPECIALTY.  
No. 1305 Filbert St., Philadelphia.

**EDWARD REID,**  
**Wholesale Florist**  
FINEST VARIETIES  
Roses, Carnations, Violets.  
No. 40 South Sixteenth Street,  
Lancaster, Pa.  
Telephone PHOENIX Philadelphia.

**ROGERS PARK FLORAL CO.,**  
**Wholesale Growers of Cut Flowers**  
OFFICE AND SALESROOM,  
41 WABASH AVE., CHICAGO.  
Headquarters for AMERICAN BEAUTIES.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Wholesale Florists**  
 JOBBERS IN  
 FLORIST'S  
 SUPPLIES.  
 N. F. McCarthy & Co.  
 FLORISTS' VASES.  
 Horticultural Auctioneers,  
 64 HAWLEY STREET, - BOSTON.

**GEORGE MULLEN,**  
 Wholesale and Commission Dealer in  
**Cut Flowers.**  
 Best at-ck and lowest prices. Orders by  
 mail, express, telephoning, or tele-  
 gram promptly attended to.  
 GEORGE MULLEN 18 Chapman Place, Boston.

**GEO. A. SUTHERLAND,**  
 Successor to W. J. STEWART,  
**CUT FLOWERS and FLORISTS' SUPPLIES**  
 WHOLESALE.  
 67 Bromfield St., Boston, MASS.

**City Hall Cut Flower Market**  
**WELCH BROS., Props.**  
 Regular Consignors Given Space Free  
 of Charge. Space let to growers wishing  
 to sell their own goods.  
 Flowers Shipped to all Points.  
 ...SEND FOR PRICE LIST...

**W. ELLISON,**  
**Wholesale Cut Flowers,**  
 Florist Supplies. Wire Designs.  
 2744 Franklin Ave., ST. LOUIS, MO.

**CHAS. G. FLECKENSTEIN,**  
 Wholesale Flowers,  
 1323 PINE STREET,  
 ...ST. LOUIS, MO.

**C. A. KUEHN,**  
 Successor to ELLISON & KUEHN,  
**WHOLESALE FLORIST,**  
 1122 Pine St., St. Louis, Mo.  
 A COMPLETE LINE OF WIRE DESIGNS.

**C. W. WORS,**  
 Wholesale Florist,  
 313 N. LEFFINGWELL AVENUE,  
 ST. LOUIS, MO.  
 FINE ROSES—Shipped carefully to all  
 parts of the country.

**HEADQUARTERS** In Western  
 New York.  
 TRY US  
 ROSES, CARNATIONS,  
 AND VIOLETS.  
**WM. F. KASTING** Wholesale  
 Commission  
 Florist.  
 436 Washington Street,  
 BUFFALO, N. Y.

**E. G. HILL & CO.,**  
 Wholesale Florists,  
 RICHMOND, INDIANA.  
 WHEN MENTIONED THE FLORIST'S EXCHANGE

**TRUMPET ANEMONES**  
**ASPARAGUS PLUMOSUS NANUS,**  
 W. H. ELLIOTT,  
 Cincinnati, O.  
 75 Cts. per 100 lbs.  
 Buds worth about 40 lbs.  
 THE BEST AND STRONGEST MUST BE FRESH,  
 NOT OLD BUDS DRYLY. You can get the best of  
 H. A. Stooftor, 315 Madison Ave., N. Y.  
 Cut Strips, 8 to 10 feet long,  
 50 cts. each.  
 Shipped to any part of the  
 country.  
 Brighton, Mass.

**Market News.**  
 The weather for several weeks has  
 been very unen against the florists' busi-  
 ness—dark and rainy with occasional  
 clearings have simply stood still, and  
 the supply of this flower is away be-  
 hind the demand. This market, for Easter,  
 will have no carnation, where we  
 should have five hundred, and prices have  
 stiffened very materially. Anything sells  
 at 2c; medium 3c, and fancy will bring 5c  
 for Easter.

Roses will be in better supply and will  
 sell as follows: Peris, 4c to 5c; Bride and  
 Bridesmaid, 6c to 8c; La France, 6c to 8c;  
 Beauty and Mater, will not be figures.  
 Jacq, will be in the market and will re-  
 tall at about \$1 per doz. The estate of  
 H. A. Murphy will have the most of these.  
 Von Silon narcissus, 4c; paper whites, 2c,  
 and 3c; tulips, 3c to 4c; lily of the valley,  
 2c; Margerite, 3c, per 100, violets, 5c  
 per 100; callas and Harrial, 10c each;  
 miniature Dutch hyacinth, 3c to 4c; Ro-  
 manas, 2c; sweet peas, \$1 per 100, gladiolus  
 spikes, 6c to 8c; smilax, 13c to 15c, and  
 other greens as usual.

No New Plants.  
 We see nothing especially new in  
 plants to report. Harris will be in good  
 supply, as will bulbous stock. Orders are  
 coming in thick and fast, which is a good  
 indication that Easter, 1897, will not fall  
 below other years. Many of our florists,  
 though, are complaining of the hard times  
 and poor collections.

The News.  
 Supt. WANDER called this morning  
 for the 4th time since his accession. He  
 says that his nervous system is still very  
 much out of order and he does not relish  
 the sound of a "locomotive whistle."

Dame Rumor says that HENRY SCHWARZ  
 will soon marry a lady from Kentucky.  
 Henry has our best wishes.

WM. MCPADDER is now the proprietor  
 of Rosebank, having taken possession,  
 April.

A. SPENNERBOTH'S Sons had a fine  
 decoration at the Queens City Club, Satur-  
 day, for a banquet given to a railroad  
 magnate. The table was decorated with a  
 mixture of leonemotive and a train of cars  
 representing the South western Limited of  
 the Big 4.  
 Store openings and other decorations  
 have been quite numerous, so that the sup-  
 ply of flowers during Lent has been well  
 used up.  
 E. G. GILBERT.

**Pittsburg.**  
 Trade Outlook.  
 The week before Palm Sunday was  
 rather an un satisfactory one, trade having  
 been very quiet. Much however, was due  
 to the horrid weather and continuing  
 rains. Even Saturday was not up to ex-  
 pectations.  
 The gloom of Lenten dullness reaches  
 its climax during Holy Week; and if the  
 weather is at all propitious a good Easter  
 trade is expected. The show windows are  
 mainly filled with blooming plants, and  
 look very attractive. For this purpose  
 bougainvilleas are splendid plants to use.  
 The outlook for cut flower stock, except-  
 ing bulbous material, is at present uncer-  
 tain. The latter will be very abundant.  
 Carnations will certainly be scarce; the  
 home supply is much shorter than usual,  
 and prices will go up considerably. The  
 supply of roses and lilies will be sufficient.  
 Trade in pot plants has been extremely  
 dull so far, but if the weather allows there  
 should be a boom before the week is over.  
 Club Meeting.

The last regular meeting of the  
 Florists' Club was poorly attended, the  
 secretary being again to him Secretary  
 T. P. Langhans was absent on account of  
 the illness of his child. Nothing of im-  
 portance was done.  
 Illness of Mr. Patterson.  
 N. Patterson, the Market St. florist,  
 who has been confined to his bed since  
 last December, has been afflicted with  
 a disease, is very low, and badly expect-  
 ed to recover.  
 E. C. REINEMAN.

**GROW PLANTS IN**  
**"Jadoo" Fibre.**  
 WATER THEM WITH  
**"Jadoo" Liquid.**  
 WHEN MENTIONED THE FLORIST'S EXCHANGE

**ASTERS!!**  
 Sample's White and Pink, also Perfection,  
 Victoria and Comet, 50 cts. per 100; 5.00  
 per 1000. DOUBLE HARDY SEEDLING CAME-  
 O-PANS, 5 cts. per 100; \$4.00 per 1000. Fine  
 stock, prepaid, cash.

**MORRIS FLORAL CO., Morris, Ill.**  
 WHEN MENTIONED THE FLORIST'S EXCHANGE  
**CUT SMILAX**  
 \$25 00 per 100 strings.

**ADIANTUM CUNEATUM**  
 Extra fine fronds \$1.25 per 100. Cash with order.  
**GUSTAVE SCHRAEDER,**  
 Hoffman Bookstore, Cut Flower Exchange  
 New York, L. I.  
 WHEN MENTIONED THE FLORIST'S EXCHANGE

**CUT ROSES.**  
 Fine BRIDE, BRIDESMAID  
 and PERLE on short notice.  
 Give us a trial.

**THE NATIONAL PLANT CO., Dayton, Ohio.**  
 WHEN MENTIONED THE FLORIST'S EXCHANGE  
**10,000 HARRISII**  
 \$9.00 per 100 buds and blooms in pots.  
 \$8.00 per 100, cut.

It is well for those who order, to order be-  
 fore they are thoroughly opened, as they will  
 ship better.  
 Cash With Order.

**WM. A. BOCK,**  
 NORTH CAMBRIDGE, MASS.  
 WHEN MENTIONED THE FLORIST'S EXCHANGE

**EASTER OFFERING**  
 CHOICE SEASONABLE FLOWERS  
 DELICATE SEEDS  
 SUPPLIES  
 DISCOUNTS  
 ALL THE YEAR  
**EMMONT**  
 18 N. LEX ST. CHICAGO

**JOHN GURLEY & SON,**  
 MANUFACTURERS OF  
**TIN FOIL,**  
 2 and 4 Dominick Street,  
 NEW YORK.  
 WHEN MENTIONED THE FLORIST'S EXCHANGE

**M. RICE & CO.,**  
 Importers and Manufacturers of  
**FLORISTS' SUPPLIES,**  
 25 N. 4th St., Philadelphia, Pa.  
 NEW FALL CATALOGUE NOW READY  
 WHEN MENTIONED THE FLORIST'S EXCHANGE  
**MEYER GREEN SILKALINE.**  
 Used for Christmas BURLAP and AFFARIANTS.



Will not fade, or rot like other covers. Made also in each  
 country for tying purposes. Send for samples and prices.  
**JOHN C. MEYER & CO.,**  
 87 Sumner Street, BOSTON, MASS., U. S. A.  
 WHEN MENTIONED THE FLORIST'S EXCHANGE

**YOU NEED**  
**THE WORK**  
 WE ARE LARGE MANUFACTURERS  
 IN THIS LINE.

Get our Low List and Save Money  
**ELLIS & PULLWORTH,**  
 Box 75. Milwaukee, Wis.  
 WHEN MENTIONED THE FLORIST'S EXCHANGE  
 ...THE COMPLETE...

**BOOK CATALOGUE.**

We have just issued the most Select and  
 Complete Catalogue of Books on Horticultur-  
 al and Allied Subjects, ever published.  
 The catalogues of the various book pub-  
 lishers of this country as well as of Europe,  
 have been carefully gone through, and such  
 works taken therefrom as were considered  
 suitable for our patrons.  
 This catalogue contains 66 pages, and  
 embraces

- ...BOOKS for
- The Florist
  - The Market Gardener
  - The Nurseryman
  - The Fruit Grower
  - The Seedsman
  - The Student of Botany, Entomology and Ornithology
  - The Poultry Keeper
  - The Farmer
  - The Lover of Plants and Flowers
  - and the Student of Nature in general, in fact
- BOOKS FOR EVERYBODY**

interested in the science and practice of  
 rural economy.  
 A select clubbing list of periodicals, home  
 and foreign, is also furnished, through which  
 a considerable saving may be effected in  
 their purchase.  
 This handy catalogue will be sent on  
 application, accompanied by a two-cent  
 stamp. Address  
**A. T. DE LA MAR PTE. and PUB. CO. Ltd.**  
 P. O. Box 1607, New York.

## GREEN-HOUSE CONSTRUCTION.

This has been a specialty with us for many years and to us is due the credit for many of the great improvements that have been made in the construction of wooden green-houses. To those that buy our

### Clear Cypress Building Material

we furnish, free of cost, complete detail drawings from which any intelligent workman can put up the material correctly. We have plenty of time to write letters ABOUT OUR BUSINESS, and we will be glad to hear from those contemplating building.

Write for Circulars  
or Estimates.

**LOCKLAND LUMBER CO.**

LOCKLAND, OHIO.

## GLASS FOR GREENHOUSES, CONSERVATORIES, GRAPERIES, HOTHOUSES AND HOTBEDS. GLASS VANHORNE GRIFFEN & CO.

Agents for CHAMBERS & McKEE Co., Jeannette Brands American Glass.

13, 16 & 17 LIGHT ST., AND  
62, 64 & 66 VARICK ST., NEW YORK.

Importers of French Glass.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## PIPE AND FITTINGS. Wrought Iron Pipe, Valve, Coaks, Fittings, etc., for Steam and Hot Water; Rubber Hose, Plumber and Wall Pumps. WM. H. KAY, 42 Dey St., New York.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## GLASS! For Greenhouses, Conservatories, Graperies, Hotbeds and Florists' Use GENERALLY, at LOWEST RATES. L. H. FRIS & SON, 457 W. BROADWAY, NEW YORK, 89 LIBERTY ST., NEW YORK, 801, Houston and Bleeker Sts., NEW YORK, 801, Broadway and Church Sts., NEW YORK.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## GLASS! For Greenhouses, Conservatories, Graperies, Hotbeds and all other purposes, at Lowest Rates. N. COWEN'S SON 392 & 394 West Broadway, New York. Formerly 124 and 126 St. Fifth Avenue, New York.

Get our Figures before Buying Glass. Write for Estimates Freely Given.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## CALIFORNIA RED CEDAR Never Decays. A. DIETSCHE & CO. 619 Sheffield Avenue, CHICAGO.

MANUFACTURERS OF RED CEDAR AND CYPRESS GREENHOUSE MATERIAL.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## The New Automatic Cable Ventilator

SEND FOR OUR NEW CATALOGUE, WHICH SHOWS

As it is put up in the house complete. We also give you prices with a guarantee that each machine must out with operate four hours successfully. All machines are made in two sizes.

A. Q. WOLF & BRO., Dayton, Ohio.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## ALL SYSTEMS GREENHOUSE GLASS. The Wood Glass Co. 220 N. Salina St. Syracuse, N.Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## CORRESPONDENCE.

Insertion will be given in this column to all communications from our readers, but the opinions expressed do not necessarily reflect our own.

### Seedlings and Certificates.

Editor Florists' Exchange:

I have read Mr. Graham's letter with more than ordinary care, and I am tempted to discuss the question at issue mildly and logically. Mr. Graham is right when he says that the judges are prejudiced against a variety that is exhibited for a certificate, and only a variety that shows some striking points that appeal particularly to that set of judges will be awarded a certificate.

Mr. Graham's hypothetical case gives the variety 30 points—10 points short of the required number, and a certificate is refused. Change the judges and the result is 40 points and a certificate is granted. Now so long as the system in vogue gives such widely varying results, of what value is it to the grower? Is it better to mine for him? How much reliance can he place in certificates given under such a system? The past record shows that certificate varieties have failed commercially and are scarcely better known than the one and the purchasing public have refused to like those certificated as well as those that were not so.

Again, flower buyers do not buy according to a scale of points, and there is a wide divergence in taste. The variety that would differ from one from Chicago on shades of color, as well as on other points. The main objection to the present system of judging at Cincinnati is that it was done competitively. As Mr. Graham himself states, "some of the seedlings were so inferior when sealed as to make it difficult for the judges to decide which variety of the same class should have the certificate."

If there were two varieties, each a marked improvement on existing varieties, each to be placed on the market at the same season, each of such excellence as to make it hard to tell which was best, ought not to be sealed, but the exhibitor should be admitted that no one can foretell as to adaptability. What if, when sent out, these two varieties were given the same certificated one proves the better of the two.

The position that seems to me to be the correct one is that, if the Society is to retain commercially a certificate, it should show a marked improvement over varieties of the same class already in commerce should be certificated. I believe this has been the rule in awarding chrysanthemum certificates, and it should be the rule with carnations.

Under the competitive system the seedling grower who is able to show his variety in the best form, and to exhibit it, and his seedling goes on the market berided with a boom, while the variety having some in exhibiting, but not in the eye, loses sales, even when put to the final judgment—i.e., submitted to the public by introductory means for the better commercial flower.

That it is an injustice to give one variety the advertising advantages of a certificate, and deny it to another when the variance is but one per cent, is apparent, and is giving one seedling grower an unfair advantage over another in marketing his plants.

Climate differences have thus far not been considered in this discussion, yet it is well known that varieties succeed locally, but very few are universally successful, and the only way this can be determined is by actual trial in each locality.

A clear consideration of the case from the light of past experience, as well as from the views brought forth in this discussion, leads me to offer the following conclusions:

- 1st. The awarding of certificates for the purposes of commercial advertising is questionable.
- 2d. But if such certificates are to be awarded, any variety showing marked improvement over varieties already in commerce should be entitled to a certificate, and if that the society should have the disposition of awarding any one particular variety and frowning upon another.
- 3d. That any scale of points that may be devised will prove defective in judging for certificates.
- 4th. That if seedling growers under-

stand that the commercial fate of their seedlings depends on the opinion of a few judges chosen at random, they will cease to present their seedlings to the Society, but will prefer the safer and more expeditious method of submitting them at once to the final arbitrator, the public, who do not choose by seedling, but by the flowers please them.

QUEENS, N. Y.

CHARLES W. WARD.

### Free Seed Distribution.

Editor Florists' Exchange:

Your correspondent, T. W. Wood, Esq., will not wonder at the opinion of a few judges, "parakee being as bad as the thief," sadly too much in earnest, evidently thinking we were, or were, making an attack on the moral character of those who had been favored, or participants in the Government contracts. No such a meaning was ever intended. Being personally acquainted with every one in the trade holding these contracts, we believe them all to be men of strict moral and business integrity, men that would honor any position they held, and who would not be slow to acknowledge as friends and competitors in business. The quotation was used as a means of illustrating the propriety of reflecting on moral character or business reputation of any one.

There is no question what we have often said before: We believe the free seed distribution, through which the abuse has for the past twenty years, a travesty of the dispassionate creating the Department of Agriculture, through which the abuse has been made possible, the seed trade of our country seriously injured, and that it is a blot on the national character. We believe that our representatives in Congress, by voting for the appropriation necessary to create the new work, and by not punishing themselves, but do their constituents great injustice in the matter of taxation and in the matter of the national character of our industries. We believe, too, that every seedman in our country at heart concerned with the welfare of the people, is fast to their own interests. At the same time, we ask, is there a seedman who would not be glad to see the Government to enrich himself through the Government's kind favor, even though he knows that it will be a detriment to his business, consequently to his competitors?

Now let us look at the principle we have advanced, and let us see if it is not every seedman in the land has defined a petition to Congress to be taken up, and let us consider an abuse; with what effect? Mr. Wood says, "The Senate Committee on Appropriation has, up to this time, declined to hear a committee of the House in opposition to the appropriation for free seeds; they, like the House of Representatives, having determined to pass the bill without considering its merits." From this it appears very evident that the present Congress is as ready to pass the bill without considering its merits as their predecessors; they were not only deaf, but dumb and blind to the interests of the people. It is not intended to promote, viz., the building up of new industries, which would set idle hands to work, but to distribute seeds intended to distribute seeds of any kind, the growing of which was already an established industry.

According to the report of the chairman of the committee appointed at the meeting of the Society, the bill must be made from the decision of the present Congress to the people. It is the people's duty to go to the light as long as the seed trade—the most influential and the most important of our present industry is in? As well might a man preach temperance and hang out a sign advertising the sale of wine, if there is any one who is a free-holder and office-seeker respects and fears, it is the spirit of the press. If the seed trade is to be a part of the present, we will no longer participate in a work that is injurious to the craft and at war with every phase of political economy, they will command the respect of the press; they will be heard, and their cause will win.

We have on our desk the regulation number of packets, such as each representative has his constituents. We would like to ask the dealer that puts them up, if he has any of these packets in every respect? Are they just the same as they would send me from the store, if I had them by me? We have on our desk the catalogue ready? Truly, we believe they are just as good, the reputation of the firm warrants that belief. If so, will not every

LORD & BURNHAM CO., HORTICULTURAL ARCHITECTS AND BUILDERS, STEAM AND HOT WATER HEATING ENGINEERS.

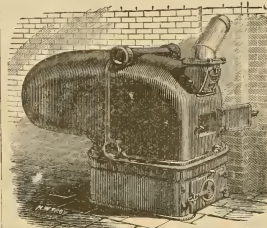
Plans and Estimates furnished on application.



Largest Builders of Greenhouse Structures. Six Highest Awards at the World's Fair. Send four cents postage for Illustrated Catalogue.

LORD & BURNHAM CO., ARCHITECTURAL OFFICE, 160 FIFTH AVE., COR. 21st STREET, NEW YORK. Factory: Irvington-on-Hudson, New York.

GREENHOUSE HEATING AND VENTILATING, Horticultural Architecture and Building.



Mention paper.

SEND 4c. POSTAGE FOR ILLUSTRATED CATALOGUE.

Kitchings & Co

ESTABLISHED 1844. 233 Mercer Street, NEW YORK

FIVE PATTERNS OF BOILERS. NINETEEN SIZES.

Perfect Sash Raising Apparatus. Rosehouses, Greenhouses, Etc. of Iron Frame Construction erected complete, or the Structural Iron Work shipped ready for erection. Iron Frame Beaches with the "Perfect Drainage Bench Tie" or Slate Tops.

one that is in want of seed strive to get them from the government free, rather than pay five cents per paper for the same from the seedman?

The worst feature of the Free Seed distribution is that reputable seedmen have taken the contracts to supply the government, instead of the Department going into the open market for their supply, as formerly. When government bought its seeds in bulk, and put it up at the Department, they got in many, if not most instances, the vilest seeds possible; so worthless were they, the gardeners would not use them; they were thrown aside because of the unsavory reputation of the government seed stores. Now the seeds are very different, mark the change. Barpes, Wood, May, and Utahrose, each have an enviable reputation, the seeds they sell are chosen among the best, and the consumers will use them instead of throwing them in the trash and here is just where it hurts the legitimate seed trade. Everybody knows that the seeds put up by the parties mentioned, will be just as good coming from Washington, as from the dealers direct, and the seeds will be used.

This gentlemen, is the way you are stabbing the trade under the "fifth rib," and you cannot injure others without yourself being injured. Your customers will very naturally ask: Why do you charge me five cents per packet, when the government gives three-fourths of a cent for the same? You certainly cannot get so good on quality, under your guarantee of 98 percent purity. And if the seeds you send through the Department are just as good as you send direct to the consumer from your stores (and we believe they are) why should anyone send to you when he can get them for nothing? Just consider this matter for a moment, and see if you are not directly responsible for some of the ills the trade is being heir to.

As long as the government bought trash, that no one, or at least comparatively few, would market it, but now that the tax payers, but now the seeds are bought from responsible, respectable parties, the injury is shared by all the trade.

I, not wishing to hide under a non des plume, subscribes himself—Yours very truly, C. L. ALLEN.

American Pomological Society.

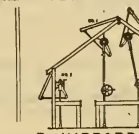
In response to an invitation of the Ohio State Horticultural Society, the twenty-fifth biennial session of the American Pomological Society will be held to the city of Columbus, Ohio, on September 1, 2, and 3, 1897. Every effort will be made to obtain the most favorable rates over all roads and connecting lines leading into Columbus, for all attendants, and most hospital entertainments have been promised by the Ohio pomologists. The proceedings of the session will be of great practical value to the pomological interests of the nation. A circular program of proceedings will be issued in proper time also announcing railroad rates and hotel fare for the session.

For further information address the Secretary's office at Lawrence, Kan., or the President at Augusta, Ga. P. J. BERKMAN, President. G. C. BRACKETT, Secretary.

STANDARD VENTILATING MACHINE.

NONE EQUAL IT IN Strength AND Durability.

Send for Catalogue.



WHEN WRITING MENTION THE FLORISTS' EXCHANGE

NOTHING Flimsy OR Complicated about it.

E. HIPPARD, YOUNGSTOWN, OHIO.

IF YOU WANT A GOOD SASH LIFT

For a Very Little Money—Get



THE NEW DEPARTURE VENTILATING APPLIANCE.

For Descriptive Catalogue Send to J. W. D. CARMODY, Evansville, Ind.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

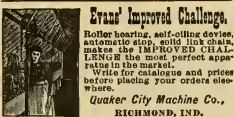
SUMMER IN WINTER

By Using Standard Greenhouse Boilers

One cent gets our Catalogue.

GIBLIN & CO., - Utica, N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE



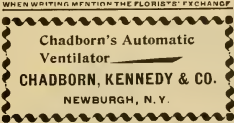
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

MASTICA

For Glazing Greenhouses. A substitute for putty Superior in every way MASTICA and MASTICA GLAZING MACHINES were given Highest Award of S. A. F. at Pittsburg. Address for circular, F. O. PIERCE CO., 170 Fulton St., N. Y.

Sole Manufacturers.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE



WHEN WRITING MENTION THE FLORISTS' EXCHANGE



WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Would Sell the Earth. I believe that no ad. in your paper would sell the earth. O. B. HUMPHREY. City Courier, March 29, '97.

SPRAY PUMPS

The Best in the World.

Our Pumps are used by the Leading Agricultural Colleges and Experimental Stations in America.

PRICES \$2.00 TO \$15.00.

Send for Catalogue and Special Price List. CHARLES J. JAGER COMPANY, 174 HIGH ST., BOSTON, MASS.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

The Strength of a Child

pushes the "Simplex" Hose Reamer into place. No tools required. cannot pull it out.

1/2 inch or 3/4 inch by hand, 10 cts. Complings 25 cts. per set.

ELECTRIC HOSE

can be bent double, twisted into any shape, or run by teams without injury. Send for sample.

A GOOD LAMP SPINKLER,

By mail, \$1.00.

KING & KNIGHT, 35 E. Wendell Street, Boston

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Modern Greenhouse Heating.

One of our boilers, 10,880 feet of two inch pipe, and sixty tons of coal will heat 32,400 feet of glass (from 20x200 feet double gable houses) to 65 degrees in coldest Winter weather; they have done it, and will do it for you—we guarantee it. Our boilers are not only the best of their kind, but the best made. They have the largest "freightight" direct surface, are the easiest cleaned, handled and set up; and from engineering facts, they are the ideal frictionless, economical water heating boilers of our day.

Plenty's Horticultural Works, 148-158 Randolph Ave.,

JERSEY CITY, N. J.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

CYPRESS IS MUCH MORE DURABLE THAN PINE.

CYPRESS SASH BARS UP TO 32 FEET IN LENGTH OR LONGER.

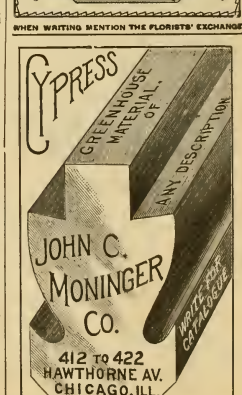
GREENHOUSE AND OTHER BUILDING MATERIAL.

Send for our Illustrated Book "CYPRESS LUMBER AND ITS USES."

Send for our Special Greenhouse Circular.

THE T. STEARNS LUMBER CO., Neponset, Boston, Mass.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE



WHEN WRITING MENTION THE FLORISTS' EXCHANGE

ENGLISH IVY Field-grown, 2 yrs. old, \$1.30 per 10; \$3.00 per 100.
HELICANTHUS ml. pl. \$2.00 per 100.
DANN & SON, Westfield, N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE
Carnations, -All the varieties of the season, from 50 cents each pot, at retail prices, to \$1.00 per 100.

Clematis flammula.-Strong plants from 3 inch pots, \$3.00 per 100. \$10.00 per 1000.
C. EISELE, 11th & Jefferson Streets, Philadelphia, Pa.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE
SPRING STOCK-SPECIAL.
Geraniums, eight A1 varieties, single and double, 25c. each, \$1 per 100.

Geraniums, twelve best varieties, rooted cuttings, 10c. for \$1 by mail, our selection. Golden Bieder.
Verschoellfl. Pfirsich, J. Goode and Fire Cree, \$2 per 100.
Salvia, Pres. Carrol, Dwarf Scarlet, 3 and 4 inch pots.

Geranium, blue and white, Dwarf, 5-10, pots, \$2 per 100.
A. LEX, DEBBIE, Allegheny, N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE
WE PAY THE EXPRESS
BY CASH ACCOMPANIES THE ORDER.

Colorado varieties, 50 cts. per 100, \$4.50 per 1000.
Blue and white, Lattie Queen, A. Dore, \$2.00 per 100.
All other varieties, A. Nana, 60 cts. per 100; \$5.50 per 1000.

Fuchsias, best varieties, \$1.00 per 100, \$8.00 per 1000.
C. H. HARRIS & CO., Delanson, N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE
GERANIUMS
Double Giant 2 1/2 in., \$2.00 per 100.

Pantries, in bud and bloom, \$1.25 per 100.
Sonia's, from Sals, 50 cts. per 100.
Carrington, Geraniums, Golden Bieder and Verschoellfl. Colours Cuttings, \$1.00 per 100, free by mail.

EVERITT & INSALL, Hackettstown, N. J.
WHEN WRITING MENTION THE FLORISTS' EXCHANGE
FINE PLANTS CHEAP.

Geraniums, Double Grant, 2-4 in. pots, \$3.00 per 100.
Begonia Vernon, fine, 2 1/2 in. pots, \$2.00 per 100.

Salvia Splendens, 2 1/2 in. pots, \$2.00 per 100.
Rooted Cuttings, Colours, Geraniums, Begonia, Violet, Salvia, etc., 75 cts. per 100.

NICHOLS & SONS, KeyStone Conservatory, Crestline, Ohio.
WHEN WRITING MENTION THE FLORISTS' EXCHANGE
APRIL OFFER.

400 Marcefolia (Paris Daisies) 5 in. pots, \$2.00 per 100.
Alyssum standard, var. 2 1/2 in. pots, \$2.00 per 100.

JOS. H. CUNNINGHAM, Delaware, O.
WHEN WRITING MENTION THE FLORISTS' EXCHANGE
ROOTED CUTTINGS, Good Ones

Verbenas, 24 varieties, 30 cts. per 100, \$7.00 per 1000.
Heliotrope, 12 varieties, 30 cts. per 100, \$7.00 per 1000.

J. E. FELTHOUSEN, Schenectady, N. Y.
WHEN WRITING MENTION THE FLORISTS' EXCHANGE
4 NOVELTIES 4
CHRYSANTHEMUMS, 4 in. pots, \$1.00 per 100.

HELIOTROPE, Lemonade, Giant, 3 1/2 inch.
Brand, 4 inch.
COLUMBIA, New Dwarf early bloom, 1 1/2 inch, 2 in.
ASTERS, New Jewel, 4 colors, 2 in. \$2.50 per 100.

CHRYSANTHEMUMS, Rooted cuttings, New Maryland, 2 1/2 inch, \$1.00 per 100.

CHRYSANTHEMUMS, Rooted cuttings, New Maryland, 2 1/2 inch, \$1.00 per 100.

CHRYSANTHEMUMS, Rooted cuttings, New Maryland, 2 1/2 inch, \$1.00 per 100.

CHRYSANTHEMUMS, Rooted cuttings, New Maryland, 2 1/2 inch, \$1.00 per 100.

CHRYSANTHEMUMS, Rooted cuttings, New Maryland, 2 1/2 inch, \$1.00 per 100.

CHRYSANTHEMUMS, Rooted cuttings, New Maryland, 2 1/2 inch, \$1.00 per 100.

CHRYSANTHEMUMS, Rooted cuttings, New Maryland, 2 1/2 inch, \$1.00 per 100.

CHRYSANTHEMUMS, Rooted cuttings, New Maryland, 2 1/2 inch, \$1.00 per 100.

CHRYSANTHEMUMS, Rooted cuttings, New Maryland, 2 1/2 inch, \$1.00 per 100.

CHRYSANTHEMUMS, Rooted cuttings, New Maryland, 2 1/2 inch, \$1.00 per 100.

CHRYSANTHEMUMS, Rooted cuttings, New Maryland, 2 1/2 inch, \$1.00 per 100.

CHRYSANTHEMUMS, Rooted cuttings, New Maryland, 2 1/2 inch, \$1.00 per 100.

100,000 VERBENAS. THE CHOICEST VARIETIES IN CULTIVATION.
Fine pot plants, \$2.50 per 100; \$20 per 1000. Rooted Cuttings, 75c. per 100; \$6.00 per 1000. \$50.00 per 10,000.

\*NO RUST OR MILDEW\*
Packed light and satisfaction guaranteed. Send for circular.
We are the largest growers of Verbena in the country. Our plants cannot be surpassed.

J. L. DILLON, Bloomsburg, Pa.
LARGEST AND BEST STOCK OF

PREPARED CYCAS LEAVES
TO BE FOUND ANYWHERE

Metal Floral Designs, Sheaves, Doves, Baskets, Moss Wreaths, Wheat, Milkweeds, Cape Flowers, Wire Work, and all Florists' Supplies.

A. HERRMANN, 404-412 East 34th Street (Near Ferry), New York, N. Y.
Manufacturer of METAL FLORAL DESIGNS, Importer and Dealer in FLORISTS' SUPPLIES.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE
CYCAS LEAVES AND FUNERAL SHEAVES
BASKETS AND SUPPLIES, SEEDS AND SPRING BULBS.

At wholesale only; apply for lists. Address AUGUST ROLKER & SONS, NEW YORK, 136 and 138 West 24th Street. P. O. Station E.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE
LARGEST STOCK IN THE COUNTRY

All goods up to date, and of superior quality. Send for Illustrated Catalogue.

H. BAYERSDORFER & CO., 56 N. FOURTH STREET, PHILADELPHIA, PA.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE
10,000 GLADIUS BRENGELENSIS
Color Brilliant Scarlet. Fine Bulbs. Price per case of 400, \$50.00. Price per case of 1000, \$100.00.

FROM JAPAN
A Few Large Stems
CYCAS REVOLUTA
6-12, 13-24, 24-30 inches. Price on application.

C. H. JOUSTEN, 193 Greenwich St., New York.
WHEN WRITING MENTION THE FLORISTS' EXCHANGE
The One by Orchids by the Orchid System
FA Ormsby
71 Sumner St. MELROSE, MASS.

The above is in use by Hugh Graham, Philadelphia; J. C. Penneck, Kennett Square, Pa.; C. S. Swayne, Kennett Square, Pa.; J. M. Palmer, Kennett Square, Pa.; Penneck E. Sharpless, Concord, Pa.; Steven Mortensen, Southampton, Pa.; J. H. Taylor, Rayside, L. I. F. A. S. Burns, Woodside, L. I., and many others in New York, New Jersey and Pennsylvania.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE
74 NOVELTIES 4
CHRYSANTHEMUMS, 4 in. pots, \$1.00 per 100.

HELIOTROPE, Lemonade, Giant, 3 1/2 inch.
Brand, 4 inch.
COLUMBIA, New Dwarf early bloom, 1 1/2 inch, 2 in.
ASTERS, New Jewel, 4 colors, 2 in. \$2.50 per 100.

CHRYSANTHEMUMS, Rooted cuttings, New Maryland, 2 1/2 inch, \$1.00 per 100.

CHRYSANTHEMUMS, Rooted cuttings, New Maryland, 2 1/2 inch, \$1.00 per 100.

CHRYSANTHEMUMS, Rooted cuttings, New Maryland, 2 1/2 inch, \$1.00 per 100.

CHRYSANTHEMUMS, Rooted cuttings, New Maryland, 2 1/2 inch, \$1.00 per 100.

CHRYSANTHEMUMS, Rooted cuttings, New Maryland, 2 1/2 inch, \$1.00 per 100.

CHRYSANTHEMUMS, Rooted cuttings, New Maryland, 2 1/2 inch, \$1.00 per 100.

CHRYSANTHEMUMS, Rooted cuttings, New Maryland, 2 1/2 inch, \$1.00 per 100.

CHRYSANTHEMUMS, Rooted cuttings, New Maryland, 2 1/2 inch, \$1.00 per 100.

CHRYSANTHEMUMS, Rooted cuttings, New Maryland, 2 1/2 inch, \$1.00 per 100.

CHRYSANTHEMUMS, Rooted cuttings, New Maryland, 2 1/2 inch, \$1.00 per 100.

CHRYSANTHEMUMS, Rooted cuttings, New Maryland, 2 1/2 inch, \$1.00 per 100.

CHRYSANTHEMUMS, Rooted cuttings, New Maryland, 2 1/2 inch, \$1.00 per 100.

CHRYSANTHEMUMS, Rooted cuttings, New Maryland, 2 1/2 inch, \$1.00 per 100.

CHRYSANTHEMUMS, Rooted cuttings, New Maryland, 2 1/2 inch, \$1.00 per 100.

CHRYSANTHEMUMS, Rooted cuttings, New Maryland, 2 1/2 inch, \$1.00 per 100.

CHRYSANTHEMUMS, Rooted cuttings, New Maryland, 2 1/2 inch, \$1.00 per 100.

..GERANIUMS..
The very best varieties, strong plants, from 2 1/2 inch pots, for \$1 a dozen, \$2.50 per 100. \$20.00 per 1000. Heliotrope, Le Placote, White Swan, S. A. Nutt, Gen Grant, Bishop Wood.

Geraniums, double varieties, \$3.00 per 100. Selected stock of Marks Lorette, rooted runners, also California Violet at \$5 per 100. Geo. H. Benedict, Yorkville, N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE
Alternantheras, Begonias and Geraniums
Alternantheras, A. Nana, B. Nana, P. Majorana

Begonia, double varieties, \$3.00 per 100. Heliotrope, Le Placote, White Swan, S. A. Nutt, Gen Grant, Bishop Wood.

Geraniums, double varieties, \$3.00 per 100. Selected stock of Marks Lorette, rooted runners, also California Violet at \$5 per 100. Geo. H. Benedict, Yorkville, N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE
BETSCHER BROS. OFFER
Very Fine Geraniums, 3 inch, per 100, \$3.00

Begonia, 2 1/2 in. per 100, \$3.00. Heliotrope, 2 1/2 in. per 100, \$3.00. Geraniums, 2 1/2 in. per 100, \$3.00.

BETSCHER BROS., Canal Dover, O.
WHEN WRITING MENTION THE FLORISTS' EXCHANGE
Rooted Cuttings.
CASH PRICES.

Carnations, Wm. Scott, transplanted in soil, \$1.00 per 100; \$10.00 per 1000.

Geraniums, 3 inch, per 100, \$3.00. Heliotrope, 2 1/2 in. per 100, \$3.00.

CHRYSANTHEMUMS, new and standard varieties, \$1.00 per 100, \$10.00 per 1000.

Double A. Nana, 5c. per 100. Heliotrope, 2 1/2 in. per 100, \$3.00.

Verbenas, Mammoth, \$1.00 per 100 by mail; \$10.00 per 1000.

Double Pfeilstrahl, \$1.25 per 100. Geraniums in 1 1/2 inch pots from 4 inch pots, mostly fine double sort, \$3.00 per 100.

E. FRYER, Railroad Ave. and Hill St. BROOKLYN, N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE
DON'T GET LEFT
But Get Your Orders in for Rooted Cuttings.

Colons Verschoellfl. and Golden Queen, \$1.00 per 100.

Heliotrope, 2 1/2 in. variety, \$1.00 per 100. Ageratum, Dwarf, Blue and White, \$1.00 per 100.

Colons, flowering sorts, \$1.00 per 100. Heliotrope, 2 1/2 in. variety, \$1.00 per 100.

Salvia Splendens, \$1.00 per 100. Fuchsias, in fine shape, 3 inch pots, \$3.00 per 100.

Geraniums, 4 inch pots, \$2.00 per 100. Begonia Vernon, Great Bedders, 2 1/2 in. pots, \$2.00 per 100.

Geraniums, flowering sorts, 3 inch pots, \$3.00 per 100. 500 & 1000 rates.

J. E. FELTHOUSEN, Schenectady, N. Y.
WHEN WRITING MENTION THE FLORISTS' EXCHANGE
4 NOVELTIES 4
CHRYSANTHEMUMS, 4 in. pots, \$1.00 per 100.

HELIOTROPE, Lemonade, Giant, 3 1/2 inch.
Brand, 4 inch.
COLUMBIA, New Dwarf early bloom, 1 1/2 inch, 2 in.
ASTERS, New Jewel, 4 colors, 2 in. \$2.50 per 100.

CHRYSANTHEMUMS, Rooted cuttings, New Maryland, 2 1/2 inch, \$1.00 per 100.

CHRYSANTHEMUMS, Rooted cuttings, New Maryland, 2 1/2 inch, \$1.00 per 100.

CHRYSANTHEMUMS, Rooted cuttings, New Maryland, 2 1/2 inch, \$1.00 per 100.

CHRYSANTHEMUMS, Rooted cuttings, New Maryland, 2 1/2 inch, \$1.00 per 100.

CHRYSANTHEMUMS, Rooted cuttings, New Maryland, 2 1/2 inch, \$1.00 per 100.

CHRYSANTHEMUMS, Rooted cuttings, New Maryland, 2 1/2 inch, \$1.00 per 100.

CHRYSANTHEMUMS, Rooted cuttings, New Maryland, 2 1/2 inch, \$1.00 per 100.

CHRYSANTHEMUMS, Rooted cuttings, New Maryland, 2 1/2 inch, \$1.00 per 100.

CHRYSANTHEMUMS, Rooted cuttings, New Maryland, 2 1/2 inch, \$1.00 per 100.

# THE FLORISTS' EXCHANGE

We are a straight shoot and aim to grow into a vigorous plant.

A WEEKLY MEDIUM OF INTERCHANGE FOR FLORISTS, NURSERYMEN, SEEDSMEN AND THE TRADE IN GENERAL.

VOL. IX. NO. 17.

NEW YORK, APRIL 24, 1897.

One Dollar Per Year.

**PITCHER & MANDA**  
 WILL CONTINUE their Special Low Offer of  
**Excelsior Dwarf Pearl Tuberoses.**

**\$6.00 per 1000; 5000 for \$25.00.**

**PLEASE REMEMBER** that these bulbs are NOT the usual grade of Tuberoses known as "8 inch", containing 50 per cent. of 4 inch bulbs. Our bulbs are **SELECTED**; some of our customers say they are the best bulbs they ever saw, both as to size and quality.

**JAPANESE LILIES—Anatum and Speciosum**—Will accept orders for a few days longer at the special low prices quoted in special number of FLORISTS' EXCHANGE.

**GLADIOLUS**—Florists' Extra White and Light. THE BEST.....\$25.00 per 1000, Standard White and Light..... 12.50 per 1000.

## ...FERNS...

We offer, for immediate delivery, a specially fine stock of **ADIANTUM CUNEATUM**, which can be at once shifted from the present size into 5 inch pots. Intending purchasers, before ordering elsewhere, would do well to send to us for a sample plant. 3 inch pots, \$7.00 per 100; \$63.00 per 1000.

**ASSORTED FERNS**, for Fern dishes and jardinières. A fine assortment of all the best hardy varieties, 2 inch pots, \$4.00 per 100; \$35.00 per 1000.

## LATANIA BARBONICA.

We offer fine strong plants of this popular Palm from 2 inch pots, ready to shift into 3 inch pots, at the exceptionally low price of \$4.00 per 100; \$25.00 per 1000.

**PITCHER & MANDA, Short Hills, N. J.**  
 JOHN N. MAY, Receiver.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# COCOS WEDDELIANA.

We have just received a consignment of fresh seed in perfect shape, which we offer as long as usual at **\$9.00 per 1000; 5000 lots at \$8.00 per 1000.**

**NEW CLIMBING**

## YELLOW RAMBLER ROSE.

The Only Hardy Yellow Climbing Rose Yet Introduced.  
 A Worthy Companion to the Wonderful Crimson Rambler.

This new rose bids fair to have as wonderful a sale as its predecessor, the Crimson Rambler. We have a large stock of it, and offer it at the following exceedingly low prices, viz: **Strong Plants, 2 1/4 inch pots, \$2.50 per doz.; \$15.00 per 100.**

Full description of this valuable novelty, also a beautiful colored illustration of same, a reproduction of a painting by the celebrated artist, Paul deLongpre, will be found in our descriptive catalogue, which will be sent on application to any one who may not have received it.

## NEW ROSE, PRES. CARNOT

in any quantity, fine, strong, healthy plants, 2 1/4 inch pots, at \$15.00 per 100; \$125.00 per 1000.

## WINTER-FLOWERING ROSES

is large and in exceptionally fine shape. We offer all the leading varieties as follows:  
**Perle, Bride, Meteor, Bridesmaid, Mme. Cusin, \$5 per 100; \$40 per 1000.**  
**Mme. Caroline Testout, Kaiserin Augusta, Victoria and Mrs. Pierpont Morgan, \$6 per 100; \$50 per 1000.**  
**American Beauty, \$9 per 100; \$80 per 1000.**

Our Wholesale List and Complete Descriptive Catalogue will be Sent Free on Application to any who may not have received them.

**F. R. PIERSON CO.,**  
 TARRYTOWN-ON-HUDSON, NEW YORK.

## TUBEROSE BEGONIAS AND TUBEROSE PEARL

At lowest Wholesale Rates in Quantity. Write for Prices.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## SEND FOR OUR PRICE LIST OF HIGH GRADE SEEDS AND BULBS

If You Have Not Received One.  
**FLOWER AND VEGETABLE SEEDS IN PACKETS.**

### We Do Not "Commission" or Place Seeds Out "On Sale."

But we supply Florists with seeds put up in handsome colored packets for retailing at \$1.25 per 100, or \$10.00 per 1000. These Packets, besides having a lithograph of the Flower (the common and botanical name on the front, have a description of the flower and sowing directions on the back and a blank space for name and address, which will be printed on same if ordered in 1000 lots or more. SEND FOR SAMPLE.

Price of Peas, Beans and Corn in Packets, \$4.00 Per 100.

**DWARF PEARL TUBEROSE BULBS**, 4 to 6 inches in circumference, \$7.50 per 1000.

**TUBEROSE ROOTED BEGONIAS**, sound stock, 6 colors, separate, \$3.00 per 100.

**GLOXINIAS**, named varieties, \$5.00 per 100.

In Making Up Your Order for Florists' Flower Seeds, Don't Fail to Include Some  
**ALLEN'S DEFIANCE MIGNONETTE**

Offered this Season at \$1.50 per oz., and 35 cts. per packet, containing 1-8 ounce.

**F. E. McALLISTER CO.** Seed and Bulb Merchants, 69 Cortlandt St. N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## Do we have to have Canna Burbank?

No! The past four years have shown there are very few things you

Have to Have  
**But** for more than four years the Florists of the world have been looking for a Pure Yellow Canna.

**In Burbank** we have practically a pure yellow, a flower in size more than twice as large as Madame Crozy, semi-double; and a plant with magnificent musa-like foliage and a constitution equal to the old Robusta. Austria is not a substitute for Burbank. It is unsuitable at 15c. each. Burbank SELLS at \$8.00 per dozen, prepaid ON cash orders.

Read the unanimous statements of the S. A. F. Canna Committee. Ask any Chicago Florist about it.

**Vaughan's Seed Store,** Chicago: 84 & 86 Randolph St.  
 New York: 14 Barclay St.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE



W. M. ELLIOTT & SONS Seed. FRESH ON HAND

Table listing various seeds and their prices, including items like 'Alma Fabra', 'Kenta Caraboyana', and 'Latales Herbaceous'.

Tuberose, Dwarf Pearl, late size, very fine bulbs, \$1 per 100; \$7 per 1000.
Cyclamen, single intercolor, set, separate colors, 50c per doz; \$3 per 100.

SWEET PEAS.

Table listing different varieties of sweet peas and their prices, such as 'Blanche Ferry', 'Horticultural', and 'Emile Henderson'.

WM. ELLIOTT & SONS NEW YORK.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

GLADIOLUS BULBS!

Extra White and Light for Florists. Per 100, \$2 50; per 1000, \$15.00.
Superb Seedlings. Per 1000, \$5.00.

BEGONIAS, TUBEROSES AND GLADIOLI.

I have to offer an Extra Choice lot of Tuberozes named Begonias, Single, large size, in 4 separate colors—white, pink, yellow and blue.
LARGE GLADIOLI—First mixed colors on the market. Large also, \$1.00 per 100; \$10.00 per 1000.

LILUM LONGIFLORUM. JAPAN CROWN...

CONTRACTS for small and large quantities closed now. Crop is going to short. Prices to meet competition. Don't overlook this, but write at once to

F. W. O. SCHMITZ, Importer and Exporter of ONLY superior quality of Florist's supplies. JERSEY CITY, N. J.

FRESH IMPORTATION 10,000 GLADIOLUS PAMPAS PLUMES

Color Brilliant Scarlet. Fine Bulbs. Price per case of 4,000, \$30.00. Price per case of 1000, \$10.00.

GERMAN JAPAN CYCAS REVOLUTA

A Few Large Slems 6-12, 12-24, 24-36 inches. Price on application. C. H. JOOSTEN, 193 Greenwich St., New York, N.Y.

SEEDS for Profit Sweet Peas

Wholesale Catalogue on application. WEBER & DON, Seed Merchants, 114 Chambers St., New York City.

SUMMER FLOWERING BULBS.

CHAS. H. ALLEN, Floral Park, N. Y.

Advertisement for 'NEW GIANT FANCY COSMOS' with a decorative border and text: 'THE FINEST IN THE WORLD. Six Splendid New Varieties, 62 per cent., separate mixed, \$1.00 per doz; \$10 per 100.'

AMARYLLIS JOHNSON, EXTRA LARGE BULBS. Send me your list of such stock you will need the coming season, and I will quote you my bottom prices for first class goods.

THE COMPLETE...

W. M. ELLIOTT & SONS, Importers, Exporters and Growers' Agents of Plants, Seeds and Bulbs, 501 and 603 W. 13th St., New York City.

HEADQUARTERS FOR Callas and Freesia Bulbs

PAMPAS PLUMES, Palm, California Tree and Flower Seeds.

Please let us book your orders for BULBS at once. . . . . ASK FOR SPECIAL PRICES.

GERMAN FRUIT CO. Los Angeles, Cal.

Some of Our Import Prices.

Table listing prices for various plants and seeds, including 'Miniature Hyacinths', 'Bedding Hyacinths', 'TULIPS', and 'Hulsebosch Brothers'.

AUCTION SALE.

Being about to relinquish the growing of plants, I shall sell at public auction, without reserve, about the first week in May, of the date due notice will be given, all plants disposed of at private sale, all my plants, which consist of the following: About 5000 choice Rosen, one, two and three years old, and various other plants for the market and all grown in cold frames in winter, about 50 named kinds of the choicest varieties of 2000 or two feet of the finest and best varieties of Camellia Japonica, about 75 named varieties and each stock of the finest and best varieties of plants, together with some hundreds of large plants in large pots, and many hundreds of different kinds, some large plants of Denendrobium, Solida, Phlox, Acce, Sec, also about 50 Cereoidium Insular and others, grown in large flats, having had from 25 to 30 flowers each, many of them in fact refused \$5.00 for eleven of them last fall, the blooms having paid a much larger interest than the value. There are 300 or more Palms for decorative purposes, consisting of Kentias, some large specimens, Areca Lutescens, Verschaffelii, Latisolia Borbonica, Rapis Platiflorus, some over 6 feet in height and more stems, grand plants, Cycas Pinnata, 7 to 8 feet, Chamaerops Excelsa, Phoenix Tropicana, Roebelia and others. Pandanus Veitchii, Sec, 200 or more Ficus Benjamina, 2 to 3 feet, a large lot of Ferns of sorts and about 400 Farleyana in 4 and 5 in pots, 100 or more Aspidistras, large and fine plants with 12 and more leaves and some variegated; a large lot of Azaleas suitable for large decorations, and more Geraniums in 4 in. pots of choice bedding kinds; 2000 Carnations in large pots; 200 or more Geraniums in 4 in. pots of choice bedding kinds, named, many of them seedlings as fine as the best, some pure yellow with spots and many scarlet. Marie Louise Violets, in 5 in. pots, ready for planting out and some in 4 in. pots. Caladium in common in pots with leaves; 200 or more Aparasurus Plumosa; 200 or more Hothouse plants to go together with thousands of miscellaneous plants too numerous to mention. All good salable stock. JAMES PENTLAND, Florist, BALTIMORE, MD 1510 Greenmont Ave.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

SEED TRADE REPORT.

Points and information from seedmen, and all interested in the column, solicited. Address Editor Seed Trade, care of Florists' Exchange, P. O. Box 189, New York.

Bermuda Bulbs.—In the price list of a Bermuda bulb grower just to hand, the following proviso is inserted: "Should any duty be imposed by the American government during the coming season, the amount of duty to be paid by the purchaser is to be ascertained in advance, and the purchaser that flowers with long stems are not out for sale, thereby weakening the bulbs."

For the same reason, neither should flowers with short stems be cut for sale; and what a boon to the American florist it would be if a similar statement were made, and it were verified by every bulb grower in Bermuda. Receipts of 180,000 lily buds by one steamer, however, would seem to indicate that some cutting is being done somewhere in the islands.

How is Trade?—We can truly say, so far as the general concern, that it is not so good, and that we mean the trade in vegetable seeds, and in a certain line of florists' flower seeds. It was never more active, while the sale of novelties, particularly those only novel in name, seems that people do not do without, was never so poor. All our industries, but more particularly our agricultural industries, have been so paralyzed for the past two years that the farmers wives have not had the money to pay for flower seeds, or for vegetable seeds for that matter. It is not that those they were compelled to buy, consequently the mail business has suffered severely, and in certain lines terribly. Being in touch with the trade throughout the country, we find no complaint so far as the quantity of sales is concerned, but loud complaints on the score of profits.

We recently canvassed the trade in Boston, and found but one opinion, viz., "we have no cause for complaint, but profits are small." We do not think that trade has been so active in New York in 1897 as at present. Nearly every dealer is from one to four days behind in filling orders, besides doing night work, as they are always glad to do. But there comes the same wall, "prices are so low there is no profit." From Philadelphia we hear the same story to all its detail. From the West, so far as we can learn, the demand for staples has been active, but fancies go slow. In Boston, the letters we have known more supplementary orders to arrive, possibly can be as plainly as anything. When a merchant lays in his usual supply of seeds, he gets more than he can replenish his stock to the amount of 50 per cent., as a good many have done the same. It is peculiarly more plainly than words that trade is good.

But there is a class of trade that has suffered. It is the class of trade that is associated with the retail. There is no disguising the fact of the great increase of profit in the wholesale trade. There are merchants, and these are coming in direct contact with the merchant in supplying the retail trade. Hence the corner plant of the old houses in the trade who stock a wholesale and a retail business. These are the ones who are suffering. Anxious to extend their business, they are going to the country merchant to handle seeds. In the country merchant they could do quite a trade in seeds, and they are finding that the profits with the seedmen, particularly in bulk seeds; they began to look around for other sources to buy seeds from, and to look long or far; the opportunities came to them in the form of John Doe, representing the best seed grower in the country and importer of seeds in this or any other country. They were soon put in the "inside" of the trade, and they were getting prices, and they had no little sympathy too, because they did not sooner find out about the trade, and they were to help and enhance their profits. The vast amount of knowledge of the seed trade these mer-

Table listing various seed varieties and their prices per 100 lbs. including Acheranthus, Agraricus, Alyssum, and others.

Table listing various seed varieties and their prices per 100 lbs. including Celcius, Echeveria, Fartigium, and others.

Table listing various seed varieties and their prices per 100 lbs. including Geranium, Heliotrope, and others.

TRADE LIST FREE ON APPLICATION. Cash with order from known customers of C. O. D. Orders amounting to \$5.00 and over, F. O. B., N. Y. City.

SEALED BULK GREENHOUSES OYSTER BAY, QUEENS CO., N. Y.

JAS. C. CLARK, Supt. P. O. BOX 34. W. M. L. SWAN, Prop.

chanta got in a short time from this way agronomy is truly astonishing. In the way...

SPECIAL ATTENTION TO MAILING GERANIUMS, CRIMSON VERBENAS, and best Ivy...

we don't claim to be! But our Stock is ROYAL and Cheap, you see! GERANIUMS, 40 best varieties, 8 varieties...

VERBENAS THE CHOICEST VARIETIES and HEALTHIEST PLANTS GROWN.

STONG BUSHY PLANTS, in bud and bloom, \$2.50 per 100; \$50.00 per 1000. STRONG ROOTED CUTTINGS, 75cts. per 100; \$60.00 per 1000; \$20.00 per 1000.

Grove P. Rawson's Tested Geranium Novelty "PEACH BLOOM." A pink bedding Geranium pair excellence for sunny exposed situations.

LARGEST and FINEST FLOWERS HEALTHY VIGOROUS STOCK

Table listing prices for BEST MAMMOTH, OLDER MAMMOTH, and other varieties.

STONG CARNATIONS ROOTED CUTTINGS HEALTHY VIGOROUS STOCK

Table listing prices for Jubilee, Armanidj, Rother, and other carnation varieties.

STONG ROOTED CUTTINGS HEALTHY VIGOROUS STOCK

Table listing prices for Agraricus, Celcius, Fuchsia, and other varieties.

STONG ROOTED CUTTINGS HEALTHY VIGOROUS STOCK

WOOD BROS., Fishkill, N. Y.

**Californian Seeds.**—At last seed growers have been able to work their crops. After several months of rain and cold the sun again comes forth with its warm smiles.

It will be some time, even with the best seed, before the crops will be ready to clear of weeds. Some pieces of onions, especially in the low lands, are totally ruined with weeds. In many places, in a wretched state. The warm weather, if not too late, may have some effect in reducing the weeds. The crops of radishes are promising. Red and white onions are especially suffering. Yellow are holding out a very few.

Now that the lettuce is growing, it can be seen that the stand is not the best. In many places, where the plants were some time it drowned out, making the fields almost spotted.

Spinach is a trifle small, and is sending out its seed stalks. The crop promises to be better than the average.

Carrots, leeks and radish are doing well and making good growth.

Some peas, though late, are now making fast growth. Volunteer pieces should by this time be in bloom, but as yet no buds are visible the cold weather has held them back at least a month.

In Mr. Hamilton's article on "Sweet and Sour Florists" he names the best twelve varieties, and among them six are of Californian origin. This speaks very well for the species engaged on in the flower. The time is not far off when the introduction will come from the Golden State. Probably the best will be the best sellers in the San Francisco market. The Perle and the California are the former is especially fine, and the latter is California is also coming to the front in various begonia. The plants which would create a sensation if exhibited East. They are giant in size, without being the least coarse. The leaves have the most brilliant and glowing colors, being illuminated most of the time with red, orange, vermilion and crimson, and in places with the green. They are large and silky in texture, and are valuable for their foliage. The flowers are in the form of numerous clusters, in red and pink. On large specimens there are frequently seventy or eighty in a cluster.

Asters, verbasus and cosmos are doing well, although the plants are very small. The majority are now in flower. The plants about the middle of this month, and it is hoped that the late frosts will not catch them. See our notice of CALIFORNIA SEEDS.

#### A New Greenhouse House.

For several years J. G. & A. EARL, of Saddle River, N. J., have been preparing for their special rubber hose, the lining of which is made of long fibre cotton yarn. This hose, which has been in use for ten years, is the most durable and has lasted for four to seven years. They have now made an agreement with the California Favorite Rubber Co. to manufacture for them this special grade of hose, which they intend putting on the market.

#### St. Louis.

##### Easter News.

The promise of good trade at Easter was fully realized. The weather cleared up early in the week gave way on Wednesday to bright, clear weather, which continued all the remainder of the week. Easter day was an ideal day.

Stock was scarce the first three days of the week, but by the second section on Thursday it came on in increased quantity and continued plentiful all through the week. Shipping of the week. Wholesale were busy on Thursday and Friday until late at night.

The local trade was exceptionally fine. Plants enjoyed a call that was unprecedented to any number of the second section that it divided evenly honors, with cut flowers.

Cut flowers were high—too high said some of the florists. Some growers refused to buy more carnations than for actual orders. With the exception of Perle, were plentiful and mostly of good quality. There was some picked stock, but not so much as was expected. There were few Extras fancy stock was scarce; and was duly appreciated by the growers; but there was enough of more second section to fill all orders. Carnations were at \$1 per dozen, and brought from \$3 to \$4 per 100, according to the quality. There were no sensational prices obtained for them; but they were simply refused to buy more than \$4.

Bulb stock was abundant, Dutch hyacinths leading in the light. Light shades sold quickly, but dark purple color had to be forced to effect sales. There

was little call for Romanes—their day is past and no effort could create enthusiasm in their behalf. Paper White shared the retail trade, and was not in the evidence. Daffodils were plentiful, and sold well at \$3 to \$4 per 100. Cut Harebell was abundant and very good, and sold readily at \$10 to \$12.50 per 100, but dragged after that, and on Sunday concessions could be made to \$10. In overs, too, were abundant and sold well.

Violets were not in oversupply—double and single varieties were in demand. Sweet peas were plentiful, and draggy at over \$3 per 100.

Not all plants there was a grand showing of spiraea, Marguerites and hydrangeas. Azaleas and clematis were scarce, and in the most recent arrivals some of the best could have been sold if they were sold out of the growers; but the florists were not so fortunate, and some of them are displaying them in large quantities in their window.

Eyes of the year, there were some happy effects produced in window decorations. I never saw better harmony and one effects than this season, and the best of them was a divergence from the orthodox style.

In retail circles everybody seems pleased with the plants. There were a few complaints were numerous and all were beautifully executed. Retail orders kept the florists busy, and many of them were night filling their orders for Easter morning. I am told by the manager of the Dispensing House that they were out of a small army of messenger boys to help out the florists. The animation in trade was surprising. I hear no complaints from any source.

##### Jettings.

Dr. A. S. Halsted and Henry Emmons, of St. Louis, Mo., were visitors to this market.

Mr. UGHEN, of Washington ave., had a new front put in his store and for the first time was in the market for handsome window cases. C. G. F.

#### Denver, Col.

The volume of Easter business in this city is the largest since the war. There was a very decided increase in the demand for plants at a falling off in the retail trade. The plants were in good demand, with a moderate supply, and nearly all the growers were cleaned out Saturday night. The florists were largely responsible for this, as a large number of blooms was worthless, and even the plants they sold were in poor percentage show the effect of the disease in the foliage. Next to Harebell, azaleas and clematis sold the best. A few plants in pots were snapped up early. Prices ranged from a year ago. Azaleas retailed at \$1.20, as against \$1 and \$1.50 a year; lilies sold at \$3 per dozen, the same as last year; apricot, 50c, as against 75c, a year ago; roses, \$1.50 to \$2, as against 50c, lower than last year, and carnations, 25c, as against 30c. The same. The prices on bulb stock were about the same as last year: Daffodils and violets \$1 to \$1.25 per 100, as against 75c per 100, which was the same last year. Good Beauty were scarce, but the demand was high and they became a high price obtainable. The weather was perfect, and plants could be delivered to the florists. The florists were ready, and deliveries were easily handled.

#### Buffalo.

##### Easter Echoes.

Another Easter show on the florists' trade in this town probably that the florists' trade was the best. The florists, though not so fierce as they would remember a year ago, were not entirely satisfied with the plants. There were a few of the latter part of the week, previous to Easter Sunday, though still just warm in the flower beds. The florists were offered without protection. Though the cut flower trade was not so considerable, the plants were in demand. The florists were in Lillium Harriell, though appearances beforehand might have indicated a better result. The florists were in demand, owing to the uncertain flowering of some lots, and to the disappointing ravages of the disease. Some growers, who had timed them just right, had such large numbers that they reached around just to the florists. A few of the florists were in some cases. They wholesaled, from dealer to dealer, at 20c per 100. Some were retailed, as a rule, at 30c per dozen. Azaleas sold well, all the goods plants being in demand. The florists were in demand, and remunerative prices. Hydrangeas of good quality and nicely in flower were more

plentiful than in recent years. Palms and ferns were in demand, and the florists commanded their share of attention and sale. Bulb stock, in hyacinths, seemed to be retail trade, and many of them were wholesaled as low as \$8 to \$9 per hundred, the retail price being 15c. The florists were in demand, and sold for less. These were shown in much quantities on the markets than in the stores.

In the cut flower trade the supply ran about as usual. Carnations were in demand, and the florists decided scarce and stock of any character whatever bringing at whole retail prices ranging from 75c to \$1.50. Left some left margins for the retailers on much of what they sold. Roses, however, were in demand, and many of them were going kinds of flowers. Bride and Mermel were in good supply and went at \$8 to \$10, while Mestor were plentiful at \$8 to \$10.

All the store stock generally to have closed out the store readily, and the weather, having come out very pleasant over Sunday, helped very materially to encourage increased sales.

Roman hyacinths were in unpleasant evidence as regards quantity, till plentiful, and daffodils rather scarce. The leading Main street stores seem to have had a good stock on hand, and many of them into the hours when the shoppers were wishing to be waited upon. And no doubt the florists will have a good record as being fairly satisfactory to all.

##### After Easter.

Easter Monday showed up a temperature of 70 degrees, and a heavy snow, snow flurries, and a wintry snap and rather reducing business. Tuesday was a mild, cold day, and Wednesday again showing Spring indications.

##### The News.

CORA A. CORNER, for past five years bookkeeper with Daniel L. Ross, and later with W. F. Kesting, resigned that position this week, in prospects of entering the florists' business. She will be in the city on Wednesday, April 28. Miss Cotter was very agreeable to the florists, and their good wishes are freely extended.

Buffalo will shortly lay claims to public attention. The florists' business is increasing having decided on the construction of such to be begun at an early day. The florists are now in the process of erecting a portion of the Botanic Gardens proper, which now are under the direction of the florists. The florists are now in the process of erecting a portion of the projected structure is to attain dimensions of a length of 250 feet by 75 feet wide, and the building to be 15 feet high, and expended on this new public park feature.

##### Vid.

#### St. Paul.

##### The Easter Trade.

Easter week was an ideal one. Sales were not phenomenally large, and profits were not abnormally large, and every one was busy, and all good stock was sold. The florists were in demand better than last year, the majority report an increase of from 25 to 75 per cent. over last year. The florists were in demand, and the florists were in demand. It was the best and most satisfactory Easter business ever done in the city.

The florists were in demand on Wednesday until after church time Sunday, when a howling northwest gale set in, and the florists were in demand. The florists were in demand, and the florists were in demand. Happily, however, they were delivered in time.

In the cut flower line, roses, as usual, were in demand. Carnations were eagerly sought after, and the florists were in demand. Violets, lavender, cut lilies, daffodils, Roman hyacinths, and many of them were in demand. The florists were in demand, and the florists were in demand. The florists were in demand, and the florists were in demand.

Retail prices of cut flowers and plants were about the same as last year's, roses selling at \$1.25 per 100, as against 50c, and 75c; violets \$3 per 100; and bulbs stock at 50c and 75c per dozen. The florists were in demand, and the florists were in demand. The florists were in demand, and the florists were in demand. The florists were in demand, and the florists were in demand.

I thought last year that the hydrangeas were in demand, and the florists were in demand, and the florists were in demand, and the florists were in demand, and the florists were in demand.

everything cleaned out. Their long harvest was very good. One plant of Harriell had twenty perfect buds and blossoms. Their shipping trade was far ahead of all other florists.

##### Boulder Stock.

With Easter past, the next thing was to engage the flower trade. The florists were in demand, and the florists were in demand. The florists were in demand, and the florists were in demand. The florists were in demand, and the florists were in demand. The florists were in demand, and the florists were in demand.

With Easter past, the next thing was to engage the flower trade. The florists were in demand, and the florists were in demand. The florists were in demand, and the florists were in demand. The florists were in demand, and the florists were in demand. The florists were in demand, and the florists were in demand.

With Easter past, the next thing was to engage the flower trade. The florists were in demand, and the florists were in demand. The florists were in demand, and the florists were in demand. The florists were in demand, and the florists were in demand. The florists were in demand, and the florists were in demand.

With Easter past, the next thing was to engage the flower trade. The florists were in demand, and the florists were in demand. The florists were in demand, and the florists were in demand. The florists were in demand, and the florists were in demand. The florists were in demand, and the florists were in demand.

With Easter past, the next thing was to engage the flower trade. The florists were in demand, and the florists were in demand. The florists were in demand, and the florists were in demand. The florists were in demand, and the florists were in demand. The florists were in demand, and the florists were in demand.

With Easter past, the next thing was to engage the flower trade. The florists were in demand, and the florists were in demand. The florists were in demand, and the florists were in demand. The florists were in demand, and the florists were in demand. The florists were in demand, and the florists were in demand.

With Easter past, the next thing was to engage the flower trade. The florists were in demand, and the florists were in demand. The florists were in demand, and the florists were in demand. The florists were in demand, and the florists were in demand. The florists were in demand, and the florists were in demand.

With Easter past, the next thing was to engage the flower trade. The florists were in demand, and the florists were in demand. The florists were in demand, and the florists were in demand. The florists were in demand, and the florists were in demand. The florists were in demand, and the florists were in demand.

With Easter past, the next thing was to engage the flower trade. The florists were in demand, and the florists were in demand. The florists were in demand, and the florists were in demand. The florists were in demand, and the florists were in demand. The florists were in demand, and the florists were in demand.

With Easter past, the next thing was to engage the flower trade. The florists were in demand, and the florists were in demand. The florists were in demand, and the florists were in demand. The florists were in demand, and the florists were in demand. The florists were in demand, and the florists were in demand.

With Easter past, the next thing was to engage the flower trade. The florists were in demand, and the florists were in demand. The florists were in demand, and the florists were in demand. The florists were in demand, and the florists were in demand. The florists were in demand, and the florists were in demand.

With Easter past, the next thing was to engage the flower trade. The florists were in demand, and the florists were in demand. The florists were in demand, and the florists were in demand. The florists were in demand, and the florists were in demand. The florists were in demand, and the florists were in demand.

With Easter past, the next thing was to engage the flower trade. The florists were in demand, and the florists were in demand. The florists were in demand, and the florists were in demand. The florists were in demand, and the florists were in demand. The florists were in demand, and the florists were in demand.

With Easter past, the next thing was to engage the flower trade. The florists were in demand, and the florists were in demand. The florists were in demand, and the florists were in demand. The florists were in demand, and the florists were in demand. The florists were in demand, and the florists were in demand.

With Easter past, the next thing was to engage the flower trade. The florists were in demand, and the florists were in demand. The florists were in demand, and the florists were in demand. The florists were in demand, and the florists were in demand. The florists were in demand, and the florists were in demand.

With Easter past, the next thing was to engage the flower trade. The florists were in demand, and the florists were in demand. The florists were in demand, and the florists were in demand. The florists were in demand, and the florists were in demand. The florists were in demand, and the florists were in demand.

With Easter past, the next thing was to engage the flower trade. The florists were in demand, and the florists were in demand. The florists were in demand, and the florists were in demand. The florists were in demand, and the florists were in demand. The florists were in demand, and the florists were in demand.

With Easter past, the next thing was to engage the flower trade. The florists were in demand, and the florists were in demand. The florists were in demand, and the florists were in demand. The florists were in demand, and the florists were in demand. The florists were in demand, and the florists were in demand.

With Easter past, the next thing was to engage the flower trade. The florists were in demand, and the florists were in demand. The florists were in demand, and the florists were in demand. The florists were in demand, and the florists were in demand. The florists were in demand, and the florists were in demand.

With Easter past, the next thing was to engage the flower trade. The florists were in demand, and the florists were in demand. The florists were in demand, and the florists were in demand. The florists were in demand, and the florists were in demand. The florists were in demand, and the florists were in demand.

With Easter past, the next thing was to engage the flower trade. The florists were in demand, and the florists were in demand. The florists were in demand, and the florists were in demand. The florists were in demand, and the florists were in demand. The florists were in demand, and the florists were in demand.

With Easter past, the next thing was to engage the flower trade. The florists were in demand, and the florists were in demand. The florists were in demand, and the florists were in demand. The florists were in demand, and the florists were in demand. The florists were in demand, and the florists were in demand.

With Easter past, the next thing was to engage the flower trade. The florists were in demand, and the florists were in demand. The florists were in demand, and the florists were in demand. The florists were in demand, and the florists were in demand. The florists were in demand, and the florists were in demand.

With Easter past, the next thing was to engage the flower trade. The florists were in demand, and the florists were in demand. The florists were in demand, and the florists were in demand. The florists were in demand, and the florists were in demand. The florists were in demand, and the florists were in demand.

THE MASTERS.

# FINE STOCK OF PALMS



## ARECA LUTESCENS

6 in., 1 plant in pot, 20 to 24 in. .... \$1 0  
 6 in., 1 plant in pot, 24 to 30 in. .... 1 25  
 7 in., 1 plant in pot, 30 in. .... 2 50  
 7 in., 1 plant in pot, 40 to 48 in. .... 3 00

## KENTIA BELMOREANA

Strong Home-Grown Plants.

5 in., 22 to 30 in. high. .... \$1 00  
 6 in., 20 to 28 in. high. .... 1 00

## LATANIA BORBONICA

6 in., 5 to 6 leaves, 20 to 24 in. high, 30 in. broad. \$1 00  
 7 in., 7 to 8 leaves, 24 to 30 in. high, 37 in. broad. 1 50

## PHENIX RECLINATA

6 in., 24 to 30 in. high. .... \$1 00

All Plants Measured from Top of Pot.

# JOSEPH HEACOCK, WYNCOTE, PA.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

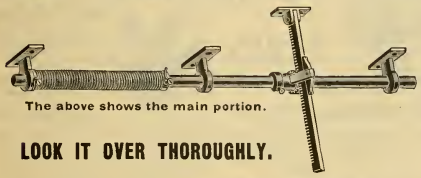
# A GOOD GREENHOUSE HOSE

We are having a hose manufactured from the best material in the market that will give satisfaction to all who try it. We can furnish it in 25 ft., 40 ft., and 50 ft. lengths, at 15 cts. per foot with connections complete. References required from unknown parties.

Address J. G. & A. ESLER, Saddle River, N. J.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

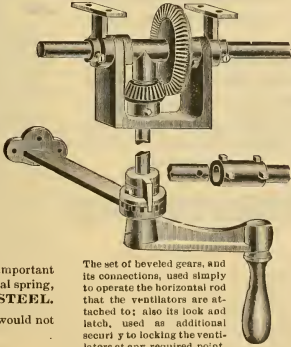
# THE ORMSBY SYSTEM



The above shows the main portion.

LOOK IT OVER THOROUGHLY.

SEE THE SIMPLICITY of the whole system. The first is the shafting, consisting of a "5-8" solid steel rod, being supported in suitable hangers, such as are adapted to different style houses. On this rod is a small gear, in which a rack travels up and down, as it raises and lowers the ventilators. On one side of this gear you notice a guide used to keep the teeth of the rack into the teeth of the gear. Next is the small collar on the rod, there merely to hold the guide up to the gear.



The set of beveled gears, and its connections, used simply to operate the horizontal rack that the ventilators are attached to; also its lock and latch, used as additional security y to locking the ventilators at any required point.

We next see what is the all-important in the Ormsby System—the spiral spring, made of the very best grade of STEEL.

Without THIS, the system would not be worthy your consideration.

# E. A. ORMSBY, Melrose, Mass.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## Send us LIST OF YOUR WANTS FOR THE . . . COMING SEASON NOW.



Do not Delay, as Early Orders will always secure the Best

We will make you bottom prices on Freesia, Calla, Eucharis, Little Gem, Japan LONGIFLORUM Eximium (best for forcing), Romanus, Dutch Bulbs, Japan Amaryllis, Eucharis, Album, etc. Tree Fern Stems, Palm Seeds.

We offer an extra fine strain of Hardy Japanese Gladioli, finest mixture, at \$2.00 per 100.

List for Price List if the mail has not brought it to you, and do not throw in the WASTE BASKET.

Address all communications to

# H. H. BERGER & CO., San Francisco, Cal.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## STANDARD POTS.

We are now ready to supply a superior quality of Pots in unlimited quantities. Catalogues and price lists furnished on application.

## A. H. HEWES & CO., NORTH CAMBRIDGE, - MASS.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## MASTICA

For Glazing Greenhouses. A substitute for putty. Superior in every way. MASTICA and MASTICA GLAZING MACHINES were given Highest Award of S. A. F. at Philadelphia. Address for circular, F. O. PIERCE CO., 170 Fulton St., N. Y. Sole Manufacturers.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## SPECIAL!

For Sale, Extra Fine Tubers of NEMBULOM SPECIOSUM  
 Price, 50c. each; \$3.00 per doz., or \$50.00 per 100.  
 Cash with order.  
 JAS. McNAID, Rosemont, Catonsville, Md.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE



WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# A. POINTER AND PROFIT

Every Florist is Looking for the Above Firm.

## HOW TO FIND THEM:



Do not hustle all of your Gladiolus Bulbs into the ground early in the season and cut all your blooms in August. Plant at intervals of two weeks, reserving a good proportion until the last of May and June. Planted late they will come into bloom in the cool of early Autumn, producing the finest spikes at a season when flowers are scarce and sell readily. We can still supply a few thousand H. G. Seedlings at

\$8.00 per 1000; 2d size, \$5.00 per 1000.

Beautiful light colors. Nothing better.

N. B.—If you are not in a hurry for your order, have them come by freight when ordered in quantities of a thousand or more.

CASH WITH ORDER.

# CUSHMAN GLADIOLUS CO.

EUCLID, OHIO.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**HOUSEHOLD.**

OPEN TO ALL . . . FREE TO ALL

Answers Solicited from Those Who Know.

(36) Piping a Greenhouse.—I have a greenhouse 50 by 20 feet, even span roof, 100 square feet of glass, the height of the 4 feet high; three raised benches in the house, center bench 8 feet wide; side benches 4 feet. At each end a carnation house 4 by 8 feet, 480 square feet of glass; walls 3 feet high; the carnation house abuts on each end of large house. Quantity of 1-inch pipe will I require, and how will it be distributed; also what quantity of 3-inch pipe would be required if 1-inch would be considered too small?

The carnation house is 50 feet from boiler, and is directly opposite center bench of large house. Would it be advisable to continue pipes through carnation house from center bed of large house, or from the sides? I intend to use a horizontal tubular boiler 40 feet long, 2 feet diameter, 18 tubes 2 inch. Boiler has been used for steam and only one-half is tubed. Fuel to be used is wood. Temperature required is 60 degrees and sometimes it goes down outside to 10 degrees below zero.—L. R. TAYLOR.

—In piping the above described houses, it will probably be best to run a 3/4-inch overhead flow upon the center pipes of the large house, and continue it into the carnation houses carrying it just below the ridge. It will be in the way there, but may be continued into the carnation house as two 2-inch pipes, either overhead at either side of the walk or on the logs of the benches. To the carnation houses will require two 2-inch pipes on each side as returns. These can be continued back to the boiler under the center bench of the large house.

The remaining radiation required by the main house can be in the way there, either flow and four 1 1/2-inch returns on each side. I should prefer the arrangement of the pipes in the use of two pipes. The 3-inch pipe can be considerably above the boiler. If 1-inch returns are to be used, it will require eight returns in pipe to carnation house, and six on each side of the large house in addition to the flow-pipes, and the returns from the carnation house in addition to the increased friction in the small pipes, we must consider that they will cool more rapidly if the fire gets low.

If the boiler is of small size, and should give good results with a fire-pot 4 by 2 feet, with a grate 3 by 2 feet at the front end.—L. R. TAYLOR.

(37) Heating.—Having experienced considerable difficulty the past Winter in keeping my place warm, I have decided to make such changes as may be necessary to secure me against another such experience, and therefore come to you for advice. I have decided to abandon my flue, and put in instead a coal-oil coil. Will you kindly advise me what size would be necessary to heat a room 25x50, 14 feet high, north and south exposure? Am now using eight 1-inch flows and three 1/2-inch returns, one system in the house. I have pipe enough, provided I put in a coil that will give me a steady heat. It is a coil of heavy iron, and will burn fairly well with a good heavy fire, but is not so much of a coal-burner, and I want something that is more economical. I have natural gas in my house, and would like to use it, in connection with the gas for fuel, when I make the change. Would like to put in a coil large enough to heat my dwelling, in addition to the greenhouse, and in figuring this out please allow for four rooms that will average 25x15 feet, also a bathroom, and a concrete surface necessary, and how high above grade, coil should be set? Would like to maintain a temperature of 60 degrees, and thermometer sometimes falls to 30 below. W. L. FARGUHARSON.

—To maintain a temperature of 65 degrees when the thermometer is 30 degrees below will require a moderate amount of heat that will be furnished in a house of the above size by eight 1-inch flows and three 1/2-inch returns. I can only secure 50 degrees in a house 50x20 feet, and with a ridge 10 feet high with eight 1 1/2-inch and two 3/4-inch pipes, when the thermometer stands at 30 degrees below zero, unless the fire is forced. Thus with 15 per cent. more piping, in a smaller house, and with 10 degrees higher

temperature outside, it is only possible to maintain a temperature 15 degrees less than is desired in this case, and it can be seen at once that much of the trouble can be attributed to insufficient radiating surface.

The radiation supplied is not far from 225 square feet, but to heat the house to 65 degrees with an economical use of fuel, this should be increased to 600 square feet. If the dwelling-house is to be heated we will have to provide for an additional 375 feet. The heater will then need to contain about 150 square feet of heating surface, and will require a grate surface of from 5 to 6 square feet, according to the fuel used.

—In order to secure the needed radiating surface for the greenhouse, about twelve 1 1/2-inch and three 3/4-inch pipes should be added. L. R. TAYLOR.

**Waco, Tex.**

The Waco Floral Society will offer a premium at their Fall show, to be held in November next, to the school children of the State seventeen years of age and under, for the most complete and best arranged herbarium composed of 1000 specimens of native Texas plants and flowers. Those who are interested in this exhibit are requested to send in their specimens by the first of August. He will take pleasure in mailing a full premium list as soon as issued.

**PLANTS and FLOWERS.**

**Carnations for Hot Climates.**

Dr. D. Fols, of Houston, Tex., sends us sample bulbs of carnations, which he states are "the only ones that will thrive in the hot, dry Summer of Texas." These flowers came in too shriveled a condition for us to pass an opinion on them.

We have received from G. T. Sebneman, Blue Point, N. Y., a bunch of Marie Louise violet-flue, large, well-colored flowers for the season, and deliciously fragrant. In an accompanying note this gentleman writes: "I intend to ship on Saturday 50,000 flowers. I have shipped up to the list of 400,000 flowers. I will ship 100,000 more. If I stop, I will reach the million and a half mark. I have made the growing of Marie Louise violet a life-long study, and handle nothing else but that variety. I think I have them as near perfection as I possibly can make them, and have always received the very highest market price. At the present moment I would not pick a flower for 10c to 10c; it is only a waste of time to do so."

**A New Definition.**

GARDENER.—Dealer in green-goods and water-stock.—Rural New Yorker.

**PA LMS**  
Decorative Plants  
At Drestly Reduced Prices.  
Send for new Wholesale list, and see our catalogue, or write for it to your nearest florist.  
W. L. FARGUHARSON,  
Plants and Flowers, No. 28  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**FERN S**  
Varieties Suitable for Fern Displays, etc.  
ADIANTUM CUNICULATUM, 1 inch, \$5.00 per doz.  
Fine luscious stock.  
Cash with Order.  
CHAS. F. BAKER, Utica, N. Y.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**SIEBRECHT & SON,**  
The Largest and Finest Collection of  
**PA LMS,**  
DRACACAE and FERN S  
ARCAURIAS, etc., in all sizes.  
Prices to suit all. One visit and you will know.  
**STOCK HOME-GROWN.**  
WRITE, TELEGRAPH OR TELEPHONE, AND SEE OUR CATALOGUE FREE.  
Rose Hill Nurseries, New Rochelle, N. Y.  
New York Office, 400 Fifth Avenue.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**GOOD STOCK. LOW PRICES.**

Table listing various plants and flowers such as Pansy, Argen Luteo, Kertia Bismarckiana, Lantana Borbonica, Cecos Weddelliana, Geranium, Potentilla, Helleborus, and Hellebore, with prices per 100.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Nephrolepis Exaltata Bostoniensis.**  
THE BOSTON DROOPING FERN.

This is the Genuine Stock. Now ready or orders booked for June to August delivery. Strong plants for \$4.00, \$30.00, \$20.00, \$10.00, \$12.00, \$15.00, \$20.00, \$30.00, \$40.00, \$50.00, \$60.00, \$70.00, \$80.00, \$90.00, \$100.00, \$110.00, \$120.00, \$130.00, \$140.00, \$150.00, \$160.00, \$170.00, \$180.00, \$190.00, \$200.00. L. H. FOSTER, 45 King St., Dorchester, Mass.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**JULIUS ROEHR'S,**  
Headquarters for  
**Palms and Decorative Plants**  
RUTHERFORD, N. J.

Table listing plants like ARECA LUTES ENS, LATANIA BORBONICA, etc., with prices per 100 and 500.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**ORCHIDS FOR CUTTING.**  
The Largest and Finest Stock in the World.

T. SANDER & CO., St. Albans, England.  
Agent, A. DEIMMOCK, 47 & 48 West 2d St., New York, 114 Chambers St., N. Y. City.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**PA LMS**  
AND  
**FERN S.**

The LARGEST STOCK in the West.  
GEO. WITTBOLD, 1709 N. Halsted St., CHICAGO, ILL.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**P. OUWERKERK,**  
1123 Summit Ave., Jersey City, N. J.

Just received from our Holland Nurseries:

RHODODENDRONS, AZALEAS,  
SPIRAEA JAPONICA, LILIUM SPECIOSUM,  
PEONIES, BLEEDING HEART,  
POT GROWN LILACS, HYDRANGEA IN SORTS,  
CLEMATIS and H. P. ROSES, in the best sort.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**ORCHIDS and GREENHOUSE PLANTS**

FOR SALE.  
Address: P. O. Box 665. ALBANY, N. Y.

Having disposed of several of my Greenhouses and the remainder being over crowded, I have decided to offer for sale the excess, consisting of the greater portion and the choicest specimens of my collection for the past 20 years, either singly or in quantities. They are all well established, in fine condition, and many cannot be obtained in any other collection in America. A printed list sent on application. Sales made at reasonable prices.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**ROYAL NURSERIES**

LOUIS VAN HOUTTE PERE  
Ghent, Belgium.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**E. CORNING.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Table listing plants like AZALEA INDICA, KENTIA BELMORANA, KENTIA FORTENSIA, etc., with prices per 100 and 500.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# 3,000,000 APELOPSS VEITCHII

We offer a fine lot of strong one year old pot grown plants, from 3 inch pots, about 24 inches high, \$1.00 per dozen; \$7.00 per 100; \$60.00 per 1000.

## GLEMATIS PANICULATA.

A grand lot of this coming popular climber, extra strong plants, in 3 inch pots, 75 cts. per dozen; \$6.00 per 100; \$50.00 per 1000.

For a full line of **HARDY CLIMBERS**, such as **GLEMATIS**, **HONEYUCKLES**, **AKEBIAS**, &c., &c., and a large collection of **HERBACEOUS PLANTS**, in fact for anything that is seasonal. See our Quarterly Wholesale List, April issue.

**HENRY A. DREER, 714 Chestnut St., PHILA.**

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

IF YOU IMPORT ANY

### FLORIST OR NURSERY STOCK.

Don't forget to ask for Van Praussen and Kersbergen's (Kobert, Holland) price list.

**LOUIS VAN COEK**, General Agent, 295 Dorchester Street. - So. Boston, Mass  
WHEN WRITING MENTION THE FLORIST'S EXCHANGE

# TREES

**F. & F. Nurseries** SPRINGFIELD, N. J.  
Salem MILBURN, N. J. & W. B. E. R.

We grow and keep the stock the most extensive assortment of hardy Jersey stock. Catalogue free.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

ASSIGNEE'S SALE OF

### HARDY AMERICAN PLANTS and FLOWERS, TREES and SHRUBS.

Finest Collection in America. 40,000 native Azaleas, 5 species, well budded and with buds. Very choice stock of the most reliable Nursery must be sold this Spring. A great opportunity for Florists and "Contractors" to secure grand stock at wholesale prices. For lists and prices apply to

**ASSIGNEE, HIGHLANDS NURSERY, Kawana, N. C.**

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

### STRAWBERRY PLANTS.

Strong, Young, Healthy Plants, Specially Packed. Downing, Sharpless, Jessie, Haverland, Wilson, Splendid, Kentucky, Jersey, Early, Middle, Late, Van Deman, Schneider, Gray, Dayton, Cherry, Lady Thompson, Tennessee Prolific, Duke, Enhance, Shiner's Queen and Princeton. Each - 50 cts. per 100; \$3.00 per 1000. Marshall, Harry Carter, Mary, Belle, Henriem - 75 cts. per 100; \$3.00 per 1000. Crescent, Babes Wood, Warfield - 85 cts. per 100; \$3.50 per 1000. Michel's Early - 50 cts. per 100; \$1.25 per 1000. No. 2 - 60 cts. per 100; \$2.00 per 1000. Special Price Given on Large Orders. For other Fruit Plants, apply to

**CHAS. BLACK, Hightstown, N. J.**

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

### VEGETABLE PLANTS

**LETTUCE** - Big Boston, Grand Rapids, Boston Marger and White Leaf, 15c. per 100; \$1.50 per 1000.  
**CABBAGE** - Jersey Wakefield, Henderson's Succession and Early Summit, 15c. per 100; \$1.50 per 1000.  
**TOMATO** - Extra Early Red, Royal Red, 15c. per 100; \$1.50 per 1000.

**EGG PLANTS** - New York Improved, 25c. per 100; \$2.50 per 1000.  
**PEPPER** - Bull Nose, Ruby King, Sweet and Hot and Cayenne, 25c. per 100; \$2.50 per 1000.

**WATER PLANT CLEARY**, now ready for transplanting, 15c. per 100; \$1.50 per 1000, \$5.00 per 10,000.

We are headquarters for all kinds of **Vegetable Plants**. If you want them in large quantities, send for price list.

Cash with order.  
**R. VINCENT JR. & SON, White Marsh, Md.**

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

### 8000 ROSA RUGOSA 8000

Fine plants 3 ft. high, \$10.00 per 100. \$30.00 per 1000.

**2000 Hypericum Moserianum,** \$3.00 per 100.

**2500 Myerturn Nursery Co.,** Newport, R. I.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

### FAY'S CURRANTS FOR SALE.

Price of 2-year, No. 1, \$22.00 per 1000.  
" 2-year, No. 2, \$15.00 " "  
" 2-year, No. 1, \$35.00 " "

Packing free.

### F. BURDETT,

Clifton, Monroe County, N. Y.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

### DELAWARE COLLEGE AGRICULTURAL EXPERIMENT STATION.

DEPARTMENT OF HORTICULTURE AND ENTOMOLOGY.

G. HAROLD POWELL, Horticulturist and Entomologist.

Newark, Del., Dec. 15, 1896. Mr. A. PILLEN, Milford, Delaware. Dear Sir: - This is to certify that I have examined a large number of trees and plants in your nurseries for peach yellows, peach rosettes and San Jose scale, and have been unable to find any of the above diseases or any other injurious insects on the same.

Yours very truly,  
G. HAROLD POWELL,  
Horticulturist and Entomologist,  
Delaware College Agricultural Experiment Station.

### PEACH & PLUM TREES

FOR SPRING DELIVERY, 1897.

Reliable and cheap stock at low wholesale rates. Send for Sample Lists.

### ASPARAGUS ROOTS.

2 and 3 Years, Strong.

ALEXANDER PULLEN, Hightford Nurseries, MILFORD, DEL.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

# 100,000 APELOPSS VEITCHII

PRICES ON APPLICATION.

### Ampelopsis Veitchii

See prices in last issue.

### CANNAS.

Queen Charlotte, Alphonse Bouvier, Mme. Crozy, Chas. Henderson, out of 4 inch pots, \$1.00 per 100.

### AZALEAS.

Ghent and Mollis, strong plants, 30c. to 50c. ea.

If there is anything on which you like prices see our adv. in April 3 issue.

**THE ELIZABETH NURSERY CO., ELIZABETH, N. J.**

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

### SURPLUS - APPLES, PEARS and PLUMS

**GIENSTNUTS** - Parson, Parry's Giant, Ridgely, etc. **WALNUTS** - 1000 Java Perain, etc. **QUINCES** - Heavy Stock, Champion, Meach, etc. **TRIFOLIUM ORANGE**, Blaney's Longline, Rocky Chery, Calvery, etc. **CRANBERRIES**, all 1 and 3 year. **LOGAN BERRIES**, Maybarrs and Strawberry-Raspberries. Pot plants and cold-grown. **MA PLUMS** - Sugar, Norway, silver and Snowdrift, in large quantities and sizes.

**PARRY'S POMONA NURSERIES, Parry, New Jersey.**

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

# ROSES! ROSES!!

## STRONG FIELD-GROWN DORMANT PLANTS.

Large stock Gen. Jacqueminot, Paul Neyron, Ulrich Brunner, Maga Charta, Haroness Rothschild, and other leading varieties of Hybrid Perpetuals, \$5.00 per 100; \$30.00 per 1000.  
**MOSS ROSES** in the best sorts, \$3.00 per 100. **CLIMBING ROSES**, Baltimore Belle, Prairie Queen, Tennessee Belle, and Seven Sisters, strong, 2 years, \$6.00 per 100.  
Wichuraiana (Memorial Rose) field-grown, \$5.00 per 100.

**CANNAS.** New Giant Flowered AUSTRIA, strong, 4 in. pot plants, \$3.00 per doz; \$30 per 100. A large stock of the cream of the **Tree and Shrub Climbing Vines**, Queen of the South, Sunbeam, Alphonse Bouvier, Charles Henderson, Madam Crozy, President Carnot, Admiral Avellan, Edward Miege, etc. Do not fail to get our prices before buying.

**CALADIUM ESCULENTUM.** Sound bulbs with good centers, 7 1/2 to 10 in., \$3 per 100. 6 to 7 1/2 in., \$3 per 100. 5 to 6 in., \$2 per 100.

### BEGONIA PURITY.

A new pure white of the semperflorens type, very free flowering, \$2 per doz.

**GERANIUMS.** Strong 2 1/2 in. pot plants, large stock of S. A. Nutt, Marvel, Heteranthe, La Favorite, and other best bedding sorts, \$25 per 1000.

Immense stock of **Fruit Trees**, Nut Bearing **Trees**, **Grape Vines**, and **Small Fruits**. One of the largest, if not the largest, assortment of **Ornamental Trees** and **Shrub Climbing Vines**, **Queen of the South**, **Sunbeam**, in America. And 32 greenhouses filled with what the average florist is most likely to want. Correspondence solicited. Catalogues and trade lists free.

### THE STORRS & HARRISON CO., Painesville, Ohio.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

# SURPLUS BEST

## Morrisville Nursery.

### DECIDUOUS TREES.

25 Ash, Am. White, 2 1/2 in. cal.	\$0 75	1000 Athrus, red, white and bluish color separate, 3 1/2 ft.	\$0 06
100 Beech, purple seedlings, 4 ft., thirco transplanted.	50 00	300 Althea, 6 to 7 ft., large bushes.	12 00
25 Catalpa, silver leaf, variegated, 8 ft.	5 00	100 mixed seedlings, 3 ft.	3 00
500 Elm, American, 3 ft., transplanted.	5 00	200 Anemone frutescens, 2 ft.	10 00
100 Lucas Tree, American.	5 00	100 Umbrella flowering, 2 ft.	8 00
50 Koehneana, purple flowers, 5 ft.	5 00	300 Herbertus Thunbergii, 12 in.	5 00
40 Liquidambar, 15 ft., 1 1/2 in. cal.	5 00	100 Calycanthus floridus, 2 ft.	6 00
50 Maple, Sugar, 7 ft.	5 00	25 Cercia Japonica, 5 ft., large bushes.	75 00
100 Norway, 7 ft.	5 00	200 Citrus trifoliata (Hardy Japan Orange), 3 1/2 ft.	1 00
50 Russet, 10 ft.	5 00	200 Deutzia scabra, 4 ft.	5 00
200 Russet, 10 ft.	5 00	300 Halesia dipetris and tetrapetris, 2 ft.	5 00
Nice, sticky tree, clean, straight stems, well-branched, well-rooted and w. lid-g.	5 00	25 " " 8 ft.	25 00

### FLOWERING SHRUBS.

500 Moss multiflora, strong, 1 year.	5 00
100 Wichuraiana, strong, 1 year.	5 00
100 " Prairie Queen, strong, 2 year.	5 00
100 Baltimore Belle, 3 year.	5 00
100 Samolucis aurea, 3 ft.	6 00
250 Spiraea albanica, 3 1/2 ft.	5 00
25 " Nevelet, single and double, 2 ft.	5 00
100 Vitharum plicatum, 3 ft.	15 00
200 " " 4 ft., large bushes.	25 00
500 Ulex Europaeus (Gorse), 18 in.	4 00
60 Wistaria chinensis, 5 ft., very strong plants.	10 00
25 Wistaria, 5 ft.	25 00
100 Wistaria chinensis, light plants, 5 ft.	5 00
100 " " very strong plants.	10 00

### EVERGREENS.

100 Arbor vitae compacta, 25 in.	\$0 15
75 " " 20 in.	\$0 10
150 " " Siberian, 40 in.	25 00
200 Juniper, 18 in.	25 00
40 Pine, Dwarf White, 15 in.	25 00
100 Silver Fir, 18 in.	10 00
100 Silver Fir, thirco transplanted, 3 ft.	20 00
85 " " Weeping, (Alikes inverted), 3 ft.	75 00

### HERBACEOUS PLANTS, &c.

200 Eibiscus, large clumps	\$0 25
200 " " divided	\$10 00
100 " " crimon eye	2 00
100 Iris Kempferi, mixed seedlings, large clumps	25 00
100 Iris Kempferi, divided	25 00
300 Iris filamentosa, 1 1/2 in. out, strong blooming plants	25 00
300 Iris filamentosa, strong, 2 years.	5 00

### GLADIOLI, Mixed.

Small bulbs, which have not yet bloomed, but will bloom this year. Per quart, 50 cts.; per bushel, \$4.00.

### SAMUEL C. MOON,

Telephone No. 73, Trenton Exchange. Morrisville, Bucks Co., Pa.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE



# NEW ROSE S. V. du PRESIDENT Carnot.

STRONG PLANTS, FROM 2-1/2 INCH POTS, READY NOW.

\$15.00 per 100; \$125 per 1000.

At our Model Farm, Carnot has stood 3 degrees below zero without protection. We have a limited stock of strong Carnots from 4 inch and 5 inch pots, splendid plants for Spring sales to the amateur.

Price, 4 inch pots, \$25.00 per hundred.  
" 5 inch " 35.00 "

ROBT. SCOTT & SON, 19th and Catharine Sts., Phila.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

# New Hybrid Tea Rose S. V. du PRESIDENT Carnot

IT GROWS, IT BLOOMS, IT SELLS.

Strong, healthy plants (none finer), out of 2 1/2 inch pots, ready for immediate shift, in large size.

PRICE, \$3 Per Doz.; \$15 Per 100; \$125 Per 1000.

ERNST ASIUS, West Hoboken, N. J.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

## AMERICAN BEAUTIES.

I have a few thousand more than I need for my own use.  
Clean, fine stock, 2 1/2 inch pots, \$7.00 per 100, cash with order, packed and delivered to R. R.

JOSEPH BRADBURY,  
SOUTH ORANGE, N. J.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

## LOOK HERE

The following plants are in A1 condition.  
ROSES, out of 2 1/2 pots. Bridemaid and Bride, \$2.50 per 100; \$25.00 per 1000; Meteor and Perle, \$1.00 per 100; \$10.00 per 1000.  
Marie Perle, 2 1/2 in. pots, \$3.00 per 100.  
Marie Louise Violette, rooted runners, 20c per 100; \$5.00 per 1000.  
Terms Cash or C. O. D.

C. MERKEL & SON, Mentor, Ohio.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

## Carnations!

(Rooted cuttings now ready.)

Mayor Fingus, Meteor, McGowan, Daybreak, Scott, Fortia, and other good ones.

Good Healthy ROSES for Spring Delivery.

Send for price list.

CUT ROSES and CARNATIONS always in stock.

H. DALE - Brampton, Ont.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

## 2c. Roses 2c.

Strong healthy plants, 2-1/2 in. pots.

Bride and Bridemaid  
Mary Washington  
Mrs. Elsie Lambert  
Francis K. Murray  
H. M. Stanley  
Pink Scepter  
Kilbuck

The following 2 1/2 c.:

Perle  
Mrs. Welch  
A. B. Gray  
Miss H. Martin  
Diamond Cochet  
Empress of China  
White Phoenix  
Miss Elizabeth Lee

## 2c. Geraniums 2c.

Fine large plants, ready for 4 in. pots.

La Favorite  
Grand Chancelier  
Revue Folioleuse  
Peach Blossom  
C. Nat.  
H. M. Chan, Pease  
H. M. Chan

## 3c. Abutilons 3c.

Sou. de Bonn Golden Fleec

SWORD FERN - Clean and healthy, 3 inch pots, 5c; 4 inch pots, 8c.

VINCA VARIEGATA - Nice, 2 inch stock, well established, 5c.

## PANSIES.

Strong transplanted, grown from select seed, 2c. per 100; \$6.00 per 1000.  
Cash with order.

JOHN A. DOYLE, Springfield, Ohio.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

## NEW AND CHOICE ROSES CARNATIONS and CHRYSANTHEMUMS.

All in A1 stock, now ready at up-to-date prices.

JOHN N. MAY, Summit, New Jersey.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

## REINBERG BROS.

Strong, Healthy ROSES From 2 1/2 inch pots.

GOLDEN OATE, PERLE BELLE SIEBRECHT, METEOR, BRIDE, BRIDESMAID, KAISERIN and LA FRANCE, \$2.00 per 100; \$25.00 per 1000. No orders for less than 100 of one variety accepted. We are the largest Rose growers in the United States, and can fill all orders with the very best stock. TESTOUT, \$5.00 per 100; \$50.00 per 1000. Rose Cuttings, \$1.50 per 100.

CARNATIONS - Rooted Cuttings.

IVORY, \$3.00 per 100; \$25.00 per 1000. ROSE QUEEN, \$2.50 per 100; \$20.00 per 1000. WM. SCOTT, FANCY WINGS, TIDAL WAVE, PORTIA, LIZZIE GILBERT, COIRSAIL, LIZZIE McGOVERN, STORM WING and SILVER SPRAY. \$1.00 per 100; \$8.00 per 1000. No orders for less than 100 of any one variety accepted. Special Prices on large lots. The above stock is well rooted and free from rust. Send orders to

51 WABASH AVE., CHICAGO, ILLS.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

## TRADE ?

BRIDES and BRIDESMAIDS, Plants for Florists; just to get in new stock. Good plants, but I want the benefit that comes from changing locally. Don't you?

Call in. SUNNYWOODS GREENHOUSES,  
FRANK L. MOORE, Osham, N. J.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

## Fine Healthy Stock of Brides, 'Maids, . . . . . . Perles, Meteors,

From 2 1/2 inch pots, ready for shifting, \$4.00 per hundred.

JOHN HENDERSON CO.  
Flushing, N. Y.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

## DORMANT ROSES - Own Roots.

FIELD-GROWN, 2 to 4 feet H. P's and Mosses, out back to 24 to 30 inches, \$4.00 per 100; \$40.00 per 1000. Also, standard and heavy standards, out back to 30 to 36 in. \$5.00 per 100; \$50.00 per 1000. Tied in bags.

\$5,000 of the following varieties: John Hope, La Reine, Louise Charta, J. Huet, L'Entant, St. Mi. Carmel, Jules Margottin, Capt. John Burton, Blanche Noire, Blanche Robert, Henry Martin, C. de Maudslayi, Saint. Mrs. Albert, Miss. Wandler, Ball. Queen of Prussia, God of Prussia, Crown by The Sea, Blush, Nursery Co., Black, Miss., now in cold storage, for sale at Council Bluffs.

W. F. HEIKEN, Mgr., Council Bluffs, Iowa.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

## Sterling American Novelty, the WHITE COCHET

Is a sport from Mamie Cochet, which is considered as the best pink outdoor donor rose. It has all the good qualities of its parent; its color is pure white and no doubt it will prove the best white out-door flower just to date.

Price, per dozen, from 4 inch, \$5.00, 100, 35.00.

All Orders Must be Accompanied with Cash.

J. COOK, 310 CHARLES ST., Baltimore, Md.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

## ROSES.

Roses, Strong plants, 2 1/2 in. pots, \$1.25 per 100 \$20.00 per 1000. By mail, 2c. per 100 additional.

- Agrippina
- Archduke Charles
- Don Silene
- Bridemaid
- St. Saviour
- Is. of Albany
- Dr. Griffith
- Miss. Lambart
- Countess Maritz
- Queen of Spades
- Polkington
- St. Charles
- Henry H. Stanley
- La Perle
- Princess Vera
- St. Victor
- St. Margot
- Marie Callot
- Maria Ysa Houtte
- Miss. Lambart
- Miss. Jno. Schwartz
- Miss. C. Herberich
- Miss. Margotte
- Miss. Lambart
- Papa Cochet
- Princess Megan
- Princess Margaret
- Princess Marie
- Snow Flake
- Snowflake
- The Queen
- Victor Hugo

HIBISCUS, 22 varieties, prices same as roses.

TERMS CASH WITH ORDER.

R. H. MURPHY, Urbana, Ohio.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

## GENERAL JACQUEMINOT and LA FRANCE ROSES.

A few hundred fine clean plants from 5 inch pots, at 9 cts. while they last.

Also GEMMATA VIRGINIANA, small-flowered, sweet-scented, white, 2 and 3 yrs., fine plants from open ground, at 5c. Packing free.

W. H. SALTER, Rochester, N. Y.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

## American Beauty

3 1/2 in. pots, very fine \$7.00 per 100, 2 1/2 " ready for shifting, \$5.00 per 100; \$40.00 per 1000.

## Grimson Rambler

3 1/2 in. pots, strong, \$10.00 per 100, 2 1/2 " ready for shifting, \$5.00 per 100; \$40.00 per 1000.

## Marechal Niel

5 in. pots, \$12.00 per 100, 2 1/2 " \$4.00 per 100, 2 1/2 " \$3.00 per 100; \$30.00 per 1000.

Also 100-000 HYBRID PERPETUALS, MOSSES and CLIMBERS, in 2 1/2 in. pots \$20.00 per 1000.

Write for our list of varieties.

W. S. LITTLE & CO., ROCHESTER, N. Y.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

## TEN DEGREES BELOW ZERO

is the temperature that has been undergone without injury by uprooted rose plants of the new climbing rose

in our nurseries the best Winter, thus proving it to be even harder than we had expected.

A Hardy Yellow Climbing Rose

is the best for wintering for years and Acan is, therefore, an immensely important introduction.

150 Blossoms in a Bush

is the name of the new climbing rose which is the most numerous of blossoms in a bush. It is the name of the new climbing rose which is the most numerous of blossoms in a bush.

EPHROSINE or PINK RANBLER

COLOR or WHITE RANBLER

Price for strong plants from 2 1/2 inch pots, \$15.00 per 100. Send for our Trade Lists of other Roses and General Stock.

JACKSON & PERKINS CO. Newark, New York

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

## EASTER TRADE REPORTS.

## Albany, N. Y.

Easter trade was somewhat in excess of last year—25 per cent. better. Carnations and geraniums had the best showing of flowers, azaleas and lilies in plants. Prices for cut flowers same as last year. Beauty, 15 to 20 per dozen; white, 15 to 20 per dozen; to 23; Cusin and Moran, the same; Perle, 15 to 20; Bon Silens, 21; carnations, 31 to 40 per dozen; lilies, 25 to 30 per 100. Plants realized a fair average—azaleas, \$1 to \$1.50; hydrangeas, \$1 to \$2; lilies, 20c. to 25c. per flower. Geraniums, 25c. per bulb. Bulbous stock at fair prices. As a novelty violets and pansies in pansets with apricot.

Spiraea and hydrangeas do not sell very well; they are seldom watered properly in the homes of the buyers, and, therefore, soon look shabby.

All agree that business this Easter was far ahead of anything previously experienced. Prices run a trifle higher, and still plentiful—no surplus. The store decorations were very elaborate.

WARRIUS BROS. sold right out. Alfred Whittle is now in New York combining business with pleasure.

G. G. HYRES reports a record breaker. He had a tremendous stock of stock, and is now busy with Easter weddings.

GOLDING BROS. kept two stores filled with carnations, while the other two kinds went like hot cakes. Violets were in good demand, selling freely at \$1 to \$1.50 per 100. By actual count, 35,000 were picked from four houses during Easter week. How is that for a record breaker? And still they come just as fine and fragrant as in midwinter. At the greenhouses young stocks of roses, especially Beauty, and carnations are looking healthy and strong.

JOHN DINGWALL reports the heaviest sale of lilies and Beauty realized from \$1.50 to \$2 a dozen Beauty realized from \$1.50 to \$2.00 on bulbous stock. He has some 10,000 tulips planted out for cutting, which look rather curly this morning after the frost of last night (19th), when ice formed an inch thick; still he thinks they will stand all right. He has a fine lot of bedding stock.

L. MEXAND reports a heavy business at a conservatory. He crosses chokes, lily palms and ferns in addition to the flowering stocks.

GEO. GREY, who was for several years foremost in the houses on the Gratiot Court estate, has been the larger range, and is raising a general line of stock, both for the wholesale and retail markets. W. M.

## Syracuse, N. Y.

Easter trade was exceedingly satisfactory in this city. When a careful comparison with former years, sales are generally conceded to be 25 per cent. larger for the average stock, while plants in bloom show a gain of over 20 per cent. The church decorations were larger than ever, and on a more elaborate scale. Prices ruled about the same as in former years—roses \$1 to \$2 per dozen; carnations, 50c. to \$1 per dozen; lilies, 25c. to 30c. per 100. Carnations were in great demand, while all bulbous stock was sold. Azaleas, 15c. to 20c. per daffodils, which, strange to say, has been the favorite previous to Easter.

P. R. QUINLAN Co. had a beautiful window decoration in city and suburbs. The interior of their store presented a splendid appearance. Such a lot of fine clean stock as seldom seen together, the lilies especially being much above the average.

HENRY BERT made an elegant display, his stock being the most complete. He had Burt had some very fine specimen Marguerites in 10 inch pots, which sold readily at \$3.

L. E. MAROUZZE was especially well pleased with his Easter trade, having sold out clean in all departments. He reports a tremendous call for carnations, and thinks the divine flower has come to stay in popular favor.

HENRY MORRIS, of Elwood, had a good share of business, disposing of his whole stock.

Wistary Water. This section was treated to a genuine taste of Winter yesterday (19th), the mercury dropping 35 degrees in less than 24 hours. Next morning it registered 10 degrees below frost, and at 10 o'clock, at the time of writing, no damage resulted to the Berisite, but it is feared that the fruit trees will suffer, as the snow and frost was accompanied with a biting wind. C. BARSON.

## Detroit.

Everybody did a splendid business; there was a great demand for nice flowering plants, and it did not matter so much what they were, as long as they were good. About the usual number of lilies were in the market, and sold readily at from 35c. to \$1.25 each, retail. Carnations were a little scarce, and good stock found a ready market at from \$5 to \$8 per 100, wholesale. Holzmaier had some very fine Buttercup and Eldorado, which went quickly at the top figure. Roses, general stock was good, and supply equal to demand. Prices ranged from \$4 to \$8 per 100. Some good hybrids were in the market, and sold readily at \$2.00 per 100. H. F.

## Milwaukee.

Easter trade was about 10 per cent. better than last year. Carnations and violets were in greatest demand. In pot plants, azaleas and Harriall sold the best. Cut flowers of all kinds were plentiful. Blossoms retailed at from \$1.25 to \$1.50 a

## Fall River, Mass.

Easter trade was better than a year ago, perhaps due to the fine weather. Carnations, as usual, were in greatest demand, but there were also many calls for roses and violets. The largest sales in plants were of Easter lilies at 15c. to 20c. Prices were the same as a year ago. Day break carnations sold at from 60c. to 70c., Scott and Alaska at 50c.

We have not noted any novelty in the flower trade, nor does the public seem to become tired of the ordinary flowers.

## Bridgeport, Conn.

Trade for Easter was fully equal to last year's. Carnations were the cut flowers most in demand for general trade, and sold at 50c per dozen, although there was much objection to the price, while last year they sold more freely at 75c. per dozen. For the better trade azaleas were the favorite. Easter plants, while for the general trade lilies were in the lead, but they sold at lower prices than last year.

## New Bedford, Mass.

Easter trade was very much ahead of last year's; according to reports of the old florists, the best they ever had. Violets and carnations were the cut flowers; there was no sale for azaleas. A large demand for Easter lilies in pots was expected, but very few were sold. Prices were the same as last year's—carnations, 50c. to 75c. per dozen; violets, \$1.00 per 100; lilies, 25c. to 30c. per 100.

There was a large call for potted plants, such as lilies, hydrangeas, ovals and spiraea. Still, spiraea in pots do not seem to sell so well as they used to.

## Newark, N. J.

The demand for church flowers was about the same as in previous years, but there was a large increase in individual orders for cut flowers for homes. The prices were fair. Lilies sold at 30c. to \$1.50 a plant. Roses went at \$1.25 a dozen and upward. Large American Beauty fetching from \$5 to \$6. The price of azaleas ranged from 75c. to \$3 for a plant, and hydrangeas from 50c. to \$1.50 per plant. Azaleas, 25c. to 50c., and geraniums \$3 a plant. Cut tulips could be purchased for 50c. and 50c. a dozen and upward, and daisies at 10c. to 25c. each.

## Newburg, N. Y.

The Easter trade was as good as in former years; a large supply of every kind of stock was on hand, and the following plants lily in the valley sold at 30c. to 40c.; fallow, 35c.; emerald, 35c. to 50c.; azaleas, 1 to 2; daffodils, 35c. to 50c.; lilies, 40c. to 45; marguerite, 35c.; primroses, 30c.; Spiraea japonica, 50c.; Marguerites, 35c.; hyacinths, 25c. to 35c. Cut roses sold at from \$1.25 to \$2, according to variety; carnations were scarce and brought 50c. a dozen; lily of the valley, 50c.; daffodils, 75c. to \$1; tulips, 50c. to \$1; narcissi, 50c.; violets, 75c. to \$1 per 100; calla, \$1.50 a dozen; lilies, 20c. to 30c. a bloom; heliotrope, 50c. a dozen.

## Mount Vernon, N. Y.

There was an increase of nearly 20 per cent. in the Easter trade this year over previous years. There was a slight demand; many more carnations could have been sold had not the price been so high. Violets were in greatest demand.

Prices for roses were about the same as last year's; average, \$3.50 per dozen. Carnations last year sold at 50c. and 75c. per dozen; this year, 75c. and \$1, which stopped the demand.

There was nothing in the way of novelties. Baskets of plants in bloom sold well. Large expensive plants or baskets were very hard to dispose of, the demand being mostly for cheaper ranges. Customers were all complaining of hard times. T. J. TOTTER.

## Saratoga Springs, N. Y.

Business was about the same as last year's, if anything, a little poorer. Carnations were in brisk demand, followed by roses. Violets had no sale. In plants, hydrangeas, lilies, azaleas and hyacinths were in fair demand. The prices for cut flowers were about the same as last year. The people are tired of spiraea. Lilies in pots sold fairly well. Saturday it rained most all day, and hurt the trade a good deal. T. J. TOTTER.

## Bangor, Me.

Easter trade was the best in Bangor's history, notwithstanding that all plants and flowers were sold. They were retailed a few cents below Boston wholesale quotations. Fine, extra large flowering plants, such as roses, were in the line of small plants.

Carnations—mostly Daybreak—were in large quantities bought for pots, and set in the top price. Mixed grades brought 50c. per dozen. Bulbous stock went slow. On the whole, the business was a perfect picnic for all concerned.

## Branching Lilium Harriall.

Our illustration of the branching lily is reproduced from a photograph sent us by George Cooke, Sr., of Albany, N. Y. The branching habit is becoming quite common. Several cases have come under our observation. The one of Mr. Cooke's plant had fourteen blooms.

## Rahway, N. J.

W. B. DU RIE has opened a store in the main business street of this city for the purpose of selling cut flowers. The Easter trade was very good; sold out clean everything in flowers.

## Branching Lilium Harriall.

A comparison of prices shows that Beauty roses sold for per dozen less than they did last year; other roses 50c. a dozen less. Violets \$1 per 100 lower than in 1916. In plants azaleas went at 50c. to \$1, and lilies at 5c. a flower less than was obtained last Easter.

Hydrangeas sold very poorly this year. Bulbous stock has dropped in popular favor by reason of such large quantities being presented to the eye of the public every where, and generally for a long time ahead of Easter.

## Kalamazoo, Mich.

The unfavorable weather early in the week undoubtedly caused a lighter cut than usual of roses, carnations, etc., but this was fully made up for by a large supply of bulbous stock being on hand, especially Easter lilies. Saturday being a fine day, trade averaged up well and prices remained as usual; roses, 41; carnations, 50c. to 40c. per dozen; violets \$1 per 100. Easter lilies sold as well as anything and no novelties were offered.

## Olen Falls, N. Y.

Trade was about the same as last Easter. Rainy weather part of the day and two days previous possibly put a check to it. Azaleas sold well. Prices were not high, but had a few heats, which sold well, being a novelty in this section. Prices were about the same as those of last year, with the exception of that for valley, which was about 25 per cent. lower.

dezen, while last year they brought from \$1.50 to \$2 a dozen Beauty realized from \$1.50 to \$2. Carnations brought from 50c. to 75c. a dozen—same as last year. Violets were from 50c. to 85c. a bunch, but last year they brought 50c. a bunch.

Bulbous stock was plentiful and sold well with great demand. Cut lilies retailed for \$2.50 a dozen, but were not in demand.

The plant trade exceeded the cut flower trade by about 25 per cent.

## Ottawa, Ont.

Easter trade was fully twenty per cent. better than last year, notwithstanding the cold, miserable day that Saturday was. The fact that better displays were made than heretofore, accounted for the increase to large extent. C. Scott had the best extra store filled up with a fine selection of plants, and did a very satisfactory business.

This was Graham Bros. first Easter in their store at 29 Sparks st., so they, of course, did a much larger trade than was formerly done at the greenhouse. Others report a satisfactory business. Cut flowers, roses, violets, carnations, lilies, valley, daffodils and bulb stock were asked for in about the order named. Prices were the same as last year, with little or no advance over everyday figures. In plants, Harriall was probably yet the best at \$1 each. Azaleas at \$1.25 each, sold rather slowly; bulbs in pansets, 50c. each well sold. Spiraea and carnations at 50c., were very good. There was no novelty of note. Taken on the whole, the craft was well pleased with the trade done. J. G.



Azalea.—Showing Usual Way of Growing



Azalea —Showing Loose Form of Growing.



Acacia Armata.

The above specimens were grown by Julius Roehrs, Carlton Hill, N. J.

Hudson, N. Y.

The demand for cut flowers and plants was rather better than last year, the greatest call being for carnations, violets and roses. In plants, lilies and azaleas had the largest sale. Prices for cut flowers were same as last year, those for plants being rather lower. More plants were sold this year.

Hartford, Conn.

Easter trade was better than last year. Lilies, carnations and roses were in most demand. The largest sale in plants was on azaleas, lilies, pans and pots of daffodils, tulips and hyacinths. The prices were about the same as last year. Those on cut flowers also were about the same. Lilies sold for \$2 a dozen, roses, \$1.50, Jacq. \$2; Bruner, \$1 to \$6. Plants sold 20 per cent. better than last year. Genets were the only plants that did not sell well, except in smaller sizes.

Rome, N. Y.

Easter trade was a little better than last year's. Carnations were in greatest demand, roses next. Violets sold well, also lily of the valley. In plants, lilies took the lead and sold better than ever. Azaleas went rather slow. Cinerarias and hyacinths sold well. Carnations brought 50c. per dozen for best; roses, \$1.25 per dozen; lily of the valley, 75c.; violets, \$1.50 per hundred. We did not raise the price on carnations for Easter. Roses brought 25c. per dozen. No advance of price on other stock. Carnations were scarce. Lilies sold for 15c. per bud and flower, last year for 20c. On other stock prices were the same as last year. Cinerarias, 35c.; hyacinths, 20c. and 25c. per pot.

Saturday was showery; Sunday was fine, and we were kept busy all day.

Cincinnati, O.

Echoes of Easter.

Never before was there so large a trade done by the commission houses as at the Easter just past. Stock, with the exception of carnations, was plentiful, none of which could also have been sold. There were plenty of roses, Von Sion, tulips, paper white narcissus, hyacinths, Marguerites and valley constituted the principal stock.

Prices ruled as follows: Bride and Bridemaids, 6c. to 8c.; Perle, 4c. to 5c.; La France, 6c. to 8c.; fancy carnations, 5c.; medium, 3c.; good, 2c.; tulips, 3c.; Von Sion, 4c.; paper white, 5c.; hyacinths, 2c. to 4c.; valley, 8c.; Harrisli, 10c.; callas, 5c. to 10c.; violets, 50c. to 75c. per 100; Marguerites, 30c. per 100, similar, 12c. to 15c., azaleas, 50c. per string.

As to the general Easter business, it was equal to any former year. All the stores are well satisfied and prices ruled fair. Market trade was up to the standard.

We had nothing new in plants and prices on plants were good. The only subject that sold slowly, and which the public does not seem to care for, is aprons. This certainly is a back number and will be discarded by many growers.

The Show at the Flower Market.

The scene at the flower market beggars description. The place was so crowded that one could hardly get through. The general display was magnificent and was equal to, if not excelling, any flower show that could possibly be staged. The aggregate sales at this market on Saturday afternoon and evening will amount to about \$7,000. This sum is well divided among the fifty-four stands which compose this market.

At the late R. J. Murphy's stand we noticed about 8,000 Jacq. roses; the prices of some ranged from \$1 to \$3.50 per dozen. Other stands were well filled with assorted stock.

In plants, Harrisli and callas had the lead, at prices ranging from 75c. to \$1.25 each. Hydrangeas sold at about the same figure. Azaleas, from \$1 to \$3 each.

Rosebank had some choice hybrids, most of which were shipped out of the city. J. A. Petersen had an unusually fine stock of roses of all classes, also tulips, Von Sion and other stock.

Sunderbruch's Sons were also well supplied with extra choice stock.

Julius Baer and the Walnut Hills Floral Bazaar handled the fancy carnations; these were grown principally by E. G. Hill & Co. Wm. Murphy had some good Bridemaids.

Ordinary carnations never were so scarce at an Easter time, and many people were disappointed that they could not get their favorite flower. E. G. GILLET.



Metrosideros Speciosa.



Rhododendron Prince Camille de Rohan.



Genista Racemosus.

The above specimens were grown by Julius Roehrs, Carlton Hill, N. J.

## Exclusively a Trade Paper.

Entered at New York Post office as Second Class Matter  
Published EVERY SATURDAY by

A. T. DE LA MAR, PTE. AND PUB. CO., LTD.,  
2, 4, 6, Duane St., New York,  
P. O. Box, 1897. Telephone 2154 Cortlandt

REGISTERED CABLE ADDRESS  
Commercial Cable Floreox, New York.

### SUBSCRIPTIONS:

\$1.00 per year to United States, Canada and Mexico. \$2.00 per year to foreign countries in postal union. Payable in advance. New subscriptions will commence with the first number after receipt unless otherwise ordered. Back numbers not supplied when wanted.

The rate to address label above when the subscription expires and is the subscriber's receipt. No other receipt is sent.

### ADVERTISEMENTS:

Copy must reach this office not later than Thursday in order to secure insertion in issue of the following Saturday.

Special positions extra.  
Contracts on contracts of one month or longer. Orders from unknown parties must be accompanied by cash or satisfactory references.

## Subscribers

Should give notice to the publishers at the end of their time if they do not wish to continue taking paper, otherwise it is continued and payment expected.

## Contents.

BOOKS RECEIVED	432
CARRIAGES	438
FRUIT TREE BUSINESS	439
CORRESPONDENCE	440
DRY GOODS COMPETITION	432
EASTERN TRADE REPORTS (Illus.)	431, 434
FLOWERS AND ORNAMENTALS	440
PLANTS AND FLOWERS	436
QUESTION BOX	438
SEED BUREAU, GOVERNMENT, THE	432
SEEDS AND SEEDS REPORT	439
TRADE NOTES:	439
Buffalo, Denver, St. Louis, St. Paul, Philadelphia	424
New Orleans, Philadelphia	428
New York, Springfield, Mass.	424
St. Joseph	438
Boston, Cleveland, Pittsburg	438
Providence	438
Baltimore, Danvers, Va.	436
Brooklyn, Lowell	432
WINTER-BLOOMING NYMPHAEAS	437

## For the Busy Man.

N. C. Patterson, of Pittsburg, is dead.

A cold snap was experienced Monday night in several parts of the country, doing considerable damage to fruit-trees buds, and early flowering shrubs.

The vote on the tariff shows that the wishes of those who voted in favor of abolishing the tariff for and against the proposed amendments. The vote, however, was very uninteresting.

It is reported that Secretary of Agriculture Wilson is in favor of re-establishing the Seed Bureau at Washington for the distribution of the seeds which ex-Secretary Morton succeeded in having shot.

The Easter business has been a very satisfactory one over. Prices were mostly in demand. The prices obtained were generally the highest since Christmas year, in some instances being rather lower.

## BOOKS RECEIVED.

**FLORIBLIND HARMLENESS.**—The third number of this publication has come to hand and contains the same handsome color plates and history of Hyacinth rigeae, tulips, Chrysolids, Canary Bird, Woodwren and Cherry, and Cornelian. The illustrations are beautiful and the text is most interesting.

## A Gracful Tribute.

No previous Easter has ever been decked with so gorgeous flowers as this. Their beauty and color are found on all sides—in church and boudoir, window sill and picture, and on the mantles. The art of horticulture has done wonders. They make the festival radiant. N. Y. Herald.

## Dry Goods Store Competition.

Apparently, these concerns are in the retail flower business to stay. Whether or not at the present stage, they are competitors to the established trade in New York, is a moot point. What they will do in the future, is another matter. Taking the case of Bloomingdale Bros.: One year ago this firm's trade in this line was in all ways a record. This season, we noticed that they were doing a remarkably heavy, and at the same time, popular retail business, that they were giving the same personal attention to customers as other stores would, and were booking orders for delivery, and running accounts. In regard to the alleged cut in prices, this was not so real as the advertisements in the daily papers would lead one to think, and the customers did not get such bargains as was supposed. True, these stores did sell 'llies at 12c., whereas the regular trade charged 20c., but a proportionate difference existed. For violets, they charged 20c. a bunch, while retail florists' stores only charged a dollar, so there was but a small difference. The same was the case with all the other goods there was but a slight difference, the same as regards tulips, etc. A noticeable feature in all these stores, is that they are taking in the major ty of cases, new as buyers of cut flowers or plants, and such being the case, these stores are bound to do more in the light of a benefit to a congested market, and to growers, who would otherwise be suffering.

Stiegel Cooper, considering this was their first season, did a large business, and if they only had effort enough to stick to their little doubts but what they will be large factors in future trade. A manufacturer who sells the flower and plant trade slightly, and say that next year they will be in it in a big way. It is a pity ever in Brooklyn similar conditions exist. This competition, had a greater effect, however, on the flower trade than the trade in this city in New York. Other contending factors in New York city are the florists, who sell in large quantities, whose patronage in the fashionable quarters was larger, and the increased cut flower trade by the wholesale and basement stores, and who carried this year a nice assortment of plants, which were sold out readily.

## The Vote on the New Tariff

As It Affects Florists, Seedsmen and Nurserymen.

Canor compels us to state openly that the voting on the three paragraphs which principally affect the above industries was disappointing, the returns coming in slowly, and representing but a small percentage of the sum total of the individuals concerned.

For this seemingly apathetic stand on a question of this importance we feel unable to account, and that the Exchanges generally have taken it for granted that Congress and the Senate would do as they pleased in the matter—whichever conclusion would be wrong, for an open expression of opinion on the part of men always known as intelligent and progressive, and carries weight in legislation. It is to be regretted that at least 100,000 of our people, or as a subscriber very aptly put it, "You should have printed the coupon on a separate sheet of paper; no one likes to spot his number on the FLORESTERS EXCHANGE." The fact is, however, that the Exchanges are plain, and probably this fact did prevent a number from voting. At the same time, the postal law requires that the coupon class matter would not allow such a slip to be inserted.

However, the results reached are interesting in that they show a startling difference of opinion to be existent, as follows: On paragraph 1 (No 225 in the Senate) the vote was 41 per cent. against 59 per cent. and 53 per cent. in favor of. On paragraph 2 (No 226 in the Senate) the vote was 41 per cent. against 59 per cent. in favor of.

A man of the business men representing the above extremes could only come to a agreement through a compromise which would reduce the amount of duty on all imports. The question is, will it result in a bill to be conjectured!

## The Government Seed Bureau.

There is a possibility that the Government Seed Bureau at Washington, which ex-Secretary Morton succeeded in abolishing, may be re-established by the present Secretary of Agriculture. Some time ago, in a special interview is reported to have given his opinion on this subject as follows:

"I think it very probable that a saving is being accomplished by the work done by seedsmen. But it is to be considered whether the seeds sent out are as reliable as those which are now being sent out. The Department, examined and tested by our experts, and put up under our own direct supervision. The fact is, that in this respect the system now enforced is not as good as the plan of having the work done by the Department."

If Secretary Wilson had made himself acquainted with the literature on the Free Seed Distribution, he would not, we feel confident, have spoken the words here attributed to him; and he had even given them for a moment, and his alleged statement would have been corrected.

It is useless to talk in the interstice of the utter worthlessness of the rubbish sent out to him; for it is a fact that the operation, or the means by which the various seeds were then tested; their value, or their quality, and the reliability of the seed. On the other hand, the firms who have supplied the seed under the new method of distribution, stand at the top of their profession—their names were known to the people—and it is not possible to conceive that they would do this without being sought to be furnished by an indiscriminate distribution of inferior quality goods. It is to be regretted that the Government could well be construed as an attack upon the integrity of our leading seedsmen, who, in the absence of these agencies, might, with justice, resent. In fact, it is the superior quality of the seeds now distributed, that have led to the injury done to the seed trade through this iniquitous and unbusinesslike interference with their industry by the Government. The fact that they rely on the seeds it receives free, and the necessity of this, is an incentive to the success of the purchase of others, and herein lies the injustice.

But ex-Secretary Wilson is earnest in his desire to help the farmers, truckers, and gardeners of the country in the manner in which the Government is endeavoring to do a distribution of free seeds, the present method to be preferred to the old one, both for the benefit of the farmer (as admitted by the Hon. Secretary himself), and the public well.

But by the honorable gentleman he is anxious to heap an additional odium on the whole free seed business and augment the disgrace of that farcical proceeding, in no better way could he accomplish this. Until such time as the stigma of paternalism, cast on the American public by those who are in power, is removed by the vote of the people, we have no other alternative, the Hon. Secretary of Agriculture may as well advise that the farmer is "left alone." We hope, however, the energies directed to the regulating of his affairs, may be directed to the betterment of our nation rather than the bringing it into into use of any of its defective and objectionable adjuncts.

## Springfield, Mass.

Easter Week was very good, but several wet days interfered with the volume of business. Flowers of all kinds were plentiful, and our orders were filled up within three days before Easter, and our consignments, which were a very short crop. They might have been wholesale at fancy prices, but past seasons' experience has proved that stored flowers at fancy prices would not do as well in money thrown away. Plant sales were about as usual—scales, lilies, hydrangeas, and other plants were sold to the plants sold. Prices were about the same as in years past. Churches didn't give much for church services and decorated for church services. The service was not decorated as well. Gals wore decorated dresses and had receptions on Tuesday, also Tuesday night. Several weddings are to follow.

Flowers are as plentiful as the week before Easter, judging from the supply offered. MARK AITKEN, of Aitken & Son, will be married in June. W. F. G.

## New York.

Easter Report.

For several holidays past there has been an interesting struggle for supremacy between cut flowers and plants. During the week of the Easter festival was renewed with greater vigor than ever before, on Saturday, also during the night and on Sunday, and the struggle was most stubborn, but continued. But by midday Sunday, the great struggle was over, and the plants were victorious in martial parlance, absolutely routed, plants having won a complete victory. And to the surprise of all the on-lookers, on that occasion will remain as such for a long time to come, for unquestionably, the buying and selling of plants is not so much changed; its education also is more complete than formerly, and it has learned to appreciate the fact that there is more value in a flowering plant than in a basket of cut-flowers, or a box of loose flowers; the first-named lasting so much longer. Even on Sunday morning—when baskets of cut-flowers formerly were the rule—this season the basket had to be made up of small flowering plants and ferns, thus showing how thorough and radical has been the change. This report should serve as a guide to growers, dealers and all concerned, and to their course accordingly for another season.

Looking for a cause for the changes that have taken place, the on-lookers of the exchange claims that all the fault lies with the cut flower growers, who, as they put it, are to be blamed for their own losses. They are a risky plant trade. First of all, only short while ago they (the stockpilers) were in the habit of storing up large quantities, as a substitute for the cut bloom, owing to the enormous, and, as they term it, unproductive, losses on the purchase of an article. That was the beginning, and in the meantime the public taste had grown for lower priced goods, and the results mentioned results. Furthermore, the same authorities say that it will only take a few more years, if the prices of plants are continued, till the cut flower business at holidays will be a thing of the past. For the past few years the prices of the plants they had to pay for good quality plants were so low, that they have referred to it as "a very low price," and it is no more, or more correctly, kept-over flowers, and the percentage of loss is very large. In the meantime, however, which they had ever before known. The fact is, that the plants are a very profitable use for store trade; and now that there are no baskets or cheap flower plants to be had, the public will have no place for it. Neither do the smaller stores or Greek stands need such. There is, therefore, no reason to be worried over, and that being so, the better class trade is injured, and all alike are losers.

But the selling season claim that they could have cleared out well and made good averages had it not been for an outbreak of inferior stock. Blue Jays, injured the sale of proper-colored flowers, and 80 per cent. for Beauty meant only a few more for the rest of the season. All blue ones were returned; and, unfortunately for some growers, there were some blue ones.

### Saturday's Trade.

Considerable guessing had been done during the week as to what quantity would be demanded, but up on Saturday, and in the meantime plan up on the market steadily. It was evident that the demand was for the best possible for their shippers. Retailers had begun to prepare also, so much so that on Saturday afternoon the boxes were filled to repletion with cut flowers for Saturday morning's trade.

The Saturday's trade at the Cut Flower Exchange, Thirty-fourth Street Ferry, and at the hour buyers were started for the city, and a heavy shower of downpour of rain. However, a large attendance was on hand, and business was done to the tune of \$100,000. If of good quality, were in demand, and the prices were well sustained—\$8, \$4, and \$2.

Florists maintained an average top figure of \$100,000 for the week, averaged 10c; other florists, however, were stuck the week, but little delay in retail trade there was to be noted. The demand for plants was in wretched condition. Roses were the only plants to be had. There had been to believe, and evidence of long keeping were apparent. And to this, the fact that the price of plants is so scarce of orders; still, prices were kept still, so speculators had nothing to do but

went around and made bids as to the possibility of buying roses at \$15 and \$20 per 1000, later.

Asparagus sales were made at \$30 and \$40 per 1000 on straight slip, after that, for the whole day until past midnight. The roses were from the market, ranging from 75c; a few fancy brought 12c each. Bride moved slowly as compared with the other flowers, averaging 3c to 7c, to wit: the latter averaged from 4c. to 8c. Jacqué, 4c. to 10c; hybrid, 3c. to 1c. and a few, and they brought 75c, as did a very limited number of Beauty, that figure being not so good as the other grades. The other prices varied considerably, but had the quality guaranteed, and they were also have been steadier, for Beauty was far from being plentiful. Meteor had a sale of all between 1c. and 12c, and Morgan were in slow demand and the quality was very inferior.

Carnations were very steady, and good prices were obtainable for special stock, varying from 3c. to 6c; 4c. and 5c. were the principal figures. Other stock ranged from 50c. to \$2.50 per 1000. Toward night there were more carnations on hand than could be readily disposed of, and they always good property.

Violets came in quantities, probably amounting to the aggregate to 1,000,000, some inferior blooms were sold in the morning at from 15c. to over 100. The good ones were maintained at from 60c. and 75c. to 41. After midnight and on Wednesday, the market for violets broke up, and prices were erratic; so that 75c. per 1000 would be about the average for good violets, instead of \$1 as was anticipated.

Lilies were steady at from 8c. to 10c., although some sales were made at over 10c. It was fortunate the supply was used up Saturday, for there was no Sunday market for them.

Valley was good property and realized from \$3 to \$8 for good No. 1. Narcissus were sold at \$1.00 per 1000. Tulips would not average more than \$1.50 and were in over-supply; a few good ones were sold.

Mignonette was a quantity, and no price can be quoted for it; quantities had and were very scarce.

Hydrangeas and asparagus sold no better than usual; perhaps on the whole not so well as in the previous week.

Cut Flower Trade This Week.

Monday and Tuesday were the best, although some of the large retail stores having to work off their surplus from Sunday, for hardly a sale was made for flowers. A good quantity on hand, either because they wanted it or so that Sunday's supply was not so good for the week. Wednesday, Thursday and Friday cleared up things a little better, but the market had not really been holding on to any such prices as were obtainable last week, although shipments were not at all heavy. Roses of the highest grades dropped considerably. Beauty falling to 25c., and extras of other stock to 3c. Meteor had a sale of all between 1c. and 12c, and prices were uncertain.

Carnations have come down with a thin skin, and the large figure—rose—superior grades have dropped to \$1, and the best of standard kinds can only command \$2.00 to \$2.50 per 1000. Jacqué well, and \$3 is possible for A. No. 1. No. 2 sells at \$7.50 to \$15 per 1000. No. 3 sells at \$7.50. No. 4 worth only \$1 to \$1.50. The shipments of violets have fallen off; prices vary from 25c. to 50c. per 1000.

Taken as a whole, this trade may be reported as excellent. The plant business has been held up, but the flower trade was disappointing. The large stock of plants laid in everywhere was being sold for less than it cost, but not the case they came in for show decoration, or were good enough for church use. The market in demand was not so weak as usual. Hydrangeas were of good quality, and only sold when aszeas were wanted. Meteor had a sale of all between 1c. and 12c, and prices were uncertain. Criméa roses were hardly sold fairly well; beasrs very well; pot roses excellent. Meteor had a sale of all between 1c. and 12c, and prices were uncertain. Criméa roses were hardly sold fairly well; beasrs very well; pot roses excellent. Meteor had a sale of all between 1c. and 12c, and prices were uncertain.

Faper trimmings were not so freely used as in some previous displays. Large tubs or boxes of plants were very popular, and very little trimming was done.

Among the retailers who had to secure cut flowers for their trade, Messrs. G. & Sons, Thosley, Bridgeman, The Rosary, Siebhard & Son, Hantz Brothers, P. Bechtel and W. C. Johnson.

Alex. McConnell is about again and was able to attend to his business personally during the Easter rush.

Auction Sales.

Business in this line for the week has been quiet, but during the Easter holiday, sales will take place on Wednesday. J. P. Cleary & Co. sold on Thursday over 500 lbs of raisins for \$1.50 per cwt., Co., England. The sale was fairly well attended, and several new commercial buyers were present. The whole sale averaged good. The kinds that realized the best figures, were those that can be sold in the largest quantities, as shown in the list in this particular, followed by Dendrobium formosum signatum.

Fire broke out on Monday in a barn adjoining the greenhouses of JAMES DEAK at Bay Ridge, but by prompt discovery and some bundling was prevented extending beyond the barn, the interior of which was damaged to a considerable extent.

An Important Law Suit.

The case of Thomas Devoy & Son versus the Florists' Exchange was called up in Poughkeepsie, on Wednesday last, before Judge Gaylor. Some trouble having arisen from the selection of a jury quite a number of the proposed jurors being objected to by the defence on account of their residence in the city. There were two counts against the Cut Flower Co., one for alleged breach of contract in that the defendants were said to have failed to make payments at the specified time. After the evidence had been read by the Court, before the jury was no case to go to the jury, and three it went out of Court, remarking that neither law nor contracts of the Florists' Exchange Court could be interpreted so fine. The plaintiff had shown that in a conversation with the defendant, the latter had said that official had informed the plaintiff his company was working up a selection of a jury which would be selected as soon as the accounts were completed; also that check books were to be sent to the plaintiff. The Court considered this settlement a reasonable one.

The second count was of a different nature; the Company was charged with failing to make just and proper returns for violets and other stock. The Court refused to endorse the file of the FLORISTS' EXCHANGE for the dates in question, the same journal being shown to the jury. The reports of the leading trade paper, whose market reports were reliable. It was proven that in the case of the stock of the florists' exchange had been shipped violets to the Company, upon several occasions he had received a check for the same, and that the same had been shipped; upon the same figures; that he also had received a higher average than that shown in the report of the florists' exchange.

One of the plaintiff's witnesses was unable to say that the trade price of \$1.50 per 1000 claimed was maintained, and admit that, owing to the perishable nature of the stock, that the same were taken at times in order to sell out. The defence rested their case without calling any other witnesses, and that they were able, or producing their books other than the average sheets then in use. The judge then called the witness of the florists' exchange, and the averages on the Company's sheets, which together with the testimony before him, was sufficient to establish the case, partly according to a system of averaging agreed on between the parties, had lived up to it. It is to be noted, that it was possible care in the sale of the goods. Here therefore also failed to present this count to the jury and it was thrown out.

St. Joseph, Mo.

Easter, with all its worry and bustle, is over, and the people are getting on their feet. It is always a day of much worry and excitement. Saturday was a beautiful day, and the market in demand was not so weak as usual. Hydrangeas were of good quality, and only sold when aszeas were wanted. Meteor had a sale of all between 1c. and 12c, and prices were uncertain. Criméa roses were hardly sold fairly well; beasrs very well; pot roses excellent. Meteor had a sale of all between 1c. and 12c, and prices were uncertain.

Fred. Krummy has about recovered from the shock he received in coming in contact with the florists' exchange. One florist filled up a number of meat shops, groceries, etc., with a lot of cheap cut flowers, and they were sold at very low rates. The result was a war on prices. A

florist, whose place of business almost adjoining that of a grocer who had his store window filled with plants, advertised them as "Easter flowers," and sold them at "special price," etc. They will think they got enough of the deal. Flowers and groceries and meat shops, and so forth, and we hope they will find it out to their own satisfaction.

Index to Advertisers.

Table listing various names and their corresponding page numbers under the heading 'Index to Advertisers'. Names include Abitation, Acacia, Actera, Afton, Agnes, etc.

Table listing various names and their corresponding page numbers under the heading 'Index to Advertisers'. Names include Alderson, John Co., Alford & Perkins, Amos, etc.

## OPINIONS.

Insertion will be given in this column to all communications free from animus; but opinions expressed do not necessarily reflect our own.

## Experiment Stations as Exhibitors at Flower Shows.

Editor Florists' Exchange:

In your editorial in the issue of the 17th last, you certainly express your case with force and conviction. I only desire to add a few words to the effect that the Florists' Society will send a committee to Ithaca this year to examine our plantation. We should be very glad to have the Exchange send a representative at the same time; or, if it is not convenient for him to come then, we should be glad to have him drop in upon us at any time that will suit your convenience.

In respect to the poor stock plants which we sometimes receive, I have only to say that it seems to be probably the fault is rather one of over-propagation than of anything else. If you were to see some of the plants which come to us for sale, I am sure that you would appreciate the point which I tried to make. With every care we take to have all that we are able to get anything satisfactory from many plants which we receive, and some of them are never able to get to bloom. Of course we expect never to publish the results of such plants. Records of plants which are too poor to get worth while seem to be normal results, or of those which may be used and insufficient attention on our part, are not to be published. We have many experimental records running over several years, and they will always remain where they belong—on the shelves. Whenever we publish the results of any of our plants, we do so in a way that is at least normal in character, and will give a just and fair idea of what the variety is.

L. H. DALLY.

## Seedlings and Certificateds.

Editor Florists' Exchange:

The discussion in the columns of the EXCHANGE upon this question has aroused a great deal of interest and led to the expression of many and various opinions. There seems to be what may be called an uneasy feeling that something is wrong about the manner in which we are handling something that cannot be reasoned with.

In a general way, this condition is due to a determined departure by the officers of the Society from the usual practice of the members, from the original purpose of the Society, and from its constitution and by-laws, as made at its public meetings.

The organization of the Society is based upon the "Report of Committee on Resolutions," made at the first meeting held by Philadelphia. This committee comprised the then officers of the Society—Messrs. Leonard, Wilcox, Gray, W. W. Ward and C. J. Pennock, to whom was added Mr. Wm. Scott.

The committee reported that one of the objects of the Society should be, "To stimulate the growing of new seedlings and to award valuable prizes." And the manner in which this object should be accomplished was set forth in the following recommendation:

"To exhibit new varieties to a local committee of practical and successful (in certain growers, to be located in different sections of the country) to be named by the Executive Committee and approved by the president."

It is to be noted that the practical method of getting at the merits of new varieties recommended by five men who, it is not irrelevant to state, were all of the best, is a question as any five in America. And it was understood that the action of the Society should be governed by this recommendation. It is hardly necessary to add that it has been totally ignored.

It is to be noted that the snap judgments by a committee of judges sprung up by the Society at the last meeting, in violation of the original letter of the constitution, which requires that, in passing upon same, and in awarding certificates of merit, medals, prizes and other commendations, the committee of three, to be annually elected by the members of the Society.

Section 10 of the by-laws requires that all officers or committees shall be elected or appointed on last season—the last being before adjournment.

If the committee of judges was elected, which is required by the constitution and by law, it would be a committee of which the members thereof might have been chosen to inspect and to judge actually growing plants, and to bring to their final judgment at the end of the year the merits of the plants, and to render their decisions of some value; whereas now, as we know from long experience, these decisions are rendered, not less for legitimate commercial purposes, though they may have a decided value as incentives and inducements to the grower. Upon that question there is likely to be a decided difference of opinion between the same judges, and the committee of judges at the end of the year and the unfortunate who have grasped the hot end.

It is to be noted that the discussion is the commercial value of the certificates granted by the Society, and incidentally, the value of the Society to the trade. It must not be forgotten that this is a purely commercial question, and the real difficulty consists in attempting to graft a distinctly amateur bud upon a commercial stock. This will not do. This holding of exhibitions, providing a scale of points, giving certificates of merit to the growers, and awarding prizes, and has no legitimate place in commerce. Commercially, we do not care a little bit for the value of the certificates of merit, but one question for the man who grows carnations for a living is to ask in regard to the value of the certificates of merit: "Do you get any more for your grower?" And no three men on the face of the earth can decide that question from the value of the certificates of merit. Awards made under such circumstances are not only worthless, but worse than worthless, and they do not seem to do what we do not understand the situation and are, largely only to be disappointed in the end.

The proprietors of the seedling raiser, the florists, will not be surprised if you started in the article upon page 234 (March 6) of the EXCHANGE, which seems to me to be a very good one. You had better refer to it and read it again. Here is a brief quotation from it: "The commercial value of the certificates of merit which they can sell every time, and the retail buyer, the ultimate consumer, cares nothing for the certificates of merit conferred. It pleases his fancy and that is sufficient. It covers the whole ground."

What is the reason that commercial growers cannot or will not understand the significance of the certificates of merit (as the same law as every other business)? It must be, as the great Mulvaney says, "on account of the commercial conditions of the world."

What do other manufacturers and business men act when they have something that they wish the public to buy? We all know that the answer is, "to advertise." Why would they never think of doing it to sell to a society with others who have the same thing, and point judges and proceed to give each other certificates of merit. This whole question of awards is so indolently understood by the members of the Society that I wonder that the humorous side of it has not struck the members with the force of its final banishment from the society.

It is a law of business that every man who has a thing to sell should go to his own hand. The idea of asking a prospective customer to pay a yearly fee and then to have the thing to sell made up to his own expense, in order to examine the goods he is asked to buy, would never occur to any man in business.

It is the business of every raiser of seedlings to introduce his wares as best he can and to let his own merits speak for themselves to prove all his statements and to force his goods upon the market. The fact that he has demonstrated superiority, properly so called, is a manufacturer of a new grade of shoes or a new brand of clothing, and he will refuse to buy any varieties except those introduced in this manner there would be an end of the matter. It is the business of seedling raisers to get seedlings and rooted cuttings.

During the season of 1897-7 there was a great deal of talk about the increasing stream of useless stuff which was being introduced into the market, and held at the Boston Flower Market for a ready solution of the problem. Every one who had a thing to sell was asked to come and bring a sample of his goods. They came in goodly numbers and the committee of judges was asked to select the best. The committee of judges has the proper combination—buyers and sellers together, the buyers inspecting the goods and the sellers making their own judgment, aided by such information as the sellers could give them. This is business, and it is the only way in which, at the meetings of the Carnation Society everybody is turned out of the exhibition

hall but the judges, who make as careful guesses as they can at the absolute or relative value of the goods, are not aided by any information from the grower. This is foolishness and very poor business. The Boston idea originated with the New England Florists' and was carried out in its entirety. It is so foolish that it will become a permanent institution. Although it is a very foolish thing to do, it is really an attempt to save time and trouble and facilitate business by bringing together all the goods of every city in a possible number of buyers and sellers. It was a perfect success. It would be a good thing to do in every city in the country. Any enterprising wholesale dealer with a big shop would be glad to furnish out the same plan in every city in the country. But in mind that that comes together in this manner is exactly what both seller and buyer want, so there will be no difficulty about it. And it is also to be remembered that exhibiting in this manner in different places is attended with considerable expense to the sellers, and this expense is not exactly to be incurred except by the owners of commercial varieties of genuine merit. The offering of "merit" to the growers, as they might be called, is objectionable because it involves the selecting of judges and the value of the certificates of merit, and a scale of points, and that is exactly what we do not want.

Mr. Ward's very neatly answered the question who is the best judge of a new seedling by giving the history of his No. 54. Mr. Hill has paid the seedling raisers a very high price for the seedlings which they are less able to decide the merits of than the judges of the Society for a few minutes' inspection.

LOTHROP WIGHT.

Editor Florists' Exchange:

I should like, if not trespassing too much upon your space, to have you send me a few lines in reply to Mr. Ward's article in the issue of April 17, in which he peremptorily declines to award any prize which was competitive in the sense (by implication) that a seedling was brought in competition with the other varieties. He specifically stated in a previous article that he would award prizes to the fifteen standard varieties of the same class as the candidates for certificates.

It is to be noted that in the case, wherein Mr. Ward makes the seedling score 84 points in Cincinnati, by changing the judges score of 54 in issue April 8 that sale for any comment, excepting that its claim for excellence seems to be entirely upon its merits. It is to be noted that the judges do not take any pleasure. It might be further noted that in the case of the variety in which Mr. Ward was the judge, the judges found themselves unable to consent to award a prize of 84 points to a gentleman who was to have been the judge, but who was unable to serve, was called upon to make a final decision of judges' own verdict, was asked to scale the variety. He scored it below the indicated figure and refused to be awarded are not up to present day requirements. Further comment upon this appears unnecessary.

Again, I would call Mr. Ward's attention to certain premiums offered by the Cottage Garden Co., New York, an establishment of which Mr. Ward is the owner. Among other conditions are the following: "To award a prize of \$100.00 for a seedling which in the opinion of the jury is not at least equal to existing best varieties." It is to be noted that the "competition"—to which Mr. Ward objects in the body of his argument in issue of April 17, is a competition in which he is in his position practically and his ground completely.

It is to be noted that Mr. Ward makes an assertion that Mr. Ward makes as a fact for consideration, and that is that flower buyers do not buy by a scale of points, but by a scale of merit, and that the flower buyers themselves. Why do the flower buyers then?

between the two. There are eight applications in the scale of the American Carnation Society, and they are, namely, calyx, stem, substance, form, fragrance and plant. It is to be noted that the flower buyers do not buy by a scale of merit, but by a scale of value. They immediately jumps to the conclusion that they are old and refuses them. If the stem is what you are writing, or what makes them bang their heads so? If the substance is not good there is a possibility that the flower buyers will buy the same for use, while fragrance adds considerably to the salability of the article. Form, to some extent, is a technical demand that the average buyer does not take so much notice of unless the lack is excessive, yet it must be considered in the scale in order to bar obvious freaks. Upon the final point, the plant, there can hardly be room for discussion. The cut flower grower is directly and vitally concerned in this matter. It is to be noted that the flower buyers will see that they do not waste of time. Upon the other point, said before, the flower buyer and scale of points are in the same position.

There might be some way devised requiring the exhibition of a separate lot of any running seedling, which lot might be required to be exhibited a day or two in advance of the general opening and to remain upon exhibition during the judging, without alteration in any way. The scale of points might be altered entirely if the flower buyers do not wish to award under this head, which might possibly be classified as durability (apart from given points) and have a tendency to handicap overestimated flowers and give unluckily fair average lots a living chance. It is to be noted that the judges must score rigidly by the scale of points, as the flowers are placed before any running seedling, which lot might allow them the right of passing judgment upon the process of growth solely because of the fact that they are not of such high quality, judged by the requirements of the scale.

ADAM GRABER.

## Carnations, Etc.

HIGH GRADE ROOTED CUTTINGS.

Write for price list.

H. WEBER & SONS,

P. O. Box 57, OAKLAND, Md.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

CARNATION AND COLEUS CUTTINGS.

Strong, well-rooted cuttings of the following varieties from root stock: Fortia and McGowan, \$1.00 per 100. Alaska, Hero Queen, Storm, and the new variety, \$1.00 per 100. Lillian Gilder, Meteor and Daybreak \$2.00 per 100. The above are guaranteed to be awarded a prize. Colerene, 2 in. pot, \$2.00 per 100; 3 in. pot, \$3.00 per 100. Colerene, no many but, Veraschaffel and Golden Queen, \$1.00 per 100. Write for price list.

GEO. M. EMMANS, NEWTON, N. J.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## The New Scarlet.

From soil.

HOPP & LENKE, East Grand Rapids, Mich.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

2000 DAYBREAK CARNATIONS

Strong rooted plants out of soil, \$1.00 per 100.

GIANT CALIFORNIA DAISIES

Extra strong plants from soil, just 120 left, \$7.00 for the lot.

Cash with order.

RUDOLPH FISHER, Great Neck, L. I., N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

ROOTED CARNATION CUTTINGS.

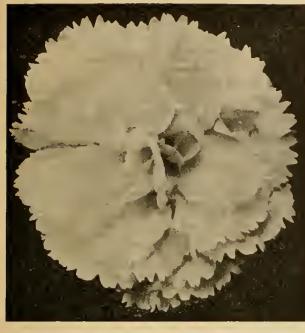
Scott and Fortia, \$1.25 per 100; \$1.00 per 100.

Daybreak, \$1.50 per 100; \$1.25 per 100.

Lizzie, \$1.00 per 100; \$0.50 per 100.

THE BOUL FLORAL CO., Ithaca, N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE



**Harrison's White.**

NEW CARNATION,  
SPORT FROM WM. SCOTT.  
40,000 SOLD UP-TO-DATE.

All leading Carnationists are purchasers.

Strong, vigorous growth, requiring no support.

Described and illustrated in Florists Exchange, No. 21, page 1044.

COME AND SEE IT.  
Price: \$1.00 per 100,  
\$40.00 per 500, \$75.00 per 1000

Cash or satisfactory reference. All orders filled in rotation.

**JOHN HARRISON,**  
New Bedford, Mass.  
JERSEY CITY, N. J.

Take Notice or Greenville (out from Pennsylvania, R. R. Ferry set off at New Bedford Ave.

**JARR'S SCARLET**

The only root paying commercial scarlet Carnation up to date.

**TRY IT!**  
Rooted Cuttings, \$1.50 per dozen; \$10 per 100.  
Unrooted Pipe, \$5 per 100; \$45 per 1000.

**JAHN BROS.,** New Bedford, Mass.

**50,000 CARNATIONS**

ROOTED CUTTINGS, FLAT GROWN.  
L. McGowan, Eldorado, Wm. Scott, Portia, Daybreak, Silver Spray, Alaska, J. H. Harrison, Tiger Wave, Meteor, Rose Queen, \$1.50 per 100; \$12.00 per 1000.

**MARIE LOUISE.**  
10,000 Marie Louise, flat grown, \$1.50 per 100; \$12.00 per 1000. Cash with order.

**HENRY A. NIEMEYER,** Erie, Pa.

**HEER'S CARNATIONS.**

**YOU RUN NO RISK.**  
If the Cuttings are not satisfactory, you return them at my expense. Unlimited quantities at reasonable prices.

Varieties. — McGowan, Alaska, Ivory, Harrison's White, Scott, Daybreak, Abundance, Triumph, Bridemaid Della Fox, Victor, Emma Wooster Portia, Fred Dorner, Cartledge, Wave, Iago, Crimson Sport, Buttercup, Eldorado, Relief and Armadillo.

Pansies. Smilax. Violets.  
**ALBERT M. HEER,** L. B. 496, Lancaster, Pa.

**CARNATIONS**

All the leading new varieties; good clean, well rooted stock.

Mrs. Chas. H. Duhme, delicate pink, \$100 100 \$75

Mrs. Geo. M. Bradt, white, 10 75  
Striped scarlet, 10 75

C. A. Dana, shell pink, 10 75  
Flora Hill, white, 12 100  
Mrs. McBurney, salmon pink, 12 100

Mayor Pingree, yellow, 10 75  
Marie Louise, scarlet, 10 75  
Maud Dean, blue, 10 75  
Lily Dean, white, striped pink, 10 75  
Harrison's White, white, 10 75

If not already received send for our price list, which contains all the leading standard varieties at moderate prices.

**F. DORNER & SONS CO.,** La Fayette, Ind.

**CARNATIONS** Daybreak, Scott, Tidal Wave, S. Sprays, Lizzie McGowan, Portia, \$1.50 per 100; \$12.00 per 1000

**VIOLETS** Thos. Cartledge, Kobbler, Rose Queen, Belle of Krievanor, \$1.50 per 100; \$10.00 per 1000  
Lady Campbell, \$2.00 per 100.  
No. 100, 1000, 10000, 100000, Admiral Aveila, \$3.50 per 100.

**JOSEPH REWARD,** Unionville, Chester, Pa.

**ROOTED CUTTINGS. CARNATIONS.**

Mrs. Chas. Duhme (Dorner '93), Mrs. Geo. M. Bradt (Dorner '93), Lily Dean (May), Maud Dean (May), \$3.00 per doz., \$10 per 100; \$75 per 1000.

	Per 100	Per 1000
Wm. Scott	1.00	7.50
Lizzie McGowan	1.00	8.00
Daybreak	1.50	12.50
Portia & T. Wave	1.10	10.00
Mrs. Fisher	1.25	11.00
Eldorado	2.00	15.00
Alaska	1.50	12.50

Storm King, Meteor, Anna Webb and Thos. Cartledge all sold.

**EDW. J. TAYLOR,**  
Wholesale Carnation Grower,  
Cash or Satisfaction. SOUTHPORT, CONN.

**WON FIRST PRIZE at Spring Exhibition of Mass. Horticultural Society, 1897.**

**NEW SEEDLING CARNATION**

Originated by Mr. H. A. Cook, of Shrewsbury, Mass., grown by the subscriber, and now being put upon the market as

**NIVEA.**

Cuttings now ready and free from rust, \$10.00 per 100; \$35.00 per 500; \$50.00 per 1000.

**DAYBREAK, SCOTT, STORM KING, PURITAN, METEOR, GOLDFINCH, HECCOB, ALBERTINI,** and others, \$1.25 per 100; \$10.00 per 1000.

**DELLA FOX** nice plants from flais, \$4.00 per 100.

**CHRYSANTHEMUM CUTTINGS.**

Ivory, Bonaffon, Gold Lode, Minnie Wanamaker, \$3 per 100; \$15 per 1000.

**A. W. HOYLE, Spencer, Mass.**  
And 51 Withington St., Sta. O,  
DORCHESTER, MASS.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**FAMOUS CARNATION DELLA FOX!**

MYERS & SATTMAN, Wyndmoor, Chestnut Hill, Phila.  
WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**CARNATIONS**

The price quoted April 3 was a mistake. For list of other varieties see quotations April 3.

**CHRYSANTHEMUMS.**  
44 varieties, including Mrs. H. W. Simson, Pink Ivory, Liberty, Rieman, and the best of the standard varieties at moderate prices. Send for trade list.

**JOHN HACKETT & CO.,** 62d St., near Elmwood Ave., PHILADELPHIA, PA.  
WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**CARNATIONS. Ready Now!**

The very best stock and the very best varieties the market affords. Morello, Harrison's White, Mayor Pingree, Mrs. Duhme, \$2.00 per 100. Flora Hill, Mrs. McBurney, and C. A. Dana, \$2.00 per 100. Della Fox, Daybreak, \$2.00 per 100. Jubilee, \$2.00 per 100. Ivory, \$2.00 per 100. Daybreak, Wm. Scott, Rose Queen, Lizzie McGowan, \$2.00 per 100. Bridemaid and Meteor, \$2.50 per 100. 1000 rates in proportion.

**CEO. HANCOCK & SON,** Grand Haven, Mich.  
WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**THE CARNATION NOVELTIES, MAYOR PINGREE AND MORELLO**

Other new sorts, also noted introductions, and well-known standards. Our Fine New Illustrated Catalogue Now Ready. FREE.

**DAN'L B. LONG,**

Jobbing Florist and Growers' Agent, BUFFALO N. Y.  
WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**NEW YELLOW CARNATION**

**MAYOR PINGREE**

**BEST YELLOW TO DATE.**

Ready Now. \$1.50 per dozen; \$10.00 per 100; \$75.00 per 1000.

—FOR SALE BY—

**JOHN BREITMEYER & SONS,** THE COTTAGE GARDENS,  
Miami and Gratiot Aves., DETROIT, MICH. QUEENS, L.

**BATH'S CARNATIONS**

The following selection of Winter Flowering Carnations contains all the newest and most profitable market varieties yet introduced, they are all exceptionally vigorous, the flowers are large, with perfect tints, and most profuse bloomers.

**CANARY BIRD.** Large yellow, with bright scarlet edge, the flower is full and well formed. \$1.50 per doz.; \$15.00 per 100.

**DUKE OF YORK.** Flowers very large and full, on long stiff stems, color very rich velvety scarlet-crimson, clove perfumed. The plant is exceptionally vigorous. Certified R. H. S., London. \$1.25 per doz.; \$5.00 per 100.

**HENRY GIBBONS.** Flowers large and full, very bright, clear or crimson, continuous and very free bloomer, and of vigorous constitution. \$1.75 per doz.; \$12.50 per 100.

**LEONIDAS.** A magnificent variety, bright crimson-scarlet, large flower, vigorous and very free.

**Mlle. Therese Franco.** Beautiful Blue pink & very large full flowers, petals slightly fringed. This is undoubtedly the finest Pink Carnation in cultivation. Certified R. H. S., London. \$2.00 per doz.; \$15.00 per 100.

**PRIMROSE DAY.** The finest Yellow Carnation yet introduced. The flowers are the largest of any in the winter blooming section (the color is a full deep yellow. It is of exceptional vigor and very free bloomer. Certified R. H. S., London. \$2.00 per doz.; \$15.00 per 100.

**WILLIAM ROBINSON.** Very brilliant scarlet plant vigorous and free. This is much the finest Scarlet Carnation yet introduced. Certified R. H. S., London, December 15, 1888. \$2.00 per doz.; \$15.00 per 100.

The above are all strongly rooted plants from 3 1/2 in. pots. Packing free, and freight paid to New York, Boston, or Philadelphia.  
Cash with Order, or Satisfactory Reference.  
My collection of carnations for growing in the open field is one of the finest in Europe. Full catalogue post free on application.

**R. H. BATH, THE FLORAL FARMS, WISBECH, ENG.**  
WHEN WRITING MENTION THE FLORIST'S EXCHANGE



Winter-Blooming Nymphaeas.

Water-lily flowers would have to fetch pretty high prices to warrant the expenditure for tanks in which to accommodate them...

their usual flowering period by at least three months; but they do not ask kindly to have their roots destroyed previously to being forced.

Worcester, Mass.

HUGO BOOK has secured a tract comprising three acres of excellent land situated within a short distance of his present abode...

FINE PLANTS CHEAP.

- Geraniums, Double Grant, 2 1/2 in. pots, \$2.00
Bergenia, white, 2 1/2 in. pots, \$2.00
Roses, 2 1/2 in. pots, \$2.00
Clematis, 2 1/2 in. pots, \$2.00
Cotton Cuttings, Coleus, Geraniums, 2 1/2 in. pots, \$2.00
Nicotia, Salvia, etc., 2 1/2 in. pots, \$2.00

KEITHSON Conservatory, Cranston, Ohio.

APRIL OFFER.

- 1000 Marguerites (Paris Daisy) 5 in. pots, \$4.00
Bergenia, white and yellow, 2 1/2 in. pots, \$2.00
Geraniums standard var. 2 1/2 in. pots, \$2.00
Pansies, dark color from old forms, \$4.00
Niphaea, red, 2 1/2 in. pots, \$2.00
Niphaea, coral, 2 1/2 in. pots, \$2.00
JOS. H. CUNNINGHAM, Delaware, O.

SPRING STOCK-SPECIAL.

- Geraniums, eight 1/2 variety, single and double, \$2.00
Coleus, twelve best varieties, rooted cuttings, 125 for \$1.00
Salvia, five best, var. selection, Golden Budded, Yerschaffelt, Pfirsbaum, J. Goode and Fire Crest, \$2.00
Alex. Herdrie, Alpina, N. Y.

WE PAID THE EXPRESS

- 1000 Pearly Plants, in best and bloom, \$1.50 per 100
1000 Double Grand, best variety, \$1.00 per 100
1000 Clear Plants, \$1.00 per 100
1000 Peppery Plants, in best and bloom, \$1.25 per 100
1000 Cash with order.

C. A. HARRIS & CO., Delanson, N. Y.

GERANIUMS

- Double Grant 2 1/2 in., \$2.00 per 100
Pansies, in best and bloom, \$1.25 per 100
Pinks, in best and bloom, \$1.25 per 100
Carnation, Geranium, Golden Queen, \$2.00 per 100
Cuttings, \$1.00 per 100, free by mail.

EVERETT & INSALL, Hackettstown, N. J.

Printing...

We are outfitted to do everything in this line required by the florist, the seedsman and the nurseryman...

A. T. DE LA MARE PTG. and PUB. CO.

RHINELAND BUILDING.

COR. ROSE AND DUANE STS. NEW YORK.

THE COLEAGE GARDENS, Queens, L. I.

SPECIALISTS IN

Carnations, Cannas, Chrysanthemums, Geraniums and Dahlias.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE.

ROOTED CUTTINGS.

Geraniums, best named sorts, \$1.50 per 100, \$1.00 per 100
Heliotrope, three vars., \$1.00 per 100
Ageratum, Dwarf, 2 1/2 in. pots, \$2.00 per 100
Chrysanthemums, 2 1/2 in. pots, \$2.00 per 100

WM. J. CHINNICK, Trenton, N. J.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE.

COLEUS.

Best bedders, including C. Verschaffelt and Golden Queen, \$2.00 per 100
Coleus, 2 1/2 in. pots, \$2.00 per 100
Heliotrope, 2 1/2 in. pots, \$2.00 per 100

50,000 SMILAX.

50,000 1/2 in. plants, \$1.00 per 100
50,000 1/2 in. plants, \$1.00 per 100
50,000 1/2 in. plants, \$1.00 per 100

GERANIUMS

A mixture of the best double or single sorts, \$2.25 per 100
Geraniums standard var. 2 1/2 in. pots, \$2.00 per 100
Pansies, dark color from old forms, \$4.00 per 100

Geo. H. Benedict, Yorkville, N. Y.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE.

WELL ROOTED CUTTINGS.

Hardy Plants, Her Majesty, May and the rest, \$2.00 per 100
Heliotrope, 2 1/2 in. pots, \$2.00 per 100
Ageratum, Dwarf, 2 1/2 in. pots, \$2.00 per 100

A. B. DAVIS & SON, Purcellville, Va.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE.

SEEDS!

Sample's White and Pink, Seed Perfection, Virescens and Comes, 50 cts. per 100
DOUBLE HARDY SEEDLING CARNATIONS, \$1.00 per 100
MORRIS FLORAL CO., Morris, Ill.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE.

GERANIUMS - Double Grant, La Favorite, etc.

Geraniums, choice named, \$1.50 \$12.50
COLEUS, 3 varieties, .60 5.00
HELIOTROPE, 3 " 1.00 8.00
AGERATUM, Dwarf, white and blue 75 6.00

CHAS. E. SMITH, Cor Jefferson and Jackson Aves., YORK, PA.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE.

PAUL MADER, East Stroudsburg, Pa.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE.

Rooted Cuttings.

Geraniums, choice named, \$1.50 \$12.50
COLEUS, 3 varieties, .60 5.00
HELIOTROPE, 3 " 1.00 8.00
AGERATUM, Dwarf, white and blue 75 6.00

CHAS. E. SMITH, Cor Jefferson and Jackson Aves., YORK, PA.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE.

COLEUS.

Best grandiflorum splendens in assorted colors, 2 1/2 inch pots, strain extra strong and healthy.

\$2.00 per 100; \$50.00 per 1000.

CHAS. E. SMITH, Cor Jefferson and Jackson Aves., YORK, PA.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE.

COLEUS.

Best grandiflorum splendens in assorted colors, 2 1/2 inch pots, strain extra strong and healthy.

\$2.00 per 100; \$50.00 per 1000.

CHAS. E. SMITH, Cor Jefferson and Jackson Aves., YORK, PA.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE.

CHAS. E. SMITH, Cor Jefferson and Jackson Aves., YORK, PA.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE.

CHAS. E. SMITH, Cor Jefferson and Jackson Aves., YORK, PA.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE.

Alternantheras, Begonias and Geraniums.

Alternanthera, 2 1/2 in. pots, \$2.00 per 100
Begonia, 2 1/2 in. pots, \$2.00 per 100
Geranium, 2 1/2 in. pots, \$2.00 per 100

Wm. J. Chinnick, Trenton, N. J.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE.

BETSCHER BROS. OFFER

- Very Fine Geraniums, 2 inch, per 100, \$3.00
" " " 2 inch, per 100, \$3.00
" " " 2 inch, per 100, \$3.00
" " " 2 inch, per 100, \$3.00
" " " 2 inch, per 100, \$3.00

BETSCHER BROS., Canal Dover, O.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE.

ROOTED CUTTINGS.

GOOD STOCK, LOW PRICES FOR CASH.

- Yerbanas, Mammoth, per 100 by mail, \$1.00
Chrysanthemum, by mail, per 100, \$1.50
Double Pansies, 2 1/2 in. pots, \$1.25 per 100
Dwarf Gals, 2 1/2 in. pots, \$1.00 per 100

Wm. J. Chinnick, Trenton, N. J.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE.

ROOTED CUTTINGS.

Yerbanas, Mammoth, per 100 by mail, \$1.00
Chrysanthemum, by mail, per 100, \$1.50
Double Pansies, 2 1/2 in. pots, \$1.25 per 100

Wm. J. Chinnick, Trenton, N. J.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE.

ROOTED CUTTINGS.

Yerbanas, Mammoth, per 100 by mail, \$1.00
Chrysanthemum, by mail, per 100, \$1.50
Double Pansies, 2 1/2 in. pots, \$1.25 per 100

Wm. J. Chinnick, Trenton, N. J.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE.

ROOTED CUTTINGS.

Yerbanas, Mammoth, per 100 by mail, \$1.00
Chrysanthemum, by mail, per 100, \$1.50
Double Pansies, 2 1/2 in. pots, \$1.25 per 100

Wm. J. Chinnick, Trenton, N. J.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE.

ROOTED CUTTINGS.

Yerbanas, Mammoth, per 100 by mail, \$1.00
Chrysanthemum, by mail, per 100, \$1.50
Double Pansies, 2 1/2 in. pots, \$1.25 per 100

Wm. J. Chinnick, Trenton, N. J.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE.

ROOTED CUTTINGS.

Yerbanas, Mammoth, per 100 by mail, \$1.00
Chrysanthemum, by mail, per 100, \$1.50
Double Pansies, 2 1/2 in. pots, \$1.25 per 100

Wm. J. Chinnick, Trenton, N. J.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE.

ROOTED CUTTINGS.

Yerbanas, Mammoth, per 100 by mail, \$1.00
Chrysanthemum, by mail, per 100, \$1.50
Double Pansies, 2 1/2 in. pots, \$1.25 per 100

Wm. J. Chinnick, Trenton, N. J.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE.

ROOTED CUTTINGS.

Yerbanas, Mammoth, per 100 by mail, \$1.00
Chrysanthemum, by mail, per 100, \$1.50
Double Pansies, 2 1/2 in. pots, \$1.25 per 100

Wm. J. Chinnick, Trenton, N. J.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE.

ROOTED CUTTINGS.

Yerbanas, Mammoth, per 100 by mail, \$1.00
Chrysanthemum, by mail, per 100, \$1.50
Double Pansies, 2 1/2 in. pots, \$1.25 per 100

Wm. J. Chinnick, Trenton, N. J.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE.

ROOTED CUTTINGS.

Yerbanas, Mammoth, per 100 by mail, \$1.00
Chrysanthemum, by mail, per 100, \$1.50
Double Pansies, 2 1/2 in. pots, \$1.25 per 100

Wm. J. Chinnick, Trenton, N. J.



Baltimore.

Easter Trade. The stock and the weather were favorable for a good Easter trade, and from all quarters, everywhere is satisfied with the business done. All the stores were beautifully decorated, and the window displays of flowers were very attractive. Prices realized were somewhat lower than in previous years. The dollar plant was much in vogue. Asparagus sold very well indeed; bulbous stock was a little soft with some, but taken all in all, was never better.

Cut flowers were in big demand. Roses and carnations led, after which bulbous stock and other flowers were in demand. Poor. In the majority of cases, it would have been better had they not been placed on sale.

JAMES PENTLAND is getting ready for selling his stock at auction. EDWIN A. SEIDWITZ.

Good-natured rivalry was shown in the store decorations this Easter, and is partly responsible for the good business done. E. A. Seidwitz being in the van with a pretty representation of the Brooklyn Bridge in the foreground; the background was well arranged with flowering stock, of which a heavy line was displayed to great advantage in his new showhouse.

P. PEASE & SONS made a rich and effect show in which some finely grown roses and azaleas played a prominent part. Anagnone was profusely used to advantage also. Atlantium Farleyana. Both of the last-named are grown in large quantities at their houses on the Frederick Road. I noticed particularly, some well grown medium-sized plants of metrorhiza and Stapfleya colchica. These sold at eight.

W. J. HALLIDAY made an exceedingly artistic display—the front of the store was painted a lavender blue. In one window the center piece was formed with flats of bicyanthus Carl Peter, backed with lilies, with ribbon to match. The other window had center piece formed with a daffodil—similarly arranged; it made a lovely picture.

Mrs. M. J. THOMAS windows were representative with handsome Beauty and lilies, arranged in fine large vases.

HALLIDAY BROS. made a fine display of bulbous stock, well-grown and nicely arranged.

In its issue of the 13th, the Baltimore News contained nearly a column of very interesting information regarding Easter, and the most desirable plants and flowers for that festive occasion. Doubtless, such information at such times is beneficial all around. W. M.

Davenport, Iowa.

The Easter trade here was reduced considerably, at least 25 per cent. Owing to the long continued cloudy weather, roses and carnations were not equal to former years in abundance, but mostly short stemmed, and Bride's-maid was fair. Some fine Bride were shown; and some of the La France were good. Belle Siebrecht was good; this rose is coming more into favor; brings fine buds, rich foliage and stiff stems. Carnations were plenty, but very much spilt. Bulbous stock sold fairly well, and all offered was well grown and of extra fine quality.

Plants sold well, especially Harrall, which were in fine condition. The bulk of the trade in this line consisted chiefly in plants, which sold at from 25c. to 50c. each. Some fine azaleas were offered and taken at 15c. and 20c. American Beauty, \$1.50 to \$1.75 per dozen; Bride, Bride-maid, La France, Belle Siebrecht, K. Augusta Victoria, 75c. to \$1; carnations, 40c. to 50c.; Van Sten, 50c.; Roumans, 50c.; tallies, 50c.; valley, 40c. per dozen, the latter selling the poorest of all the bulb stock.

Easter trade was slightly better than in 1896, white and yellow roses being in greatest demand. In plants, the call was for azaleas, Harrall and callas. Prices both on cut flowers and plants ran about the same as last year. Two-year-old spruce fuchsias, grown in tree form with stems three feet in length and full of bloom, sold at good figures.

Tiffin, O.

The Economist of this city, of April 1st last, gives a very interesting account of the establishment of LEWIS ULRICH, together with a photograph of the proprietor. Mr. Ulrich has been in business 22 years and has now 14 houses devoted to a general run of stock. He is particularly interested in the carnation.

Simplicity in Greenhouse Construction.

During our long experience we have not only made many improvements in greenhouses, but we have so simplified the construction that building a greenhouse is no longer a matter so full of complications as to tax the patience and the ingenuity of even the most intelligent mechanic. Our

Clear Cypress Building Material

is worked out in the best manner ready to be put up, and we furnish our customers such complete detail drawings that any workman of only ordinary capabilities can put it up correctly.

Write for Circulars or Estimates.

Lockland Lumber Co.,

LOCKLAND, OHIO.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE



THE VAN REYPER PERFECT GLAZIERS' POINTS

No rights or lefts. Price per pair of 1000, 60c, by mail, 75c; in lots of 5000 by ex., 55c. per 1000. HENRY A. DREER, 714 Chestnut St., Phila., Pa.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

CALIFORNIA RED CEDAR

Never Decays.

A. DIETSCH & CO. 619 Sheffield Avenue, CHICAGO.

THE BEST MATERIAL FOR RED CEDAR AND CYPRESS GREENHOUSE MATERIAL.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

SEND FOR OUR NEW CATALOGUE, WHICH SHOWS

The New Automatic Cable Ventilator

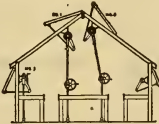
As it is put in in the house complete. We also give you prices with a guarantee that each machine sent out will operate your house successfully. Sell machines now made in two sizes.

A. Q. WOLF & BRO., Dayton, Ohio.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

STANDARD VENTILATING MACHINE.

NONE EQUAL IT IN Strength AND Durability



NOTHING Flimsy or Complicated about it.

Send for Catalogue. E. HIPPARD, YOUNGSTOWN, OHIO.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

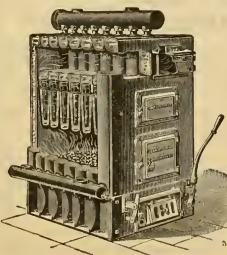
ATTENTION, FLORISTS!

It will be to your advantage to look into the merits of the Scollay "Inchless" Hot Water Boiler. It is all that its name implies, and don't forget it.

Cuts and full information mailed on application.

JOHN A. SCOLLAY, 74 & 76 MYRTLE AVE., BROOKLYN, NEW YORK.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE



The Strength of a Child pushes the "Simular" Hose Mender into place. No tools required.

The Strength of a Horse cannot pull it out. Weighs only 10 lbs. by 11, 10 cts. Couplings 25 cts. per set.

ELECTRIC HOSE can be fixed quickly, treated into any shape, or run over by teams without injury. Send for circular.

A GOOD LAWN SPRINKLER, By mail, \$1.00. KING & KNIGHT, 35 E. Wenzel Street, Boston

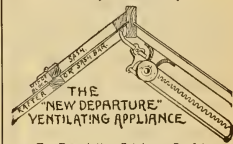
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Advertisement for CYPRESS GREENHOUSE MATERIAL featuring JOHN C. MONINGER CO. and a list of agents.

SEND FOR CATALOGUE.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

IF YOU WANT A GOOD SASH LIFT For a Very Little Money Get



For Descriptive Catalogue Send to J. D. CARMODY, Evansville, Ind.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

CYPRESS IS MUCH MORE DURABLE THAN PINE.

CYPRESS SASH BARS UP TO 32 FEET IN LENGTH OR LONGER. GREENHOUSE AND OTHER BUILDING MATERIAL.

Send for our illustrated book "CYPRESS LUMBER AND ITS USES." See our Special Greenhouse Circular.

THE A. T. STEARNS Lumber Co., Newburgh, Boston, Mass.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Modern Greenhouse Heating.

One of our boilers, 10,880 feet of two inch pipe, and six tons of coal will heat 23,400 feet of glass (four 20x200 feet double glass houses) to 65 degrees in coldest winter weather; they have done it, and will do it for you—we guarantee it. Our boilers are not only the best of their kind, but the best made. They have the largest "Afrabrig" direct surface, are the easiest cleaned, handled and set up, and from manufacturing facts, they are the ideal frictionless, economical water heating boilers of our day.

Plenty's Horticultural Works, 148-150 Randolph Ave., JERSEY CITY, N. J. WHEN WRITING MENTION THE FLORISTS' EXCHANGE



**Wholesale Florists**  
 ALWAYS ON HAND:  
 GERANIUMS, GIBBERNALS,  
 ROSES,  
 BUDS.

**FLORIST'S SUPPLIES.**  
 Florists' Vases.  
 Horticultural Artificers,  
 84 HAWLEY STREET, - BOSTON.

**GEORGE MULLEN,**  
 Wholesale and Commission Dealer in  
**Cut Flowers.**  
 Best stock and lowest prices. Orders by mail, express, telephone or bill-  
 gram promptly attended to.  
 GEORGE MULLEN 11 Chapman Place, N. Y.

**GEO. A. SUTHERLAND,**  
 Successor to WM. J. STEWART,  
**CUT FLOWERS and FLORISTS' SUPPLIES**  
 WHOLESALE.  
 67 Bromfield St., Boston, Mass.

**City Hall Cut Flower Market**  
**WELCH BROS., Props.**  
 Regular Consignors Given Special Free of Charge. Space let to growers wishing to sell their own goods.  
 Flowers Shipped to all Points.  
**...SEND FOR PRICE LIST...**

**W. ELLISON,**  
**Wholesale Cut Flowers,**  
 Florist Supplies. Wire Designs.  
 2744 Franklin Ave., ST. LOUIS, MO.

**CHAS. G. FLECKENSTEIN,**  
**Wholesale Flowers,**  
 1923 PINE STREET,  
 ...ST. LOUIS, MO.

**C. A. KUEHN,**  
 Successor to ELLISON & KUEHN,  
**WHOLESALE FLORIST,**  
 1122 Pine St., St. Louis, Mo.  
 A COMPLETE LINE OF WIRE DESIGNS.

**C. W. WORS,**  
**Wholesale Florist,**  
 913 N. LEFFINGWELL AVENUE,  
 ST. LOUIS, MO.  
 FINE ROSES—Shipped carefully to all parts of the country.

**HEADQUARTERS** in Western New York. Try us  
 ROSES, GARNATIONS and ALL SEASONABLE FLOWERS.  
**WM F. KASTING,** Wholesale Commission Florist  
 485 Washington Street, BUFFALO, N. Y.  
 Also Dealer in Florists' Supplies & Wire Designs

**E. G. HILL & CO.,**  
**Wholesale Florists,**  
 RICHMOND, INDIANA.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**75 CENTS per 100 lbs.**  
 The best and strongest BEST BE FRESH, NOT OLD DRIED UP STEEP. You can get the best of it - A Scotchman, 61 Madison Ave., N. Y.

**ASPARAGUS PLUMOSUS VARUS,**  
**W. H. ELLIOTT - Brighton, Mass.**

**Chicago.**  
 Easter Edition.  
 It is a long time since the wholesale florists have had such a busy week in the middle of April as the past, with a crop of roses including the big flower show in the City Hall.  
 But for the fact that flowers enough could not be had, trade would have gone away ahead of any other Easter.  
 In roses, perhaps a normal supply for the season was on hand, but there did not begin to be enough to fill all orders, hence the close of the week saw a shortage, and prices fully up to those listed, without any further change at a break at the close, or on the Saturday morning.  
 But in carnations there was surely a considerable shortage; at Kennicott's not more than 50 per cent. of last year's supply, it is claimed, was on hand. Others fared similarly.  
 The list has always had the proviso "subject to change without notice" was much in evidence, and prices on general account on Saturday morning ran \$1.85—and what \$1.75 to strictly fancy there was went at \$5 to \$6.

In lilies, taking the whole week, prices scarcely maintained quotations, and until Saturday a good many were disposed of at \$1.75, feeling a heavier supply than the market would warrant; but the end finally saw a decline, and to be had a pretty good average for this class of stock. Callas were in fair supply for the season, and prices for these ruled with those for Harlell.  
 Violets also sold well at about 75c; there being probably a full supply, the season here being late.  
 All kinds of bulbous material cleared out fairly, anything worthy the name of a flower sold.  
 Easter, looked at from a wholesaler's point of view, but for a shortage of supplies this year, from a monetary standpoint, would have been a record breaker; as it would, to have held one's own would be doing well.

Among Retailers.  
 Trade with the majority, more particularly counting the whole week, was satisfactory; taking Easter alone, and for a general average of all classes of stock, there was no advance over other years. Church decorations are not what they used to be; and as one told the writer who quoted the trade fair, there is a very large number of small estates, with no cheap way to help out. The florists' business in poorer neighborhoods; indeed, we heard of one right in the central part of the city, who had been offering his wares to wholesale men to re-sell, the weather Friday being unpropitious interfering with progress.  
 Plants seemed to have been cleared off in pretty good shape, some azaleas being still in bloom. There is one thing about this plant business in this city; they are too much hooked upon as a by-product, and as a rule, are not being done when they leave the growers' hands, being too often placed in dirty pots, poorly dried, and in a generally looking over the plant trade becomes a big feature, there must be a change here, for a very large percentage of prices would rule, for surely 10c retail for a good hyacinth, primula, and the like, grown in 4 inch pots, leaves a rather small margin for the grower, especially, as is often the case, when considerable quantities are sold.  
 For the coming week prices will probably remain fair, roses, \$4 to \$5; carnations, \$2 and \$3; at writing from here have experienced nights. The season is much later than last year, and seedmen are generally of slow sale, made as yet.

The Coasch Flower Show.  
 Chicago has had its Spring Flower Show in the Common Council Chamber since we were on the rise of the new Mayor, Carter H. Harrison, and council members taking their seats. As anticipated a splendid success, from previous efforts, and money flowed into the pockets of the florists. There is little doubt but \$5,000 worth was on the place, and the amount was paid for the pieces, many of which could not be gotten into the richer small flower chaser, but were placed on the outside. There was no end of baskets,

ON OR ABOUT MAY 1st  
**WE MOVE**  
 To 76-78 WABASH AVE.  
 CHICAGO, ILL.

Where we will exclusively occupy space, 45x100 feet, giving us the finest and largest Cut Flower Show room in the West.  
 We possess facilities in every way we hope to merit our customers confidence and patronage; to us every great extent than so generously extended during the past season.  
 We wish here to return our sincere thanks. Very respectfully,  
 E. H. HUNT.

Immediate correspondence solicited with growers of high grade stock for consignment.  
**WHEN WRITING MENTION THE FLORISTS' EXCHANGE.**

**EVERY FLORIST OUGHT TO INSURE HIS GLASS AGAINST FIRE.**

For particulars address  
**JOHN G. B. FLIER, 807, Saddle River, N. J.**  
**WHEN WRITING MENTION THE FLORISTS' EXCHANGE.**

**Stationery for Florists.**

Every florist in the land should have a complete supply of printed matter wherewith to conduct his business in style. We have the largest outfit in America devoted solely to horticultural printing, and we understand the wants of the trade. Below we quote two combination offers and would be pleased to supply you.

**\$5.00** Combination offer includes....

- 250 Noteheads, 55c/250 list.
  - 250 Envelopes, size 6x7.
  - 250 Business Cards, 25c/250 list.
  - 250 Tags, size 2 1/2x3 1/2 list.
- Cash with order. Delivered F. O. B., N. Y.

**\$10.00** Combination offer includes....

- 500 Noteheads, 55c/500 list.
  - 500 Envelopes, size 6x7.
  - 500 1 1/2x4 1/2, 7 line, wide, 55c list, dep.
  - 500 2 1/2x3 1/2, 8 line, wide, 55c list, dep.
  - 500 Business Cards, 25c/250 list.
  - 500 Tags, size 2 1/2x3 1/2 list.
  - One Day Book. If these are not wanted One Ledger. subtract \$1.50.
- Cash with order. Delivered F. O. B., N. Y.

**PLEASE READ THIS BEFORE YOU ORDER.**  
 Write plainly and send "copy" for each article wanted.

Noteheads will be ruled in smooth writing paper with finished lines. Linnen paper, ruled or unruled, can be had instead if so ordered.  
 Envelopes are full commercial size and of good quality.

Billsheets will be furnished as above, but size 4 1/2x7 1/2. If you desire deep will be substituted when so ordered.  
 Cards are of good quality and ample proportions.

Day Book and Ledger are large enough for ordinary purposes. Ledger is indexed and will hold 30 accounts.

Special designs, trade marks, etc., engraved for a Rose, violet, or other flower will be printed on your letterheads and billsheets if you so order.  
 The quality of all the above work is guaranteed.

We can forward any of these combination offers with advantage to the purchaser, but it will not pay from a distance to order a single item on account of the express charges.  
 Address all orders to  
**A. T. DE LA MAR PRTG. AND PUB. CO. Ltd.**  
 P. O. Box 1876, New York, C.

Cut Strigs, 8 to 10 feet long, 50 cts. each.  
 The best and strongest BEST BE FRESH, NOT OLD DRIED UP STEEP. You can get the best of it - A Scotchman, 61 Madison Ave., N. Y.

bunches and bouquets of American Beauty roses and other flowers, as well as the regulation horse shoes, harps, lyres, stars, eagles, wreaths, crowns, pillows, ships of state, full rigged brig, tugs with the suggestion of "pull" coats of arms, bonnets, scrolls, banners, big foot balls for the center rub, etc. A Bismekitt got an eagle framed in large mirror. Several amateur photographers, with a camera and photograph of the owner, others got a hat, liberty bell, a full-sized chair, record book for the clerk, with his majority and date of victory. The smallest man got a ladder of fame; one a rainbow of hope, great horns of plenty, a bicycle with a single perch on the seat, eagles to scream and roosters to crow. There was an immense column 12 feet in height, a 7 foot cannon, an umbrella, and last but not least, a bust, representing Chicago with its Columbian motto "I will," done in leather across the breast.  
 A large number of florists in all parts of the city shared in the work.

**Armed Town.** LANE, an amateur florist, who had the distinction of being the first in this city to grow single stem chrysanthemums and obtain premiums for same, when the Florists' Club used to hold its flower shows, was aged 73 years, from heart failure. He was an early member of the S. A. F.  
 Goe to the War.

Theodore Callas and George Harris, prominent florists here for years, and running an well a \$30 a month stand in a dry goods store, leave on Friday for Greece. W. E. Lynch takes the lease of stand for disposal.

J. Austin Shaw, representing Siebrecht & Son, New York, has secured the right of the city this year.

**Nashville.**  
 Easter trade was about the same as last year. Roses and carnations sold best. Lilies took the lead in plants; \$2.00 wire, for roses, \$1.00 to \$1.25 per dozen; carnations, 50c per dozen; cut lilies, \$1.50 to \$2; lily, 50c; hyacinths, 25c; carnations sold at \$1 to 3 each; lilies, 50c to \$1.50 each; scintillas, in 6 inch pots, \$1; hyacinths, 25c. Cincinnati specimens went at \$1 each; roses in pots, 50c. to \$1. There was a good call for palms in 5 or 6 inch pots. We had nothing in the way of a novelty.

**CUT SMILAX**

Choice 6 foot strings at N. Y. Market rates.  
 Assorted under \$5.00 strings.  
**ADIANTUM CUNEATUM**  
 Extra fine fronds, \$1.00 per 100.

**GUSTAVE SCHRADER,**  
 Cut Flower Exchange, and Hoffman Boulevard,  
 New York, N. Y.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CUT SMILAX**

12 cents per string.  
**THE NATIONAL PLANT CO.,**  
 Dayton, Ohio.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**W. M. A. BOCK,**  
 NORTH CAMBRIDGE, MASS.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**80.00 per 100 lbs. and blooms in pots.**  
**88.00 per 100, cut.**  
 It is well for those who order, to order before they are thoroughly opened, as they will ship better.  
 Cash With Order.

**W. M. A. BOCK,**  
 NORTH CAMBRIDGE, MASS.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# GREENHOUSE

ALL SIZES

The Wood Glass Co.  
226 N Salina St.  
Syracuse, N.Y.

## Standard Flower Pots.

Send for our New Price List with extra discounts. All our Pots, from 7 1/2 in. and upwards, have our Patent Elevator Bottom, which is a great advantage, as it insures perfect drainage.  
A FULL LINE OF BULB PANS.  
THE WILLIAMS POTTERY CO., 713 to 719 Wharton Street, PHILADELPHIA.  
BRANCH HOUSES: Karner and Westside Aves., Jersey City, N.J.; Jackson Ave. and Porton St., Long Island City, N.Y.

# GLASS

FOR GREENHOUSES, CONSERVATORIES, GRAPERIES, HOTBEDS AND FLOWERS' USE GENERALLY, AT LOWEST RATES.  
L. HARRIS & SON.  
497 W. BROADWAY, NEW YORK, 89 LIBERTY ST., NEW YORK  
301, Broadway and Market St.

# GLASS!

For Greenhouses, Conservatories, Graperies, Hotbeds and all other purposes, at Lowest Rates.  
N. COWEN'S SON 392 & 394 West Broadway, New York.  
Formerly 154 and 156 So. Fifth Avenue.  
Get our Figures before buying Glass. Estimates Freely Given.

# GLASS

For GREENHOUSES, CONSERVATORIES, GRAPERIES, HOTHOUSES AND HOTBEDS.  
VANHORNE GRIFFEN & CO.  
Agents for CHAMBERS & McKEE CO., Jeannette Brands American Glass.  
19, 15 & 17 LIGHT ST., 25, 54 & 55 VARICK ST., NEW YORK.

# Emil Steffens

SUCCESSOR TO N. STEFFENS  
and STEFFENS BROS.  
Manufacturers of  
**WIRE DESIGNS**  
AND SUPPLIES.  
335 EAST 21<sup>ST</sup> STREET, NEW YORK CITY.

# FLOWER POTS

We are Manufacturing a Full Line of  
**STANDARD FLOWER POTS and HANGING BASKETS**  
OF THE BEST QUALITY.  
Shipping Facilities First-Class, thereby Securing Low Freight Rates.  
Our goods are well packed, and breakage is nominal. Give us a trial. Send for Price List.  
Address THE SYRACUSE POTTERY CO., 403 N. SALINA ST., SYRACUSE, N. Y.

### KNIPS

The best for Botanists, Florists, gardeners, etc.  
Kelley's Florists' Shears  
and Flower-Cutters  
SHEARS CO., Fremont, Ohio.

### MEYER GREEN SILKALINE.

Good for Dying BLUE and APPARATUS.



### GARDEN, ETC., HOSE.

"Mineralized Standard," is the best hose made at any price. Florists try a single length. Agents wanted.  
MIXERIALIZED RUBBER CO., 13 CURT ST., NEW YORK.

# YOU NEED WIRE WORK

WE ARE LARGE MANUFACTURERS  
IN THIS LINE.  
Get our Low List and Save Money  
**ELLIS & POLLWORTH,**  
Box 75. 2 Millwaukee, Wis.

## JOHN CONLEY & SON,

MANUFACTURERS OF  
**TIN FOIL,**  
2 IN and 4 Dominican Street,  
NEW YORK.

### STANDARD FLOWER POTS.

We manufacture a full line of standard Flower Pots, Seed Pans, Cylinders, glazed and unglazed, for cut flowers; Lava Vases and Hanging Vases.  
Send for price list before ordering elsewhere.  
Address HILFENKAMP BROS.,  
or AUGUSTUS HILFENKAMP & SONS,  
136 & 138 W. 24th St., N. Y. City.

## STANDARD FLOWER POTS

In any quantity, and of the best quality. Get my price list before ordering elsewhere.  
**W. H. ERNEST,**  
Station M. N. E., WASHINGTON, D. C.



TELEPHONE, 1782 18TH ST.  
WHEN WRITING MENTION THE FLOWERS' EXCHANGE

## Boston Florist Letter Co.



This wooden box nicely stained and varnished, 18 1/2 by 12 by 2 inches deep, one end hinged, one end open with first corner of 500 letters.  
Priced for 100 letters, 25c; for 100, \$2.00  
Single Letters, \$4.00.  
Letters will not rust or wood.  
Send by Invoice. Corsets everywhere and for sale by all wholesale florists and supply dealers.  
N. F. McCARTHY, Treas. & Manager.  
FACTORY 100 WEST ST., BOSTON, MASS. 26 WEST ST.  
WHEN WRITING MENTION THE FLOWERS' EXCHANGE

### W. C. KRICK'S

Immortelle Letters  
Medal awarded  
Fair and Highest  
Quality  
Established.  
Plans, Letters and  
Designs are made  
of the best materials  
used on wood or  
metal frames having  
holes drilled in them  
to insert tooth-picks  
by which they are  
fastened in the device.  
Give them a  
superior to all  
these goods to be  
used in the market.  
\$2.00 per 100.  
Before purchasing send for the sample and catalogue  
and compare with any other letters in the market.  
For sale by all Florists' Supply Dealers.

### THE Perfect Flower Pot Handle and Hanger

is used for lifting plants out of flower-pots, also for hanging up plants for decoration on walls, etc. Will sustain a weight of 10 lbs. No. 1 will lift from 2 to 5 lbs. in pot, per doz. \$6c. No. 2 will lift from 5 to 10 lbs. in pot, per doz. \$6c. No. 3 will lift from 10 to 20 lbs. in pot, per doz. \$6c. Postage 1c per doz. outside.

W. C. KRICK, 1287 Broadway, Brooklyn, N.Y.  
WHEN WRITING MENTION THE FLOWERS' EXCHANGE

Brooklyn, N. Y.  
Cut lilies sold well for 15c. straight; the demand for violets exceeded last year's. Roses, carnations, tulips, and daffodils were in good demand. The call for fancy carnations was also good, but prices were lower than last year's.  
In plants, azaleas, lilies, hydrangea in pen, also two or three in a pot, sold well. Hydrangeas are not much in requisition. While trade was good, it was not quite up to last year.

M. T. KERANS made his usual Easter display, which surpassed all his previous efforts in this direction, and that means a good deal. The window decoration was a beautiful piece of art work with large aquarium in the center, filled with rare and beautiful fishes, surmounted with pots of Ficusyena ferns in handsome jars. A monstrous bunch of lilies in one corner was reflected by the mirror panels, as also were very handsome azaleas, ferns, and sphinxes. The view of the store and greenhouses from the front was exquisite, the arrangement of plants and colors being in splendid taste. All kinds of reasonable stock were embraced in the display, which was visited by thousands of people.

Lowell, Mass.  
The volume of trade was larger than last Easter. Lilies, roses, carnations, violets, tulips, daffodils, sphinx sold in the order named. Prices for lilies were 25c; \$3.25 per dozen; carnations, \$2.25 per dozen. In roses, Brunner, \$3; Meteor, \$2.25; Bride and Bridegroom, \$1.75; Winton, \$1.50; carnations, 60c; 75c, and 81c per dozen; violets, 15c; 20c; 25c; carnations, tulips, daffodils and sphinxes, 75c. per dozen. Prices were about the same as last year's.  
Lilies in pots sold at 30c. per flower and bud, and were cleaned out. Azaleas sold well at \$1. to \$1.50; also geraniums at 10c. and in 4 inch pots; hydrangea 15c., and geraniacs at 25c. each.

## HAVE YOUR COLLECTIONS MADE THROUGH THE NATIONAL FLOWERS' BOARD OF TRADE,

271 BROADWAY, NEW YORK.  
WHEN WRITING MENTION THE FLOWERS' EXCHANGE

GROW PLANTS IN  
"Jado" Fibre.  
WATER THEM WITH  
"Jado" Liquid.  
WHEN WRITING MENTION THE FLOWERS' EXCHANGE

## M. RICE & CO.,

Importers and Manufacturers of  
**FLOWERS' SUPPLIES,**  
25 N. 4th St., Philadelphia, Pa.  
NEW FALL CATALOGUE NOW READY  
WHEN WRITING MENTION THE FLOWERS' EXCHANGE

## WELCH BROTHERS,

DEALERS IN  
**FLOWERS' SUPPLIES,**  
No. 1 Beacon Street, BOSTON.  
Wire Designs, Waxed Sheaves, Baskets, Immortelles, Cape Flowers, Out Flowers, Boxes, and all other supplies, at prices to meet competition.  
WHEN WRITING MENTION THE FLOWERS' EXCHANGE

## PAPER AND TWEENE.

Toothpicks.  
Paper Bags.  
Waxed and Tissue Papers---all sizes.  
H. A. SOHL, 147 E. 42d St., NEW YORK.  
WHEN WRITING MENTION THE FLOWERS' EXCHANGE

## SUMMER IN WINTER

By Using  
**Standard Greenhouse Rollers**  
One cent gets our Catalogue.  
**GIBLIN & CO.,** Utica, N. Y.  
WHEN WRITING MENTION THE FLOWERS' EXCHANGE

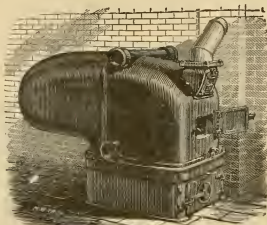
**LORD & BURNHAM CO.,**  
**HORTICULTURAL ARCHITECTS AND BUILDERS,**  
 STEAM AND HOT WATER HEATING ENGINEERS.  
 Plans and Estimates furnished on application.



Largest Builders of Greenhouse Structures. Six Highest Awards at the World's Fair. Send four cents postage for Illustrated Catalogue.

**LORD & BURNHAM CO.,**  
 ARCHITECTURAL OFFICE, 160 FIFTH AVE., COR. 21st STREET, NEW YORK.  
 Factory: Irvington-on-Hudson, N. Y. Mention paper.

**GREENHOUSE HEATING AND VENTILATING,**  
 Horticultural Architecture and Building.



Mention paper.

SEND 4c. POSTAGE FOR ILLUSTRATED CATALOGUE.

**Kitchings & Co**

ESTABLISHED 1844.

233 Mercer Street, NEW YORK

**FIVE PATTERNS OF BOILERS,**  
 NINETEEN SIZES,

Perfect Sash Raising Apparatus.  
 Greenhouses, Greenhouses, Etc., of Iron  
 Frame Construction erected complete, or the  
 Structural Iron Work shipped ready for erection.

Iron Frame Benches with the  
 "New Fringe Drainage Bench Tile"  
 or Slate Tops.

**TOBACCO STEMS**  
 Large Bales (200 lbs.), \$1.50 ... **STRONG**  
 AND **FRESH**  
 Tobacco Dust, 2c. per lb.  
 Kaffin, the best material for tying, does not  
 injure the plants; it grows farthest and is  
 cheapest; first quality long fibre at 10c. a lb.;  
 \$3.00 a 100 lbs.

H. G. FAUST & CO., 61 & 66 N. Front St Philadelphia, Pa.

WHEN MENTION THE FLORISTS' EXCHANGE.

**THE BEST FOR ALL Florists.**

FOR SALE BY Seed Stores.  
 For Free Pamphlet, write to LOEBVILLE SPURDUE TOBACCO CO. Louisville, Ky.

WHEN MENTION THE FLORISTS' EXCHANGE.

**CANE PLANT STAKES**

3 to 6 ft., per 1000, \$2.00.  
 6 to 8 ft., " 3.00.

Ready Now. Cash with order. Will ship light, because well dried.

W. W. HENDRIX, Bowling Green, Ky.  
 WHEN MENTION THE FLORISTS' EXCHANGE.

**CHOCOLATE COOLER CO.,**  
 GRAND RAPIDS, MICH.

Manufacturers of

**FLORIST'S REFRIGERATORS.**

Send for Circular.

WHEN MENTION THE FLORISTS' EXCHANGE.

**CLARK BROTHERS,**  
 Manufacturers and Printers of

**PAPER SEED BAGS**

Of every Description except Lithograph Bags.

61 ANCON STREET, NEW YORK.

WHEN MENTION THE FLORISTS' EXCHANGE.

Chadborn's Automatic Ventilator  
**CHADBORN, KENNEDY & CO.**  
 NEWBURGH, N. Y.

WHEN MENTION THE FLORISTS' EXCHANGE.

**VALVES, FITTINGS AND VENTILATING APPARATUS.**

**COLDWELL & WELCH CO.,**  
 NEWBURGH, N. Y.

Mention paper.



**THE JOHN J. PETERS COMPANY**  
 (INCORPORATED.)

**PULVERIZED**

A Quick Germinator and Crop Forcer.

FACTORY:

Little Ferry, New Jersey.

OFFICE:

Long Island City, New York.

**NATURAL. ODORLESS**

WHEN MENTION THE FLORISTS' EXCHANGE.



**COMPRESSED**

Beats Every Chemical Fertilizer on Earth.

Pure Sheep Fertilizer permanently improves the soil.

Matures the largest and best crops. Quick and lasting in its action.

**CLEAN TO HANDLE.**

**"JADOO" FIBRE AND LIQUID**

"Jadoo" Fibre!

A new getting material.

Seeds germinate more quickly than in earth.

Greater perfection easily attained.

Suits all kinds of plants.

Is much lighter than earth.

Less frequent watering required.



Protected by Letters Patent.

"Jadoo" Fibre is a perfect substitute for earth.

The Flowers grown in it are larger and of a rich color.

The Flowers last longer.

No soil to mix. No manure required. immense saving of labor to professional or amateur gardeners.

The supply at the present time is limited to 50 Tons Fibre and 1500 Gallons Liquid per month.

**WE ARE NOW BOOKING ORDERS FOR MAY DELIVERY**

Testimonials and Prices furnished on application to

**THE AMERICAN JADOO CO.,**

811, 813, 815 Fairmount Ave.,

PHILADELPHIA, PENNA.

WHEN MENTION THE FLORISTS' EXCHANGE.

**Grass' Improved Challenge.**

Roller mounted, self-acting device, automatic stop, soft link chain, made by the LITTLE ROCK CHALLENGE. The most perfect apparatus in the market. Write for catalogue and price before planting. Four orders also.

Quarter City Machine Co., RICHMOND, IND.

WHEN MENTION THE FLORISTS' EXCHANGE.

**RAFFIA**  
 Of Best Quality. Dried. Direct from the Packers in Madagascar.

Apply for quotations to: **ANDRE L. CAUSSE,** 105-107 Hudson St., NEW YORK.

WHEN MENTION THE FLORISTS' EXCHANGE.

**SPRAY PUMPS**  
 The Best in the World.

Our Pumps are Used by the Leading Agricultural Colleges and Experimental Stations in America.

Price \$2.00 to \$10.00.

Send for Catalogue and Special Price List. **CHARLES J. JAGER COMPANY,** 174 HIGH ST., BOSTON, MASS.

WHEN MENTION THE FLORISTS' EXCHANGE.

70 cents & costs for each 500 feet of floor space.

**Kill and Save the Bugs!**

Does not injure the most sensitive plants. Endorsed

**Nikotein**

by prominent Societies. Used for fumigation or spraying indoors or out. 500 pounds at tobacco to one plant of Nicotina. Sold by seedsmen, Circular Rev. SEABURD DIP CO., CHICAGO.

Quickly Does It.

WHEN MENTION THE FLORISTS' EXCHANGE.

**DEMING PUMPS FOR PROFIT**  
 THE WORLD'S BEST  
 WE MANUFACTURE PUMPS FOR ALL PURPOSES.

Our Spray Pumps and Nozzles are used by the equipment stations and all leading horticulturists. The best fruit and berries are only produced by spraying. We can supply illustrated 36 Page Book on Spraying FREE. Address: **THE DEMING CO., SALEM, OHIO** HENSON & HUBBARD, Special Western Agents, 61 and 63 North Jefferson St., CHICAGO, ILL.

WHEN MENTION THE FLORISTS' EXCHANGE.

## Florists' Supplies...

LARGEST STOCK IN THE COUNTRY

All goods up to date, and of superior quality. Send for Illustrated Catalogue.

We are prepared to supply

## GALAX LEAVES

In any desired quantity

H. BAYERSDORFER & CO.,  
56 N. FOURTH STREET, PHILADELPHIA, PA.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## LARGEST AND BEST STOCK OF PREPARED CYCAS LEAVES

TO BE FOUND ANYWHERE

Metal Floral Designs, Sheaves, Doses, Baskets, Moss Wreaths, Wheat, Milkweeds, Cape Flowers, Wire Work, and all Florists' Supplies.

Write for catalogue. Free to the trade.

A. HERRMANN, 404-412 East 34th Street (Near Ferry), New York.

Manufacturer of METAL FLORAL DESIGNS, Importer and Dealer in FLORISTS' SUPPLIES.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

### CYCAS LEAVES AND FUNERAL SHEAVES BASKETS AND SUPPLIES, SEEDS AND SPRING BULBS,

At wholesale only; apply for lists. Address  
**AUGUST ROLKER & SONS, NEW YORK,**  
136 and 138 West 24th Street. P. O. Station E.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## Galax leaves.

CHAS. H. RICKSECKER, Linville, N. C.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

### FERNS FERNS

Hardy set ferns, fancy or rarer, or from the same place as 1000. Don't you want some nice ferns? Order by mail or dispatch freely by express.

THOMAS COLLINS,  
MINDALE, MASS.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Carnations.—All the novelties of the season, from 25 inch pots at ruling price. Standard varieties from 25 inch pots, \$1.00 per 100; heavy plants for summer flowering, 5.00.

Chrysanthemums.—All the best standard varieties from pots, \$1.00 per 100.

Mrs. H. Robinson, \$1.00 per 100.

Clematis Hamulosa.—Strong plants from 3 inch pots, \$1.00 per 100; \$4.00 per 100.

C. EISEL, 11th & Jefferson Streets, Philadelphia, Pa

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## Columbia Canna

BEST RED. DRY ROOTS.  
\$1.50 per Dozen. Cash.

EDWIN A. SEIDEWITZ,  
36 W. LEXINGTON ST., BALTIMORE, MD.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## Prize-Winning DAHLIAS

AN UNPRECEDENTED RECORD.

23 First Prizes, Certificate of Merit, 2 Diplomas, and highest mention everywhere.

If you want the Very Best Dahlias that bloom, and for our 1897 descriptive trade list now ready. Address  
**W. P. PEACOCK,**  
Dahlia Specialist, ATCO, N. J.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## VEGETABLE PLANTS

All strong transplanted plants, well-rooted and hardy, of standard varieties.

Cabbage, from frame.....	100	10.00
"        "        "        "        "        "	50	9.10
"        "        "        "        "        "	35	3.00
"        "        "        "        "        "	85	5.00
"        "        "        "        "        "	50	3.75
"        "        "        "        "        "	25	2.00
"        "        "        "        "        "	25	2.00
"        "        "        "        "        "	25	2.00
"        "        "        "        "        "	25	2.00

TREAT LIST FREE.

TRADE LIST FREE.

TRADE LIST FREE.

TRADE LIST FREE.

TRADE LIST FREE.

TRADE LIST FREE.

TRADE LIST FREE.

TRADE LIST FREE.

TRADE LIST FREE.

TRADE LIST FREE.

TRADE LIST FREE.

TRADE LIST FREE.

TRADE LIST FREE.

TRADE LIST FREE.

TRADE LIST FREE.

TRADE LIST FREE.

TRADE LIST FREE.

TRADE LIST FREE.

TRADE LIST FREE.

TRADE LIST FREE.

TRADE LIST FREE.

TRADE LIST FREE.

TRADE LIST FREE.

TRADE LIST FREE.

TRADE LIST FREE.

TRADE LIST FREE.

TRADE LIST FREE.

TRADE LIST FREE.

TRADE LIST FREE.

TRADE LIST FREE.

TRADE LIST FREE.

TRADE LIST FREE.

## AMPELOPSIS VEITCHII.

Fls. dormant, 1 and 2 year old; price \$3.00 and \$6.00 per 100. Delivered, 25 cts. extra, at your door.

## CANNAS

ITALIA, \$5.00 per doz. AUSTRIA, \$3.00 per doz. ALASKA, \$2.00 per doz. One border stock.

Hardy Pinks, including Her Majesty, 50c. per doz.; \$3.50 per 100. Crimson Rambler, 4 in., \$5.00 per doz. Honeyuckles, Hilda's and Golden Ray, 50c. per doz.; extra line California Violets, fall runners, \$1.00 per 100.

BENJAMIN CONNELL, Florist, West Grove, Pa.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

### WE MAKE A SPECIALTY OF GROWING

A. W. Smith's Hybrid Moonflowers (Ipomoea Noctiflora).

The above are strictly the best Moonflowers in cultivation; blooming from 30 to 45 days earlier than the old variety; producing four or five different shaped flowers, and blooming at five to seven inches in diameter. The flowers are pure white.

Plants for stock now ready to sell from 24 inch pots, at \$1.00 per doz.; \$7.00 per 100. No less than 50 plants at 10 rates. Orders for May will be booked now. Cash with order.

### CODFREY ASCHMANN,

1055 Ontario St., Hines Sun, Philadelphia, Pa.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Considerable Custom

Advertising in your paper has brought me considerable custom. J. J. FOKER DRUG WORK, Mountville, N. Y., Oct. 3, 1896.

## AUSTRIA CANNA—Strong 4 inch plants, \$5.00 per doz.; \$16.00 per 100. FINE BIRD-GROWN DORMANT ROOTS, \$1.50 per doz.; \$16.00 per 100. ALSCAL (current white), 4 in., \$2.00 per doz.; \$16.00 per 100. FINE CANNA ITALIA, 4 inch, \$6.00 per doz. Also Wintzer's New Pedigree Cannas, Philadelphia, Golden Pillar of Fire, Golden Pearl, Trisymph and Sunset, the six for \$65.00. New Double Raubekia, Golden Glow, 2 1/2 in., \$6.00 per 100. New Logan Berry, strong and vigorous, 2 1/2 in., \$6.00 per 100. New Daylight, Chinese Lantern Plant, etc. Send for Price List. ALFRED F. CONARD, West Grove, Pa.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## 2c. ROSES 2c.

Strong Young Plants, 2 1/2 inch Pots. QUALITY OF STOCK GUARANTEED.

**FOLLOWING LIST, \$2.25 per 100; \$20.00 per 1000.**

Bride	Strafe	Mme. Elie Lambert
Bridesmaid	Pink Souper	berri
Mme. J. Schwartz	Maria Van Haute	Crown Princess
Coquette de Lyon	Mme. Guillot	Chimber
Clotilde Souper	Folle de Lyon	Empress of China
Grand Duchess	Richard	Mary Washington
Bilda	Lady Warrender	Ch. Bonaventuris
Duchess of Edinburgh	Marquis de Vivian	Lamarque
President	Riza du Parc	Henricite
La Favorite	Caumont	H. Nel
Audre Schwartz		

**FOLLOWING LIST, \$2.75 per 100; \$25.00 per 1000.**

Hermosa	C. Cook	Sen. McNaughton
Hermes	Louise de La Riv	The Queen
Mme. Kruger	Mme. Welche	Robins
Mme. Planier	Alf'd Rougemont	Yellow Hermosa
Lucille	J. B. Varoune	Miss Wenn
Purple China	Folkstone	Maitainson
Chromatella		

## CLIMBERS.

C. La France, Prairie Queen, Solitaire, Augusta

**FOLLOWING LIST, \$3.25 per 100; \$30.00 per 1000.**

Mme. Route	Meteor	Mme. S. Morgan
Golden Gate	Woolton	Belle Siebrich
Mrs. De Gray		Robins
Rochester		Mme. P. Berean

## CLIMBERS.

Crimson Rambler		\$1.50 per 100
		4.00 " 1000

## GERANIUMS

\$3.00 per 100. \$3.00 per 1000.

Heteranthus	White Swan	De Brazee
Emerson	Mountain of Snow	Re Umberto
The Conable	Hartel Thorpe	Gripper Banks
Emily de Girardin	Gold Dust	S. Nutt

## CHRYSANTHEMUMS

\$2.75 per 100. \$27.50 per 1000. \$2.00 per 100.

Geo. Bramhall	Niveus	The Queen
Golden Gate	Major Bonaffon	Enfant des deux
Ivy	Inter-Ocean	Thames
M. Ariste	Major	Col. W. B. Smith

## HELIOTROPES

\$3.00 per 100. \$3.00 per 1000.

Mme. Bruant	White Lady	Albert DeLacau	Dark Bouquet	Juliet
-------------	------------	----------------	--------------	--------

## BEGONIAS

\$4.00 per 100. \$4.00 per 1000.

President Carnot	Argentea Gutatta	Clementina
M. de Lessops	Midge	Mme. Treysse

Bertha C. Roebur	Sanderson	Festini
Alba Perfecta	Mollora	Mollora
	Red Begonias in variety,	\$4.00 per 100.

## MEXICAN PRIMROSES

\$2.50 per 100

SANSEVIERA ZEYLANICA,	3 1/2 inch, extra large plants,	4.00 " 100
	2 1/2 "	6.00 " 100

TERMS: Cash with Order.

# THE NATIONAL PLANT CO. DAYTON, U. S. A.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# LITTLE FLOWERS' EXCHANGE

We are a straight shoot and aim to grow into a vigorous plant.

A WEEKLY MEDIUM OF INTERCHANGE FOR FLORISTS, NURSERYMEN, SEEDSMEN AND THE TRADE IN GENERAL.

VOL. IX. NO 18.

NEW YORK, MAY 1, 1897.

One Dollar Per Year.

## COMPARE THESE PRICES

<b>Lilium Speciosum Rubrum</b> , 7 to 9 inch.....	\$5.00 per 100
" " 9 to 11 inch bulbs.....	\$4.00 per 100
<b>Lilium Speciosum Album</b> , 7 to 9 inch bulbs.....	\$8.00 per 100
" " 9 to 11 inch bulbs.....	\$10.00 per 100
<b>Gladiolus, American Hybrids</b> , mixed.....	\$10.00 per 100
" " <b>White and Light Florists' Best</b> .....	\$25.00 per 100
" " <b>White and Light</b> , Standard selection.....	\$12.50 per 100
<b>Dahlias, Single</b> , named varieties.....	\$4.00 per 100
" " <b>Double</b> , named varieties.....	\$5.00 per 100
<b>Dwarf Pearl Tuberoses</b> , Guaranteed 4 to 6 inch bulbs.....	\$4.00 per 100

### HARDY POMPON CHRYSANTHEMUMS.

These Chrysanthemoms, though in no way new, have not received in past years the attention they deserve, especially for planting in private gardens, where many of the large-flowered varieties do not mature their flowers before the cold weather sets in. We have made extensive trials, securing the best that could be found in Europe, Japan and this country, and offer them at **\$3 Per 100.**

### INTRODUCTIONS OF 1896.

Alonzo, Henry Hurrell, Indiana, Infatuation, Lenawee, Marion Cleveland, Miss L. Magee, Modesto, Mrs. Harry Turrel, Mrs. H. H. Batties, Mrs. Perrin, Mrs. Wm. C. Egan, Mrs. W. P. Raynor, Nanshan, Pluto, Riverdale, Tacoma. **\$3 Per 100.**

### STANDARD VARIETIES.

Louis Bohmer, Major Bonastan, Mrs. Jas. H. Crane, Eugene Dallozouze, Miss Agnes Louise Deakay, W. D. Dinmore, Mrs. A. J. Brock, L'Estafet des Deux Mondes, Ermolida, Mrs. Alpheus Hardy, Maria Henderson, Mrs. Heinebotman, Mrs. E. G. Hill, Dean Hole, Joly, J. E. Laker, Lutetia Pad, Mrs. George J. Magee, Marie Louise, Minerva, Mrs. S. F. Murdoch, Mattal Kried, Nemesis, Nereus, Miss Georgiana Picher, Miss Florence Pullman, Mrs. Geo. M. Pullman, The Queen, H. W. R. man, Mrs. Henry Robinson, Dorothy Peier, J. H. Troy, Mrs. H. Rock, Tremblay, Virland-Morek, Mrs. Geo. West, Yellow Queen. **\$3 Per 100.**

**PITCHER & MANDA, Short Hills, N. J.**  
JOHN N. MAY, Receiver.

## COCOS WEDDELANA.

We have just received a consignment of fresh seed in perfect shape, which we offer as long as unsold at **\$9.00 per 1000**; 3000 lots at **\$8.00 per 1000.**

### NEW CLIMBING YELLOW RAMBLER ROSE.

The Only Hardy Yellow Climbing Rose Yet Introduced.  
A Worthy Companion to the Wonderful Crimson Rambler.  
This new Rose bids fair to have as wonderful a sale as its predecessor, the Crimson Rambler. We have a large stock of it, and offer it at the following exceedingly low prices, viz:  
**Strong Plants, 2 1/2 inch pots, \$2.50 per doz.; \$15.00 per 100.**  
**35 25.00**

Full description of this valuable novelty, and a beautiful colored illustration of same, a reproduction of a painting by the celebrated artist, Paul de Longpre, will be found in our descriptive catalogue, which will be sent on application to any one who may not have received it.

### NEW ROSE, PRES. CANYOT

In any quantity, fine, strong, healthy plants, 3/4 inch pots, at \$15.00 per 100; \$125.00 per 1000  
Our stock of other

### WINTER-FLOWERING ROSES

is large and in exceptionally fine shape. We offer all the leading varieties as follows:  
Perle, Bride, Marquer, Erdsemaid, Mme. Cassin, 85 per 100; \$10 per 1000.  
Mme. Caroline Testout, Kaiserin Augusta  
Victoria and Mrs. Pierpont Morgan..... 80 per 100; 850 per 1000.  
American Beauty..... 80 per 100; 850 per 1000.

Our Wholesale List and Complete Descriptive Catalogue will be Sent Free on Application to any who may not have received them.

## F. R. PIERSON CO., TARRYTOWN-ON-HUDSON, NEW YORK.

**TUBEROUS BEGONIAS AND TUBEROSE PEARL**  
At lowest Wholesale Rates in Quantity. Write for Prices. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## HIGH GRADE SEEDS AND BULBS


### McALLISTER'S LAWN GREENING

**INDUCES RAPID GROWTH OF A RICH, DARK GREEN SWARD.**  
Put up in 4 lb. packages, retailing at 15 cts. each; \$1.00 per dozen;  
Bulk, per 100 lb. bag, \$5.50; per Ton, \$40.00.

### GRANULATED BONE, PULVERIZED BONE.

**BEST QUALITY.**

Price, \$2.50 per 100; 2 cts. per lb. in Barrel lots.  
Special Price on T n Lots.



### IRON BOUQUET HOLDERS.

Tulip shape, No. 4, 20 cts.; No. 5, 25 cts.; No. 1, 35 cts. each.

Tulip shape, galvanized, No. 4, 20 cts., No. 5, 35 cts.; No. 1, 45 cts. each.

Lily shape, No. 0, 20 cts., No. 6, 30 cts. each.  
Lily shape, galvanized, No. 0, 30 cts.; No. 6, 50 cts. each.

## F. E. McALLISTER CO. Seed and Bulb Merchants, 69 Cortlandt St. N. Y.

## Rose Hill Nurseries.

THE LARGEST AND FINEST STOCK IN AMERICA.

<p><b>ARCA LUTESCENS.</b> doz. HEN. 100.00</p> <p>3 1/2 in. pots, bushy, 12 to 15 in. high..... \$21.00 \$20.00 " " " 15 to 20 in. high..... 4.00 30.00 " " " 20 to 25 in. high..... 6.00 51.00 8-9 " " 2 to 3 1/2 ft. high, \$3 and \$4 each.</p> <p><b>COCOS WEDDELANA.</b> doz. HEN. 100.00</p> <p>2 1/4 in. pots, extra fine, 5 and 6 leaves..... \$7.00 \$18.00 3 in. pots, extra fine, strong..... 2.50 29.00 3 in. pots, extra fine, very strong, selected..... 3.50 25.00 3 1/4 in. pots, extra fine, very strong, selected..... 4.00 20.00</p> <p><b>KENTIA BELMORIANA.</b> EACH DOZ. 100.00</p> <p>5 in. pots, extra strong, bushy, 5 to 6 leaves, 18 to 20 inches high..... \$17.50 \$4.00 6 in. pots, heavy, 2 to 2 1/2 ft. high..... 1.50 13.00 7 in. pots, heavy, 3 to 3 1/2 ft. high..... 2.00 21.00 8 in. pots, 26 to 40 in. decorative size \$1.50 to \$2.00 each.</p> <p><b>KENTIA FORSTERIANA.</b> DOZ. HEN. 100.00</p> <p>3 in. pots, 12 to 15 inches high..... \$2.00 15.00 " " " 15 to 18 "..... 1.50 15.00 " " " 2 to 2 1/2 ft. high, \$1.25 to \$1.50 each " " " 2 to 2 1/2 " " \$2 to \$2.50 "</p> <p><b>PHENIX RECINATA.</b> DOZ. HEN. 100.00</p> <p>6 in. pots, 15 to 18 in. high, \$1.00 each; \$10.00 doz. 4</p>	<p><b>LATANIA HORBONICA.</b> 5 in. pots, 2 ft. specimens..... \$15.00 doz. " " " perfect specimens, 1-2 leaves, 18 inch " " " " " \$22.50 each</p> <p><b>LIVISTONA ROTUNDIFOLIA.</b> 4 in. pots, 10 to 12 in. high, \$1.25 each; \$15.00 doz. 5 " " " 12 to 15 " " " " 1.50 " " 18.00 "</p> <p><b>DRACENAS.</b>—(In variety.) Without doubt or exception we have the grandest lot in the country. Open for inspection. 5 in. pots, \$4.00 per doz. (colored and coloring). 6 " " 6.00 "</p> <p><b>FERNS, FERNS, FERNS.</b> If you are going to buy, it will pay you to get a sample of our grand stock. 2 1/4 in. pots, in 5's, \$4.00 per 100; \$35.00 per 1000.</p> <p><b>Nephrolepis cordata compacta.</b> The largest stock of this grand variety. 3 in. pots, fine stock..... \$15.00 per 100. " " " fine specimens, 17-18 in. high, \$4.00 per doz.; \$35.00 per 1000.</p> <p><b>Pteris Umbrosa Gigantemum.</b> 4 in. pots..... \$50.00 per 100 " " " " " 5.00 per doz. " " " " " 55. each.</p>
---	---

**FOR** All measurements taken from top of pots.  
The above is a brief list of our specialties. Our new wholesale list, giving description of all new novelties, will be ready soon. Do not order until you see it.  
Write, Telegraph or Telephone us and our Carriage will meet you.  
\*Address all communications to the Nurseries.

## SIEBRECHT & SON, NEW ROCHELLE, N. Y.

N. Y. OFFICE: 405 5 Ave. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**BEGONIAS, TUBEROSES AND GLADIOLI.**

I have to offer an Extra Choice lot of Tuberoses Rooted Begonias, Single, large size, in 4 separate colors—white, pink, yellow and scarlet—at the following prices—100 for \$25.00; 500 for \$95.00; 1,000 for \$175.00.

**EXTRA CHOICE PEARL TUBEROSE BULBS**—Large size at \$1.00 per 100; 500 for \$5.00; 1,000 for \$9.00. Second size at 50 cents per 100; 500 for \$2.50; 1,000 for \$3.50.

**GLADIOLI**—Finest mixed colors on the market. Large size, \$1.00 for 100; 500 for \$5.00; 1,000 for \$9.00. Second size, same to flower this summer, 50 cents per 100; 500 for \$2.50; 1,000 for \$3.50. All these bulbs are the best on the market, and guaranteed in perfection. Prices quoted see for bulbs to be sent by express or freight. If larger quantities are wanted, ask for special quotations. Stock limited, but always will be filled promptly as long as it remains unsold. Address: F. B. MILL'S, Seedman, Box 200, Rose Hill, New York.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**BULBS.**

Gladioli, choice mixed	Per 100	75
Madras Vine Kous	100	75
Tuberose, Pearl, 50	100	50
Oxalis, finest mixed	50	50
Catella, medium	100	50
Dahlia, mixed colors	100	60
SWEET PEAS, Eckford's, per lb.	20	20

H. G. FAUST & CO., 61 & 63 N. Front St., Philadelphia, Pa.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**SUMMER FLOWERING BULBS.**

CHAS. H. ALLEN, Floral Park, N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Send us LIST OF YOUR WANTS FOR THE COMING SEASON NOW.**



Do not delay, or Early Orders will always secure the Best

We will make you bottom prices on Frezias, Calla, Ethiopia, Little Gem, Japan LONGIFLORUM Eximium (best for forcing), Romans, Dutch Bulbs, Japan Auratum, Rubrum, Album, etc. Tree Fern Stems, Palm Seeds.

We offer an extra fine strain of Hardy Japanese Gladiol, finest mixture, at \$2.00 per 100.

Send for Price List if the mail has not brought it to you, and do not throw in the WASTE BASKET.

Address all communications to

**H. H. BERGER & CO., San Francisco, Cal.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**A. POINTER AND PROFIT**

Every Florist is Looking for the Above Firm.

**HOW TO FIND THEM:**



Do not hustle all of your Gladiolus Bulbs into the ground early in the season and cut all your bulbs in August. Plant at intervals of two weeks, reserving a good proportion until the last of May and June. Planted late they will come into bloom in the full of early Autumn, producing the finest spikes at a season when flowers are scarce and sell readily. We can still supply a few thousand H. G. Seedlings at

**\$8.00 per 1000; 2d size, \$5.00 per 1000.**

Beautiful light colors. Nothing better.

N. B.—If you are not in a hurry for your order, have them come by freight when ordered in quantities of a thousand or more.

CASH WITH ORDER.

**CUSHMAN GLADIOLUS CO.**

EUCLID, OHIO.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE



WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Cocos Weddelliana Seed.**

FRESH, \$6.00 per 1000.

H. WATERER, 107 South 7th Street, Philadelphia, Pa.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**SEEDS for Profit Sweet Peas**

Wholesale Catalogue on application. **WEBER & D. N.**, 114 Chestnut St., Philadelphia, Pa.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**NOW IS THE TIME TO ORDER**

FRESH STOCK,

JUST ARRIVED.

**AMARYLLIS JOHNSONII,**

EXTRA LARGE BULBS.

Send me your list of such stock you will need the coming season, and I will quote you my bottom prices for first-class quality.

F. W. O. SCHMITZ, JERSEY CITY, N. J.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**SEEDS for Profit Sweet Peas**

Area Intescens	Per 100	1000	5000
Chamseros elegans	100	1.50	25.00
Chamseros cyclas	50	2.50	42.50
Chamseros elegans	50	3.00	50.00
Phacelia coccinea	50	2.50	42.50
Lutaria Borbonica	50	2.50	42.50
Phacelia coccinea	100	10.00	100.00
Phacelia coccinea	100	10.00	100.00
Scrophularia elegans	100	1.50	25.00
Asparagus plumosus anserifolius	100	1.50	25.00
Dracoma Indivisa linearis	50	60.00	60.00

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Seed. FRESH ON HAND**

Area Intescens	Per 100	1000	5000
Chamseros elegans	100	1.50	25.00
Chamseros cyclas	50	2.50	42.50
Chamseros elegans	50	3.00	50.00
Phacelia coccinea	50	2.50	42.50
Lutaria Borbonica	50	2.50	42.50
Phacelia coccinea	100	10.00	100.00
Phacelia coccinea	100	10.00	100.00
Scrophularia elegans	100	1.50	25.00
Asparagus plumosus anserifolius	100	1.50	25.00
Dracoma Indivisa linearis	50	60.00	60.00

J. L. SCHILLER, Rutherford, N. J.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**NEW GIANT FANCY COSMOS**

THE FINEST IN THE WORLD.

Six Splendid New Varieties, \$2 per doz., separately mixed, \$10 per doz. \$15 per doz. New Early, splendid mixed, \$1.50 per doz. Calliopsis (The Queen) grandis, California Sunbeam, grand new mixture, \$1.50 per doz. Cyperus alternifolius, \$1 per doz. Alphonse Auraria (Tree Fern), fresh seed, 50c per 1/2 oz. Capri Ferns, Gregg, \$1.25 per lb.; splendid mixed, \$1 per lb.; good Ventura mixture, \$2.00 per lb. Begonia Rex, new seed, \$1.25 per 100 seeds, \$5 per 1000 seeds. Begonia semper-ferens, hybrid, splendid mixed, 50c per 1/2 oz. Begonia, German, splendid mixed, 50c per pkt. \$2 per 1/2 oz. Ferns, splendid mixed, \$1 per 1/2 oz. Geraniums, Tricolor, 50c per 100 seeds; Ivy geraniums, 50c per 100 seeds; Lady Washington, 50c per 100 seeds; \$5 per 1000 seeds; Zinnia, lg., 5c per 100 seeds; \$2.50 per doz. 5000 seeds, 50c per doz.

Gladioli: Calliardia, James Kelway, \$1 per doz. Ippomonia, \$1 per 100 seeds; \$1 per 100 seeds. Variegated Ippomonia, 50c per 100 seeds; \$1.25 per 100 seeds. Muna Ensete (Trillium), 70c per 100; \$2 per 1000 seeds. Begonia Rex, new seed, \$1.25 per 100 seeds, \$5 per 1000 seeds. Begonia semper-ferens, hybrid, splendid mixed, 50c per 1/2 oz. Begonia, German, splendid mixed, 50c per pkt. \$2 per 1/2 oz.

Send for Trade Lists of Plants, Bulbs, Seeds and Seedlings.

MRS. THEODOSSIA B. SHEPHERD, VENTURA-BY-THE-SEA, CAL.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**YOUR BOOK**

Cannot be filled unless you take advantage of this offer.

- Gladiolus, fine mixed, all colors, \$1 per 100; \$7.50 per 1000.
- Gladiolus, white and light, mixed, \$1.50 per 100; \$12.50 per 1000.
- Begonias, tuberous rooted, separate colors, \$5.00 for 100; \$35.00 for 1000.
- Lily, Auratum, 1st, fine bulbs, \$6 per 100; \$55.00 per 1000.
- Lily Album, 2nd, fine bulbs, \$7.00 per 100; \$65.00 per 1000.
- Tuberoses Pearl, late size bulbs, \$1.00 per 100; \$7.00 per 1000.

**Insecticides.**

Tobacco Dust, Tobacco Stems, Bordeaux Mixture, Gishurst Compound, White Oil Soap, Heliober, etc. Prices on application.

**WM. ELLIOTT & SONS NEW YORK.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**GLUCAS & BODDINGTON CO.,** Importers, Exporters and General Agents of Plants, Seeds and Bulbs, 501 and 503 W. 13th St., Telephone Call, 405 19th St., NEW YORK CITY.

**HEADQUARTERS FOR**

**Callas and Freesia Bulbs**

**PAMPAS PLUMES,** Palm, California Tree and Flower Seeds.

Please let us book your orders for BULBS at once. . . . . ASK FOR SPECIAL PRICES.

**GERMAIN FRUIT CO. Los Angeles, Cal.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Some of Our Import Prices.**

Mimulosa Hyacinths, in 3 separate colors	Per 1000	\$7.00
Bedding Hyacinths, in 3 colors	1000	\$6.00
La Belle, de Hollande, in 10 sorts	1000	\$4.00
All Hyacinths, in 10 sorts	1000	\$3.00

**TULIPS.**

Scarlet Due van Thol	2.60
White	2.50
Chryseum	2.50
Kelsoekroon	2.50
La Belle	2.75
Prosperity	12.50
Yellow	1.50
Yellow Prince	1.50
Thelma	1.50
Tourelou	1.50
Narcissus	1.50
Narcissus von Slon	1.50
Bijou Compasch	25.00

**HULBOSCH BROTHERS, ENGLEWOOD, N. J.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**SEED TRADE REPORT.**

Points and information from seedsmen, and all interested in the seed trade. A detailed account of the situation in the seed trade, once of FLORISTS' EXCHANGE, P. O. Box 1097, New York.

To Regulate the Importation and Sale of Agricultural Seeds.—H. R. 2232, a bill to regulate the importation and sale of agricultural seeds, the best of which is the bill introduced by H. R. 1039, known as the Cook Bill (for text see page 87 issue of EXCHANGE for January 30 last), was introduced into the House by Mr. Davidson April 10, and has been referred to the Committee on Agriculture, and ordered to be printed.

The iniquitous and absurd nature of the Cook Bill—now the Davidson Bill—in its present form was very clearly pointed out in an article printed on page 88, January 27, and page 172, February 20, issues of the EXCHANGE, to which we respectfully refer all interested.

Seedsmen should use their every effort to either have the bill recalled altogether, or its most objectionable features, and they are numerous, retained and removed, or to carry out its provisions as they now stand will, as was previously pointed out, cost the seedsmen many thousands of dollars, which must eventually come out of the purchaser's pocket, without any benefit whatever to be derived therefrom.

Naples, Italy.—C. Sprenger has withdrawn from the firm of Dannmann & Co., Inc., and has become a partner in a partnership and technical manager, and has established himself as a "landscape gardener, gardenist, and florist." San Giovanni a Teduccio, near this city.

**European Notes.**

Holland Bulb Crops.

At the middle of April our stems naturally turn up for many persons a glimpse of the bracinthe and tulips, and to form some idea of the prospects of the coming season. The weather is very promising and is prospering. The weather has been cool throughout, the development has been continuous and solid, and the arrangements of the present Spring are not likely to be repeated next year. Seldom have the parks and gardens here presented such an unsatisfactory appearance. Hyacinth spikes are, in many cases, weak and slender; tulips have bloomed most irregularly, and in some cases, not at all. The prolonged drought of 1896 is responsible for all the enormous numbers now annually produced enable even the least important growers to send out only first-size bulbs.

Unless some extraordinary demand sets in, the probabilities are that prices will be altogether in favor of buyers. This is more especially the case in regard to tulips.

The French Bulb Crop.

French bulbs are making equally satisfactory progress. Roman hyacinths are little more than buds, but both cheap and good. The early varieties of narcissus may be a shade higher, as the acreage in culture is much less than for the past three years. In England the narcissus craze has, thanks to a strong infestation of the insect element, taken a new lease of its life. The number of new forms lately exhibited has made the list of these lovely flowers almost lengthy and bewildering as the list of sweet peas. Having apparently reached the limit of size in N. Ellen White, the efforts of hybridizers are directed to the development of a pure scarlet-colored cup, on the one hand, and a pure white trumpet variety on the other. Beacon and Red Prince (English) fairly fill the bill for the present, as the same raiser has, with Snowdrop, brought us within measurable distance of the other.

As regards seeds, there is very little that has to report. The week closed with a degree of frost, and the young plants and shoots have suffered very much. Western France still suffers from heavy rains, but it is much dryer in England.

EUROPEAN SEEDS.

**Eshbilions.**

North Indiana Horticultural Society.—The second annual flower show of this Society will be held at Fort Wayne, November 3 to 5 inclusive. The preliminary program has been issued, and copies of same may be had of Secretary John A. Hauns, 402 Broadway, Fort Wayne, Ind.

**THE EXPERIMENT STATIONS.**

A CHILDREN'S GARDEN.—The Cornell (N. Y.) Agricultural Experiment Station is issuing a series of Teacher's Leaflets, for use in the rural schools. No. 4, by Professor Bailey, bears the above title; it is written in simple and interesting language, and gives instructions on how to make beds, how to water plants, when and how to sow, selection of varieties; the subjects the children are asked to grow being asters and sweet peas, and a list of the best varieties of the latter is provided. The professor says: "We should like some rivalry in the matter in every school, and we therefore propose that a kind of fair be held at the schoolhouse next September, so that each child may show the flowers grown by it." Children, and grown up people, cannot fail to be benefited by such a highly commendable course.

**Savannah, Ga.**

Easter trade in Savannah is not what it is with our more fortunate florists in the East and West—a day to which they look forward for months in the expectation of swelling their bank accounts. The florists in Savannah are satisfied if they sell out his Easter plants, such as lilies and sprays, at a figure whereat the northern retailer would laugh. Extra selected Louisiana roses brought \$1.50; regular stock, \$1 per dozen; lilies in pots sold at 20c a bud, and these were the only plants of which the florists did run short. Owing to the lateness of Easter, flowers in the open air were plentiful.

**WE ARE HEADQUARTERS ON**  
**BULBS FOR FORING,**  
**FLOWER SEEDS FOR FLORISTS,**  
**ENGLISH MUSHROOM SPAWN**  
 and all other articles of horticulture.  
**JOHN GARDINER & CO., Seedsmen,**  
 Box 1306, Philadelphia, Pa.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Prize-Winning**

**DAHLIAS**  
**AN UNPRECEDENTED RECORD.**  
 23 First Prizes, Certificate of Merit, 2 Diplomas, and highest mention everywhere.  
 If you want the Very Best Dahlias that bloom, send for our 100 descriptive trade list now ready. Address

**W. P. PEACOCK,**  
 Dahlia Specialist, ATCO, N. J.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**100,000 DRETT**  
 PRICES ON APPLICATION.  
**Ampelopsis Veitchii** See App. 3.  
 2 ft., 5 cts.; 3 ft., 7 1/2 cts.

**CANNAS.**  
 Queen Charlotte, Alfonso Bouvier, Mme. Crozy, Clais, Henderson, out of 4 inch pots, \$5.00 per 100.  
 "Austria" and "Italia," out of 4 in. pots, at \$5.00 per dozen.

**HOLLAND ROSES**  
 Field-grown, 6 cts. each, or \$5.00 per 100.  
**EMPRESS OF CHINA ROSES,**  
 2 ft. ht., 10 cts. each.  
**LATANIA BORONICA,**  
 3 in. pots, \$3.75 per 100.

If there is anything which you like prices see our adv. in April 3 issue.

**THE ELIZABETH NURSERY CO.,**  
 ELIZABETH, N. J.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CANNAS**—Paul Marquant, red; L. E. Bally, red; Mrs. G. J. Dyer, \$1.50 per 100. These are well rooted, from 6 to 10 in. high, and ready for 4 in. pots. Cash with order.  
 A. J. BALDWIN, Newark, O.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Columbia Cannas**  
**BEST RED. DRY ROOTS.**  
 \$1.50 per Dozen. Cash.  
**EDWIN A. SEIDEWITZ,**  
 36 W. LEXINGTON ST., BALTIMORE, MD.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**AUSTRIA CANNA**—Strong 4 inch plants, \$2.00 per doz.; \$16.00 per 100. Fine field-grown dormant roots, \$1.00 per doz.; \$6.00 per 100. (Semi-double white), 4 in., \$2.00 per doz.; \$16.00 per 100. (Canna **ALSACE**) dormant roots, \$1.50 per doz.; \$10.00 per 100. (Canna **ITALIA**, Philadelphia, Maiden's Blush, Pillar of Fire, Golden Pearl, Triumph and Sunset; the six for \$25.00. New Double Knudbeckin, Golden Glow, 2 1/2 in., \$5.00 per 100. New Logan Brier, good plants from 2 1/2 in. pots, \$1.00 per doz.; \$6.00 per 100. Strawberry-Kapheury, \$3.50 per 100. Golden Mayberry, Chinese Lantern Plant, etc. Send for Price List.  
**ALFRED F. CONARD,** West Grove, Pa.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**LILIUM LONGIFLORUM.**  
**---JAPAN CROWN---**  
 CONTRACTS for small and large quantities closed soon. Crop is going to be short. Prices to meet competition. Don't overlook this, but write at once to  
**F. W. O. SCHMITZ,**  
 Importer and Exporter of ONLY superior quality of Florists' supplies.  
**JERSEY CITY, N. J.**  
 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$

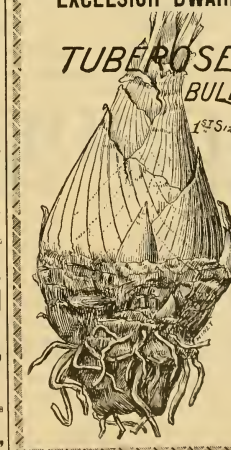
**NEW CANNA ITALIA, \$4.50 per Dozen.**  
**NEW CANNA AUSTRIA, \$2.00 per Dozen.**  
 Or the two in equal quantities at \$35 per 100.

American Flag, Mrs. Fairman Rogers, Chicago, Columbia, Queen Charlotte, Golden Queen, Primo, Salmon Queen, Scarlet Gem and Rosalind at \$2.00 per doz.; \$12.00 per 100. All good plants from 4 in. pots, now ready.

Also Alphonse Bouvier, Charles Henderson, Egrandise, Florence Vaughan, J. D. Cabos, Madame Crozy, Paul Marquant, Wm. Elliott, at \$1.00 per doz.; \$7.00 per 100, for strong, 4 inch stock.

**JOHN N. MAY, Summit, New Jersey.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**EXCELSIOR DWARF PEARL TUBEROSES.**  
 Very handsome, in perfect condition, and strictly true to name.  
 First size (as shown in cut), 4 1/2 to 6 inches, 50c. per 100; \$3.50 per 1000.  
 Monster Bulbs, 6 to 8 inches, 75c. per 100; \$6.00 per 1000.  
 Second size, 3 to 4 1/2 inches, \$2.00 per 1000.  
**GLADIOLUS.**  
 Monmouth Mixture, finest strain of Mixed Gladiolus, for florists' use, upon the market, 1st size, 100, 75c; 1000, \$6.00.  
**CALADIUM ESCULENTUM**  
 First size, 9 to 11 inches, 10c, \$5.00.  
 Second size, 7 to 9 in., 10c, \$3.50.  
 Third size, 5 to 7 in., 10c, \$2.50.  
**THE LOVETT COMPANY,**  
 Little Silver, N. J.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE



**LOOK HERE**

The following plants are in AI condition.  
**ROSES**, out of 2 in. pots. Bridemaid and Bride, \$2.50 per 100; \$20.00 per 1000; Meteor and Perle, \$1.50 per 100; \$15.00 per 1000.  
 Marie Kerns, out of 2 1/2 in. pots, \$3.00 per 100.  
 Marie Louise Violette, rooted runners, 50c. per 100; \$5.00 per 1000. Terms Cash or C. O. D.  
**C. MERKEL & SON, Mentor, Ohio.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**50,000 ROSES.** Carefully grown Forcing Stock

**ROSES**—2 1/2 inch; Meteor, W. La France, La France, The Bride, Scout, \$1.50 per 100; \$15.00 per 1000. Kaiserin Victoria, Perle des Jardins, \$1.00 per 100; \$10.00 per 1000.  
**CARNATIONS**—Lizzie McGowan, strong plants, extra fine rooted out of 2 1/2 in. pots, \$1.00 per 100.  
**W. SAUNDSON'S SPLENDENS**—Only true pink.  
 100 per 1000.  
**DEACENA INDIVISA**—Per 100 \$10.00  
 1000 strong, \$100.00  
 2 1/2 inch, strong, 8.00 \$75.00  
 2 1/2 inch, strong, 8.00 \$75.00  
**VIOLETS**—The California, etc., strong, \$5.00 per 100.  
**ROVED REMERE**—\$1.50 per 100; \$15.00 per 1000.  
**Shoeburgh**, strong plants, \$4.00 per 100.  
**ALICE**—Chamusee extra fine, \$4.00 per 100.  
 Washington Hillera 1.00 per 100  
**MUNES**—Nurses, Mrs. Robinson, Pres. W. Smith, Living-More, \$1.25 per 100; \$12.50 per 1000.  
**VINGA VARE**—In pots, extra fine, \$1.00 per 100.  
 Cash, or first-class bank references must accompany all orders.  
**J. B. HEISS, 116 So. Main St., Dayton, O.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**REINBERG BROS.**

Strong, healthy **ROSES** From 2 1/2 inch pots.  
**GOLDEN EYE, PERLE, BELLE SIEBERT, METEOR, BRIDE, BRIDEAIDM, KAISERIN and LA FRANCE**, \$4.50 per 100; \$35.00 per 1000. No orders for less than 100 of one variety accepted.  
 We are the largest rose growers in the United States, and can fill all orders with the very best stock. **TESTOUT**, \$3.00 per 100; \$30.00 per 1000. **Rose Cuttings**, \$1.50 per 100.

**CARNATIONS**—Rooted Cuttings.

**IVORY**, \$3.00 per 100; \$35.00 per 1000. **ROSE QUEEN**, \$2.50 per 100; \$20.00 per 1000.  
**WM. SCOTT, RANCY HARKS, TIDAL WAVE, LIZZIE GILBERT, GORSAIR, LIZZIE MCGOWAN, STORM KING and SILVER SPRAY**, \$1.00 per 100; \$8.00 per 1000.  
 No orders for less than 100 of any variety accepted.  
 We are the largest rose growers in the United States, and can fill all orders with the very best stock. **TESTOUT**, \$3.00 per 100; \$30.00 per 1000. **Rose Cuttings**, \$1.50 per 100.

**51 WABASH AVE., CHICAGO, ILLS.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**LAST OFFER!**

**LAST CHANCE TO BUY IMPORTED HARDY, FRAGRANT, DORMANT ROSES.**  
 In following and other good sorts, my choice.  
 Anna de Diebach, John Hopper, Prince Camille Roban  
 Rozons K. Abschuld, Frau Gabriel Luitz, Paul Noyron,  
 Fisher Holmes, Magna Charta, Ulrich Brunner.  
 Gioire de Margottin, Mrs. John Leung.  
 All grown by the well-known **Booskoop Holland Nursery Association**. Send estimates of your wants.  
 A few Tree Roses, Japan, Newburgh and Hardy Rhododendrons.  
**STOCK FAST SELLING OFF. FIRST COME, FIRST SERVED.**  
**C. H. JOOSTEN, Importer, 193 Greenwich St., New York.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**THE NEW PRESIDENTIAL ROSE**

FROM 2 1-2 INCH POTS. \$15.00 PER 100; \$125.00 PER 1000.  
**HEALTHY YOUNG STOCK, READY NOW FOR DELIVERY.**

- Mosella, "Yellow Souper", 2 1/2 inch pots.....\$5.00 per 100; \$40.00 per 1000
- Pink Souper, 2 1/2 inch pots..... 5.00 per 100; 40.00 per 1000
- Climbing Wootton, a very vigorous climber, identical with Wootton in bloom, perfectly hardy in this latitude.....\$10.00 per 100; \$70.00 per 1000
- Carmine Pillar, 3 1/2 inch pots, a fine climber, hardy.....\$10.00 per 100
- Cocos Weddelliana, 3 inch pots, beautiful plants..... \$2.00 per 100

**ROBERT CRAIG, - - - 49th and Market Streets, Philadelphia, Pa.**

**AMERICAN BEAUTIES.**

I have a few thousand more than I need for my own use.  
**Cherry Stock**, 2 1/2 inch pots, \$7.00 per 100, cash with order, packed and delivered to R. R.  
**JOSEPH BRADBURY,**  
 SOUTH ORANGE, N. J.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**TEN DEGREES BELOW ZERO**

is the temperature that has been undergone with this variety by masses of forcing plants of the new climbing rose.

**AGLAIA or YELLOW RAMBLER**

in our nurseries the past Winter, this proving it to be even harder than we had supposed.  
 A **Harvey Yellow Climbing Rose** is what everyone has wanted for years and Aglaila is, therefore, an immensely important introduction.  
**150 Blossoms in a Bunch**—This rose is introduced by the Yellow Rambler, for it has the same manner of blooming in its solidly thick clusters as does the Crimson Rambler to which it is a splendid companion. The color is a rich yellow, the flowers of moderate size, very fragrant and last three to four weeks. The habit of growth is very vigorous, well established plants making shoots eight to ten feet high in a season.

We are the introducers of this rose in this country, having been so supplied by Mr. Peter Lambert, the originator. We are also prepared to order plants of two other valuable climbing roses:

**EUPHROSYNE or PINK RAMBLER**  
 Color a clear light red; otherwise very similar to Aglaila.

**THALIA or WHITE RAMBLER**  
 Pure white; some size and habit as Aglaila.

**WE WANT EVERY FLORIST**  
 To order these roses from us. One-tenth and to everyone who will do so, according to demand upon us for his supply of plants.

**WE WILL SEND FREE OF CHARGE**  
 a beautiful color-plate plate illustrating the Aglaila, together with 100 handsome descriptive circulars with name and address stamped upon them. Send one.

Price for strong plants in 2 1/2 inch pots, \$15.00 per 100. Send for our Trade Lists of other Roses and General Stock.

**JACKSON & PERKINS CO., Newark, New York**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**SUMMER FLOWERING BULBS.**

**GLADIOLUS BRENCHLEYENSIS**, bright scarlet. Price per 1000, \$6.00. By the case of 4000, per 1000, \$5.00.  
**CYCAS REVOLUTA**, fine stems, only a few left. 6-12, 12-24, 24-36 inches.  
 Also **Gloxinias, Begonias, Dahlias**, etc., and other Bulbs and Roots for Summer Planting.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**ROSES.**

*Mildew.*

In my previous notes I mentioned how troublesome mildew became at this time of the year, when we get so many sudden changes in the weather. To keep things in a healthy and lustrous form that will ward off this disease, one must almost continually be in the house watching ventilation. Again, the temperature will run so high outdoors now and then at night that we feel like letting our fires out. I mentioned before that it was best to leave quite a little air on with one pipe around, as this gives a good circulation and dispenses with condensation on the foliage. If the latter occurs two or three times in succession it is almost certain to cause great damage by the yellow foliage drooping and the tender shoots at the tips turning black. The best growing conditions most favorable for mildew and other kindred diseases.

I have heard not of a few boast of their economy in saving fuel; they haven't had a fire for so long a time, etc. That's all right at the proper time. I am positive others will join me in saying that roses cannot be properly grown in this way. For myself, I don't care if it's the 4th of July, if the temperature drops below 55 degrees night I have the fire started. I don't wish to give the impression that drug should be done every day in the year, but fire should be always laid and ready to be started at any minute in the day or night, as occasion requires.

A chilly, moist atmosphere has been noticed. I return to mildew. I have already stated the best method I have found to prevent it—the use of sulphur as soon as the least indication of the trouble appears. Quite a number of bad cases of mildew are recently come under my notice, in very ystinate cases, such as occur with Hoop and Bride, that sometimes arise from high and cold, and a stagnant atmosphere, causing the foliage to curl up and rendering flowers unsalable. I would advise, if the flowers are needed from these plants up to the middle of June or so, to spray on bright days with the ammoniacal solution of copper. There is, in my mind, no question but this is the last resort, and a good one. After being cured the plants should be carefully looked after.

Here is the formula for those who would like to experiment: one pound sulphate of copper in three quarts of strong ammonia; use one pint to a barrel of water, or where a smaller quantity is needed at a time, it should be borne in mind the mixture soon loses its strength if not kept airtight, and spray very freely. After two or three applications it will show the average result. I find it best to keep the solution in a glass bottle with stopper, as it will soon eat through any earthenware vessels and turn black.

R. H.

# E. G. HILL & CO., RICHMOND, IND.

**YOUNG CYCLAMENS** from the finest English prize strain  
In color to name, from 2 inch pots, \$4.00 per 100.

Strong young plants of **HYDRANGEA** Otaka and Ramis Picta.  
\$3.00 and \$4.00 per 100, according to size.

**THE NEW DAISY** Madam Graellert. Every florist should  
have a stock of this fine plant. \$4.00 per 100.

**THE FRENCH DAISY** Madam Farfeillon. Try a dozen of  
this; only 50 cts. per doz.

**CHRYSANTHEMUMS** by the 100 or 1000. Just the kinds  
every florist desires for cut flower purposes. Bergmann, Fitz-  
gram, Marion Henderson, Modesto, Mrs. Perrin, Mrs. Murdoch,  
and every other good one in quantity. Price as low as any for  
good stock.

**IVY GERANIUMS.** Unquestionably the finest and best collection  
in the country. You should see them. 100 of these in 10 new  
varieties for \$6.00.

# E. G. HILL & CO., Richmond, Ind.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## GRANDIFLORUMS.

Finest grandiflorum splendens in as-  
sorted colors, 2 1/2 inch pots, strain extra  
strong and healthy.

\$6.00 per 100; \$50.00 per 1000.

## LENNIG & WINFIELD.

HACKENSACK, N. J.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## AUCTION SALE.

Being about to relinquish the growing of  
plants, I shall sell at public auction, without  
reserve, about the first week in May, of the  
date due notice will be given later, (unless dis-  
posed of at private sale) all my plants, which  
consist of the following varieties: About 6000  
choice boxes, one two and three years old, in  
splendid condition, all well up and ready for  
market and all from cold frames all winter,  
about 60 named kinds of the choicest varieties;  
3000 or more of the finest and best varieties of  
Camellia Japonica, about 75 named varieties  
and each plant named true, in 4, 5, 6 and 7  
inch pots, together with some hundreds of large  
plants in large pots; 200 or more Orchids of  
different kinds, some large plants of Den-  
drobium Nobile, Phajus, &c., &c., also  
about 500 Cypripedium, Isotria and others,  
grown in large flats, having had from 25 to 30  
flowers each many of them; in fact I refused  
\$50 for eleven of them last fall, the bloomers  
having paid a much larger interest than that  
value. There are 300 or more pairs of decorative  
purposes, consisting of Kentias, some large  
specimens Arca latissima, Vercchiaiifolia,  
Latana Borbonica, Hibiscus Flabelloformis, some  
over 6 feet high and more stems grand  
plants, Cocco Plumosa, 7 to 8 feet high,  
Fuchsia, Phoenix Rupicola, Holcimia and  
others, Indians Vitchell, &c., &c., 200 or more  
Ficus elastica, 18 in. to 3 feet, a large lot of  
Ferns of sorts and about 400 Ficus in 4, 5  
and 5 in. pots, 100 or more Aspidistra, large  
and small, 12 and more leaves and  
some variegated; a large lot of Azaleas suitable  
for large decorations, 2000 or more Geraniums  
in 4 in. pots of choice bedding kinds, 2000 Ger-  
aniums in 2 in. to 1000 can in pots, many  
coming in buds and in bloom, and a number  
of these seedlings as fine as the best, some pure  
yellow white and red and many others. Many  
Louisiana Violets, in 3 in. pots, ready for planting  
out and some in flats. Calladium bicoloratum  
in pots with leaves; 200 or more Agapanthus  
Plumosa Nana; 1000 Hothot Sash, 6 feet to-  
gether with thousands of miscellaneous plants  
too numerous to mention. All good salable  
plants.

JAMES PENTLAND, Florist, BALTIMORE, MD  
1510 Greenmount Ave.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## THE COTTAGE GARDENS, Queens, L. I. SPECIALISTS IN

**Carnations, Cannas, Chrysanthemums,  
Geraniums and Dahlias.** SEND FOR OUR  
PRICED LIST.

## VERBENAS THE CHOICEST VARIETIES and HEALTHIEST PLANTS GROWN.

**STRONG BUSHY PLANTS**, in bud and bloom, \$2.50 per 100; \$20.00 per 1000.  
**STRONG ROOTED CUTTINGS**, 75 cts. per 100; \$6.00 per 1000; \$50 per 10,000.

..... J. L. DILLON, Bloomsburg, Pa. ....

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## SPRING BEDDING STOCK!

**GERANIUMS**, all colors, best varieties, 4 in. pots.

Colcus, Vinca Vines, Alternanthera, Feverfew, Rose Geraniums,  
German Ivy, Mme. Salleron Geraniums, Double Alyssum,  
Myrtle, for graves, etc. Send for large and complete list.

## YOUNG ROSE STOCK.

Bride, Bridesmaid, Perle, Meteor, Belle Siebrecht,  
Wootton, \$3.00 per 100. President Carnot, \$15.00 per 100.

## CARNATION CUTTINGS.

Garfield, Lizzie Gilbert, Tidal Wave, Goldfinch, Rose  
Queen, Wm. Scott, Alaska, Daybreak, Lizzie McGowan,  
Silver Spray, \$2.00 per 100.

## We are HEADQUARTERS for CUT FLOWERS.

Our Supply is Unsurpassed. Shipping Trade our Specialty. We know how to Pack.

## ELLIS & POLLWORTH, MILWAUKEE, WIS.

Wholesale Exclusively. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**50,000 SMILAX**, by mail, 50c.  
per 100, from 2 in. pots, \$1.00 per 100, \$15.00 per 1000.  
Strong and in bloom, from 4 in. pots,  
\$1.00 per 100. Send for samples. Cash with the  
order.  
FRED. BERNER, Cape May City, N. J.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## Geraniums, Begonias, Carnations and Chrysanthemums.

**Geraniums.** We have 50,000 surplus, all  
double flowering and best sorts, 2 1/2 in. pots and  
in splendid display. \$2.50 per 100; \$20.00 per  
1000.  
**Begonias.** Large surplus of following  
named: Dewdrop, McIneli, Sanderson, White  
Victorianna, Robusta, Zebra, Sanguinea,  
Hydris Multiflora, \$3.00 per 100; \$30.00 per  
1000. Begonia Rex, Speciosa, Quadricolor,  
Glenholme, Little Hill and Madam's  
Blush, \$3.00 per 100. Our Begonias are all nice plants  
in 4 in. pots.  
**Carnations.** E. A. Wood, Blanche, Fred  
Dorner, American Flag, Daybreak, Golden  
Gate, Hilda's White, J. J. Harrison, Lizzie Mc-  
Gowan, New Jersey, Orient, Florida, Tidal  
Wave, W. Scott, Jr. Smart, Corair and  
Sweetbrier, fine strongly rooted plants in 2 1/2  
in. pots, \$2.50 per 100; \$20.00 per 1000.  
**Chrysanthemums** in large variety,  
\$2.50 per 100; \$20.00 per 1000.

THE GEO. H. MELLEQ 50, Springfield, O.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# GOD STOCK

<b>Achyrantes</b> , 3 leading varieties, 2 1/2 inch pots.....	Per 100	\$1.00	<b>Colcus</b> , 10 leading bedding varieties, 2 1/2 inch pots.....	Per 100	\$2.00
<b>Alternanthera</b> (flat), 10 leading varieties, 2 1/2 inch pots.....	2.50		10 leading varieties, rooted cuttings, \$75 per 1000; \$5.00 per 1000 lots of 5000 and over.....	1.00	
<b>Althea</b> (flat), 10 leading varieties, 2 1/2 inch pots.....	2.00		<b>Echeveria</b> Secunda (flat), from flats.....	5.00	
<b>Alyssum</b> , Tom Thumb and Giant, double 2 1/2 inch pots.....	2.00		<b>Ferriquin</b> Grande, 3 inch pots.....	2.00	
<b>Begonias</b> , good assortment.....	4.00		<b>Forget-Me-Not</b> , from cold frames.....	2.00	
<b>Verbena</b> .....	3.50		<b>Bractea</b> India, 4 inch pots.....	per doz.	\$4.00
<b>Canna</b> , Alphonse Bonnier 3 inch pots.....	4.00		5 inch pots.....	7.00	
<b>Charles Henderson</b> , 3 inch pots.....	3.50		<b>Geraniums</b> , very fine, 2 1/2 inch pots.....	2.50	
<b>Explorator</b> Crampel, 3 inch pots.....	4.50		<b>Grevillea robusta</b> , 4 inch pots.....	15.00	
<b>Miss Sarah Hill</b> , 3 inch pots.....	5.00		<b>Heliotrope</b> , 2 1/2 inch pots.....	2.00	
<b>Queen Charlotte</b> , 3 inch pots.....	10.00		4 inch pots.....	2.00	
<b>Professor</b> , 3 inch pots.....	20.00		<b>Geranium Ivy</b> , 2 1/2 inch pots.....	2.00	
<b>Chrysanthemums</b> , very fine assortment, 2 1/2 inch pots.....	4.00		<b>Moon Vines</b> , 2 1/2 inch pots.....	4.00	
<b>Profusa</b> Halieri Aurea, the grand new yellow.....	4.00		Salvia Rosinca, 16 inch pots, \$1.00 to \$2.00 each; 6 to 8 inch pots, 30 cts. to 75 cts. each.....	2.50	
<b>Daisies</b> , Hardy English, from cold frames.....	2.00		<b>Violas</b> , trailing, 2 1/2 inch pots.....	2.50	

TRADE LIST FREE ON APPLICATION.

Cash with order from unknown customers of C. O. D. Orders amounting to \$5.00 and over, F. O. B. N. Y. City.

# SEAWANHAKA GREENHOUSES

JAS. C. CLARK, Supt. P. O. BOX 34. W. M. L. SWAN, Prop. OYSTER BAY, QUEENS CO., N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

VIOLETS AND SPECIALTY!

On and after March 1st I will be ready to supply, in any quantity, stock of the following varieties:

PRINCESS DE GALLES. The Queen of single Violets. The largest and most fragrant; strong grower and productive..... 100, 75, \$100, \$45.

CALIFORNIA..... 75 " 5.00

All from good plants, rooted runners.

Five French Medals; two American Medals; three Diplomas. First Premium, Grand Central Palace, New York, under the auspices of New York Florists' Club.

Send in your orders now. Cash with order or satisfactory reference.

FERD. BOULON, Sea Cliff L. I., N. Y.

SUPIOT, THE BLUE KEG

Offers the following varieties of Violets for March delivery. All plants are in perfect health, having been grown cold.

Princess of Wales (Princesse de Galles), introduced by me from France four years ago. \$1.00 per doz.; \$7.00 per 100.

Princess Beatrice, new. \$1.00 per doz.; \$7.00 per 100.

Admiral Avelon, new. \$1.00 per doz.; \$7.00 per 100.

Little Blue, 75c. per doz.; \$5.00 per 100.

Petite Blue, 75c. per doz.; \$5.00 per 100. Also a large stock of older varieties, such as L'Chouchou, etc.

FRANCIS SUPIOT, 57th St. and Lancaster Ave., PHILADELPHIA, Pa.

VIOLETS. Clumps or Runners.

All Stock, Clean, and no disease. M. Louise runners, \$4.00 per 1000.

California runners, \$5.00 per 1000. Cash with order only. S. BAYTON, Kalamazoo, Mich.

VIOLLET RUNNERS.

Marie Louise well rooted..... per 1000 \$4.00

Lady H. Campbell, well rooted..... " 4.00

Campanella, California, Farquhar..... " 10.00

ANCHORAGE ROSE CO., ANCHORAGE, KY.

MARIE LOUISE VIOLET CLUMPS

From ten to twenty well-rooted runners on each clump, perfectly clean and healthy, at \$4.00 per 100 clumps; \$35.00 per 1000. Cash with order.

VIOLETS.

Marie Louise, \$5.00 per 100, \$45.00 per 1000 rooted runners, \$4.00 per 100; also some Campanella, California, Farquhar and Pink Violets. Prices on application.

This stock is healthy, have been rising from it since September '97, and are still picking out the same plants.

MICHAEL BUSELLE, Westport, Conn. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Marie Louise Violet Clumps

Free from disease, \$3.00 per 100. Will exchange for Bridesmaid Roses.

E. T. WATERSTONE, Greenwood Lake, N. Y. Orange, N. J.

VIOLETS.

A few thousand rooted runners; Marie Louise Violets, 60c. per 100; \$4.00 per 1000; clean healthy stock. Cash with order.

J. D. HARCOURT'S SON, Wappinger's Falls, N. Y.

VIOLLET CLUMPS AND ROOTED RUNNERS.

A No. 1 stock, clean and healthy. No disease. Lady H. Campbell, clumps per 100, \$3.00, \$30.00 per 1000. Marie Louise, clumps per 100, \$3.00. Well rooted runners, \$4.00 per 100, \$40.00 per 1000. Cash with order or satisfactory reference.

JOHN P. WALKER, Waldport, Va. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

BETSCHER BROS. OFFER

- 1000 1000
Geranium cuttings, the assortment, 40 100 \$15.00
Cult. Arabum cuttings..... 2 100 2.00
Begonia, Argentea Guttae, etc., R.C., 2 100 2.00
Geraniums, Helleborus, Petaluma..... 3 100 3.00
Fire Daybreak Carnation, R. C. no 15 00
Faded from soil, and 100 15 00
Cladonia, 100 15 00
Standard W. and L. 10 00
Extra fine mixed none better 10 00
Lemon's mixed 10 00

BETSCHER BROS., CANAL DOVER, O. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

DON'T GET LEFT

- But Get Your Orders In for Rooted Cuttings.
Coleus Yerschaffelti and Golden Queen..... per 1000 \$4.00
Coleus in variety..... 4 00
Ageratum, Dwarf, Blue and White..... 5 00
Geraniums, flowering sorts..... 12 00
Hellebore, 3 varieties..... 8 00
Salvia Serrata..... 10 00

POTTED PLANTS

- per 1000
Fuchsias, in the shape, 3 inch pots..... \$3.00
Begonia Verano, Grand Bedder..... 4 00
Geraniums, flowering sorts, 3 1/2 inch pots, \$3.00 per 1000
Geranium, Gen. Grant, 3 inch pots, \$3.00 per 1000
Vines Variegated, 2 inch pots..... \$3.00 per 1000

Cash with Order..... \$3.00 per 1000
J. E. FELTHOUSEN, Schenectady, N. Y.

2c. Geraniums 2c.

5000 in large plants, ready for 4 in. pots
Le Favorite Grand Chancellor
Peach Blossom Heterostigma
S. A. Nette Blue, Peach.

3c. ABUTILONS 3c.

SNOW DE BOON Golden Fleecy
SWORD FERN—Clean and healthy, 1 inch pots, 25c.
VINCA VARIEGATA—Nice, a fine stuff, established, 2c.
PANSIES—Strong transplanted, grown from selected seed, 75c. per 100; \$6.00 per 1000
FEVERFEW—In 100's, 82c. per 1000
CARNATIONS—Lizzie McGowan and Mrs. Harrison, strong, well established plants, 2 in. pots, \$1.00 per doz. Cash with order.

JOHN A. DOYLE, Springfield, Ohio. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

LOVE-EN-TANGLE HARDY IVY.

English Ivy, 6 inch pot, 4 1/2 in. diam. per doz. \$3.
Love-en-tangle, average 1 1/2 in. diam. per 100, \$10.
Hardy Vinca, Periwinkle, strong, per 100, \$10.
Dwarf Vinca Carnation, strong field clump, \$10.
Lancaster Beauty Verena, 3 inch, a few, per 100, \$10.
Pansies, Zingibeli hybrid, per 100, \$10.
Geraniums, in assortment, \$7.00.

CASH WITH THE ORDER, PLEASE. ARTHUR MALLON, Jr., West Coltswood, N. J. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

FINER VERBENAS IN BUD PLANTS VERBENAS IN BUD PLANTS VERBENAS IN BUD PLANTS

Many Fine Varieties added to Our Collections. Best 1/2 inch, \$1.00 per 100; \$10.00 per 1000.
STROMB CUTTINGS CARNATIONS FROM 50c.
Ivy, Della Fox..... per 100 1000
Elevated, Frau Hole..... 2 00 20 00
Lizzie McGowan..... 2 00 20 00

ROSES.

American Beauty, 3 inch pots..... per 100, \$10.00
Bismillah, Bride, White, Waterville, Lorraine, etc..... 2 00 20 00
Victor, per 2 1/2 inch pots, \$5.00 per 100; \$40.00 per 1000.

CHRYSANTHEMUMS.

For Retailing and Prices, see April 24th paper.

STRONG ROOTED CUTTINGS.

Coleus, Yerschaffelti, Golden Bedder 100 1000
All the all the best varieties 10 1000
Moon Flower, true..... 7 00 70 00

MISCELLANEOUS PLANTS.

Ready for immediate sale. 100
Ageratum blue and white..... \$3.00
Ageratum, white..... 2 00
Cassavanna, from 4 in. pots, the stock..... 12 00
Lemon's mixed, 2 1/2 inch pots, \$3.00 per 1000
Geraniums, double and single, 4 in. pots..... 4 00
Ivy, variety, 2 1/2 "..... 2 00
Hellebore, from 3 in. pots..... 3 00
Hydrangea, Oakleaf, 5 in. bushy..... 25 00
Pansies in bud, \$3.00 per 100; \$30.00 per 1000

New Trade List on Application. WOOD BROS., Fishkill, N. Y. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## QUESTION BOX.

OPEN TO ALL . . . FREE TO ALL

Answers Solicited from Those Who Know.

(98) **Thrip on Outdoor Roses.**—Springs copiously with either clear water or soap-suds, applying all the force possible.

(99) **Early Dwarf Cosmos.**—I note in your paper advertisement of New Dwarf Early Flowering cosmos. I would like to have a copy of your catalogue as to how dwarf and early blooming their cosmos may be. In April, I have 16 plants running 9 to 15 inches in height. Ordinarily, the bloom begins in September. I have no seeds to sell, and only a limited number of plants, which are not for sale either. All of above were grown from seed out in open grounds. A. W. SMITH, Georgia.

(100) **Style of Greenhouse, Glazing Material, etc.**—M. T. G.—A three-quarter span-roofed house has the advantage of a seven span structure as it will suit almost any kind of plant, while the even span house is not suitable for all kinds of stock, as, for example, roses. Mastic is fully equal to the best putty. It can be used by any one, and the machine that is supplied with the material is a very simple one. There are several points of advantage offered for sale in our advertising columns.

Applied glass is perhaps the best for a beginner who is in a small way. You will find Professor Taft's book on the construction of green houses very interesting to you. Our publishers can supply it for \$1.50.

(101) **Diseased Carnations.**—Grimsby. **The Stair.**—The ones that have been thrown out, were affected with necrosis. I would not advise any one to throw out any plants affected with rust if such plants have been yielding a good crop, and it is needed for something else. When proper precautions are taken, rust will not matter the second year, and will appear again. Under these conditions it is repulsive appearance is the worst feature about it.

Your *Pyritan* is affected with what is generally known as bacteria. The plants have been kept in a dry, airy place. It has been allowed to dry out properly between waterings. Other causes will assist in getting a plant such as dark roots, wet bench, poor drainage, a close, moist atmosphere, etc.; the latter is usually the result of poor ventilation. Never spray the young plants with force, but allow the water to fall on them gently. Keep the plants reasonably dry without going to extremes, and the trouble will soon disappear. H. WEBER.

(102) **Tuberous-Rooted Begonias.**—H. T.—The roots of tuberous begonias should be started in the fall, and they may be planted readily from now on by placing them in shallow boxes and just covering with light soil. Place them in a warm, bright spot and dampen the soil several times a day. Pot up immediately the roots start.

As the way is to plant them in a cold frame about 12 inches from the glass; dampen this occasionally and keep close till growth starts, after which give more air.

From the frame they can either be potted up or planted out, according to the purpose for which they are intended. For pot culture good sound loam, with sand and a little well-rotted manure added, makes a suitable compost. Good drainage is essential. The house needs to be sweet and clean and well ventilated. Always storing them in water and keep them occasionally, but not with the ventilators down. A slight shading is also necessary.

If intended for outdoor bedding, the plants should be started in the fall to cultivate the soil deeply that it may conserve the greatest amount of moisture through the winter. Cover them thoroughly with sphagnum moss. For bedding, if a location can be found that the sun does not reach till near midday, it is much the better.

(103) **Preparing Soil for Violets.**—Will you please state how to mix up a compost heap or soil for violets, and how long it should be left before using. I also please say if lime should be used, if so, how much? I can probably obtain about three loads of cow manure, and this can be used in same proportions as horse manure? M. A.

—There are several ways of preparing soil for violets: one is to plow a good sod and stack it in the Fall—a layer of sod and a layer of manure (either cow or horse manure), about one-third manure. Another is to plow the sod in the Spring when the grass is several inches long, stacking it in the same way. Fermentation is very rapid at that time of year, and the soil is ready for use in a very little while. Still another way is to plow the sod in early Fall, spreading the manure on top, then in the Spring when it ceases several times, when it will be ready for use. A light coating of lime will not hurt it, but would probably do it no good, especially if your soil is deficient in lime.—W. G. SALTFOORD.

The length to which to grow the asparagus depends upon the skill of the grower, and the material is valued accordingly. A 10-foot string is always worth 50c at wholesale, if the color is right. The man who uses it can cut such a string in two.

It is ready to cut when the growth is thin and the color a good, dark green. The lists mentioned by you are causes of discom in our market.

A bed may be carried on from year to year; there is no particular season of rest. Some growers are able to cut all the year round by having several houses and bringing on batches at irregular periods. Asparagus will grow at varied temperatures from 78 to 70, but 65 to 63 degrees would be better as a steady temperature.

You will find much useful information on florists' greens in the book, "How to Grow Cut Flowers," which can be obtained from our publishers. Price \$2.

### Hail Storms.

Des Moines, Iowa, was visited by a deluge of wind, rain, and hail on the 23d inst.—E. W. EARSTOWN, W. L. MORRIS,

### Little Falls, N. Y.

Easter business was above the average, everything in the line of cut flowers being cleaned up. I had about same as last year, if anything a little lower.  
E. D. WEDDOR sold over 8000 violets; he also had a fine lot of Hydrangea, 7 M. W. sold well.  
J. S. H.

### Buffalo.

Notes. Spring week now comes on apace, but the pace is a bit slow.

Trade at present inclines to be quiet. Florists are plentiful and goods are scarce, and the comparatively light calls are readily filled, at prices that may be termed low.

John Spearman, of Sassenheim, Holland, was a caller on Wednesday of this week.

### Chicago.

The weather the past week has been warm, with abundant rains, and the vegetation is at last pushing its head above the little cherry and apple trees here in blossom, while this year we have only the pussy willows and magnolia flowering. This condition will in part explain a decided difference in the price of flowers now and then. There has been a drop from the Easter prices of last week, and an abundance of stock.

General stock, bring \$2 to \$4, with considerable concessions to close out after the morning sales. Meteor are now coming in in much better condition, and Kaiseris are again showing better as the hot weather comes in; \$5 is about high water mark. The larger growers are beginning to replant, which, perhaps, will produce big gains for a time. *American Beauty*, very long, realize \$25 to \$30. *Jacq.* and hybrids do not yet meet the demand.

Carnations are getting more plentiful, and can be seen again after the morning sales with prices about \$4 to \$6. Standard varieties bring \$1.50 to \$2; *faucis*, \$3 to \$4. *Lilies* are plentiful, with very dull sales, at \$2 to \$3, called mostly on the same price. *Violets* bring 50c. to 75c.; *daffodils* and *lilips* are still abundant, realizing \$1 to \$3. *Valley* sell at \$2 to \$3. Street roses are not yet very plentiful, and are selling at 50c. to 75c. *Snulax* is scarce, and up to \$2 to \$3 for good quality.

White anthuriums are now coming in and make quite a showy flower. Last year they were in from this neighborhood first of May.

### Jettings.

BASSETT & WASHBURN, at Hinsdale, have a house of 1500 Carnot roses planted which are doing finely.

HENRY HILMAN, at his Foxthick Street place, has some very fine arrays of many colors; they sold very large amount of *Easterides* at \$1.50 each.

THOMAS HOPKINSON, who for twenty years has been grower for D. B. Fuller, from the South is now in Florida. In this similar position at Blue Island with Mr. Hilman.

WILSON BROS., at High Ridge, have just finished four houses, 250x30 feet, and are planting them with roses. These are identical to Rogers Park Floral Co., in the city.

The new carnation *Argyle*, from Stollery Bros., is bringing at Desmond's \$3 per 100. *Moira*, at Livingston's has been selling at the same price.

E. W. JYCHK has been having excellent success in the Vanhook's store, which Hansen is so successful.

Fire, the third time within a year, next door to J. C. Vaughan's store, the past week, looked threatening, but except a trifling damage by water to goods on the top floor, no further loss was experienced.

### Buy Remains.

Right in HUNT goes to 75-78 Washab, right in the wholesale florist district.

BLUMBERG BROS., retail, remove to 682 W. 13th Street.

W. GRAYMAN, from Michigan, eye at Van Buren street, near the corner of Michigan eye.

W. GRAYMAN appears to be fewer removals (than usual) this year.



Vase of Peonies.

(104) **Decorative Asparagus**—CONTINUE. One essential factor in asparagus culture is a good, high roof, in order to erect established strings 8 to 10 feet long. The house needs a moderate exposure and should be well glazed. The beds should be solid and contain at least 15 inches of soil, which should be a rich nature—ood, sound loam and spent rotter manure are the principal components. Care must be taken that drainage is ample, and the soil must not be allowed to crack. When the roots are established, top dressings of well-rotted stable manure are given from time to time, and the plants are never allowed to suffer for want of water. Propagation can be done in the fall. The method of stringing must be on yourself; or you may obtain established plants in from 2 1/2-inch to 3-inch pots from wholesale traders. Sometimes importations of established crowns are received of any such recently, and there is hardly any need of them, for the plant now seeds freely in this country.

For permanent beds the plants should be allowed at least 15 inches space each way, but the crop can be handled better by maintaining straight lines; so it is well to plant with about 12 inches space between the plants, and allow 35 inches between the rows. The method of stringing must be left to the individual; every grower can invent a better way than his neighbor; however a tan wire, neatly draped on the ground, and running the length of the bed, with another attached to the roof, will serve to secure the strings, and may be made a fixture. The string itself does not require to be thick, but should be of good material and green in color; one spray to a string.

John Lorenz, and Peter Lambert suffered loss by hail. Bergstrom, Morris, and Lorenz were insured.

Freetport, Ill., also had a slight visitation of hail. Louis Hausher, who was insured, suffered slight loss.

A terrific hailstorm visited the Republica Valley, in Kansas, on the 30d ult., at Clay Center, the greenhouses of C. Humbird and C. D. Broad were riddled; very few lights of glass remained unbroken. Both were insured in the Florists' Hall Association.

*Flushing, L. I.*  
H. C. RATH has opened a retail store at 89 Maln st.; he reports a good Easter trade.

*Oneida, N. Y.*  
Business here somewhat larger than last year, and would probably have been heavier, if we had had pleasant weather the few days previous. Carnations were the greatest demand, and were soon exhausted. In plants, *Illies*, *azaleas* and *potted violets*, sold best. Prices averaged about the same as last year, if anything a little lower. J. S. H.

### Poemias.

Our illustration is reproduced from a photograph kindly sent us by Siebeck & Son, New Rochelle, N. Y. The following poemias are represented in the group:—*Academy*, *Academy*, *Academy*, *Academy* single; *Lutes*, *alba*, *double*, *rose*; *Angust*, *Mieller*, *white*, *flushed*; *Academy*, *double*; *Academy*, *double*; *Academy*, *double*; *Porphyr* cherry; *Breens*, *double*, *crimson*; *Sun*, *double*, *white*; *Grandiflora* roses; *light*, *rose*; *center*, *white*; *flushed*; *diffusa*, *dark*, *purple*; *red*; and *Rosamond*, *light*, *pink*, *fringed*.

FERNS

Varieties Suitable for Fern Displays, etc. ADIANTUM CUNEATUM, 3 inch, \$5.00 per 100. Fine bushy stock.

Chas. with Order. CHAS. F. BAKER, Utica, N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

HEADQUARTERS FOR

AZALEA INDIKA. Specialty grown for American trade, from 6 to 10 inch diameter, \$1.00 to \$10.00 per 100.

KENTIA BELMOREANA. With 4, 6 and 8 character leaves, from 1 1/2 to 3 ft. high, \$3.00 to \$20.00 per 100.

KENTIA FORSTERIANA. With 4, 6 and 8 character leaves, from 1 1/2 to 5 ft. high, \$3.00 to \$10.00 per 100.

LANTANA BORNICANA. From 1 ft. upwards, \$25.00 and upwards per 100.

ARCEUTHEUS. From 1 1/2 to 2 ft. and more, \$5.00 to \$10.00 per 100.

KALICARIA EXCELSA. 1 1/2 to 2 ft. high, \$3.00 to \$15.00 per 100.

SWERT BARNS. Fronds and standards, fine shaped trees, from \$1.00 to \$15.00 per couple.

ASPIDIETRA FLORIDA. Green leaves, \$2.00 per 1000 leaves.

BEONIA. Single-flowered Colors. 1 in. and 1 1/2 in. diameter, \$2 and \$10 per 1000.

GLAZIA ELICATA. 1 in. and 1 1/2 in. diameter, \$2 and \$10 per 1000.

CAPELLIANA. R. H. O. B. D. N. S. LILAC and all other Nursery Stock, grown in quantities.

From make-up correspondents Chas. with Packing Free.

ROYAL NURSERIES LOUIS VAN NOUTTE PERE Ghent, Belgium.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Galax Leaves.

CHAS. H. RICKSECKER, Linville, N. C. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

P. OUYERKERK, (1123 Summit Ave., Jersey City, N. J.)

Just received from our Holland Nurseries:

RHOODODENDRONS, AZALEAS, SPIRÆA JAPONICA, LILIUM SPECIOSUM,

PAEONIES, BLEEDING HEART, POT GROWN LILACS, HYDRANGEA IN SORTS.

CLEMATIS and H. P. ROSES, in the best sort

PRICES MODERATE.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

FINE STOCK OF PALMS

ARECA LUTES, 6 in. pots.....\$25 \$2 75

LANTANA BORNICANA, 4 in. pots..... 2 00

" " " " " " " "..... 5 00

" " " " " " " "..... 5 00

" " " " " " " "..... 5 00

KENTIA FORSTERIANA, 4 in. pots..... 3 00

" " BELMOREANA, 4 in. pots..... 4 00

ARECA ELASTICA, good stock, from 1 1/2 to 4 in. pots..... \$1.00

FENUS well grown, assorted stock, 2 1/2 in. pots, \$2.50 per 100. Bedding plants and varieties for spring trade. Immense lot of Bulbous Stock, Plants and Cut Flowers at moderate prices lot for trade.

Cash or satisfactory references. JOHN BADER, Allegheny City, Pa.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

GOOD STOCK. LOW PRICES.

Pandanus (Tilia), 2 1/2 inch pots, extra strong..... \$4.00 per 100

Arca Lutescens, 2 1/2 inch pots, strong, 3 plants in a pot, bushy..... \$1.50 and \$1.00 per 100

Kentia Belmoreana, 4 inch pots..... \$1.50 per 100

Lanana Borbonica, 2 1/2 inch pots, ready to shift..... \$2.50 per 100

Arca Weddiana, 4 inch pots, leaves..... \$2.00 per 100

Germans, 2 1/2 inch pots, very strong. Double Gen. Grant, S. A. Nutt, and LaVergne and assorted..... \$3.00 per 100

Pandanus, double, the atrange, rooted cuttings..... \$2.00 per 100

Arca Lutescens, dark blue, rooted cuttings..... \$2.00 per 100

Salvia Sphaeroca, 2 inch pots..... \$2.00 per 100

Blackroom Sun Wee, just the same as above..... \$2.00 per 100

JOHN SCOTT, Cheap Street Greenhouses, BROOKLYN, N. Y. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

FINE STOCK OF PALMS

ARECA LUTESCENS

6 in. 5 plants in pot, 30 to 40 in..... \$1.00

3 in. 3 plants in pot, 40 to 50 in..... 75

7 in. 1 plant in pot, 40 to 45 in..... 30

7 in. 1 plant in pot, 40 to 45 in..... 30

KENTIA BELMOREANA Strong Home-Grown Plants. 5 in. 25 to 30 in. high..... \$1.00

2 in. 20 to 30 in. high..... 80

LANTANA BORNICANA 6 in. 5 to 6 leaves, 20 to 24 in. high, 30 in. broad..... \$1.00

7 in. 7 to 8 leaves, 25 to 30 in. high, 3 in. broad..... 30

PHENIX RECLINATA 6 in. 20 to 30 in. high..... \$1.00

ARECA LUTESCENS. All Plants Measured from Top of Pot.

JOSEPH HEAGOOD, WYMCOTE, PA. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Patterson, N. J. A movement is on foot to organize the florists of Bergen and Passaic Counties, N. J. their interests being identical. Ed. Seery of this city and John J. Phelps, of the Red Tower Greenhouses of Hackensack, are at the bottom of the movement. Mr. Phelps is a son of the late Wm. Walter Phelps, Esq., of national reputation.

Saddle River, N. J. J. G. & A. ESER are doing a good deal of landscape work in the aristocratic portion of Ridgewood, N. J.

ORCHIDS FOR CUTTING.

The Largest and Finest Stock in the World. F. SANDER & CO. St. Albans, England.

Agents, A. DIMMOCK, care of Wheeler & Son, Seaside, 114 Chambers St., N. Y. City.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

PALMS AND OTHER DECORATIVE PLANTS

At Great Sale. Stock large and is the condensed for well. Wholesale list. Specialties for gardeners, etc.

Send for well. Wholesale list. Specialties for gardeners, etc. Send in list or your wants

W. J. H. ESSEKER, Newark, N. J.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

JULIUS ROEHR'S. Headquarters for Palms and Decorative Plants.

RUTHERFORD, N. J. P. O. Address, Carlton Hill, N. J.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

PALMS AND FERNS.

The LARGEST STOCK in the West. GEO. WITTBOLD, 1706 N. Halsted St., CHICAGO.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

ORCHIDS AND GREENHOUSE PLANTS FOR SALE.

Address P. O. Box 665. ALBANY, N. Y.

Having disposed of several of my Greenhouses and the remainder being over crowded, I have decided to offer for sale the excess, consisting of the greater portion and the choicest specimens of my collection for the last season, either singly or in quantities. They are all well established, in fine condition, and may can be obtained in any other collection in America. A printed list sent on application. Sales made at reasonable prices.

E. CORNING.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

SPECIAL OFFER OF FERNS AND ROSES

Adiantum Cuneatum, Pteris Cretica, Albo Elineata, Pteris Hastata, cut of thumb pots, fine strong plants, \$5.00 per 100; \$20.00 per 1000. 3 in. pots, same vars., large plants, \$5.00 per 100.

...ROSES... Bride, Bridesmaid, Brunner, Jacqu. Meier, Perle, La France, 3 in. pots, the strong plants, clean, \$3.00 per 100; \$30.00 per 1000. American Beauty, large plants, 3 in. pots, \$10.00 per 100. This stock is guaranteed as represented or money refunded.

THE LA ROCHE & STAHL FLOWER CO. Ltd. COLLINGDALE, PA.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Cincinnati, O. The Market Slow. The bottom seemed to drop out of trade and, although growers fancy carnations have been hard to sell during the past week. Roses and all other stock was disposed of for a moderate price, but is now away down. The warm weather was having its accountable for much of this depression; the thermometer on Saturday registered 84 degrees. Trade in the market on Saturday fared no better; and the growers are complaining; some sold roses even as low as 25c. per dozen.

We are also becoming metropolitan. On Saturday a department store began selling geraniums at 5c. each. I understand they were furnished, in fact, at \$40 per 1000, by a Kentucky grower.

News of the Week. J. G. FINE, of Dayton, Ky., buried his mother on Thursday; she was 67 years old.

C. C. MURPHY met with an accident a few days since that has put him on crutches. He was tightening a shoe on one of his horses when the animal gave a jump, driving the cank of the shoe in the side of Mr. Murphy's leg below the knee.

On April 23rd, George Holz had lunch with the late Mrs. Ottilie Schweikart, an estimable young lady, of Newport, Ky. After the ceremony, the happy couple were married immediately at 2 o'clock. Price Hill, where Mr. Schwarz has his greenhouse.

Club Meeting.

The last meeting of the Florists' Society, until September, will be held May 8. At this meeting we expect the greatest exhibition yet staged, and shall also present the medals of the Society to the three winners of the greatest number of flowers of the highest quality in the show. We shall have a smoker and a lunch, in connection with the meeting, and, in addition, several good papers.

We shall welcome all of the craft who wish to see the show, and to see all that is on this occasion, and we ask those who do not desire to send us an exhibition anything of merit they may possess.

E. G. GILLET.

Kansas City, Mo. Easter trade was the best this city has ever seen, 25 per cent. better than last year. There had not been such a demand for carnations next, then lilies, tulips, narcissus, valley, etc. Easter lilies had largest sale in plants; not enough to supply demand. Prices were good, from 15c. to 20c. a bud and bloom. Prices in cut flowers were the same as last year. Roses sold readily at \$2, \$2.50, \$3; Beauty, \$8 and \$10; carnations, 75c. and \$1 per dozen. Flowering plants about same as last year. What few azaleas were left sold at from \$1.50 to \$2 per plant. Easter being so late, azaleas were about gone. We have no varieties to offer this year in our market. The public took kindly to all Easter flowers except carnations 3 pounds. Most flowers have now growing these. Everyone reports a good trade.

We had a delightful day Saturday to deliver orders. Our Spring has been so backward, that no plants have been sold yet to the home trade, when the doors open, we will have to work hard to make up for lost time.

Knoxville, Tenn. Easter trade here was the heaviest ever known. Although the florists had expected a heavy trade, and prepared a large stock, every flower was disposed of; not a lily was left over. Irises, too, ruled high. Beauty sold readily at 50c; Bride, Bridesmaid, Perle, etc., at from 75c to 85c; carnations a dozen; a violet brought up to \$2 per 100. There was not much bulb stock, with the exception of valley, which brought 75c. to \$1.

Potted lilies, azaleas, cinerarias, Swainsona, etc., sold well.

C. M. JONES has completed another house 100x18, which will be devoted to carnations next Fall, and will be planted with Scotch and French carnations. It is remarkably well here. Three other houses of the same dimensions are used for carnations and the best of new sewer soil will be given a thorough trial. H. Y.

Moundsville, W. Va. Easter trade was remarkably good, although prices did not rise as high as could have been wished. H. Y.





**Exclusively a Trade Paper.**

Entered at New York Post Office as Second Class Matter

Published Every Saturday

**A. T. DE LA MARE PUBLISHING CO. LTD.,**  
2, 4, 6, S Duane St., New York,  
P. O. Box, 1697. Telephone 2154 Corlinton

**REGISTERED CABLE ADDRESS**  
(Commercial Cable) **Flores, New York.**

**SUBSCRIPTIONS:**  
\$1.00 per year to United States, Canada and Mexico. \$2.00 per year to foreign countries in postal union. Payable in advance. New subscriptions will commence with the first number after receipt unless otherwise ordered. Back numbers can be supplied when available.  
The date on address label shows when the subscription expires and in the subscriber's receipt. No other receipt is sent.

**ADVERTISEMENTS:**  
Copy must reach this office not later than Friday in order to secure insertion in issue of the following Saturday.  
Rate, \$1.00 per line. Special positions extra.  
Orders on contracts of one month or longer. Orders from unknown parties must be accompanied by cash or satisfactory references.

**BOOKS.**  
Send for our catalogue of horticultural books, just off the press. It contains all the leading publications in this line.

**Subscribers**  
Should give notice to the publishers at the end of their time if they do not wish to continue taking paper, otherwise it is continued and payment expected.

**Exclusively a Trade Paper.**  
**THE FLORESTERS' EXCHANGE** is published in the interests of those commercially identified with the Florist, Seed and Nursery business. New subscribers are requested to enclose business card or other proof of their connection with these trades.

**Contents.**

OPINIONS	456
CORRESPONDENCE	457
EXPERIMENT STATIONS	447
PAPERIES	459
QUESTION BOX	451
BOOKS	458
SEED TRADE REPORT	447
TRADE NOTES	447
W. D. CRONKH. Ga.	451
Buffalo, Chicago	451
Okmulgee, Kansas City, Knoxville, Tenn.	451
Boston, Philadelphia, St. Paul, Utica	454
Baltimore, St. Louis	459
Syracuse, Utica	456
Houston, Tex.	460

**For the Busy Man.**

The Philadelphia bowlers have arranged for a smoker on May 6.

Both the Dutch and French bulb growers are making satisfactory progress.

There is a surplus of lilies in some sections of the country; they cannot be disposed of at all figures.

Severe hailstorms have visited some of the Western States, doing considerable damage to greenhouse establishments.

An abundance of Lillium Harrieti is reported from Minnesota. Florists there have indeed reason to be thankful.

Some of the Greek roses and flowers among have left our shores for their native country to take part in present horticulture.

The book Bill, to regulate the importation and sale of agricultural seeds, has been introduced into the House, and referred to committee on Agriculture. No alteration in the text of the Bill has been made.

**New York.**  
**Wholesale Market.**

Business for the week has been precarious and uncertain; stock has been abundant and in poor condition, roses especially so. Mildew on these is very prevalent already, and some of them are low grade and flabby, so much so that it is difficult to pick out a few special items which are unusually fine. A farmer, who created a call for cheap white roses for several days. The demand for Beauty improved toward the end of the week. Jacq, sold out fairly well, but at low figures. Morgan and Cuth were in poor condition, and the demand for them still poorer. It is difficult to quote figures on special and fancy stock, sales being limited and prices irregular—\$6 and \$3 were fancied prices on all the regular kinds; Beauty, 25c. each if very special; Brunner, for a few, brought 25c. each if very fine.

Evidently, some growers made up their minds that the Grand Memorial Day would create business, so made heavier shipments to meet it, having kept back stock for the purpose. However, the weather was very warming and disastors of previous holidays. Possibly, on Tuesday, there were more flowers on the street than on any other day, but they were not flower buyers. From careful observation during a tour on May 2 in the city of New York, it is only noticed among those countless thousands of people two bunches of violets.

Carnations are now excess of the demand, and prices are low; red kinds and they rank have been the two poorest selling colors.  
The violet season is nearly over; already the street's customers are getting by telling them violets are not good now. Prices have varied from \$1 per 100 to 40c. per 100 on such as were available.

Valley has been selling fairly well and \$3 per 100 has been a possible figure. Lilies have not sold with slow demand, and terrible low prices.

The South has been a big competitor this year. Lilies are the big attraction. It is well known and excellent condition; also apple blossoms and stock of that kind for decorations. The market is full of this in essence. Greek buyers who have already gone to the war, and the supply of those who remain is being cut by the latter by their little desire for business, preferring to gather together in groups, and discuss the situation in their native land, and the Retail Trade.

Considerable business has been done this week in the decoration for the day of weddings, funerals and dinners. Snehret & Son made a monster decoration in the Cathedral on Thursday for the funeral of the late Theo. Haveney, Esq. The firm used a large number of their largest palms and trees. There were faced with 3000 lilies, and a number of white azaleas plants.

Very fine lilies for the decoration for the naval ball at the Waldorf on Wednesday night. It consisted entirely of apple blossoms. These flowers are among the flags of all nations had a charming effect.  
The services in connection with the 29th annual meeting of the Florists' Exchange will be on May 2 and continues till May 9. The floral decorations are to be very extensive. The floral decorations will be decorated also. G. M. STUMPH has the work.

The Cut Flower Exchange Annual Meeting.  
The annual general meeting of the Cut Flower Exchange will be held on Thursday, Thirty-fourth street, takes place to-day. The election of officers is likely to lead to considerable changes in the management.

**A Great Exhibition.**  
The American Institute has secured Madison Square Garden, from September 15 to November 1, and will hold a four weeks' display of fruits, flowers and vegetables, beginning September 27; \$5,000 will be given in medals and diplomas. In the horticultural department will be decorated also. The exhibition will be devoted almost entirely to dahlias, when it will be candidly expected that 10,000 blooms will be displayed.

**FRED FRANK, Buffalo,** was in town attending the Grand Memorial Day exercises. He was in the company of the National Guard. **CARL JÜRGENS** and wife were also visitors.

The address of **FRED W. KELSEY** after May 1 will be 120 Broadway, he having returned to No. 145.

**Boston.**  
**Trade Notes.**

Business, on the whole, has been excellent since Easter until within the past few days, which have shown a decided decline in prices. There are still some very good flowers and now passing in considerable quantities through the hands of the carnation growers. Carnations show the signs of high temperature, though not to such an extent as are roses, which are generally showing signs of pest, none but of poor quality being offered in the market. Valley has been scarce for a day or two, but the supply is coming from out-of-doors. Von Sloss are very poor, though some very good Trumpet plants are offered. There are more plentiful than the growers would like to see them, and many sales are made at a sacrifice price.

The Gardeners and Florists' Club meeting will occur at Horticultural Hall next Tuesday evening. This will be the last meeting before the Summer vacation, and business of importance will probably be presented, so a large attendance is desirable.

**A Bee Grower.**  
**LUCIUS FOSTER** and his several assistants are busy as bees at the extensive range of hives and colonies of old position, making preparations for the immense budding plant business which they are attending to in the early part of which and of which they are well prepared to do their share. Mr. Foster has house after house filled with plants of the most popular varieties, and especially noticeable was one bunch filled with Beauty Potvine carnations, all in bud. Three houses are largely filled with Nephrolepis exaltata, botanensis, and contain thousands of plants, all in fine condition. Mr. Foster, who never does things by halves, went into the Boston fair on large scale, and has great confidence in its future.

**FRANCIS MCCARTHY**, for many years a florist located on Pine st., Auburndale at his home on Friday last, and was struck by a runaway horse on Wednesday, and will be confined by his sons.

Two light hail storms visited this section early Wednesday morning, but, so far as the result in no serious damage.  
**F. A. BLAKE**, of Rochdale, exhibited a set of plants of his new scarlet carnation, and secured a first prize. He was secretary Horticultural Society, last Saturday, and received a certificate of merit. The plants were handled in boxes containing 25 buds and blossoms.

**WM. NICOLSON'S SON, WILLIAM,** has been dangerously ill from blood poisoning, but is now improving, and his speedy recovery is hoped for. Tuesday was his twenty-first birthday, which he celebrated by venturing out for the first time since his illness. W. K. W.

**Philadelphia.**

**Market Notes.**  
This has been rather a quiet week among the stores, and to make matters worse the prices are among the lowest for sale. All the commission men are overstocked and cannot move anything worth the price. The few who have not appear to be selling very much. Prices are not firm by any means; the best Beauty plants are selling at 10c, but there are extra long stems. For other grades, it is just what you can get. Most of the tea or low grade plants are selling at 5c. The material has not been quite so plentiful; some good flowers of this variety have sold at \$8.

Carnations are a perfect job, and cannot be given away. Some very fine stock flowers are being sold in new lots at 10c to 15c, about the top price for extra fine, good, and very few bring this price.

**Callulias.** This is the only thing that is scarce; good strings bring 20c. This material has been in demand for wedding decorations.  
Large quantities of lily are now coming in from Maryland, and have been selling at \$1 per dozen bunches. It is sold at 10c per the street, where it is sold at 10c per bunch.

The next meeting, on Tuesday, May 4, will no doubt prove a good one. The subject will be the one proposed by the members of the S. A. F., to be opened by President Burton. The question of association members will also be decided at this meeting.

**Bowlers to have a Smoker.**  
The Philadelphia bowlers are now becoming more active and have arranged for a

smoker in the club-room on Thursday, May 6, which all the members of the club are invited to attend. To create more interest, also to induce members who do not now bowl, arrangements are being made for some appropriate trophies to be competed for in a series of games. It is hoped that this will have a good effect and bring out some new material.

**Growers.**  
**JOHN LAUBERT, Bala,** reports having done a very satisfactory Easter business; he rented various stores throughout the city for the week preceding Easter, and now has a large stock of flowers, and now busy shifting on Spring stock, in which he does a large business.  
**JOHN REBUSE**, at Bala, as usual, did a good business at Easter. They contemplate some large improvements to their plant the coming Spring. They have lately had the city water put in.

**DAVID BRAN** has had a very good season with roses and carnations. Beauty has done very well with him this year. More of it will grow next season, and La France dropped.

**WM. C. SMITH** is now disposing of his entire stock of plants, and, as he is moving, having rented his place to Wm. P. Craig, who will take possession June 1.

**DAVID RUB.**

**St. Paul.**

**Market News.**  
Cut flowers are quite abundant, and sales good. Prices have dropped a little, but in the main are well upheld. Demand is steady, and in big quantities. Demand for roses is plentiful of good quality. Violets are about finished, as are also carnations. There are a few very belated lilies are seen but are in poor demand. One very noticeable feature this season. Wisnet, our best selling variety from the Eastern cities indicate that a great many diseased bulbs were planted this season. Wisnet, our best selling variety, more fortunate than in the East, or rather we paid better prices and secured better quality plants than we have had for more than were this year. We have heard but little of rusty carnations this season, although we have had several very fine cuttings. Different reasons being assigned. From my own observations I am inclined to believe that the cause is a lack of good plants immediately after Easter. Easter sales either clean them all out or preparation is made for a very early start of new plants. It seems that if on growers start planting earlier, they will be able to bring into bloom each week of the week we would have less of dull seasons and poor quality of flowers. We are for the most of us apt to consider Thanksgiving, Christmas, Easter and Decoration Day the only hard times of the whole year, and all our energies are spent in preparing for these occasions.

**The News.**  
**D. E. LEBEL** has closed out his florist business, and is at present laid up in the hospital.  
**E. F. LEMKE** was unfortunate enough to lose several orders by dropping in one of the small lakes near the city.  
**R. J. MENDENHALL** is building a new house at his South Minneapolis place.  
**MR. LAUBERTS,** junior member of Carlson & Lauritzen, of the Warrendale greenhouse, has married recently.  
**W. SCOTT** is now with L. L. May & Co. The bright weather is bringing forward lifting stock in a good manner, and several plants are being planned as soon as the weather will permit.

**VERITAS.**

**Utica, N. Y.**

For some time past C. F. SRETZER has grown Violet Lady Campbell in place of her usual variety. He has been very successful so well with this. Some objection was made to the lighter shade, but that has now been corrected. It is being prepared for it. This variety is doing splendidly with him; he has a fine young stock on the premises and may through his advertisement in the EXCHANGE.

**C. F. BAKER** will propagate heavily his new seedling variety, known as Formed and Jacket; these will be placed on the market next season; they are vigorous growers and will do very well.

**WM. MATTHEWS** reports a most satisfactory demand for orchid blooms, of which he had a splendid lot at the right price.

Market Items.

The inactivity of the trade in contrast to last week's activity has become so depressed that it is hardly possible to offer for the time being, in control of the market. The conviction among wholesalers that the demand will not in the near future be commensurate with the supply, creates a tendency to lend willing ears to those who offer a reduced price to offer for quantity. But offers of that sort are rare, and there is but little doing in retail circles.

The weather was rather erratic up to the first of the week, but has settled down to regular summer weather, and the effect of the sunshine is seen in the heavy results.

Trade was fairly good Monday and Tuesday, but on Wednesday, on stock lots, accumulations and their prices weakened. Bridesmaid held their own better than any other variety, but they, too, went tobogganing. The prevailing price for fancy selections at Easter was 10c., on Thursday the same quality roses sold at 8c. and the same stock is down to 25¢ per dozen, and hundreds of good buds are being sold at 15¢ per dozen. The hands of the fakir at ridiculously low prices. Kalscedin and Critchell suffered most.

Trade week after Easter was fairly good, and prices kept up well until Saturday, when they fell as they usually do for the demand; consequently prices went down to about what they were before Easter. However, the market is remarkably good at present, and carnations are also greatly improved. Sweet peas are in better supply; most of our growers are cutting these now; prices are about \$1.50 per bushel, and the market is supplied about that figure. Bulbous stock is nearly done, and Harriis lilies are not any too plentiful. The winter warm weather made some lilies will be in bloom in a week, and other outdoor stock will follow in short order.

Club News. The second monthly meeting of the Florists' Club, held last week, was a most successful one. The committee had appointed your correspondent to prepare a paper which was read, the subject being "The Florists' Club." The paper, by Holland bulb merchants, P. Vos, of Sassenheim, and H. Zijp, of Haarlem, were presented at that time, and the quotation marks about novelties to be introduced the coming season. For the next meeting of the club, the committee has made the selection of Schenley Park, as the essayist.

O. A. OENMELER, former Secretary of the Florists' Club, has been elected since Easter, but it is now commencing to mend. T. E. RANDOLPH has also been elected at that time, and the quotation is merely nominal.

Bulbous stock is not in demand, and quantities of it remain unsold. There are some call for Narcissus posticus, which is shipped from the South, and sells at 40c. to 50c. per lot, but 2,000 a day will supply the whole demand.

Smilax is still scarce, and sells readily at \$15 per lot.

The Competition of the Greek.

The Greeks are still with us. Last week they were in the market, and whenever they invaded the wholesale houses, but findings are different now. The market has been so quiet, that the Greeks have not become patriotic enough to go home and help their countrymen lick the dirt under their noses. They are still supplied with large quantities of roses and carnations, which are sold at 20c. a dozen. The market is very quiet, and put up signs offering roses at 25c. a dozen, and delivery through in. Others have put up signs offering roses at 15c. in their windows. This, of course, means cheap prices. The ordeal to which the market is being subjected is hardly fair to establish values in conformity with the laws of supply and demand.

The regular meeting of the St. Louis Florists' Club, will be held next Tuesday at the Festival of the St. Charles and the Chrysanthemum Show will report to the Club its plans for the coming year.

The Board of Trustees of the Missouri Botanical Garden has decided on a 100-acre tract near the city, and are being prepared by the Olmsted of Boston. The work of making extensions and improvements will be during the present Summer and will cover a period of three years. The first step is to grading and the laying of water pipes. Next year the planting will begin. The following are to be laid out: In the fourth year the herbaceous plants will be put in, and in the fifth year the trees and shrubs will be planted. The proposed improvements are the begin-

ning of a future re-landscaping of Shaw's Garden. The instructions given to the Olmsted were, first, for a general plan for improving the farm land adjoining the Garden, second, a re-landscaping of the North American synopsis, and a small development of the park, and third, suggestions for the gradual modification of the present park to harmonize with the other improvements. The plan which has embodied the plans in his forthcoming annual report, estimates that the cost of the improvements will be about \$1,000,000. It consisted of a tract of 100 acres, and, when completed, will in time give Shaw's Garden a place beside the other botanical gardens of the world.

Last week a lady here received from New York a beautiful Easter greeting put up by Thorley. It consisted of a rattan basket 3 ft. long, 15 in wide and 15 in deep, with a cover. It was filled with garden seeds, carefully graded as to size so as to slop from the left side to the right, which was filled with growing violet plants, which were growing in the left corner of the open cover. The blending of colors was harmonious and the entire effect is pleasing, that regret it could not be viewed by some of our artist florists.

Pittsburg.

Market Items. Trade week after Easter was fairly good, and prices kept up well until Saturday, when they fell as they usually do for the demand; consequently prices went down to about what they were before Easter. However, the market is remarkably good at present, and carnations are also greatly improved. Sweet peas are in better supply; most of our growers are cutting these now; prices are about \$1.50 per bushel, and the market is supplied about that figure. Bulbous stock is nearly done, and Harriis lilies are not any too plentiful. The winter warm weather made some lilies will be in bloom in a week, and other outdoor stock will follow in short order.

Club News. The second monthly meeting of the Florists' Club, held last week, was a most successful one. The committee had appointed your correspondent to prepare a paper which was read, the subject being "The Florists' Club." The paper, by Holland bulb merchants, P. Vos, of Sassenheim, and H. Zijp, of Haarlem, were presented at that time, and the quotation marks about novelties to be introduced the coming season. For the next meeting of the club, the committee has made the selection of Schenley Park, as the essayist.

O. A. OENMELER, former Secretary of the Florists' Club, has been elected since Easter, but it is now commencing to mend. T. E. RANDOLPH has also been elected at that time, and the quotation is merely nominal.

Bulbous stock is not in demand, and quantities of it remain unsold. There are some call for Narcissus posticus, which is shipped from the South, and sells at 40c. to 50c. per lot, but 2,000 a day will supply the whole demand.

Smilax is still scarce, and sells readily at \$15 per lot.

The Competition of the Greek.

The Greeks are still with us. Last week they were in the market, and whenever they invaded the wholesale houses, but findings are different now. The market has been so quiet, that the Greeks have not become patriotic enough to go home and help their countrymen lick the dirt under their noses. They are still supplied with large quantities of roses and carnations, which are sold at 20c. a dozen. The market is very quiet, and put up signs offering roses at 25c. a dozen, and delivery through in. Others have put up signs offering roses at 15c. in their windows. This, of course, means cheap prices. The ordeal to which the market is being subjected is hardly fair to establish values in conformity with the laws of supply and demand.

The regular meeting of the St. Louis Florists' Club, will be held next Tuesday at the Festival of the St. Charles and the Chrysanthemum Show will report to the Club its plans for the coming year.

The Board of Trustees of the Missouri Botanical Garden has decided on a 100-acre tract near the city, and are being prepared by the Olmsted of Boston. The work of making extensions and improvements will be during the present Summer and will cover a period of three years. The first step is to grading and the laying of water pipes. Next year the planting will begin. The following are to be laid out: In the fourth year the herbaceous plants will be put in, and in the fifth year the trees and shrubs will be planted. The proposed improvements are the begin-

ning of a future re-landscaping of Shaw's Garden. The instructions given to the Olmsted were, first, for a general plan for improving the farm land adjoining the Garden, second, a re-landscaping of the North American synopsis, and a small development of the park, and third, suggestions for the gradual modification of the present park to harmonize with the other improvements. The plan which has embodied the plans in his forthcoming annual report, estimates that the cost of the improvements will be about \$1,000,000. It consisted of a tract of 100 acres, and, when completed, will in time give Shaw's Garden a place beside the other botanical gardens of the world.

Last week a lady here received from New York a beautiful Easter greeting put up by Thorley. It consisted of a rattan basket 3 ft. long, 15 in wide and 15 in deep, with a cover. It was filled with garden seeds, carefully graded as to size so as to slop from the left side to the right, which was filled with growing violet plants, which were growing in the left corner of the open cover. The blending of colors was harmonious and the entire effect is pleasing, that regret it could not be viewed by some of our artist florists.

Pittsburg.

Market Items. Trade week after Easter was fairly good, and prices kept up well until Saturday, when they fell as they usually do for the demand; consequently prices went down to about what they were before Easter. However, the market is remarkably good at present, and carnations are also greatly improved. Sweet peas are in better supply; most of our growers are cutting these now; prices are about \$1.50 per bushel, and the market is supplied about that figure. Bulbous stock is nearly done, and Harriis lilies are not any too plentiful. The winter warm weather made some lilies will be in bloom in a week, and other outdoor stock will follow in short order.

Club News. The second monthly meeting of the Florists' Club, held last week, was a most successful one. The committee had appointed your correspondent to prepare a paper which was read, the subject being "The Florists' Club." The paper, by Holland bulb merchants, P. Vos, of Sassenheim, and H. Zijp, of Haarlem, were presented at that time, and the quotation marks about novelties to be introduced the coming season. For the next meeting of the club, the committee has made the selection of Schenley Park, as the essayist.

O. A. OENMELER, former Secretary of the Florists' Club, has been elected since Easter, but it is now commencing to mend. T. E. RANDOLPH has also been elected at that time, and the quotation is merely nominal.

Bulbous stock is not in demand, and quantities of it remain unsold. There are some call for Narcissus posticus, which is shipped from the South, and sells at 40c. to 50c. per lot, but 2,000 a day will supply the whole demand.

Smilax is still scarce, and sells readily at \$15 per lot.

Index to Advertisers.

Table listing various florists and their addresses, including Moninger John C. Co., P. O. Adams, etc., and various other businesses like Nurseries, Florists, and Seed companies.

PANSIES

In full bloom, \$3.00 per 100. Daisy and Forcemeat... FRED, DINGER, South Road and Spring Creek, Woodhawn, N. Y. Near Kings Co., Elevated. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

CHRYSANTHEMUMS.

Best standard commercial varieties, from pots... JOHN C. BEALE, 20th & Ontario Sts., PHILADELPHIA, PA. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

4 NOVELTIES 4

CHRYSANTHEMUMS, 100... HELIOTROPE, Lemoine's Giant, 2.00... ASTERS, New Jewel, 4 colors, 2 in. 2.50

CHRYSANTHEMUMS.

Rooted cuttings new, large, thoroughly well... GEORGE J. HUGHES, Berlin, N. J. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

PANSIES

Market Plants.

In the selection of the following varieties we have included those of pleasing color and of dwarf yet sturdy growth:

- EARLY, per 100... Mrs. Jerome Jones, white, 3... Major Bonaffon, yellow, 3... Vivand-Morel, pink, 3... Zuluinda, 3... Red Warrior, bronze, 3... John Shrimpton, red, 3

MID-SEASON

- Mutual Friend, white, 3... Major Bonaffon, yellow, 3... Mrs. C. B. Freeman, 3... Vivand-Morel, pink, 3... Zuluinda, 3... Red Warrior, bronze, 3... John Shrimpton, red, 3

LATE

- Yanoma, white, 5... Mrs. Jerome Jones, white, 3... H. W. Riemann, yellow, 3... H. W. Lincoln, 3... Francis B. Hayes, pink, 3... Chebeague, 3

For general list of varieties see our catalogue.

NATHAN SMITH & SON, ADRIAN, MICH. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

CHRYSANTHEMUMS

See last issue of Florists' Exchange for some special valuable varieties... THEO. F. BECKERT, NEWLIE INDIAN, California, 25c. each. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

FLORIST ROCKS.

Field-grown, 6 cts. each, \$5.00 per 100.

ELIZABETH NURSERY CO., Elizabeth, N. J. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

ASTERS!!

Sample's White and Pink, also Perfection, York and Comet, 50 cts. each... MORRIS FLORAL CO., Morris, Ill. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

PANSY

In full bloom, large... H. BEAUDU, Woodhawn, L. I., N. Y. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

Mammoth Pansies!

We are the largest growers of Pansies in America... Whittin & Sons, Wholesale Florists, L. I., N. Y. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

Pansies Worth Raising.

Blooming plants or plants in bud, from \$10.00 per bush up. Full value given in every case... G. Soltan & Co., 150 Grand Avenue, Jersey City, N. J. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

PANSIES

THE JENNINGS STRAIN OF Finest American Grand Pansies are up to date and sure to please... E. B. JENNINGS, Look 28, Southport, Conn. BROWER OF THE FINEST PANSIES. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

In Bloom

The Finest Pansies in the World. ROBERTS' GIANT PANSIES, in separate colors, mixed, strong transplanted plants from cold frame, at \$2.00 per 100, or \$15.00 per express.

MAX. E. KRAUS, 1230 BAYVIEW AVE., NEW HAVEN, CONN. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

CONTRIBUTIONS.

Planting. Planting out is doubtless well timed by this time; and any remarks pertaining to the same would seem quite unnecessary.

One of the most essential things is the selection of plants healthy and strong... We cannot control the weather, neither can we forestall what it is likely to be throughout the season.

When the plants are from flats and have become well established, or if they are from pots, I would much prefer to plant them out... There will be little or no setback given when plants are thus removed from the flats, and the soil is moist about the roots.

Deep planting is a very common error, especially if the soil be low and the planter not very conscientious, and is responsible for a large percentage of the stem rot with which we have to deal... It has been called by some an outdoor disease, while others claim that it makes greater progress in the house.

While we cannot control the condition of the atmosphere outdoors, we can to a large extent control it in the greenhouse... We advise any who have the room to spare to make preparations to plant in a house, or a portion of one, with young plants which have been started in the open.

While we cannot control the condition of the atmosphere outdoors, we can to a large extent control it in the greenhouse... We advise any who have the room to spare to make preparations to plant in a house, or a portion of one, with young plants which have been started in the open.

GIANT SEIBER THE RESTLESS, SLEEPLESS FLORIST OF PITTSBURGH, PA. GROWS & SELLS CARNATIONS THAT PAY

WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

SEMPLE'S ASTERS, seedling, pink, white and lavender... A. & G. ROSBACH, Pemberton, N. J.

CARNATIONS Daybreak, Scott, Tidal... JOSEPH RENARD, Unionville, Chester Co., Pa.

GRALLERT & CO. CARNATION GROWERS COLMA, SAN MATEO CAL. CO.

GERANIMS—Double Grant, La Favorite, fine plants, out of 25c. each... CARNATIONS—Daybreak, McGowan, Scott, Fortia, from \$1.50 per 100.

PAUL MADER, East Stroudsburg, Pa. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

A MISTAKE, to delay your orders for MINNIE COOK. Price should be \$5.00 per 100; \$25.00 per 1000.

MEADOW VIEW GREENHOUSES, PARSIPPANY, N. Y. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

Carnations, Etc.

HIGH GRADE ROOTED CUTTINGS. Write for price list.

H. WEBER & SONS, P. O. Box 57, OAKLAND, Md.

CARNATIONS AND ROSES Strong, well-rooted cuttings of Carnations... GEORGE M. EMMONS, Newton, N. J. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

ROOTED CUTTINGS. CARNATIONS.

Daybreak, per 100 \$1.50 Per 1000 \$12.50... Wm. Scott, 1.00 7.50 Lizzie McGowan, 1.00 8.00 Tidal Wave, 1.10 10.00

Other varieties all sold out. EDW. J. TAYLOR, 1002 N. 11th Street, PHILADELPHIA, Pa. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

Carnations! (Rooted cuttings now ready.) Mayor Plageme Moteson, McGowan, Daybreak, Scott, Fortia, and other good ones. Good Healthy ROSES for Spring Sale. Send for price list. CUT FOSSES and CARNATIONS always in stock. H. DALE - Brampton, Ont. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.



SITUATIONS WANTED.

Rate, 10 cents per line (3 words), each insertion. Cash with order. This rate applies only to situations wanted advertisements and who are sold, without display. When letters are addressed to our care and receive no answer for forwarding.

SITUATION wanted as foreman or manager in first-class commercial establishment, by an experienced grower of flowers, shrubs, palms and ferns, age 35. Scotch, 15 years' practical experience in the business of floriculture. Address J. G. Barrett, 3 Rose, Florida, 200 Westside Ave., Jersey City, N. J.

HELP WANTED.

WANTED.

A man, single or married, with Californian accent, to take charge of city store and law grounds, must be good reference. Joseph Sexton & Son, Galista, Cal.

WANTED.

An assistant, understanding commercial greenhouse work. Growing roses. Address Villa Lorraine Roserie, Madison, N. J.

WANTED Compeant man to work a farm on shares; no wages; must understand Irish and violet culture. Apply to J. P. FLOY, Municipal Office, Orange Co., N. Y.

WANTED.

A experienced commercial rose grower. Apply, with references. MILLANG & Co., 501 Sixth Ave. N. Y. City.

WANTED.

A good nursery and horticultural man, one who can take charge. Address, A. K., care Florists' Exchange.

WANTED.

At once, a good greenhouse man; must be good potter and not afraid of work; willing to do any thing around a first-class commercial place. Apply with references and wages accepted to JOHN H. RAMSAY & CO., Kennebec Nurseries, BATH, Maine.

WANTED.

At once, a good, reliable rose, carnation and chrysanthemum grower. Must be first-class and have best of references, one who is capable of taking entire charge and hustling; and also, one good all-around florist who is a good decorator and who has had considerable experience upon floral designs, also must be competent of taking charge of small plants and ferns. To the right parties we have a good and permanent position. Address Carrot, in care of Florists' Exchange.

STOCK WANTED.

WANTED.

1600 AZALEA INDICA out of bloom, in large or small lots, medium size crowns preferred. Must be in good condition. Give spot cash prices. Beers' Floral Conservatories, Bangor, Me.

EUONYMUS RADICANS VAR.

2000 PLANTS WANTED.

Prices and particulars to FRED W. KELSEY, 150 Broadway, NEW YORK.

GREENHOUSES AND LAND.

GREENHOUSES AND LAND.

FOR SALE CHEAP 15,000 feet of glass, well N. Y. City, two story dwelling, overlooking, convenient to all public places, well equipped for florists. Paying immediate cash. Address J. C. Baker, 100 Westside Ave., Jersey City, N. J.

FLORISTS AND GARDENERS.

Wanted, for private and commercial plants, superintendents, journeyman, assistants and apprentices and ornamental gardeners. Write to Secretary and Information, 10 N. Market St., Boston, Mass.

FOR SALE. A market-garden and vegetable growing business, 5 1/2 acres, containing 20,000 sq. ft. of glass, heated, hotbed, ash, dwelling, bath, etc. Address J. C. Baker, 100 Westside Ave., Jersey City, N. J.

FOR SALE OR RENT.

On easy terms, near Philadelphia, 4 greenhouses, 6 room dwelling house, lot 100x200 ft. For particulars address Mr. Thomas Cartledge, 1514 Chestnut St., Philadelphia, Pa.

FOR SALE.

A bargain sure! A firm with a mailing list of 15,000 seed and plant customers would like to sell you a quantity of seed. Cannot take care of retail and catalogue trade both so offer same for sale. A fine novelty, good puller, goes with list. Make us a cash offer for same. Write Seed and Plant Trade, care of Florists' Exchange.

FLORIST PLANT FOR SALE.

Well equipped, well located, in wealthy city of 20,000; best climate in country for aficionados of flowers. Inquire of

BENNETT & CHAPLIN,

REAL ESTATE AND LOANS, Colorado Springs, Colo.

FOR SALE.

Watered No. 3, in good condition, 1500 feet cast iron, 1 inch pipe, with all connections and fittings, also 3 expansion tanks.

H. SCHUBERT,

Little Ferry, N. J.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Syracuse, N. Y.

The funerals of several prominent people, together with their religious wedding made the past week exceedingly busy among the florists, entailing almost as much hard work as Easter week.

A. D. PERRY, president of Central New York Horticultural Society, has returned from his annual Southern trip.

We are getting accustomed to fresh weather in this vicinity—on Saturday and Sunday the mercury advanced to 85 degrees. This (Tuesday) morning quite a little snow fell, accompanied by frost. C. BABSON.

Utica, N. Y.

Easter trade here was very good; probably more plants and flowers were sold than ever before, but prices ruled lower. It seemed as if every other meat market and grocery store had a flower store. There was a great deal of competition and cutting of prices, but good stock brought a fair price. Roses and carnations were in short supply.

The old Jonathan Anook greenhouse on Whitestown street was sold last week under mortgage and will be replaced by WILLIAM PFEIFFER, who will have associated with him Fred Zimmerman, who has had an extensive experience, having been for the last four years with C. F. Baker, and previously with Wm. J. S. H.

CORRESPONDENCE.

Insertion will be given in this column in all communications free from animals; but if they are enclosed do not necessarily refer our own.

Seedlings and Certificates.

Editor Florists' Exchange: There is a well known peculiarity of the three-judge system which has not yet been alluded to in the discussion upon seedlings and certificates. It can be described by an example. In a certain competition which was reported in the EXCHANGE a few years ago, there were three prizes and three judges. Two of the judges gave the second prize to the highest number, and the third judge made him so low, and the first-prize man so high, that the decision of the other two judges was nullified, and the award was actually made by one judge, instead of three. If a majority of two is possible and the award, it would have been reversed.

Keeping this decision in view, a brief analysis of the award would be interesting. It is an unwritten law in judging exhibits of any kind that each judge shall first judge and then compare the results, and be influenced by them, and an average of the three separate judgments shall determine the award. In the case above cited, the judges did not meet at all. Assuming that the judges followed the usual course in the present case of the 84 points given Mr. Ward's seedling might have been an average of three different judgments.

As it does not seem probable that the independent judgments would be given alike, it follows that one, at least, of the judges must have given more than 84 points. If we assume that two judges might have done so, while the third voted the bill by giving a lower mark; thus, 80, 82, 87, will give an average of 84 points, which means that the variety would lose a certificate, although a majority of the members of the committee would win it. If this committee consented together and gave a joint opinion, instead of independent ones, they may have a majority of 84.

In every committee of three judges, there will always be one dominant mind to influence the others, and it is not to be suspected that they have done so. It is to avoid this result that independent judgments are always required. Of course, we do not know just how the committee arrived at their decision in the present case, but in consideration of the great importance of the question, I think it would be worth their while to tell us about it.

Mr. Smith's triumphant citation of the eminent New England grower, 70 points for Boston (figures run on 100 point basis) a trifling difference of 33 points. If 70 points form a sound and reliable judgment, how will it compare with the 84 points? And if after two careful examinations, 84 points is the last word of three competent and unbiased judges, what is the precise value of 70 point judgment?

This eminent New England grower could not have been so sure of his own superiority if he had attempted it with much hard work.

The three-judge system has been a thorn in the side of exhibitors from time immemorial. So many the objections to it that, if I remember right, the members of the Columbian Fair at Chicago arbitrated the matter, and the three-judge system, which led to quite a discussion of the merits of the two. LOTHERE WIGHT.

Grand Rapids, Mich.

At the last session of the Florists' Club it was decided to give an exhibition in behalf of the Children's Home, and a committee was appointed to arrange for a conference of the Home Board and the Florists' Club. (Circulars have been sent out on "Bedding Plants.") N. B. Stover introduced a resolution debarbing members from free exhibition of plants, except those prior to the one that is to be given jointly, and the resolution was passed.

FOR SALE.

1000 FARFUGIUM GRANDE, 8 cts. 500 FLOERUM TENAX, 8 cts.

WANTED

VINCA MINOR, Seed Prof. Sample. C. AMMANN, Seventh Avenue and 120th St., NEW YORK. WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

VEGETABLE PLANTS.

Large plants and hardened. Cabbage, early and Summer... \$1.50 per 1000 Cauliflower—Snowball... 2.50 per 1000 J. C. SCHMIDT & CO., Bristol, Pa. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Asparagus Plumosa

Large undivided clumps, 4 and 5 years old, \$1.00.

Lygodium Scandens

Large clumps, 3 and 4 years old, 50c. ea. A bargain if you need them. Terms cash with order. A. M. W. & J. B. MURDOCH, Pittsburg, Pa. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

A GREAT BARGAIN

On account of giving up business will sell 3000 CARNATIONS

out of soil (Scott and McGowan) \$8.00 per 1000, \$15.00 the lot. Must be sold within two weeks. Cash with order.

Mrs. JOHN WALKER, Great Neck, L. I., N. Y. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Nephtrolepis Exaltata Bostoniensis

THE BOSTON DROOPING FERN. Plants from \$4.00 to \$10.00 to \$3 each. Genual stock. Order now and don't get left out. Large line of plants and seeds. WRITE FOR PRICES.

L. H. FOSTER, 45 King St., Dorchester, Mass. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

FERNS! FERNS!

HARDY CUT FERNS. We have FIRST QUALITY 70c. per 1000. Fancy dagger. Try us. We are sure to please.

LAURAL ROPING, 5 cts. per yard. All orders by mail or dispatch promptly filled. CROWL FERN CO., HILLINGTON, Mass. Telephone Office, New Salem, Mass. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

ROOTED CUTTINGS.

GOOD STOCK, LOW PRICES FOR CASH. Verbeena, 3 1/2 months, per 100 by mail, \$1.00; by express, \$1.25. Per 500, \$4.00. Chrysantheum, by mail, per 100, \$1.50; by express, \$1.75. Double Palmate, fine mixture, \$1.25 per 100; by express, \$1.50. Double Palmate, fine mixture, \$1.25 per 100; by express, \$1.50. Double Palmate, fine mixture, \$1.25 per 100; by express, \$1.50. Aders, all fine strains during the season, \$5.00 per 100; \$4.00 per 500.

Railroad Ave. and Hill St., BROOKLYN, N. Y. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Rooted Cuttings.

per 100 per 1000 GERANIUMS, choice named, \$1.50 \$12.50 COLEUS, 30 varieties, .60 5.00 HELIOTROPE, 3 " 1.00 8.00 AGERATUM, Dwarf, white and blue 75 6.00 CHRYSANTHEMUMS, 30 finest standard varieties, . 1.25 12.50 TERMS: Cash with order.

CHAS. E. SMITH, Cor. Jefferson and Jackson Aves., YORK, Pa. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

ENGLISH IVY

Very good plants, 3 inch pots, 3 plants in pot, 6 feet long, at \$2.00 per set. 4 inch pots, 3 plants in pot, 4 feet long, at \$3.00 per set.

NEW BEGONIAS

Miss Darlington, rubra type, immense flower spikes, small plants, \$2.00 per set. Begonia Vulcan, Varium type, red, \$4 per set. Begonia Zerkford, good bloomer, \$4 per set.

NEW JUSTICIA

Dwarf, 4 inch pots, in buds, \$2.00 per set.

GERANIUM

Golden Harry Hickock, best border Geranium, and for 1000 in 1 inch pots, \$2.00 per set. Cash with order, please.

CHAS. ZIMMER, West Collingswood, N. J. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Rochester, N. Y.

J. B. KELLER'S SONS report a first class Easter. Good stock was plentiful and brought very fair prices. I noticed a batch of the pretty pink Lychins semp...

FRED SCHUBERT'S SONS speak in the same steady good business, good stock fine weather, everything lively and a rushing week following with wedding orders.

SALTER BROS. had both their stores taxed to their utmost capacity by crowds of good buyers.

No matter at what time one calls on that general orchidist, Geo. SAYAGE, whose name is indelibly connected with the Klumb orchid houses, one is sure of a hearty welcome and can make up his mind the best part of a day can be well and profitably spent among the treasures. Just now there is not much to be seen in bloom, but I question if a finer growth upon the plants was ever seen at this season.

There will be a wealth of bloom later on; at that the best part of a day can be well and profitably spent among the treasures. Just now there is not much to be seen in bloom, but I question if a finer growth upon the plants was ever seen at this season.

MARIE LEOUVILLE VIOLET, rooted numerous plants, some \$1.00 per 1000. Fall and winter rooted cuttings, \$1.00 per 1000.

JOSEPH MARKLE, Rhinebeck, N. Y. When writing mention THE FLORISTS' EXCHANGE.

...THE COMPLETE... BOOK CATALOGUE.

We have just issued the most Select and Complete Catalogue of Books on Horticulture and all Subjects ever published. The catalogues of the various book publishers of this country as well as of Europe, have been carefully gone through, and the works taken therefrom as were considered suitable for our patrons.

...BOOKS for

- The Florist
The Market Gardener
The Nurseryman
The Fruit Grower
The Seedman
The Student of Botany, Entomology and Orthology
The Poultry Keeper
The Farmer
The Lover of Plants and Flowers
and the Student of Nature in general, in fact

BOOKS FOR EVERYBODY

interested in the science and practice of rural economy. A select clubbing list of periodicals, home and foreign, may also be arranged, from which a considerable saving may be effected in their purchase.

This catalogue will be sent on application, accompanied by a two-cent stamp. Address

A. T. OELMARE Ptg. and Pub. Co. Ltd. BROOKLYN, N. Y. SEND STAMP FOR CATALOGUE

Hot-Bed Sash

Tenons white-lead. Corners secured with iron dovetail pins. Every detail of construction perfect. Made of Clear Cypress Lumber.

Quick Shipments.

We have in stock and can ship immediately:

- 3 ft. x 6 ft., 3 rows 10 in. glass
2 ft. 6 in. x 6 ft., 4 " 8 in.
4 " 6 ft. x 6 ft., 4 " 8 in.

Not glazed, 1 1/2 in. thick.

Delivered Prices

Quoted on application. State size and quantity wanted. No order too small to receive careful attention, and none too large for our facilities.

LOCKLAND LUMBER CO., Lockland, Ohio.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

SNIPS THE best for hair, curling, waving, etc. Kelly's Florists' Barbers and Flower Caters. 112 N. BROAD ST., CINCINNATI, OHIO.

Boston Florist Letter Co.

Manufacturers of FLOWERS, CUTTINGS, and ORNAMENTAL PLANTS. Sole agents for the State of New York.



This wooden box nicely stained and decorated, 10x20 1/2 inches in size, sections open for each size letter, gives a very fine order of 400 letters.

N. F. MCCARTHY, Treas. & Manager. 107 N. BOSTON, MASS.

MEYER GREEN SILKLINE.

Don't get Stringing, DRY-AT and SPAGNETS.

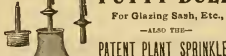


Will not fade, or rot like other colors. Made also in fancy colors for tying patterns, good for samples and prices.

JOHN C. BECKER & CO., 87 N. MARKET STREET, BOSTON, MASS., U. S. A.

SCOLLAY'S IMPROVED PUTTY BULB

For Glazing Sash, Etc., -ALSO THE-



For sale by your Seedman or sent, postpaid for \$1.00.

JOHN A. SCOLLAY, 71 & 73 Myrtle Ave., BROOKLYN, N. Y.

SEND STAMP FOR CATALOGUE

JOHN CONLEY & SON, MANUFACTURERS OF T. FOL

2 and 4 Dominick Street, NEW YORK.

RAFFIA

Of best White Quality, Braided. Direct from the Packers in Madagascar.

Apply for quotations to ANDRE L. CAUSSE, 108-107 Hudson St., New York.

GROW PLANTS IN

"Jadoo" Fibre. WATER THEM WITH "Jadoo" Liquid.

WELCH BROTHERS, DEALERS IN

FLORISTS' SUPPLIES,

9, 3 Beacon Street, - BOSTON. Wire Design, Woven Shades, Baskets, Immaculata, Case Flowers, Cut Flowers, Boxes, and all other supplies, at prices to meet competition.

PAPER Toophicks. Paper Bags. AND Waxed and Tissue TWINE. Papers--all sizes.

H. A. SOHL, 147 E. 42d St., NEW YORK.

PAPER Toophicks. Paper Bags. AND Waxed and Tissue TWINE. Papers--all sizes.

H. A. SOHL, 147 E. 42d St., NEW YORK.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

HIBISCUS

Twelve varieties, \$2.25 per 100; \$25.00 per 1000. By mail, 25c. per 100 additional.

TERMS CASH WITH ORDER.

R. H. MURPHY, Urbana, Ohio.

PANSY PLANTS.

This strain is unsurpassed for size, color and bloom. Large Clumps in bloom, \$1 per 100; \$8 per 1000.

Large Clumps in bloom, \$1 per 100; \$8 per 1000. Good Stock Plants ready for cutting, by mail, 25c. per 100; \$2.00 per 1000.

Wholesale Pansy Growers. Bristol Pa. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Houston, Tex.

In this climate, where so much grows out-of-doors the "good" time is nothing compared to that in the North. Amaryllis Johnson was in bloom everywhere and was used, I noticed in some of the churches.

Mr. Lubke sold all the flowers he had, and had a demand for lilies. There was some complaint that Easter lilies bloomed too soon. He had not much sale for decorative plants.

Mrs. Westgate reports trade in cut flowers very good, better than last year. Lilies bloomed too early, very few being left. She shipped ferns and Magnolia cut flowers to towns in the northern part of the State. She sold out even to common seasonal flowers.

Mrs. M. V. Wright shipped quantities of flowers to the up-country Texas towns; had not enough Easter lilies and callas to supply the demand; sold a thousand sweet peas, Blanche Ferry and Emily Henderson, but did not sell many plants for Easter.

Mr. Kusbach had calls for all the flowers he had—carrubras, roses, callas and lilies. He said the latter "bloomed" too soon for Easter. The cool weather had blighted the outdoor flowers—roses in particular.

Mr. Kusbach likes the Carrot rose, he thinks it will be the favorite for Texas. E. E. Eyer's supply of sweet peas, Blanche Ferry and Emily Henderson, which she commenced cutting April 6. She reports having enough of them for the demand.

S. E. B.



Butted Glass

This is no longer an experiment, it has come to stay. There are various ways of making butted glass, but the best way is with the

Clipper Bar.

With this bar you can make a roof that is absolutely free from drip, and glass cannot be torn out by the wind. Butted glass makes a tight roof, a warm house and saves fuel. It lasts longer, looks better and costs less than the old-fashioned roof. But do not think that this is the only bar we sell for it is not; we furnish what people want and there is nothing in greenhouse material that you cannot get from us, and of open-air-dried Cypress clear of bright sap, stained sap, knots and all other defects.

LOCKLAND LUMBER CO. LOCKLAND, O.

Write for Circulars or Estimates.

Mention paper

Standard Flower Pots.

Send for our New Price List with extra discounts. All our Pots, from 1 in. and upwards, have our Patent Elevator Bottom, which is a great advantage, as it allows perfect drainage.

A FULL LINE OF BULB PANS.

THE WHILLDIN POTTERY CO., 713 to 719 Wharton Street, PHILADELPHIA.

BRANCH HOUSES: } Kearney and Wendell Aves., Jersey City, N. J.

} Jackson Ave. and Pearson St., Long Island City, N. Y.

CALIFORNIA RED CEDAR

Never Decays.

A. DIETSCH & CO. 619 Sheffield Avenue, CHICAGO.

MANUFACTURERS OF RED CEDAR AND CYPRESS GREENHOUSE MATERIAL.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

SUMMER IN WINTER

By Using

Standard Greenhouse Boilers

One cent goes our Catalogue.

GIBLIN & CO., Utica, N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

STANDARD POTTS.

We are now ready to supply a superior quality of Pot in unlimited quantities. Catalogues and price lists furnished on application.

A. H. HEWES & CO., NORTH CAMBRIDGE, - MASS.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

STANDARD FLOWER POTTS.

We manufacture a full line of standard Flower Pots, Seed Pans, Cylinders, glazed and unglazed, for cut flowers; Lawn Vases and Hanging Vases.

Send for price list before ordering elsewhere.

Address HILFINGER BROS., Fort Edward, N. Y., or AUGUST RÖLKER & SONS, 126 S. 12th W. 2nd St., N. Y. City.

STANDARD FLOWER POTTS

In any quantity, and of the best quality. Get my price list before ordering elsewhere.

W. H. ERNEST, Station M. N. E., WASHINGTON, D. C.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Neponset Flower Pots

of Waterproof Paper, are sold as follows:

Terms—Net cash on order, or on order shipped by freight, add 50 cents cartage.

Size	Crates of 100	Crates of 100	Per 100	Per 100
2 1/2 inch	..... 100	..... about 20 lbs.	..... \$0 25	..... 25
3 1/2	..... 100	..... 34	..... 34	..... 40
4	..... 100	..... 42	..... 42	..... 50
5	..... 100	..... 50	..... 50	..... 60
6	..... 100	..... 75	..... 75	..... 80
8	..... 100	..... 150	..... 150	..... 150
10	..... 100	..... 150	..... 150	..... 150

Less quantities than full crates at 100 rates. F. W. BIRD & SONS, Manufacturers. Address orders to our General Agents,

August Rötker & Sons New York. P. O. Station E.

or E. J. FARQUHAR & CO., Boston, Mass. Boston Agent.



VALVES, FITTINGS AND VENTILATING APPARATUS. GOLDWELL WILCOX CO., Newburgh, N. Y.

Mention paper.

SPRAY PUMPS

The Best in the World.

Our Pumps are Used by the Leading Agricultural College and Experimental Stations in America.

PRICES \$2.00 TO \$16.00.

Send for Catalogue and Special Price List, CHARLES J. JAGER COMPANY, 174 W. 1st St., BOSTON, MASS.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Evans' Improved Challenge.

Roller bearing, self-oiling device, automatic, and extra light. It makes the IMPROVED CHALLENGER the most perfect sprayer in the market.

Write for catalogue and price before placing your order elsewhere.

Quaker City Machine Co., RICHMOND, IND.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

HOT BED SASH.

Our prices are the lowest. You throw away money if you buy these goods without getting our prices first.

THE BROCKWAY - SMITH CORPORATION, 146 Oxford Street, Lynn, Mass.

Mrs. H. H. Davis of Boston and Wm. J. Winkler of Glasgow, Wm. J. Winkler of Glasgow, Wm. J. Winkler of Glasgow.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Chadborn's Automatic Ventilator. CHADBORN, KENNEDY & CO. NEWBURGH, N. Y. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

CYPRESS IS MUCH MORE DURABLE THAN PINE. CYPRESS SASH BARS UP TO 8 FEET IN LENGTH OR LONGER. GREENHOUSE AND OTHER BUILDING MATERIAL. Send for our Illustrated Book "CYPRESS LUMBER AND TRUSES". Send for our Special Greenhouse Circular. THE A. T. STEARNS LUMBER CO., NEPONSET, BOSTON, MASS. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Modern Greenhouse Heating.

One of our boilers, 10,880 feet of two inch pipe, and sixty tons of coal will heat 22,400 feet of glass (four 20x200 feet double gable houses) to 65 degrees in coldest Winter weather; they have done it, and will do it for you—we guarantee it. Our boilers are not only the best of their kind, but the best made. They have the largest "firebrigt" direct surface, are the easiest cleaned, handled and set up; and from engineering facts, they are the ideal frictionless, economical water heating boilers of our day.

Plenty's Horticultural Works, 148-156 Randolph Ave., JERSEY CITY, N. J.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

CYPRESS GREENHOUSE MATERIAL. JOHN C. MONINGER CO. 412 to 422 HAWTHORNE AV. CHICAGO, ILL. ANY DESCRIPTION

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**LORD & BURNHAM CO.,**  
**HORTICULTURAL ARCHITECTS AND BUILDERS,**  
 STEAM AND HOT WATER HEATING ENGINEERS.  
 Plans and Estimates furnished on application.



Largest Builders of Greenhouse Structures. Six Highest Awards at the World's Fair.  
 Send four cents postage for Illustrated Catalogue.

**LORD & BURNHAM CO.,**  
 ARCHITECTURAL OFFICE, 160 FIFTH AVE., COR. 21st STREET, NEW YORK.  
 Factory: Irvington-on-Hudson, New York. Mention paper

**EVERY FLORIST OUGHT TO INSURE HIS GLASS AGAINST HAIL.**  
 For particulars address  
**JOHN G. ENLER, Secy, Saddle River, N. J.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**IMPROVED GLAZING.**  
**J. M. GASSER'S**  
**PATENT ZINC JOINTS**  
 For Butting Glass Without Laps.  
 Makes a Roof Air and Water Tight. Saves Fuel. No Breakage from Frost or Medium Sized Hail. Manufactured by

**J. M. GASSER,**  
 101 Euclid Avenue, CLEVELAND, OHIO.  
 Wholesale and Retail Florist.  
 Write for Prices and Circulars.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**GLASS**

FOR GREENHOUSES, CONSERVATORIES, GRAPERIES, HOTBEDS AND FLORISTS' USE GENERALLY, AT LOWEST RATES.

**L. HERRIS & SON,**  
 497 W. BROADWAY, NEW YORK, 82 LIBERTY ST., NEW YORK  
 Del. Boston and Bunker Sts.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

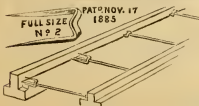
**GLASS!** For Greenhouses, Conservatories, Graperies, Hotbeds and all other purposes, at Lowest Rates. **GLASS!**  
**N. COWEN'S SON 392 & 394 West Broadway, New York.**  
 Formerly 154 and 156 No. Fifth Avenue.  
 Get our Figures before buying Glass. ———— Estimates Freely Given.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**GLASS FOR GREENHOUSES, CONSERVATORIES, GRAPERIES, HOTHOUSES AND HOTBEDS. GLASS**  
**VANHORE GRIFFEN & CO.**  
 Agents for CHAMBERS & McKEE CO., Jeannette Brands American Glass.  
 Importers of French Glass. 13, 15 & 17 LIGHT ST., AND 52, 54 & 55 VARICK ST., NEW YORK.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**GREENHOUSE GLASS.**  
 THE WOOD GLASS COMPANY,  
 226 N. SALINA ST., SYRACUSE, N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

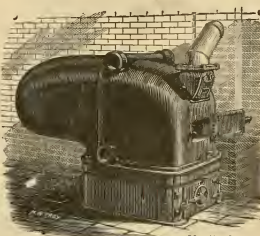


**THE VAN REYPER**  
**PERFECT GLAZIERS' POINTS**

No rights or lefts. Price per box of 1000, 60c. by mail, 75c.; in lots of 5000 by ex., 55c. per 1000  
**HENRY A. DREER, 714 Chestnut St., Phila., Pa.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**GREENHOUSE HEATING AND VENTILATING,**  
 Horticultural Architecture and Building.



Mention paper.

SEND 4c. POSTAGE FOR ILLUSTRATED CATALOGUE.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Hitchings & Co**

ESTABLISHED 1844.  
 233 Mercer Street, NEW YORK  
**FIVE PATTERNS OF BOILERS.**  
 NINETEEN SIZES,  
 Perfect Sash Raising Apparatus.  
 Greenhouses, Greenhouses, Etc., of Iron Frame Construction erected complete or the Structural Iron Work shipped ready for erection.  
 Iron Frames Benches with the "Perfect Drainage Bench Tile" or Slate Tops.

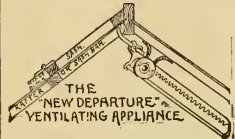
**PIPE VALVES**

Wrought Iron Pipe, Valves, Cocks, Fittings, also, for Steam and Hot Water; Rubber Mosa, Pumps and Wall Pumps.  
**WM. H. KAY, 42 Dry St., New York.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**HAVE YOUR COLLECTIONS MADE THROUGH THE NATIONAL FLORISTS' BOARD OF TRADE, 271 BROADWAY, NEW YORK.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**IF YOU WANT A GOOD SASH LIFT**  
 For a Very Little Money Get

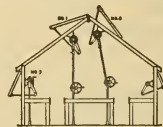


For Descriptive Catalogue Send to  
**J. D. CARMODY, Evansville, Ind.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

SEND FOR OUR NEW CATALOGUE, WHICH SHOWS  
**The New Automatic Cable Ventilator**  
 As it is put up the house complete. We also give you prices with a guarantee that each machine sent out will operate your house successfully. Roll machines now made in two sizes.  
**A. Q. WOLF & BRO., Dayton, Ohio.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**STANDARD VENTILATING MACHINE.**  
 NONE EQUAL IT IN Strength AND Durability. Send for Catalogue.  
**E. HIPPARD, YOUNGSTOWN, OHIO.**  
 NOTHING Flimsy OR Complicated about it.



WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**MASTICA**

FOR GLAZING GREENHOUSES. SUPERIOR TO PUTTY IN EVERY WAY.  
 Is not hardened by the extreme heat or cold that a greenhouse is constantly subjected to both inside and out. Mastica is adhesive and remains permanently elastic so that it is not forced out of place by expansion and contraction of the woodwork. Houses glazed with Mastica do not need repainting, thus saving time and expense. With Mastica can "bed-in" or use on the outside, but with a machine only.  
 Highest Award and Medal in Glazing Machines were given

**HIGHEST AWARD OF SOCIETY OF AMERICAN FLORISTS AT PITTSBURGH, 1895.**  
 Put up in gallons, \$1.00. Half gallons, 60cets. Quarter gallons, 35cets.  
 Mastical Glazing Machines, \$1.00 each.  
 Send for full descriptive circular and testimonials. Agents in all the principal cities.

**F. O. PIERCE CO., Sole Manufacturers, 170 Fulton St., New York.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Ochsby Ventilating System**  
**F. A. Ochsby**  
 71 Summer St.  
**MELROSE, MASS.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

J. K. ALLEN, Wholesale Commission Dealer in CUT FLOWERS, 87 W. 28th St., New York.

W. S. ALLEN, 17 West 28th St., New York.

FITZGERALD & HAMMOND, Wholesale Commission Dealers in CUT FLOWERS, 115 West 30th Street, Consignments Solicited. NEW YORK.

FORD BROS. WHOLESALE FLORISTS, 111 West 30th Street, NEW YORK.

WM. H. GUNTER, Wholesale Florist VIOLETS and CARNATIONS a SPECIALTY. Consignments Solicited. 30 West 29th St., New York.

MICHAEL A. HART, Wholesale & Commission Florist, 118 W. 80th St., New York.

H. A. HOFFMANN, Wholesale Florist 54 W. 28th St., NEW YORK.

EDWARD C. HORAN, Wholesale Florist, No. 34 W. 29th St., New York.

JULIUS LANG, Wholesale Florist 53 West 30th St. NEW YORK.

FRANK HILLANG, Wholesale Commission Dealer ... in Cut Flowers ... 408 East 34th St., New York City.

W. E. LYNCH, Wholesale Dealer in Cut Flowers.

We are Headquarters for Royal Carnations and Roses, Violets, Valley, Romanas, Smilax, Adiantum, Best selected stock reserved for shipping orders. Send us your name for our Semi-Monthly Price List. All orders given prompt attention.

19-21 RANDOLPH STREET, CHICAGO.

CHAS. W. McKELLAR, WHOLESALE COMMISSION FLORIST

Largest and best market in Chicago. Consistent supply of all seasonable flowers. Consignments of first grade goods solicited. Complete stock of Florists' Supplies, Wire, etc. All orders given prompt attention. Telephone, Main 1139. 45, 47, 49 WABASH AVENUE, CHICAGO, ILL.



Table with columns: NAMES AND VARIETIES, NEW YORK, BOSTON, PHILADELPHIA, CHICAGO, ST. LOUIS. Lists various flower types and prices.

For Prices of Fancy and Special Stock see our Correspondence Columns. Prices are for quantities of one hundred unless otherwise noted.

REINBERG BROS., Wholesale Growers of Cut Flowers. . . 500,000 Feet of Glass. . .

We can fill all orders on short notice with all leading varieties of ROSES and CARNATIONS. We are headquarters for fine AMERICAN BEAUTIES.

SALESROOM 51 Wabash Avenue, CHICAGO, Ill.

SAMUEL S. PENNOCK, WHOLESALE FLORIST. YELLOW DAISIES by the thousands, fine flowers, long stems. WHITE AND PINK SWEET PEAS, \$1.50 per 100.

We are still headquarters for finest and best varieties of CARNATIONS. 1612-1614 Barker St., Bet. Chestnut & Market Sts. Philadelphia, Pa.

Illinois Cut Flower Co., J. B. DEAMUD, Manager. WHOLESALE COMMISSION FLORISTS, 51 Wabash Ave., Chicago.

THE NEW YORK CUT FLOWER CO. 119-121 West 23d Street, 112-114 West 24th Street, Telephone 738, 12th St., NEW YORK.

PURDY & BLAUVELT, Wholesale and Commission Dealers in CUT FLOWERS. MADEIRA FEEN FRONDS a SPECIALTY. 87 WEST 30TH STREET, New York.

A. & F. ROLKER, WHOLESALE DEALERS IN CUT FLOWERS. 53 West 28th St. Telephone 2379 38th St. NEW YORK.

W. F. SHERIDAN, Wholesale Commission Dealer in CUT FLOWERS. 39 West 25th St., New York.

FRANK H. TRAPPY, CHARLES SCRENCK & TRENDLY & SCRENCK, Wholesale Florists, 38 W. 28th St. and CUT FLOWER EXCHANGE, NEW YORK.

JOHN YOUNG, Wholesale Florist, 51 West 28th St., NEW YORK.

WM. J. BAKER, Wholesale Florist 1432 So. Penn Square, Philadelphia, Pa.

DUMONT & CO., WHOLESALE FLORISTS. CARNATIONS a SPECIALTY. No. 1305 Filbert St., Philadelphia.

EDWARD REID, Wholesale Florist - FINEST VARIETIES. Roses, Carnations, Violets. No. 40 South Sixteenth Street, Philadelphia.

ROGERS PARK FLORAL CO., Wholesale Growers of Cut Flowers OFFICE AND SALESROOM. 41 WABASH AVE., CHICAGO.

**Wholesale Florists**  
 JOBBERS IN  
 THE FLORISTS' SUPPLIES.  
 N. F. McCarthy  
 Florist's Vases.  
 Horticultural Accessories.  
 84 HAWLEY STREET, - BOSTON.

**GEO. A. SUTHERLAND,**  
 Successor to WM. J. STEWART,  
**CUT FLOWERS and FLORISTS' SUPPLIES**  
 WHOLESALE.  
 67 Bromfield St., Boston, Mass.

**City Hall Cut Flower Market**  
 WELCH BROS., Props.  
 Regular Consignors Given Space Free of Charge. Send us to growers wishing to sell their own goods.  
 Flowers Shipped to all Points.  
 ...SEND FOR PRICE LIST...

**W. ELLISON,**  
**Wholesale Cut Flowers,**  
 Florist Supplies. Wire Designs.  
 2745 Franklin Ave., ST. LOUIS, MO.

**CHAS. G. FLECKENSTEIN,**  
**Wholesale Flowers,**  
 1323 PINE STREET,  
 ...ST. LOUIS, MO.

**C. A. KUEHN,**  
**WHOLESALE FLORIST,**  
 1122 Pine St., St. Louis, Mo.  
 A COMPLETE LINE OF WIRE DESIGNS.

**C. W. WORS,**  
**Wholesale Florist,**  
 313 N. LEFFINGWELL AVENUE,  
 ST. LOUIS, MO.  
 FINE ROSES - Shipped carefully to all parts of the country.

**HEADQUARTERS** in Western New York. Try us.  
**ROSES, CARNATIONS and ALL REASONABLE FLOWERS.**  
**WM F. KASTING,** Wholesale Commission Florist  
 495 Washington Street, BUFFALO, N. Y.  
 Also Dealer in Florists' Supplies & Wire Designs

**E. G. HILL & CO.,**  
**Wholesale Florists,**  
 RICHMOND, INDIANA.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CHOCOLATE COOLER CO.,**  
 GRAND RAPIDS, MICH.  
 Manufacturers of  
**FLORIST'S REFRIGERATORS.**  
 Send for Circular.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**TOBACCO STEMS** 75 Cts. per 100 lbs.  
 Balance weigh about 60 lbs.  
 THE BEST AND CHEAPEST MUST BE FRESH, NOT OLD DIED UP STEMS. You can get the best of H. A. Stoothoff, 315 Madison Ave., N. Y.

**M. RICE & CO.,**  
 Importers and Manufacturers of  
**FLORISTS' SUPPLIES,**  
 25 N. 4th St., Philadelphia, Pa.  
 NEW FALL CATALOGUE NOW READY  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

FOR SALE BY Seed Stores.  
**THE BEST FOR ALL Florists.**  
**CROSE LEAF EXTRACT OF TOBACCO INSCTIONS**  
 For Free Pamphlet, Write to:  
 Louisville Spruit & Sons  
 Louisville, Ky.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**ASPARAGUS PLUMOSUS NANUS,**  
**W. H. ELLIOTT,** - Brighton, Mass.  
 Cut Strings, 8 to 10 feet long, 50 cts. each.  
 Shipped to any part of the country.

**THE JOHN J. PETERS COMPANY**  
 (INCORPORATED.)  
**PULVERIZED COMPRESSED**  
 A Quick Germinator and Crop Former.  
 Beats Every Chemical Fertilizer on Earth.  
 Pure Sheep Fertilizer permanently improves the soil.  
 Matures the largest and best crop of any kind and lasting in its action.



**FACTORY:**  
 Little Ferry, New Jersey.  
**OFFICE:**  
 Long Island City, New York.

**NATURAL. OORLESS** **CLEAN TO HANDLE.**

**"JADDO" FIBRE AND LIQUID**

"Jaddo" Fibre!  
 A new potting material.

Seeds germinate more quickly than in earth.

Greater perfection easily attained.

Suits all kinds of plants.

Is much lighter than earth.

Less frequent watering required.



**TRADE MARK**

**REGISTERED**

Protected by Letters Patent.

Concentrated "JADDO" LIQUID is the cheapest Fertilizer sold. Both meat and drink to plants. Revives drooping plants, strengthens the weak and nourishes the strong; above all, it increases the size, causes greater profusion of bloom, and heightens the colors of all Flowers and Plants. Can be used on Flowers or Plants that are grown in Earth or "JADDO" FIBRE.

**SIMPLY INVALUABLE IN POT CULTURE!**

*The supply at the present time is limited to 50 Tons Fibre and 1500 Gallons Liquid per month.*

**WE ARE NOW BOOKING ORDERS FOR MAY DELIVERY**

Testimonials and Prices furnished on application to

**THE AMERICAN JADDO CO.,**

811, 813, 815 Fairmount Ave., PHILADELPHIA, PENNA.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CUT SMILAX**  
 12 cents per string.  
**THE NATIONAL PLANT CO.,**  
 Dayton, Ohio.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CUT SMILAX**  
 Choice 6 foot strings at N. Y. Market rates. Annual output 50,000 strings.  
**ADIANTHUM CUNEATUM**  
 Extra fine fronds, \$1.00 per 100.  
**CUSTAVE SCHRADER**  
 Cut Flower Exchange, and Hoffman Boulevard, New York. New York, L. I., N. Y.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**10,000 HARRIS**  
 \$9.00 per 100 buds and blooms in pots.  
 \$8.00 per 100, cut.  
 It will sell for those who order, to order before they are thoroughly opened, as they will ship better.  
 Cash With Order.

**WM. A. BOCK,**  
**NORTH CAMBRIDGE, MASS.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE  
 ON OR ABOUT MAY 15  
**WE MOVE**  
 To 76-78 WABASH AVE.  
 CHICAGO, ILL.

Where we will Exclusively occupy space, 40x120 feet, aving us the finest and largest Cut Flower Ss arseroom in the West.  
 With increased facilities in every way we hope to merit our customers confidence and patronage to an even greater extent than so generously extended during the past eight years for which we wish here to return our sincere thanks. Very respectfully,

**E. H. HUNT.**  
 Immediate correspondence solicited with growers of high grade stock for consignment.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

30 cents a crate for each 800 feet of floor space.

**Kill the Bugs!**  
 THE NIKOTEIN  
 Does not injure the most sensitive plants. Endorsed by prominent Florists. Used for fumigation or spraying indoors or out. 100 pounds of tobacco in one plot of flowers, held by enemies Greater free. REAGRA DIP CO., CHICAGO.  
**Quickly Does It.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**ANDREW H. WARD,**  
 Consulting Agricultural Chemist,  
 153 Milk Street, Boston, Mass.

Fertlizer formulas furnished based on required conditions. For sale at market rates: Powdered Phosphate of Lime, Dissolved Bone, Ammonia, Potash, and Soda salts.  
 Indecorous Mixed Fertilizers, with Potash Salts, sold at Experiment Station Valuations.  
 When Soda is substituted for Potash the price per ton is 20 per cent. less than station valuations, losing the value of the alkaline action of soda as equivalent to that of potash.

**ANALYSES GUARANTEED.**  
 Circulars sent upon application.

For 10 cents, cash or postage stamps, I will send inclusive Ward's Endorsed Concentrated Soluble Plant Food.

**ENOUGH FOR 100 PLANTS.**  
 Your plants will blossom more full, and remain longer in bloom. The fragrance is increased. The leaves grow larger, and have a deep, rich color.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE



# THE FLORISTS' EXCHANGE

*We are a straight shoot and aim to grow into a vigorous plant.*

A WEEKLY MEDIUM OF INTERCHANGE FOR FLORISTS, NURSERYMEN, SEEDSMEN AND THE TRADE IN GENERAL.

VOL. IX. NO. 19.

NEW YORK, MAY 8, 1897.

One Dollar Per Year.

## ASSORTED FERNS FOR JARDINIERS

We have ready for immediate delivery a fine assortment of the best hardy varieties of Ferns, such as are best adapted for filling jardinières, and for table work. **Strong Plants, 2 inch Pots, \$4.00 per 100; \$30.00 per 1000.**

## ADIANTUM CUNEATUM.

We have a specially fine lot of this popular variety, ready for immediate shipment, from **3 inch Pots, at \$7.00 per 100; \$65.00 per 1000.**

## LATANIA BORBONICA.

Fine strong plants, from **2 inch Pots, ready to shift into 3 inch Pots, at the exceptionally low price of \$4.00 per 100; \$25.00 per 1000.**

## PITCHER & MANDA, Short Hills, N. J.

JOHN N. MAY, Receiver.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# LOOK AT THESE BARGAINS

**SPEAK QUICK IF YOU WANT THEM.**

We offer at these low prices in order to close out our stocks, as it is getting late in the season. Although the prices are exceedingly low, the goods are first-class in every respect; low prices are not at the expense of quality. If you can use any of these bargains, let us have your order before stocks are gone.

## DOUBLE TUBEROSE BEGONIAS.

In Separate Colors—White, Pink, Scarlet and Yellow.

We offer these at only **\$6.00 per hundred**—a little more than the price of Single Begonias. This is an opportunity to secure the finest strain of Double Begonias at a nominal price.

## TUBEROSE PEARL.

We have a fine lot of very fine bulbs in the very best possible condition—clean, dry, and hard, free from scale, and in perfectly sound condition in every respect—bulbs running well up to size. We offer these at **\$1.00 per hundred; \$6.00 per thousand; 5000 lots at \$5.00 per thousand.**

## COCOS WEDDELIANA.

Fresh Seed in Perfect Shape. We offer this as long as unsold at **\$6.00 per thousand.**

# F. R. PIERSON CO.,

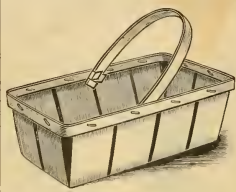
TARRYTOWN-ON-HUDSON, NEW YORK.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# HIGH GRADE SEEDS AND BULBS

## Verbena Baskets.

Strong, well made, with handles,  
\$2.35 per 100. Special prices for large lots.



## Smilax String.

The best String in the market for this purpose. 75c. per box (6 spools, 200 yards each). Special price for large lots.



## IRON BOUQUET HOLDERS.

Tulip shape, No. 4, 20 cts.; No. 5, 25 cts.; No. 1, 35 cts. each.  
Tulip shape, galvanized, No. 4, 20 cts.; No. 5, 35 cts. No. 1, 45 cts. each.  
Lily shape, No. 0, 20 cts.; No. 6, 30 cts. each.  
Lily shape, galvanized, No. 0, 20 cts.; No. 6, 50 cts. each.

## F. E. McALLISTER CO. Seed and Bulb Merchants, 69 Cortlandt St. N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# Cannas Fine Started Plants.

**Burbank,** the grand yellow, each, 75c.; 6 for \$4.00.  
**Italia,** grand scarlet and yellow, each, 50c.; 6 for \$2.50.  
**Austria,** Damians yellow, each, 20c.; 6 for \$1.00.  
**6 Each of above Three for \$7.00.**

**Florence Vaughan,** Chicago, **Alphonse Bouvier,**  
**Eldorado,** **Sophie Buchner,** **Madam Crozy,**  
**Explicateur Crampel,** **Secretary Stewart,**  
And all the leaders in 3 inch pots, at 4c. to 10c. each.  
Per 100, well assorted, our selection, \$6.00.

**Rose Pres. Carnot,** Very choice stock, grown by Mr. E. Asmus. Per 100, \$15.00; per 1000, \$125.00.  
**Rose Yellow Rambler,** 2 1/2 inch. Per 100, \$15.00; doz., \$2.50.  
**Dahlias,** Strong field roots, excellent mixture, to color, our selection. Per 100, \$1.00.  
**Nasturtium Seed,** The New French Strain, "Big Bricks of Mine. Gaucher," finest of the large growing strains, free flowering, excellent variety of colors. It will pay to plant it freely around your houses and grounds. 3 1/2 lb., 50c.; lb., \$1.75 postpaid.

## Forcing Bulb Prices

(For Fall ready. Send for our estimates.

# 14 Barclay St. VAUGHAN'S SEED STORE 84-86 Randolph St. N. Y. CITY. CHICAGO.

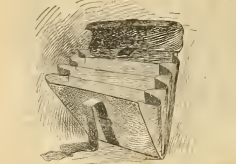
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**EVERY FLORIST OUGHT TO INSURE HIS CLASS AGAINST RAIL.**

For particulars address JOHN G. ESLER, Sec'y, Saddle River, N. J. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**HAVE YOUR COLLECTIONS MADE THROUGH THE NATIONAL FLORISTS' BOARD OF TRADE, 271 BROADWAY, NEW YORK.** WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CANNAS**—Palm Marquart, r.d. L. E. Bally, yol-100 low, spotted with red; both fine bed-100 per dot; 12 per 100. These are well rooted, tops 8 to 10 in. high, and ready for 4 in. pots. Cash with order. A. J. BALDWIN, Newark, O. WHEN WRITING MENTION THE FLORISTS' EXCHANGE



**YOUR BOOK**

Cannot be filled unless you take advantage of this offer.

- Gladiolus, fine mixed, all colors, \$1 per 100; \$7.50 per 1000.
- Gladiolus, white and light, mixed, \$1.50 per 100; \$15.00 per 1000.
- Begonias, tuberosa rooted, separate colors, \$3.00 per 100; \$28.50 per 1000.
- Lily Asiaticum, 3 1/2 in. fine bulbs, \$6 per 100; \$55.00 per 1000.
- Lily Album, 8 1/2 in. fine bulbs, \$7.00 per 100; \$65.00 per 1000.
- Tuberose Pearl, lat size bulbs, \$1.00 per 100; \$7.00 per 1000.

**Insecticides.**

Tobacco Dust, Tobacco Strms, Bordeaux Mixture, Gubard Compound, White Oil Soap, Hellebore, etc. Prices on application.

**WM. ELLIOTT & SONS**  
NEW YORK.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

MRS. THEODORE B. SHEPHERD, Hybridizer and Grower of Novelties, offers the entire stock of some Grand New Begonias, New Abutilons, and a New Dwarf Double Fuchsia. Correspondence solicited. Ventura by the Sea, California.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**BUY FROM THE GROWERS DIRECT**

**ALL BULBS AND PLANTS**

For Summer and Fall Delivery, Quoted at Very Low Rates.

FREE ON BOARD CARS OR BOATS  
NEW YORK CITY.

**HULSEBOSCH BROS., Englewood, N. J.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**HEADQUARTERS FOR**

**Callas and Freesia Bulbs**

**PAMPAS PLUMES,**

Palm, California Tree and Flower Seeds.

Please let us book your orders for

BULBS at once . . . . .

ASK FOR SPECIAL PRICES.

**GERMAIN FRUIT CO. Los Angeles, Cal.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**NOW IS THE TIME TO ORDER**

**FRESH STOCK,**

JUST ARRIVED.

**AMARYLLIS JOHNSONII,**

EXTRA LARGE BULBS.

Send me your list of such stock you will need the coming season, and I will quote you my bottom prices for first-class goods.

**F. W. O. SCHMITZ,**  
JERSEY CITY, N. J.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**A. POINTER AND PROFIT**

**Every Florist is Looking for the Above Firm.**

**HOW TO FIND THEM:**



Do not hustle all of your Gladiolus Bulbs into the ground early in the season and cut all your blooms in August. Plant at intervals of two weeks, reserving a good proportion until the last of May and June. Planted late they will come into bloom in the cool of early Autumn, producing the finest spikes at a season when flowers are scarce and sell readily. We can still supply a few thousand H. G. Seedlings at

**\$8.00 per 1000; 2d size, \$5.00 per 1000.**

Beautiful light colors. Nothing better.

N. B.—If you are not in a hurry for your order, have them come by freight when ordered in quantities of a thousand or more.

**CASH WITH ORDER.**

**CUSHMAN GLADIOLUS CO.**  
**EUCLID, OHIO.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Send us **LIST OF YOUR WANTS** FOR THE . . . COMING SEASON **NOW.**

Do not Delay, as **Early Orders** will always secure the **Best**



We will make you bottom prices on Freesias, Calla, Ethiopia, Little Gem, Japan **LONGIFLORUM** Eximium (best for forcing), Romans, Dutch Bulbs, Japan Auratum, Rubrum, Album, etc. Tree Fern Stems, Palm Seeds.

We offer an extra fine strain of Hardy Japanese Gladioli, finest mixture, at \$2.00 per 100.

Send for Price List if the mail has not brought it to you, and do not throw in the **WASTE BASKET.**

Address all communications to

**H. H. BERGER & CO., San Francisco, Cal.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CUCAS & BODDINGTON CO.,**  
Importers, Exporters and Growers Agents of Plants, Seeds and Bulbs,  
501 and 503 W. 13th St.,  
Telephone Call, 403 18th St. NEW YORK CITY  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

- Amaryllis Formosissima, \$8.00
- Milla biflora, \$8.00
- Pancratium, per 1000, \$8.00
- Cooperia Drummondii, per 1000, \$8.00

WRITE FOR PRICE LIST.

**WILLIAM TELL, Austin, Texas.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**SEEDS for Profit**  
FLORISTS' SEEDS  
**Sweet Peas**  
Wholesale Catalogue on application.  
**WEBER & DON** Seed Merchants  
114 Chambers St., New York City.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**BULBS.**

Gladioli, choice mixed	80.85
Madeira Vine Roots	75
Tuberose, Pearl 4 1/2	60
Orchids, fine mixed	60
Calladium, medium	50
Bulbs, mixed colors	50
Bulbs, mixed colors	50

**H. G. FAUST & CO., 61 & 63 N. Front St.,**  
**SWEEET PEAS & BULBS BUREAU, PHILADELPHIA, PA.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**BURPEE'S SEEDS**  
PHILADELPHIA  
WHOLESALE PRICE LIST FOR FLORISTS AND MARKET GARDENERS

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**SUMMER FLOWERING BULBS.**

**CHAS. H. ALLEN, Floral Park, N. Y.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**WE ARE HEADQUARTERS ON BULBS FOR FORCING, FLOWER SEEDS FOR FLORISTS, ENGLISH MUSHROOM SPAWN.**  
SPECIAL PRICES ON APPLICATION.  
**JOHN GARDNER & CO.,** Seedsmen,  
Box 1306, Philadelphia, Pa.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**PALM Seed.** FRESH ON HAND

Area latifolia	Per 100	1000	5000
rubra	\$1.00	\$10.00	\$50.00
Guineensis	1.00	10.00	50.00
virgata	.50	5.00	25.00
rotunda	1.00	10.00	50.00
Phenax canariensis	.50	5.00	25.00
Seedorfia elegans	1.00	10.00	50.00
Seedorfia elegans	1.00	10.00	50.00
Asplenium platyneuron (true)	1.50	15.00	75.00
Brassica latifolia	.50	5.00	25.00

**J. L. SCHILLER, Rutherford, N. J.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

SEED TRADE REPORT.

Points and information from seedmen, and all interested in the column, solicited. Address Editor Sam Thayer, care of "Flourist's Exchange," P. O. Box 100, New York.

Havanna, Ohio.—Frank Ford, seedman, died on April 6 last of heart trouble. He was sixty-five years of age.

Seeds of the State Trade.—The purchase was made in Germany and the seed is to be sold to farmers at the same price as the State Trade. The purchase was made in Germany and the seed is to be sold to farmers at the same price as the State Trade.

Local reports indicate very heavy sowing of corn. Catalogue trade continues good. L. M. Lay & Co. have completed their catalogues for 1907.

Irigrope Notes.

An Irigrope Harvest Anticipated. Everything with us appears to be "made in Italy" just now, owing to the bulk of our spring sowings are now made.

In bird seeds, canary is quite an interesting feature. Just now, owing to the outbreak of the war between Greece and Turkey, no one can tell how long the supply of canary seed will last.

In bird seeds, canary is quite an interesting feature. Just now, owing to the outbreak of the war between Greece and Turkey, no one can tell how long the supply of canary seed will last.

Van Pruisen-Kesbergen, Bookshop (Representatives: Louis A. Koert, Boston).—Trade List of Dutch Plants.

Wm. Atkins Burpee & Co., Philadelphia.—Catalogue of plants, with descriptive notices as to training, treatment, etc.

Wm. H. & C. B. Beattie, N. Y.—Illustrated Catalogue of Palms and other Decorative Plants, etc., with handsome colored plates of cactus and Japanese tree.

QUESTION BOX.

Answers Solicited from Those Who Know.

(105) A Difficulty in Heating.—Last winter I changed the piping in one of my greenhouses in order to secure increased radiating surfaces.

(106) Stem Rot on Marguerite Carnations.—Alabama.—The difference in climate is the main factor here and Alabama, and since nothing has been said in regard to the care and culture of the plants, we best avoid not.

(107) He Wants Free Seeds.—Will you kindly tell me what must apply for the free seeds distributed from Washington?

Care of Coil Boiler.—Professor Tait speaks of a coil heater doing good service if properly cared for. What would be proper care for such a heater?

In setting of the coil care should be taken to avoid pockets in which the soil and ashes will collect about the pipes, and above all there should be one or more "clean-out" doors so that the dirt and ashes will come out.

The smoke pipe should also be taken off, cleaned and put away in a safe place. The plant should not only follow the line of the smoke pipe, but I have thought the pipe should be placed so the boiler than when the pipe was replaced.

Stem rot on Marguerite Carnations.—Alabama.—The difference in climate is the main factor here and Alabama, and since nothing has been said in regard to the care and culture of the plants, we best avoid not.

If the soil is poor, make it rich. A half-starved plant is like a half-starved animal and will flourish in weak-ened, it is extremely susceptible to disease.

(107) He Wants Free Seeds.—Will you kindly tell me what must apply for the free seeds distributed from Washington?

To obtain free seeds apply to your Congressman. The purpose for which they are distributed is to give your Congressman a pull among his constituents at the expense of the people of the entire country.

During the recent freeze quite a good deal of damage was done among garden truck, and also to some perennials that had got a good start, especially the Crown Queen roses.

Rochester, N. Y.

During the recent freeze quite a good deal of damage was done among garden truck, and also to some perennials that had got a good start, especially the Crown Queen roses.

COLEUS (Crispa Verschoeffii, and best yellow).—Beautiful plants, 25 cts. per 100.

D. K. HERR, Rider Ave., Lancaster, Pa.—When writing mention THE FLORIST'S EXCHANGE.

GOOD STOCK CHEAP.

Strong 3/4 inch stick in splendid shape. PER 100 BEGONIA REX, in good assortment \$3 00

VEVERFEW, Little Gem 2 00

SWAINSONA ALBA 3 00

CARNATIONS, well established potted plants in the following: Madonna, Fred Rose, etc.

JOHN A. DOYLE, Springfield, Ohio.—When writing mention THE FLORIST'S EXCHANGE.

4 NOVETTES 4

CHRYSAEUMS. Rooted cuttings now ready, thoroughly well-rooted. Mrs. Wm. B. Hild, Mrs. Montmorency, etc.

GEORGE J. HUGHES, Berlin, N. J.

FINES VERBENAS IN BUD

Many Fine Varieties added to Our Collections. Best Mammoth, per 100, \$1.00; per 100, \$1.00.

ROSES.

American Beauty, 1 1/2 inch pots, per 100, \$1.00.

CHRYSAEUMS.

STRONG ROOTED CUTTINGS.

Crispa Verschoeffii, Golden Bedder, 100 1000

MISCELLANEOUS PLANTS.

Ready for immediate sales. 100 Alternanthera variegata, each cuttings \$3 00

WOOD BROS., Fishkill, N. Y.

# Carnation Cuttings

Strong and well rooted, of the following varieties: Jubilee, Triumph, Armadillo, Alaska, Bridgman, Dean Hole, Goldfinch, Lizzie McGowan, Alice, Albert, Meteor, Peach Blow, Rose Queen, Silver Spray, Wm. Scott, Uncle Jack.

**PRIMULAS**, 3/4 inch, \$2.00 per 100.  
Send for list and prices on large lots.  
Logan Ave. Greenhouses, - Danville, Ill.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## HEBB'S CARNATIONS.

**YOU RUN NO RISK.**  
If the Cuttings are not satisfactory, you return them at my expense. Unlimited quantities at reasonable prices.  
**Varieties.** - McGowan, Alaska, Ivory, Harrison's White, Scott, Drybrook, A Bundance, Triumph, Bridgman, Della Fox, Victor, Emma Wacher, Portia, Fred Donner, Calliope, Wm. Scott, Crispin, Sally, Buttercup, Eldorado, Keller and Armadillo.

**Pansies. Smilax. Violets.**  
**ALBERT M. HEHR, L. B. 436, Lancaster, Pa.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# Carnations!

(Rooted cuttings now ready.)  
Mayor Flaggs, Meteor, McGowan, Drybrook, Scott, Fortia, and other good ones.  
**Good Healthy ROSES for Spring Stock** Delivery.  
Send for prices list.

**CUT ROSES and Carnations always in stock.**  
**H. DALE** - Brampton, Ont.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**A MISTAKE,**  
to delay your orders for  
**MINNIE COOK.**  
Price should be \$3.00 per 100; \$25.00 per 1000.  
**MEADOW VIEW GREENHOUSES,**  
PARSIPPANY, N. Y.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# Carnations, Etc.

**HIGH GRADE ROOTED CUTTINGS.**  
Write for price list.

**H. WEBER & SONS,**  
P. O. Box 67, OAKLAND, Md.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CARNATIONS AND ROSES**  
Strong, well-rooted cuttings of Carnations, as per ad during months of April, Strong, Alice, Bridgman and Bridgman's Rose, ready to plant, \$5.00 per 100.  
**Large Primulas, 1 1/2 inch, \$2.00 per 100; 3 inch, \$3.00 per 100.** All varieties, rooted and ready to plant, \$4.00 per 100.  
**Large Violets, 2 1/2 inch, \$2.00 per 100; 3 inch, \$3.00 per 100.** All varieties, rooted and ready to plant, \$4.00 per 100.  
**Large Pansies, 2 1/2 inch, \$2.00 per 100; 3 inch, \$3.00 per 100.** All varieties, rooted and ready to plant, \$4.00 per 100.  
**Large Smilax, 2 1/2 inch, \$2.00 per 100; 3 inch, \$3.00 per 100.** All varieties, rooted and ready to plant, \$4.00 per 100.  
**Large Violets, 2 1/2 inch, \$2.00 per 100; 3 inch, \$3.00 per 100.** All varieties, rooted and ready to plant, \$4.00 per 100.  
**Large Pansies, 2 1/2 inch, \$2.00 per 100; 3 inch, \$3.00 per 100.** All varieties, rooted and ready to plant, \$4.00 per 100.  
**Large Smilax, 2 1/2 inch, \$2.00 per 100; 3 inch, \$3.00 per 100.** All varieties, rooted and ready to plant, \$4.00 per 100.

**CEO. M. EMMANS, Newton, N. J.**

# MORELLO

The New Scarlet.  
From soil.

**HOPP & LEMKE,** East Grand Rapids, Mich.

# GALLERT & CO.

# CARNATION GROWERS

**COLMA, SAN MATEO CAL.**

**CARNATIONS, ROOTED CUTTINGS**  
of all kinds \$2.00 per 100. Rooted and ready to plant, \$5.00 per 100. Violets var., 2 1/2 inch, \$2.00 per 100; 3 inch, \$3.00 per 100. Pansies var., 2 1/2 inch, \$2.00 per 100; 3 inch, \$3.00 per 100. Smilax var., 2 1/2 inch, \$2.00 per 100; 3 inch, \$3.00 per 100.  
**WHITTON'S**  
WHOLESALE FLORISTS, City and Cross Sts., Utica, N. Y.

# CARNATIONS

Rooted cuttings all sold except **Opelia**, **Thos. Cartledge**, **Rose Queen**, **Annie Lorraine**, **Scott**, **Portia**, **Sweetbrier** and **McGowan** at \$1.50 per 100; \$10.00 per 1000.  
**CHRYSANTHEMUMS** - In quantity, from 2 inch pots, \$3.00 per 100. Cash with order, please.  
**HYDRANEA OTAKSA**, from 2 inch pots, \$3.00 per 100.  
**JOHN HACKETT & CO., 62d St., near Elmwood Ave., PHILADELPHIA, PA.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# NEW YELLOW CARNATION MAYOR PINCREE

# BEST YELLOW TO DATE.

Ready Now. \$1.50 per dozen; \$10.00 per 100; \$75.00 per 1000.

FOR SALE BY -

**JOHN BREITMEYER & SONS, THE COTTAGE GARDENS,**

Miami and Stratford Aves., DETROIT, MICH. QUEENS, L.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE



**Harrison's White.**  
NEW CARNATION. SPORT FROM WM. SCOTT. 4,000 SOLD UP-TO-DATE. All leading Carnationists are purchasers.  
Strong, vigorous grower, requiring no support.  
Described and Illustrated in *Florists Exchange*, No. 21, page 1044.  
COME AND SEE IT.  
Price: \$10.00 per 100, \$75.00 per 1000.  
Cash or satisfactory reference. All orders filled in rotation.

**JOHN HARRISON,** Newark, N. J.  
739 Bergen Ave., Aves. Greenview JERSEY CITY, N. J.  
Take Bayonne or Greenview Car from Pennycuik to R. R. Ferry get off at Hildwell Ave.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# BATHS CARNATIONS

The following selection of Winter Flowering Carnations contains all the newest and most profitable market varieties yet introduced, they are all exceptionally vigorous, the flowers are large, with perfect calyx, and most profuse bloomers.

- CANARY BIRD**, Large yellow, with a bright scarlet edge, the flower in full and well formed, \$1.50 per doz.; \$14.00 per 100.
- DUKE OF YORK**, Flowers very large and full, on long stiff stems, color very rich velvety scarlet-crimson, clove perfumed. The plant is exceptionally vigorous. Certified R. H. S. London. \$1.25 per doz.; \$5.00 per 100.
- HENRY GIBBONS**, Flowers large and full, of a fine crimé, continuous and very free bloomer, continuous constitution. \$1.75 per doz.; \$12.00 per 100.
- LEONIDAS**, A magnificent variety, bright crimé-scarlet, large flower; growth vigorous and very free. \$2.00 per doz.; \$15.00 per 100.
- MLLE. THERESE FRANCO**, Beautiful full flowers, petals slightly fringed. This is undoubtedly the finest Pink Carnation in cultivation. Certified R. H. S., London. \$1.25 per doz.; \$5.00 per 100.
- PRIMROSE DAY**, The finest Yellow Carnation yet introduced. The flowers are the largest of any in the winter blooming section, the color has full deep yellow. It is of exceptional vigor has a very free bloomer. Certified R. H. S. London. \$2.00 per doz.; \$15.00 per 100.
- WILLIAM ROBINSOIN**, Jet, large, well plant very vigorous and free. Toned flowers; old frame, and strong constitution. The finest Scarlet Carnation yet introduced. Certified R. H. S. London, December 16, 1896. \$2.00 per doz.; \$15.00 per 100.

The above are all strongly rooted plants from 2 1/2 in. pots. Packing free, and freight paid to New York, Boston, or Philadelphia.  
Cash with Order, or Satisfactory Reference.  
My collection of cuttings for growing in the open field is one of the finest in Europe. Full catalogue sent free on application.

# R. H. BATH, THE FLORAL FARMS, WISBECH, ENG.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# CARNATIONS.

## A Use for old Carnation Plants.

It is a common practice with many small florists, just after Easter, to throw out their carnation plants, to make room for bedding stock, and, through the summer, have to depend for flowers on the young stock. This is not only wrong, but very injurious to the young plant, taking away a great deal of strength that should help to develop it into a strong, healthy plant. In places where there are heavy late frosts, the plants can be heeled in a cold frame until danger is past, or they can be planted out and covered with some pine boughs. The method I have followed in planting is to fill the hole nearly full of water, and they will take hold at once. Those who follow this plan will be surprised at the number of good flowers they will cut during the summer and fall, and the remarkably strong grass obtained to propagate from, which, to my mind, is a matter of vital importance. H. YOUELL.

We have, on many different occasions, transplanted carnation plants from the house to the field after Easter, to make room for bedding stock, in the manner described by Mr. Youell. Our method of planting, however, differs slightly from his, which is not of sufficient importance to cause any material difference in the result. We have not in the last few years received this thought, as our efforts invariably brought failure instead of any material success.

After a carnation plant has been subjected to greenhouse culture for six months more, has become thoroughly established, and adapted to its surroundings, and has been compelled to bloom throughout the winter and spring, it is in no condition to be disturbed and moved to quarters quite different from those which it left. Carnation plants which have been so treated cannot recuperate sufficiently to warrant the time and labor expended, such a transfer; the results cannot be worth the trouble. It is expecting too much of the carnation for it to re-establish itself in new quarters after it has become old, and its usefulness is nearly gone.

I will not deny that a certain amount of success can be obtained in this way, but it is as nothing in comparison with what can be realized by making early cuttings of early-blooming sorts, and planting them out in good, rich soil as soon as the weather will permit. I think Mr. Youell will find this method of more value in producing blooms during the summer when the room cannot be spared in the house, than shifting the old plants to the field.

But of what value the old plants can be for propagating is hard to understand, as plants propagated at that time can be of no real value, unless they be new or scarce. Plants propagated during November and December will be quite early enough for blooming outside, and certainly much too early for winter forcing.

I am not aware that Mr. Youell has ever tried heeling the old plants in a cold frame, and protecting them from the danger of injurious frosts are over, or has planted directly in the field and been the successful producer of them with pine boughs. I rather fear that where such steps are necessary to protect the plants, the chances of success would be largely increased, through the double handling to which the plants would be subjected when planted in the frame, and the extraordinary change they would experience when planted in the open field. If any plants have been grown cool all winter and have not blossomed so well, good reason will be obtained. H. WEBER.



**G. A. STIEBER THE RESTLESS & SLEEPLESS FLORIST OF PITTSBURGH, PA. GROWS & SELLS CARNATIONS THAT PAY.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE



Indoor Culture in Summer.

As I stated last week, it is our intention to plant one house of carnations with late struck cuttings, to be grown after the same manner as we grow roses and chrysanthemums.

There was a time when it was thought quite impossible to grow chrysanthemums in this manner, on account of the cool partiality of the plants for a cool temperature; but tests have long since demonstrated the ability of the chrysanthemum to adapt itself to the heat of summer, and to be quite as much at home in it as is the rose.

It has also shown us that an extra soil is necessary, and in addition to protection as in the winter, a well established, constant feeding is also a necessity.

Now, in spite of the many failures which have attended the efforts of most gardeners to have successful summer growing carnations, I am still of the opinion that it is quite possible to obtain good results from indoor culture. I will not say that I believe that such culture will ever do away with outdoor cultivation; I rather believe that it will not; still, I would regard it as a possibility, although at the present it is considered a rather risky venture.

I have already said that the carnation will adapt itself to the heat quite as well as the rose, but that a soil of great deal more importance is air, light and nourishment. If these are given it will flourish with the heat of summer.

The summer treatment of the carnation indoors differs somewhat from what is given the rose, in the amount of light which the carnation can endure, and the comparatively small amount of water it requires on the foliage, as compared with the rose. Thus these two items require our especial consideration. We must shade judiciously and spray lightly and frequently. Thus we have care to carnations which have been grown all winter in the house.

As the young carnations will always produce other than good results with us. Just as a young carnation plant will grow more luxuriantly when kept under glass than do old-established plants, I am not prepared to say definitely what to do with them. We must shield them not be considered when we wish to grow them indoors during the summer.

We confine our attention to the soil, and the method of growing them. We will be laying the foundation for at least partial success, and we may pos-

sibly accomplish what now seems rather improbable—the growing of carnations successfully without resorting to field culture, and thus save a great deal of labor. But as I said in the beginning, I do not fear the impracticability of this system for all purposes.

The comparative ease with which we can control the atmosphere of our cutters a strong inducement to resort to indoor culture to finally establish them. We have already named a number of varieties from this disease by following the directions already laid down in these columns. We were, however, hampered not a little sometimes when we happened to have season outdoors the growth of rust, thus undoing to a large extent what we had accomplished by careful selection of cuttings, and caring for same prior to their being planted.

Cuttings for this purpose should be made late. Those made during May will doubtless give about the best results. We want the plant in such shape that it is ready to go right ahead. If it has not yet formed a good stem, or become in any way crippled or stunted, its usefulness for this purpose is done for.

In addition to the cheese-cloth screen, we cover the cuttings with newspapers or excelsior, and if these are well established, constant feeding is also a necessity. Besides the newspapers act as a shelter for the cuttings and keep the cuttings from being sunburned.

A great many make the mistake of taking pins, which are too soft and weak to do the work, or of using pins that are too large, and will not last.

I trust that a goodly number will experiment with the method I have especially to eradicate rust, and incidentally to succeed, if possible, in growing carnations profitably without resorting to field culture.

In February last I had the pleasure of visiting the establishment of Messrs. E. G. Hill & Co., of Richmond, Ind., whose large place is a model of neatness and systematic culture. They were propagating as late as June, I believe, and growing until the autumn. They were certainly fine for indoor culture, and shows that all attempts in this direction are not unwarrantable. It is no pleasure was Mr. Hill with his experience on the subject. And it is no pleasure was Mr. Hill with his experience on the subject. And it is no pleasure was Mr. Hill with his experience on the subject.

**MRS. FISHER**  
Strong selected cuttings from soil, for summer blooming, \$12 per 1000.  
**H. D. DARLINGTON,**  
FLUSHING, L. I.

**ROSES.**  
500 Per. Carnot, 2m. ready for 4 in. extra \$20.  
600 Hybrid, \$1 per 100, \$20 per 1000.  
500 Parfle, \$1 per 100, \$20 per 1000.  
500 Victoria, \$1 per 100, \$20 per 1000.  
500 St. Albans, \$1 per 100, \$20 per 1000.  
500 La France, \$1 per 100, \$20 per 1000.  
500 Theodor Meeker, \$1 per 100, \$20 per 1000.  
500 William B. Ewald, \$1 per 100, \$20 per 1000.  
500 Swiss Alps, \$1 per 100, \$20 per 1000.  
500 American Beauty, \$1 per 100, \$20 per 1000.  
500 Double Happiness, \$1 per 100, \$20 per 1000.  
500 Charles de Meillon, \$1 per 100, \$20 per 1000.  
500 William B. Ewald, \$1 per 100, \$20 per 1000.  
500 Swiss Alps, \$1 per 100, \$20 per 1000.

**WM. C. SMITH, 61st and Market Streets, Philadelphia.**  
**MARIE LOUISE VIOLETS.** \$4.00 per 100.  
Cash with order. No residue, thrifty, well rooted ORSON BERGER... Rhinebeck, N. Y.

**ROOTED RUNNERS**  
**MARIE LOUISE VIOLETS**  
\$5.00 per 1000. Perfectly healthy. Address THE WHIPPANY FLOWER FARM, D. B. RUBEN, Mr., Whippany, N. J.

**PANSY PLANTS**  
In bloom, from old frames. \$1.00 per 100; \$5.00 per 1000.  
**ENGLISH VV.**  
Strong, field-grown, 2 years, per 100, \$8.00; one year, \$5.00 per 100, with order.  
J. H. DANN & SON, Westfield, N. Y.

**PANSY**  
In full bloom, large flower, per 100, \$30.  
Honey-suckles, 3 years, ever-blooming, per 100, \$24.00.  
English VV., per 100, \$10.00, inch pots, 4 ft.  
Asst. seeds, best quality for Florists' use at your own price. No responsible other party.

**PANSY PLANTS.**  
This strain is unsurpassed for size, color and bloom.  
Large Clump in bloom, \$1 per 100, \$6 per 1000.  
Small Clump in bloom, \$1 per 100, \$6 per 1000.  
BELLIS, \$1 per 100.  
C. SCHEMIDT & CO., Wholesale Pansy Growers, Bristol Pa.

**Pansies Worth Raising.**  
In blooming plants or plants in bud, from \$1.00 to \$3.00 per 100. Full value given in stove case. Cash with order. All shipments try on board of express here.

**C. Soltau & Co., 199 Grand Jersey City, N. J.**

**In Bloom**  
The Finest Pansies in the World.

**ROEMER'S GIANT PRIZE PANSIES,** in separate colors, or mixed; strong transplanted plants from cold frame, etc.  
\$2.00 per 100, or \$1.00 per 100 by express.  
Cash with order.  
MAX. E. KRAUS, 820 DAYENPORT AVE., NEW HAVEN, CONN.

**THE JENNINGS STRAIN OF FINEST AMERICAN GROWN PANSIES** are up to date and sure to please. Finest variety of plants from cold frame in bud and bloom. All large flowering in great variety of colors.  
10c weight or express \$1.50 per 100; \$10.00 per 1000.  
Cash with order.

**E. B. JENKINS, Lock Box Southport, Conn.**  
**GROWER OF THE FINEST PANSIES.**  
**Pays Well Even out of Season.**  
My first order in the best season ever in your March 21st number, although out of season, proved a good investment.  
Brooklyn, N. Y., March 30, 1907.

**3000 CARNATIONS**

**IN FLATS.**  
10000 Scarlet.....\$2.00 per 100  
10000 Meeker.....\$2.00 per 100  
10000 Eldorado.....\$2.00 per 100  
3000 Antwerp, Sample's white, pink, lavender, \$1.00 per 100  
500 NVAINSONA, Gal. also, 2 in., \$3.00 per 100  
1000 CHRYSAANTHEMUMS, leading varieties, all named, 2 in. pots, \$1.00 per 100. Cash with order.

**W.M. C. SMITH, 61st and Market Streets, Philadelphia.**

**Considerable Custom**  
Advertising in your paper has brought me considerable custom. J. FLOWER TROW, Monticellville, N. Y., Oct. 3, 1896.

**DAZZLE**

The brightest and most productive scarlet carnation yet introduced.  
Strong plants.....\$4.00 per 100  
Rooted cuttings.....\$4.00 per 100  
Send for complete list of 100,000 carnation plants and rooted cuttings in 100 flats, ready for immediate shipment.  
25 cents per plant, or \$20 varieties.

**GEO. HANGOOK & SON, Grand Haven, Mich.**

**ROOTED CUTTINGS. CARNATIONS.**

**W. M. SCOTT** . . . \$1.00 \$7.50  
**LIZZIE MCGOWAN** . . . 1.00 8.00  
Other varieties all sold out.

EDW. J. TAYLOR, Wholesale Carnation Grower. WENHAM, MASS., and NEWTON, CONN. WHEN WRITING MENTION THE FLOWERS' EXCHANGE

**CARNATIONS**

All the leading new varieties; good clean, well rooted stock.  
Mrs. Chas. H. Dunne, delicate pink.....\$10 \$75  
Mrs. Geo. M. Bradt, white.....10 75  
Mrs. J. M. Hays, white.....10 75  
C. A. Dana, shell pink.....10 75  
Mrs. McBurney, salmon pink.....12 100  
Mayor Pingree, yellow.....10 75  
Morello, scarlet.....10 75  
Maud Dean, blush.....10 75  
Lily Dean, white, striped pink.....10 75  
Harrison's White, white.....10 75  
If not already received send for our price list, which contains all the leading standard varieties at moderate prices.

**F. BURNER & SONS CO., La Fayette, Ind.**

WON FIRST PRIZE at Spring Exhibition of Mass. Horticultural Society, 1897.

**NEW SEEDLING CARNATION**

Originated by Mr. H.A. Cook, of Shrewsbury, Mass., grown by the subscriber, and now being put into the market as

**NIVEA.**

Cuttings now ready and free from rust. \$1.00 per 100; \$3.50 per 500; \$60.00 per 1000.

**DAYBREAK, SCOTT, STORM KING, PURITAN, METEOR, GOLDFINCH, HECTOR, ALBERTINI,** and others, all \$1.25 per 100; \$10.00 per 1000.  
**DELLA FOX,** new plants from flats, \$1.00 per 100.  
**CHRYSANTHEMUM CUTTINGS.**  
Ivory, Bonafant, Gold Lode, Minnie Wanamaker, \$2 per 100; \$15 per 1000.

**A. W. HOYLE, Spencer, Mass.**

And 51 Withington St., Bkn. O., N. Y.  
DORRIS WHEELER, MASS. WHEN WRITING MENTION THE FLOWERS' EXCHANGE

**CORRESPONDENCE.**

*Insertion will be given in this column to all communications free from animus; but the opinions expressed do not necessarily reflect our own.*

**Winter-Blooming Nymphaeas.**

*Editor Florists' Exchange:*

There is an ever-increasing tendency to over-production of plants and cut flowers in this country. "There is no money in it." Growers are ever on the alert for novelties, knowing that there is, generally speaking, bread and butter in them, if not a little else besides. And as Mr. Oliver says in No. 479, "The probabilities are that nymphaea flowers would pay all right if the winter treatment of the plants was thoroughly understood." It will be an inducement for the up-to-date florist to take a leaf out of Mr. Oliver's book and take a turn with nymphaeas that will yield such a rich harvest.

The fact, too, that people with means will buy more red flowers, novelties and unseasonable productions is another inducement to obtain new and rare and especially nymphaeas for if they can be produced as good in winter as they are to be had in summer there certainly is money in it.

But winter lilies cannot be grown without tanks, and how can a florist get away from them? He will fetch before he has them to offer for sale? Mr. Oliver's early experience in winterizing nymphaeas is a good one to show that they would continue to flower considerably longer out of season than under the best possible season for development and flowering.

The winter nymphaeas have not a little headway during the past ten or twelve years; but it is possible some growers are making a mistake, and as the results have not been satisfactory, nothing has ever been done to correct them. The observations and experience go, the methods of culture and the varieties are the same. Mr. Oliver's is a very practical benefit to the florist, and should any live florist feel induced by the foregoing to give a try, let them, carnation or any other house into an aquatic house thinking there is something in it. I have not done a simple matter to produce flowers as late as November, but after that date is the veiled question. That season of the year we get more darkness than light, the ventilators are opened but not very far, and the plants do not get all the sun's rays are not potent in light and action as at any other season, and the plants lack of color will not make up the deficiency in growth and color. I have noticed, though, that the nymphaeas during the dark short days phaeas keep a very good color; that is, when, Zanzibarensis has the habit of being very late in coming out, and again before evening. The pinks and reds of the night-blooming kinds are especially noticeable in color, color and size of flower, and no correct water temperature can add what is lacking, especially during the dark short days best white night-bloomer, and as a cut flower the worst. Some of the hybrids are very, very little leaved, better than N. dentata, notably N. O'Marana; yet as a summer flower it is unsurpassed for its beauty. The normal temperature of 75 to 80 degrees Fahrenheit is dangerous. Growth made in such a temperature during the dark short days and long nights is soft and flabby and unproductive of a fungoid growth or rot, and the plants are not produced worthily to pass judgment upon. Good flowers produced in a high, clean temperature with a correct texture, and when subjected to a temperature of 60 degrees will become limp and do no good for the florist.

To grow first-class flowers and to produce satisfactory results in winter culture is necessary. True, a plant in a five-inch pot will produce a flower, but it will not be a first-class one. Who would venture to grow a plant in

a five-inch pot for decorative effect in summer! It is a fact well known to cultivators that to produce first-class flowers in summer is to grow a plant like Zanzibarensis, N. dentata, N. deJemisonii or any equally vigorous plants, ten to twelve inches tall, and as Mr. Oliver recommended for aquatics, is none too much; then what can be expected from a plant in a five-inch pot? Good plants in a twelve-inch pot? Good, healthy leaves are necessary to a plant, and to grow in a small estate, no earthy use for the florist, and not so good or as handy for forcing as the tropical varieties, and sooner come to a standstill. I am inclined to think that a great deal of experimenting will have to be done before satisfactory results can be achieved, and while such admirable flowers are to be seen in our parks, conservatories and gardens, and at our annual exhibitions, poor flowers will never be appreciated even in the death of a monarch.

WILLIAM TRICKER.

**Seedlings and Certificates.**

*Editor Florists' Exchange:*

In reply to Mr. Wright's article of May 1, allow me to say that I am un-availably unable to write on the subject that would justify Mr. Wright's assumption that No. 54 scored high to the disadvantage of the yearling. The average is 84 points.

As a matter of fact, it did nothing of the sort, and when the judges compared their opinions a review was had with the results indicated in a previous article.

If Mr. Wright will take the figures 99, 91 and 65, add them together, and divide the resultant sum by three, he will have an average of 85, with two of the three quantities above the covered 85.

By "assuming" certain things, certain other things may nearly always be proved. This is what Mr. Wright is doing, and he is making a very serious mistake." He assumed that the independent scores were too wide apart, and that some of the scores were over 85.

By some very strange oversight, when it came to discussing the cover, I dealt by the closeness of the independent scores and the fact that the highest score was 100, which was not true, and should have been there was unavoidably detained, apparently, for it failed to assert itself and twist a certificate out of the committee by some means.

If the gentleman who wrote the criticism would discuss the cover, he would carefully read the article over my signature in the issue of April 3, he will find that I am not a very good writer.

"It will be evident that there can be little room for a change of opinion after the discussion of the cover. The independent score of the points and the result arrived at in each case is below the average, and the percentage of how a decision was reached.

The variation between the Boston results and the Philadelphia results has also been explained. The other humorous situation does not appear very difficult of explanation. The gentleman who had been called in merely that the judges might assure themselves that the plants were of their own so narrow they had not been covered. When it became apparent that they were not, the judges were so engaged by others who saw the Cincinnati exhibit, they declined to grant the certificate. The Boston judges were so much desired. Allowing for the higher standard of excellence in Philadelphia, the Boston judges would seem to indicate that the Cincinnati verdict was not far wrong. In the Philadelphia exhibition, the gentleman (as Mr. Ward's articles would seem to indicate), the New England gentleman, was not present.

"The gentleman says that 'The three-judge system has been a thorn in the side of the florist for many years.' The writer is neither prepared nor disposed to enter into a discussion of the merits of the three-judge system of the opinion that three thorns in a tender spot are more provocative of irritation than one. The thorn would be. ADAM GRAHAM.

**Crozy and his Work.**

Whenever the name of Crozy is mentioned, our thoughts naturally turn to the large flowering French canna and the wonderful improvement in this class of plants that has been effected through the skill and painstaking of this noted hybridizer.

We have pleasure in presenting to our readers a photograph of Crozy himself and a brief note of his work in connection with canna hybridization, both of which are reproduced from the *Revue des Horticulteurs* and are closely connected with the canna is Crozy's name," says that journal, "that it makes no difference whether or not our new canna had their origin in his place, they are and will be called 'Crozy canna'."

Mr. Crozy writes to our German contemporary in regard to his success in producing a canna as follows:

"I began alternative hybridization between Canna Warszewicz and C. nepalensis, starting with large yellow flowers and very long, creeping tubers. My first canna was obtained from this

**Canna America.**

Professor Waugh, of University of Vermont, who crossed the Red Forest canna, the third of Damman & Co.'s "orchid-flowering" type, states that in America the canna is higher and taller; the foliage seems to be stronger and tougher; the color is one harder to get marked with the characteristic irregular and conspicuous dashes of lighter, greenish color. The flowering stem is shorter, and the flowers are smaller, of flowers of the form and size of those of Italy. They are, however, of a most rich and striking color, called by the plant apicot-red, faintly spotted with darker salmon. The center is canary-yellow, marked with the center of the body color, very much after the pattern of Austria and Burbank, except that in America the center is higher colored than the wings. The blossoms are richer in appearance than any of the earlier Ohio-flowering cannas. They do not appear to be better in substance, though.

**Cleveland.**

Trade Notes.  
Great increase in trade manifested itself shortly after Easter, influenced partly by the weather, which, from that time on, has been very favorable, with very little sunshine and occasional showers.

Prices also have had a tendency to weaken, gradually decreasing to the normal level. Carnations are in great demand and several large bouquets and receptions are being ordered. Carnations are some of the best efforts of our florists, many of the table decorations showing especially handsome effects in this line of work.

Roses are plentiful, some of the downy roses holding their own, and offering good stock at greatly reduced prices. Best stock brings \$1 and \$1.50 for ordinary quality. There is a fair stock of Beauty is now being offered and prices range from \$3 to \$6, according to quality.

Carnations are in good supply and sell at 25 cents to 40 cents per dozen for best.

Harrisii continue plentiful, but stock is becoming poor and finds slow sale at \$1 and \$2 for ordinary quality, and \$1.50 and meet with slight demand. Violet stock is very poor. They now sell at 25 to 35 cents per dozen. They are scarce, at 15 cents a dozen. Some very nice blooms of anatum lilies are in stock, and are selling at \$1.50. Daffodils are nearly gone, selling at 50 cents. Some very good stock of outdoor tulips were seen. These bring 50 cents. Mignonette sells at \$1 per dozen.

**Settings.**

Among the prominent nursery and bulb men from abroad who visited Cleveland recently were Messrs. Speelman, Sassenheim, Holland; P. J. Onstedt, representing K. J. Kuyk, Hilsdon, Holland; Callias Berg, field, Sassenheim. Mr. Speelman reports trade as being fully up to that of last year. He states that the proposed new tariff schedule does not have any effect upon import orders.

As regards the weather of the spring season will be the annual "spring flower reception," given by Mrs. J. M. Casson, Mrs. E. A. Lauter, Anna M. Lane home, on Friday of this week, for the benefit of the Elizabethan Hospital. The affair was held at the home of Mrs. Lane, and was a most successful one. The program was most worthy of the occasion.

Mr. Mahlhauer, one of our citizen promoters of horticulture, is erecting extensive greenhouses at his summer home, near the city. He is also erecting a new greenhouse at his home. Mrs. T. C. Bartels will leave shortly for an extended trip through Europe. Mr. Bartels is superintendent of J. M. Casson's greenhouses. He expects to attend the International Horticultural Exhibition at Hamburg.

**Detroit.**

S. Taplin has obtained a patent for his hot-water-circulating-heater, in the United States and Canada, and has secured a license in the British Isles, France, Germany and Belgium. Mr. Taplin is undecided as to whether he will manufacture the boiler or sell the right.

**Red and White.**

Two new canna varieties, which were named Bonet and Plantieri, the latter of which showed green foliage and orange flowers. The first one came close to being awarded, with dark red-brown foliage and pretty large flowers, was very free flowering and a favorite for quite a while. After this by crossing with Canna aureo-pictata, succeeded in getting hybrids with yellow spotted flowers, which year by year grew larger and rounder. I then tried to get an early bloomer and finally succeeded. In obtaining a type which was very floriferous. I constantly threw inferior plants away and kept only the best.

"As to the number of hybrids raised by me, I suppose that I have raised, with experiments, some 180 to 200 varieties, which, step by step, showed improvement over the older kinds. In obtaining a type which was more numerous are canna with flowers measuring from 4 1/2 to 6 inches in diameter. These have all very glowing colors and bear immense flower trusses.

"(My new cannas are a very carefully selected lot and their superiority has been confirmed by many visitors. My idea is to raise superior varieties that will be more successful in regard to color as well as size and number of flowers. These cannas are more or more erect, are of better substance and show broader, rounder petals and some of these will be of a more compact habit.

"These cannas for our climate have the advantage of being dwarf and early flowering and are more resistant to other adverse weather conditions."

"As regards the name of the canna seen in the varieties Austria and Italia, Mr. Crozy states he awaits the competition of these titles. He has no comments adversely on the lack of substance and early wilting of the flowers. He says that the name of the canna is 'Zeltung,' that Mr. Crozy is known in France, Nancy, under the name of 'Papa Cana' and one of the canna cities is named 'Papa Cana.'" L. S.

**MARIE LOUISE VIOLET CLUMPS**

From ten to twenty well-rooted runners in each clump, perfectly clean and healthy, at \$4.00 per 100 clumps; \$35.00 per 1000. Cash with order.

**R. F. HAHN, Dorwall-on-Hudson, N. Y.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**West Islip Greenhouses.**

**Marie Louise Violets, Rooted Runners**  
\$4.00 per 1000, cash with order.

**E. B. SUTTON, JR.,**  
P. O. Address, **Babylon, L. I., N. Y.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Marie Louise Violet Clumps**

Free from disease, \$3.00 per 100.  
Will exchange for Bridemaid Roses.

**E. T. WATERSTONE, Greenwood Lake, N. Y.**  
Orange County.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**VIOLET CLUMPS**

**AND ROOTED RUNNERS.**  
A No. 1 stock, clean and healthy. No disease. Lady H. Campbell, clumps, per 100, \$3.00; Swallow White, clumps, per 100, \$3.00; California clumps, per 100, \$3.00. Well rooted runners of the above variety, \$1.00 per 100. Cash with order or order factory reference.

**JOHN F. WALKER, Waldrop, Va.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**OUR NEW LIST OF SEASONABLE PLANTING STOCK**

INCLUDING  
**ROOTED CUTTINGS**  
**PLANTING STOCK**  
of **CHRYSANTHEMUMS,**  
**CARNATIONS, COLEUS, Etc.**  
**IN ROSES, SMILAX, BULBS,**  
**Etc.**

Now ready. Best stock. Low prices. Address,  
**DAN'L B. LONC, Jobbing Florist and Grower, Buffalo, N. Y.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**VIOLETS—MY SPECIALTY.**

On and after March 1st I will be ready to supply, in any quantity, stock of the following varieties. . . . .

**ROOTED RUNNERS, ALL FROM GOOD PLANTS.**

- FIVE (5) AMERICAN MEDALS.**
- TWO (2) FRENCH MEDALS.**
- FIVE (5) AMERICAN MEDALS.**
- TWO (2) FRENCH MEDALS.**
- FIVE (5) AMERICAN MEDALS.**
- TWO (2) FRENCH MEDALS.**



**PRINCESS DE SALES**, the queen of stiletto violets. The largest and most fragrant, strong grower and productive. Per 100, \$5.00; per 1000, \$45.00.  
**LUXURNE**, per 100, \$1.50; per 1000, \$12.00.

SEND IN YOUR ORDERS NOW. CASH OR SATISFACTORY REFERENCE.  
**FERD BOULON, Sea Cliff, L. I., N. Y.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CHRYSANTHEMUMS**

Strong, healthy stock in K. C. and pot plants. For sale \$2.00 per 100 in pot plants, \$3.00 per 100.

**FLORIAN, Mack, Monach, Autumn Bride, Ivory, Mrs. H. Robinson, Mrs. H. McK. Ford, Helen Wright, November, Best of the Victoria, Nivens, Mrs. J. Jones, Wanda-mary Yonora, Mrs. E. Crawford, W. H. Battles, Mark Henderson, Gold Leaf, Miss M. Johnson, Geo. S. Cooper, Yellow Queen, W. H. Battles, Bruce, E. Halliday, Georgiana Chiles, Mirra, Mrs. W. H. Rand, Major, Innovation, H. W. Johnson, Mrs. E. Battner, Golden Wedding.**  
**FLORY**, Helen Pacific, Wm. Simpson, Pink Frost, Roy Encampment, V. Mori, E. Laech, Miss J. Pyle, Helen Robinson, Miss Deane, Violette, Chebaque, Bermuda, Mrs. F. Palmer, Philadelphia, Benj. Girard, Bruce, Fisher's Torch, Rhodea, and many others.

All the Leading Am. Novelties at Trade Prices.  
**CALIFORNIA GIANT, White Daisy**, from 2 1/2 inch pots, 50 cts. per dozen; \$4.00 per 100.  
**EMPIRE DE LYON, Yellow Daisy**, from 2 1/2 inch pots, 75 cts. per dozen; \$7.50 per 100.

**THEO. F. BECKER, T.**  
NEWFIELD, Wis. and Philadelphia, Pa. **GLENFIELD, Pa.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CHRYSANTHEMUMS.**

Best standard commercial varieties, from pots. Mrs. Berganza, Major, Innovation, Philadelphia Maid, Pink Frost, W. W. Anacker, L. Canby, Pyle, Helen Robinson, Miss Deane, Violette, Best of the Victoria, Nivens, Mrs. J. Jones, Mrs. E. Crawford, W. H. Battles, Bruce, E. Halliday, Georgiana Chiles, Mirra, Mrs. W. H. Rand, Major, Innovation, H. W. Johnson, Mrs. E. Battner, Golden Wedding.

**JOHN C. EISEL, 20th & Ontario Sts., PHILADELPHIA, Pa.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**SEMPLER'S ASTERS,**

sentling pink, white and red, \$2.00 per 1000; Achillea the Pearl, \$3.50 per 100 clumps.

**A. & G. ROSBACH, Pemberton, N. J.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**ASTERS!!**

Simple's White and Pink, also Perfection, Victoria and Comet, 50 cts. per 100; \$5.00 per 1000. **DOUBLE HARDY FERILIA CAR-NATIONS**, 75 cts. per 100; \$5.00 per 1000. Fine stock, ready to ship.

**MORRIS FLORAL CO., Morris, Ill.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**ASTER PLANTS** Simple's Branch-let, Perfection, and Comet, Queen of the Market, Victoria and Comet, ready to plant out, by mail, cost, per root; \$4 per 100 by express **J. C. SCHMIDT & CO., Bristol, Pa.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**VIOLETS.** Clumps or Runners. **ALICE**, Clean, 1st stock, 50 cts. per 100; no disease. **M. LOUISE** runners, \$4.00 per 1000; California runners, \$4.00 per 1000. Cash with order only. **S. BATHEN, Kalamazoo, Mich.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**MARIE LOUISE VIOLET, rooted res'** per 1000. Fall and Winter rooted cuttings, \$10.00 per 1000. Cash with order. Ten per cent. of profit till 700 cents and seen then shipped. Have never had any disease in my history.

**JOSEPH MARKE, Ribeske, N. Y.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CARNATIONS** Daybreak, Scott, Tidal Wave, S. Sprays, Lizzie White, S. B. Adams, \$1.00 per 1000. Cash with order only. **S. BATHEN, Kalamazoo, Mich.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**VIOLETS** Lady Campbell, \$2.00 per 1000; California, \$3.00 per 1000; Admiral Avella, \$3.00 per 1000. Cash with order only. **W. H. CHERRY, Chester, Pa.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**JOSEPH RENARD, Unionville, Co. Pa.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**VIOLET RUNNERS,**

Marie Louise Well rooted,..... per 1000 \$4.00  
Lady H. Campbell, well rooted, " " 4.00  
California, " " " " 3.00  
Farquhar, " " " " 10.00

**ANCHORAGE ROSE CO., ANCHORAGE, KY.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CHRYSANTHEMUMS**

FOR  
**Market Plants.**

In the selection of the following varieties we have included those of pleasing color and of dwarf yet sturdy growth:

- EARLY.**
- Domination, white,..... per 100 \$3
- Ivory, " " " " 3
- Marion Henderson, yellow, 3
- Miss M. M. Johnson, " " 3
- Glory of Pacific, pink, " " 3
- Pink Ivory " " " " 3
- MIDSEASON.**
- Mutual Friend, white, \$3
- Mrs. H. McK. T. wombly, " " 3
- Major Bonaffon, yellow " " 3
- Mrs. C. B. Freeman, " " 3
- Viviani-dore, pink " " 3
- Zulinda, " " " " 3
- Red Warrior, bronze " " 3
- John Shrimpton, red, " " 3

**LATE.**

- Yanoma, white,..... \$5
- Mrs. Jerome Jones, white, " 3
- H. W. Rieman, yellow, " " 4
- W. H. Lincoln, " " " " 3
- Francis B. Hayes, pink " " 8
- Chebaque, " " " " 6

For general list of varieties see our catalogue.

**NATHAN SMITH & SON, ADRIAN, MICH.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**ROSES.**

**Shading.**  
I am not an advocate of shading rose houses, still it is better to lightly shade plants that are to bloom during the summer. The shading should be done by the proper thickness and put it to suit my fancy.

Naphtha and white lead is by far the best mixture to use. Kerosene oil can be employed instead of naphtha, but it does not dry so quickly and is liable to rot the plants. The mixture should be stirred every once in a while while being put on, as the lead settles to the bottom. It is much easier to syringe it on than to paint with a white-wash brush, but I prefer the latter method, as a more uniform covering over the glass can be obtained, and the extra labor is saved in the quantity of the mixture used that would be otherwise wasted. Be careful not to make it too thick; when dry, it is just about twice as heavy as when first put on.

Should you have a leaky roof, the material is very easily rubbed off with a dry rag.

If young stock for summer cutting is not planted by this time growers should use it as early as possible, say six weeks from now roses will be largely called for, as most growers will be ready to plant.

Young stock wanted for another year requires a good deal of time and attention. Use of the material may need a shift, and others, resetting. It is well to bear in mind that we cannot expect the best results from plants receiving a check in any way. In going over some of mine I find quite a number of plants that have not been reset. They are placed in the front row and will make as good plants as the others. Perhaps the wood of these was a little harder than that of the others; if so, they will make up for lost time.

It is well to remember that roses should not be tolerated in a house of young roses, and the best man you have is none too good to have charge of them. H. H.

**Sulphur for Mildew and Rot.**

Sulphur Remedy for Mildew and Rot. I notice many queries and suggestions regarding mildew and rot and the use of sulphur in greenhouses to prevent these pests. Possibly our experience may be of benefit to some others.

Whenever we were much troubled with fungus diseases, but of late they do not demand a thought. We first used sulphur for mildew roses by adding it freely to vessels of water and boiling them until the water was practically clear. The vessels were then per-fores—about 170 degrees and the water boils at 212 degrees, so that we vaporized our sulphur into the air of setting it on fire. This reached our trouble on roses all right, but seemed to do a little or no effect on other fungus diseases.

We then adopted the plan of adding sulphur to whitewash—about thirty pounds to a bushel of lime. The lime was slaked with sufficient water for the mixture to yield to the boiling point and the sulphur added. The latter dissolved in the hot bath and gave it a strong yellow color. Water was then added to make the proper consistency. Every year we give our house a thorough painting with this sulphur whitewash, not merely coating the unpainted wood, but daubing it on heavily. It goes on yellow, but it dries out white. Every part that can be reached is so treated.

Since then we have known no mildew, no bench rot, no fungus of the cutting bench. On hot days, in clear sun, the benches are not so hot as when they were put in we have not discovered the fact. **CHARLES H. DARLINGTON, Tennessee.**

REINBERG BROS. Strong, Healthy ROSES From 2 1/2 inch pots.

GOLDEN OATS, PERLE BELLE, SIEBRECHT, METZOR, BRIDE, BRIDESMAID, KAISERIN, LA FRANCE, TESTY, \$2.50 per 100; \$3.00 per 1000. No orders for less than 100 of one variety...

CARNATIONS. STORM KING, SILVER SPRAY, WM. SCOTT, LIZZIE MCGOWAN, TIDAL WAVE, LIZIE GILBERT, KIMWOOD, IVORY, ROSE QUEEN, \$1.00 per 100; \$10.00 per 1000.

SMILAX, 3 1/2 inch pots, \$2.50 per 100. 51 WABASH AVE., CHICAGO, ILLS.

BRIDESMAID.

PARENT STOCK still exists in perfect condition. Send for circulars, catalogues, etc. to Mrs. J. B. Heiss, 116 So. Main St., Dayton, O.

LOOK HERE

The following plants are in all conditions. ROSES, out of 2 1/2 in. pots. Bridesmaid and Bride, \$2.50 per 100; \$25.00 per 1000.

AMERICAN BEAUTIES.

I have a few thousand more than I need for my own use. Clean, fine stock, 2 1/2 inch pots, \$7.00 per 100, cash with order, packed and delivered to R. K.

JOSEPH BRADBURY, SOUTH ORANGE, N. J.

Fine Healthy Stock of Brides, 'Maids, etc.

Perles, Meteors. From 2 1/2 inch pots, ready for shifting, \$4.00 per hundred.

JOHN HENDERSON CO. Flushing, N. Y.

Sterling American Novelty, the WHITE COCHET

Is a sport from Mammi Cochet, which is considered to be the best pink out-of-door rose. It has all the good qualities of its parents...

Price, per dozen, from 4 inch, \$5.00; 100, 4 25.00.

All Orders Must be Accompanied with Cash.

J. COOK, 318 Charles Street, Baltimore, Md.

50 000 ROSES. Carefully grown Forcing Stock.

ROSES—5 1/2 inch, strong; Metzor, W. La France, La France, The Bride, S. Souper, \$1.00 per 100, \$3.00 per 1000. Kaiser Victoria, Perle des Jardins, \$1.00 per 100, \$3.00 per 1000.

CARNATIONS—Lillian Metcower, strong plants, \$1.00 per 100, \$3.00 per 1000.

SWANSON'S SPLENDENS—Only true pink, \$1.00 per 100, \$3.00 per 1000.

LAURENCE DIVINA—\$1.00 per 100, \$3.00 per 1000.

VICTORIA—\$1.00 per 100, \$3.00 per 1000.

WILHELMINA—\$1.00 per 100, \$3.00 per 1000.

PAULINE—Champion's excels, 2 1/2 inch, 100 per 100, \$3.00 per 1000.

M. M. NISS—Misses, Mrs. Robinson, Fern, W. Smith, \$1.00 per 100, \$3.00 per 1000.

VINCA VAL—3 1/2 in. pots, extra strong, \$10 per 100, \$30 per 1000.

J. B. HEISS, 116 So. Main St., Dayton, O.

ROSES.

Bride and Bridesmaid, 2 1/2 in. pots, \$2.50 per 100; \$25 in pots, \$20 per 1000.

RUTTLE BROS., Covington, Ky. Linden Grove Greenhouses.

DORMANT ROSES—Own Roots.

FIELD-GROWN N. to 4 ft. H. P. and Moses. 1000 of the following varieties: John Hopper, M. M. M. Planter and Hardy clippers, out to 30 to 35 in. \$3.00 per 100; \$1.00 per 1000.

W. F. HEISS, Mgr., Council Bluffs, Iowa.

ROSES.

Fine Roses from 2 1/2 inch Pots. Per 100 Per 1000

Bride \$3.00 \$25.00

Bridesmaid 3.00 25.00

Meteor 3.00 25.00

Perle 3.00 25.00

La France 3.00 25.00

Sunset 3.00 25.00

TERMS: Cash with order.

CHAS. E. SMITH, Cor. Jefferson and Jackson Aves., YORK, PA.

TEN DEGREES BELOW ZERO

Is the temperature that has been undergone without injury by unprotected yearling plants of the new climbing roses.

AGLAIA or YELLOW RAMBLER

In our travels the met. Winter, thus proving to be even harder than we had supposed.

A Hardy Yellow Climbing Rose. First introduced in 1870, and after years and years and years it is, therefore, an immensely important introduction.

150 Missions in a Bunch. We are the producers of this rose in this country, having been so appointed by Mr. Peter Lambert, the originator.

EUPHROSYNE or PINK RAIBLER. Color as bright red as the very similar to Aglaila.

THALIA or WHITE RAMBLER. Color as pure as the white and as hard as the pink.

WE WANT EVERY FLORESTA. Send for our circulars and address stamped upon them.

WE WILL SEND FREE OF CHARGE. Write for our circulars and address stamped upon them.

Price for strong plants from 2 1/2 inch pots. \$1.00 per 100; \$3.00 per 1000.

JACKSON & PERKINS CO. Newark, New York.

THE FLORESTA'S EXCHANGE. STRONG TWO-YEAR-OLD ROSES.

The following varieties which have been carried over in cold-frames and are now in excellent condition established in five and six-inch pots.

Table listing various rose varieties and their prices. Includes: Anna de Rothschild, Antoinette Riviere, Baroness Rothschild, Boule de Nelly, Countess Muriel, Curlew, Coquette des Alpes, Captain Hayward, Captain Christy, Genl. Jacquinet, Gloire de Dijon, Hermosa, La France, Mme. Gabriel Lulize, Marchioness of Loras, Isabel Morrison, Marechal Niel, Mrs. J. Sharma Crawford, Prairie Queen, Mrs. John Laing, Revell's Rose, Perstan Yellow, Princess Adelaide, Revell's Rose, Rosella Cottage, Sweet Briar, White Star, Victoria, White Star, W. A. Richardson.

LORD PENZANCE'S HYBRID SWEET BRIARS.

We have brought out of our new varieties of Sweet Briars, established in 6-inch pots, 60 or 80 distinct varieties, 60 cents each; the collection of 8 for \$4.50. For descriptions, see our catalogue.

CANNAS.

We have again an enormous stock of Cannas, well established plants, in 3-inch pots.

Table listing various canna varieties and their prices. Includes: Ami Pichen, Antoinette Riviere, Baron de Sandrais, Revell's Rose, C. Reucent, Deuil de St. Grevy, Comte de Bouchard, Explorer, Gardaine, Gloire de Lyon, Francois Billard, Genl. Jacquinet, Gloire de Lyonaise, Georges Billard, Hortense, J. Thomyer, Kaiser Wilhelm, Mlle. E. Buis, Maurice Mussy, M. Forgeot, Meteor, Paul Marquand, President Chandon, Paul Siegrist, Paul Lorenz, Perfection, St. Raphael, Standartier, Senator, Francis, Frederick, Austria, Helia, Lawrence.

In addition to the above varieties we have a fine collection of new sorts, really good things; for full particulars, see our new variety list.

30,000 AMPELOPSIS VEITCHII.

We offer a fine lot of strong one-year-old net grown plants from 3-inch pots, about 24 inches high, \$1.00 per doz; \$10 per 100; \$60.00 per 1000.

HYBRID CLEMATIS.

A fine lot of pot-grown plants in 5 and 6-inch pots, two-year-old stock.

Table listing various clematis varieties and their prices. Includes: Duchess of Devonshire, Fairy Queen, Gipsy Queen, Jack-an-all, Lawrence, Lawsoniana.

CYCAS STEMS.

We have just received a large importation of Cycas stems in sizes from 4 to 15, which we offer at 10 cts. per lb. to lots up to 100 lbs. and shall be pleased to quote prices on larger quantities.

For other remarkable stock and our great specialties, Palmes and Ferns, see our Quarterly Wholesale List, April Issue.

HENRY A. DREER, 774 Chestnut St., Phila.

THE TARIFF

COMPARISON OF OLD AND NEW PARAGRAPHS AND RATES ON ARTICLES AFFECTING THE TRADE.

American Association of Nurserymen.

**Exclusively a Trade Paper.**  
Entered as New York Post Office as Second Class Matter

Published EVERY SATURDAY by

A. T. DE LA MARE PTD. AND PUB. CO. LTD.

2, 4, 6, 8 Duane St., New York.

F. O. Box, 1697. Telephone 2164 Cortlandt.

REGISTERED CABLE ADDRESS  
(Commercial Cable) Florex, New York.

**SUBSCRIPTIONS:**  
\$1.00 per year in United States, Canada and Mexico. \$2.00 per year for foreign countries in postal union. Payable in advance. New subscriptions will commence with the first number after receipt unless otherwise specified. Back numbers can be supplied when wanted.  
The date on address label above when the subscription expires and in the subscriber's receipt. No other receipt is sent.

**ADVERTISEMENTS:**  
Copy must reach this office not later than Thursday in order to secure insertion in issue of the following date:  
Rate, \$1.00 per inch. Special positions extra.  
Discounts on contracts of one month or longer. Orders from unknown parties must be accompanied by cash or satisfactory references.

**Contents.**

AMATEUR, THE ..... 474  
AMERICAN ASSOCIATION OF NURSERYMEN ..... 474  
BOOKS RECEIVED ..... 475  
CATALOGUES RECEIVED ..... 468, 469  
CORRESPONDENCE ..... 467  
CROZY AND HIS WORK (Portrait) ..... 478  
EXPERIMENT STATIONS, THE ..... 469  
LANDS, FREE ..... 476  
QUESTION BOX ..... 476  
ROSS ..... 472  
SEED TRADE REPORT ..... 472  
TARIFF FOR MILDEW AND ROT ..... 472  
TRADE NOTES :  
Rochester ..... 467  
Cleveland, Detroit ..... 471  
New York ..... 471  
Philadelphia ..... 475  
Chicago, Indianapolis, Toronto ..... 476  
Boston, St. Louis ..... 478  
Cincinnati, Pittsburg ..... 478  
Buffalo ..... 480

**For the Busy Man.**

Buffalo has a new wholesale house.  
Cincinnati was visited by a snow storm last week.

Bertermann Bros., Indianapolis, have filed mortgages to protect their creditors to the amount of \$4,000.

The American Association of Nurserymen meets at St. Louis, June 9 and 10 next. Headquarters, Lindell Hotel.

The plant trade in New York markets has so far been very unsatisfactory; prices averaging 5 to 30 per cent. above the quotations.

The stockholders of the New York Flower Exchange, at Thirty-four St. Ferry, have decided to open their mart at 6 A. M. instead of 8 A. M.

The Greco-Turkish war, if continued, is likely to interfere with the seed trade—affecting Canary seed, chionodoxas, galatunias, etc., imported from those countries.

The Philadelphia Florists' Club will not affiliate with the S. F. A. President Burton is making a discussion on "Closer Relations," and at last meeting, that other clubs had notified him of their intention not to affiliate also.

A verdict of \$500 was rendered by the Supreme Court, Brooklyn, this week, against the Cypress Hill Cemetery Association, in a suit brought by a plot owner, who had not been paid by being pointed by Ivy growing wild in the cemetery.

In the new Tariff Bill, as submitted to the Senate, bulbs and bulbous roots, notifiable, are put on the Free List, instead of the Dutiable at 25 per centum ad valorem. The full effect of this change might directly affecting the trade are given on this page.

Seventy-five per cent. of the Beauty roses come into the St. Louis market are disposed of by the street flickers. In Philadelphia, in the past week, the bulk of the carnation supply found an outlet through the street rose, as some flowers being bought by them at 22 a bouquet.

ACT OF 1854.  
DUTIALBE.

107. BEANS, 30 per centum ad valorem.  
203. PEAS, dried, 30c. per bushel of 60 pounds.  
213. PEAS, B. cartons, papers, or other small packages, 1c. per pound.  
394. ORCHIDS, LILY OF THE VALLEY, AZALEA, PALMS, and other plants used for forcing under glass for cut flowers or decorative purposes, 10 per centum ad valorem.

ACT OF 1897.  
As Submitted to the Senate.  
DUTIALBE.

338. BEANS, 40c. per bushel of 60 pounds.  
338. PEAS, dried, 25c. per bushel.  
338. PEAS, B. in cartons, papers, or other small packages, 1c. per pound.  
349. STOCKS, CUTTINGS OF SPEDLINGS of Myrobalan plusa, Malabar cherry, three years old or less, \$1 per thousand plants; stocks, cuttings, or seedlings of pear, apple, quince, and the St. Julien plum, three years old or less; and evergreen seedlings, \$1.75 per thousand; plants, rose plants, budded, grafted, or grown on their own roots, 5c. each; stocks, cuttings, and seedlings of all fruit and ornamental trees, deciduous and evergreen, shrubs and vines, manetti, multiflora, and briar rose, and all trees, shrubs, plants, and vines commonly known as such, not specially provided for in this Act, 5c. per centum ad valorem.  
521. SEEDS, 25c. per bushel of 50 pounds; flaxseed or linseed and other oil seeds not specially provided for in this Act, 25c. per bushel of 50 pounds; poppy seed, 15c. per bushel; .... not shall any quantity be made for dirt or other impurities in any seed; seeds of all kinds not specially provided for in this Act, 5c. per centum ad valorem.

305. CASTOR BEANS OR SEEDS, 35c. per bushel of 50 pounds.

306. FLAXSEED OR LINSEED, POPPY SEED, and other oil seeds, not specially provided for in this Act, 30c. per bushel of 50 pounds.

306A. GARDEN SEEDS, AGRICULTURAL SEEDS, and other seeds not specially provided for in this Act, 10 per centum ad valorem.

FREE LIST.

478. PAILM NUTS.  
481. Moss, seaweeds and vegetable substances, crude or unmanufactured, not otherwise specially provided for in this Act.  
490. MYROBALAN.  
487. PLANTS, TREES, SHRUBS AND VINES of all kinds, commonly known as nursery stock, not specially provided for in this Act.  
611. SEEDS: Anise, canary, caraway, cardamom, coriander, cotton, croton, cummin, fennel, fenugreek, hemp, horshoond, mustard, rape, St. John's wort, and other seeds, not specially provided for in this Act, 5c. per bushel of 50 pounds; wuzzel, sorghum or sugar cane for seed, and all flower and grass seeds; bulbs and roots, not edible, all of which are foregoing not specially provided for in this Act.

The Act has been amended so that the rates in the schedules will take effect on and after the first day of July next. Latest reports affirm that the Bill is to pass the Senate, as submitted to that body by the Tariff Committee; that is, without further changes.

**Correction.**

In my advertisement, page 447, last issue, read the price for equal quantities of Canada, Italia and Austria \$35.00 per 100, not \$35.00. JOHN N. MANTON, Summit, N. J.

**The Amateur.**

Our Toronto correspondent asks us to give our opinion as to who may be considered amateur florists. His request arises out of a difficulty now confronting our Canadian friends, as to whether certain parties who own greenhouses and gardens, and sell the products of same, or a part thereof, sufficient to reimburse the outlays of the owners for seed, fuel, etc., may be classed as amateurs.  
Our opinion is that an amateur, as applied to our trade, is one who cultivates plants from taste or attachment; and in other words, for the love of them; and in doing so employs no gardener or other professional assistance.

When a man commences the selling of the plants or flowers thus cultivated, he ceases to be an amateur, no matter how large or small his sales of same may be; for he is then working on trade

lines, and enters into direct competition, to the extent of such sales, with the professional florist.

Classes in our exhibitions set apart for amateurs. In our country, they are restricted to those who themselves grow the subjects displayed for the love of cultivating plants for their own use; and those who employ professional assistance or follow up the work of cultivating plants for their own gain or reimbursement should be debarred from such classes.

There are some who consider that the professional gardener should be classed as an amateur, inasmuch as he is not a trader. But to put the matter as it has been treated, who has given the greater part of his life to a study of his pursuit, and whose sole aim is to devote his work to the raising of another who has but a passing moment to indulge his pastime, could only be regarded as an amateur to the latter.

It is, however, to be desired, that the professional gardener at a disadvantage to compel him to compete with the amateur, should be possessed of much greater facilities than he for the carrying on of the work of cultivating plants and flowers.

Therefore, as a matter of equity, it would be better, if at all possible, to divide the exhibitors into three or four other and separate classes, to be open to all, and to employ no professional assistance, except as necessary in connection with an employer as a means of livelihood and the trader. Thus would the individual exhibitor be placed on an equal footing with the other, and with those on the same plane.

The 22d annual convention of this association will be held at St. Louis June 9 and 10. There is every reason to expect the meeting, for the association will prove one of the most enjoyable ever held by the association. An invitation to the meeting was issued from the Hort. Botanical Gardens has been cordially extended by the director, Dr. William Schreder, in addition to those invited to attend the "Shaw Banquet" as honor guests. An invitation was also issued to Dr. Trelease for an invitation to attend the "Shaw Banquet" as honor guests. The meeting will be held on the evening of June 10, has been accepted for the association by the Executive Committee. The meeting will be held at the home of the association will be extended to the visiting nurserymen by Mayor Ziegenhein and the Hon. William J. Colman.

Among other things, the tariff discussion will undoubtedly be one of the most interesting features of the convention. The committee appointed at Chicago last year will report its work at Washington. There will also be the report of the Committee on Freight Charges, a matter of vital importance to the trade. The convention will open at the Lindell Hotel on the morning of June 9. Special railroad rates are expected.

**New York.**

The annual meeting of the stockholders was held on Saturday, May 1. The financial condition was found to be very satisfactory, a dividend of 10 per cent. was declared, and a good cash balance carried forward. The meeting was marked with much enthusiasm, bringing to a close on the part of the stockholders and exhibitors on the morning of opening the market in the morning later. To this there was a strong opposition and a very earnest desire to retain the present opening hour. This important question coming up for a vote was decided in favor of bringing together about eighty stockholders and a large number of proxies, and the result was a majority of about sixty votes. So that, after June 1, the market will open at 6 A. M., instead of 5 A. M., as formerly. This later hour, as it is calculated, will be better for the stockholders and have a tendency to bring their business to a close earlier, there has been a falling off of this in attendance.  
The election of officers resulted as follows: President, W. H. Siebrecht, Astoria, L. I.; vice-presidents, A. S. Burns, Woodside, N. Y., and Joseph Schraeder, Newtown, L. I.; secretary, John Donaldson, Newtown, L. I.; treasurer, George Matlack, Jersey City, N. J.; executive secretary, P. Miller, Astoria, L. I.; Executive Committee—George Matlack, Jersey City, N. J.; Joseph Schraeder, 138th Street, New York City, N. Y.; new directors were elected—W. C. Dundas, Jersey City, N. J.; Dupuy and J. Johnston; Financial Committee, C. Smith, L. I., Dupuy and A. S. Burns.

**The Plant Market.**

Growers who stand regularly at Canal Street and Union Square claim that the season, so far, has been very good. Prices are at least averaging 25 to 30 per cent. less than in recent years. On Saturday morning prices were about 20 per cent. above Canal Street; many of these were in position between 12 midnight and 3 A. M. It is, however, to be desired, that the professional gardener at a disadvantage to compel him to compete with the amateur, should be possessed of much greater facilities than he for the carrying on of the work of cultivating plants and flowers.

Union Square had about fifty wagons and was in no way crowded, as compared with the market at Canal Street; there was but little difference in the prices at either place. If any, it would be in favor of Union Square. A party of Geraniums were bringing from 75 cents to 85 cents per dozen, pelargoniums from \$1.50 per dozen, and Geraniums from \$1.00 per dozen. Pot-grown roses seemed to meet with the briskest demand, selling from \$1.00 per dozen. A party of Geraniums, had some very fine dark-colored Geraniums, which were secured to be very much in requisition.

Auction Sales—Japanese Carnations Sold

Sales of late have been fairly well attended from the 1st of April. The weather having been so unfavorable to the moving of soft stock would account for this condition. William Elliott & Sons had, last week, a most unique novelty from Japan in the form of a tract of plants, from which they shipped herons, peacocks, swans and other creatures. One of the larer tracts included some of the most novel work and wonderful results obtained. All the specimens sold quickly at good figures.

L. H. Schaefer is now located at Kiskatoon, Greene County, N. Y., where he has a tract of plants, from which he will supply all kinds of greens, henlock plines, ferns, etc. The Florists' Exchange has secured the agency of The Fuller Breeding Co. to sell their plants for the Catskill district. In the fall and winter months he will be engaged in the bulb business as before.

Action against a Cemetery Association.

A verdict against the Cypress Hills Cemetery Association in the sum of \$3,500 was rendered in the Supreme Court in Brooklyn Wednesday in the case of the late Mrs. Mary J. Dwyer, a jurist received by being poisoned by ivory growing wild in the cemetery. Justice Dwyer was bought by the jury that every year thousands of persons visited the cemetery, and that it was a source of infection, and that the poisonous vines. Application was made for a new trial, and Justice Dickey, in granting it, said that the verdict was against the defendant, and the plaintiff is entitled to damages.—Sun.

Wholesale Market

Business has dragged along weakly during the past week, stock was inferior and prices low. In published quotations there was a general change made over those in our past issue; but for all that, on bulk, lower prices were shown. Roses are becoming badly damaged by mildew. Out-door stock of all kinds is now coming in abundantly, and is down very low, largely on account of the competition of frame stock. Some of the better quality of the same were brought \$2 per 100, whereas indoor variety made only \$1.50 to \$10 per 1,000.

Market generally has been quiet since the market after this week. Several large retail stores have already ceased to order.

Sweet peas have sold out fairly well, evidently, for the time being, having taken the place vacated by the violets. Prices on peas vary from \$4 per 100, small bunches, to \$10 per 100 for liberal quantities of 25 bunches. The violet, a monette drag was more than ever. Jacral roses are in short supply; prices ranging from 4 cents to 10 cents per dozen.

The Retail Trade.

Hant Bros. had a large wedding order on Wednesday, 3,000 Bride and groom roses.

Small & Sons made a unique decoration at the Waldorf on Thursday evening in honor of the Russian and the diplomats and others, in compliment to the Chinese Ambassador, who leaves tomorrow for Russia. In no way did the tables were so arranged as to form a hollow square, the guests facing windows.

Small & Sons made a unique decoration at the Waldorf on Thursday evening in honor of the Russian and the diplomats and others, in compliment to the Chinese Ambassador, who leaves tomorrow for Russia. In no way did the tables were so arranged as to form a hollow square, the guests facing windows.

Small & Sons made a unique decoration at the Waldorf on Thursday evening in honor of the Russian and the diplomats and others, in compliment to the Chinese Ambassador, who leaves tomorrow for Russia. In no way did the tables were so arranged as to form a hollow square, the guests facing windows.

Small & Sons made a unique decoration at the Waldorf on Thursday evening in honor of the Russian and the diplomats and others, in compliment to the Chinese Ambassador, who leaves tomorrow for Russia. In no way did the tables were so arranged as to form a hollow square, the guests facing windows.

Small & Sons made a unique decoration at the Waldorf on Thursday evening in honor of the Russian and the diplomats and others, in compliment to the Chinese Ambassador, who leaves tomorrow for Russia. In no way did the tables were so arranged as to form a hollow square, the guests facing windows.

Small & Sons made a unique decoration at the Waldorf on Thursday evening in honor of the Russian and the diplomats and others, in compliment to the Chinese Ambassador, who leaves tomorrow for Russia. In no way did the tables were so arranged as to form a hollow square, the guests facing windows.

Small & Sons made a unique decoration at the Waldorf on Thursday evening in honor of the Russian and the diplomats and others, in compliment to the Chinese Ambassador, who leaves tomorrow for Russia. In no way did the tables were so arranged as to form a hollow square, the guests facing windows.

Small & Sons made a unique decoration at the Waldorf on Thursday evening in honor of the Russian and the diplomats and others, in compliment to the Chinese Ambassador, who leaves tomorrow for Russia. In no way did the tables were so arranged as to form a hollow square, the guests facing windows.

ance. This subject is one of vital importance to growers and others, and it is one that they will be a large attendance.

Historians—O. P. Bassett, Chicago, Ill., and C. Ormsby Melrose, New York.

Philadelphia.

Business Quiet.

There has been no improvement in the cut flower market the past week. Around the stores everything is very quiet; in fact, they present a summer appearance. All kinds of flowers are available at 5 cents each, including a glut. A few good blooms sell, but other grades are hard to dispose of. Beauty has been selling at \$4 per dozen, for extra long-stemmed flowers, but not many are being disposed of at this figure. Other roses are going slowly. The top figure is \$8, but mostly all sell at 4 to 6 cents each.

Carnations are as plentiful as last week. Most of the supply goes to the market at 5 cents each, but some carnations were sold on the street at 5 cents per dozen. On inquiry it was learned that these were bought by the street men at \$2 per 1,000; while the very best flowers could be bought late in the day at 40 cents per 100. So the growers will not fare very well this week.

Beauty roses were sold on the street this week at 5 cents each, but they were not very poor flowers, either—rather open, but large and likely to last for several days.

The plant growers report very poor business the past two weeks. It seems plain that many of the prominent families have left their city houses earlier than usual. Parties and entertainments are being given less frequently attended, and fewer of these have been given since Easter than in former years.

Bulk Trade.

From present reports this trade was not so satisfactory the past season as it was during the winter, and that the dealers will import less stock next.

American Dahlia Society.

The society has finished its schedule of prizes for the exhibition to be held during the third week in September. This exhibition is one of the most important of dahlias report a much larger trade in roots this season, and orders for plants are being received.

Park Displays.

The various small parks throughout the city, under the charge of City Forester John C. Lewis, have been re-planting the past few weeks with flowering bulbs. Some of the beds of tulips and hydrangeas are very attractive and reflect great credit on the untiring energy of the City Forester, who has given notice to the public pleasures here before.

Club News

The meeting on Tuesday last was very largely attended. The new members were elected, and the club bids well to have a prosperous year. The meeting was held in the presence of 150 members was decided in the affirmative. They will have no voice in the business of the club until next year. In recognition, but merely take part in the games, etc.

John Bestcott reported that a friend of the club had given \$25 to be used as prizes for bowling. A series of games will be held during the summer.

It is proposed to have another shad dinner this year, probably towards the end of the month, as the outing last year was enjoyed so much by all.

President John Burton spoke on the subject of the club, and was enthusiastic over this matter, but had some suggestions to make. He expressed the opinion that as far as florists' clubs were concerned, they were better off in the present condition of affairs. The closer relations question from its inception and said that he had seen in the past several months of various meetings of other clubs and all were of the opinion that their clubs would do better for themselves by each individual club.

THE EXPERIMENT STATIONS.

OREGON SUGAR BEETS.—By Professor G. W. Shaw, Bulletin 44, Oregon, Corvallis, Ore. THE GROWING OF SUGAR BEETS.—By William F. Aigner; Farmers' Bulletin 35, Department of Agriculture. This bulletin contains much useful information on the growing of sugar beets, including soil, temperature, etc., besides instruction on the proper method of growing them. Diseases and insects affecting this crop are also treated upon. The bulletin is profusely illustrated with photographs and diagrams devoted to descriptions of edible and poisonous mushrooms, with special reference to their identification.

Index to Advertisers.

Table listing advertisers and their addresses, including firms like Hillinger Bros., Noller & Sons, and individuals like D. H. Hillinger, J. B. Hillinger, etc.

## Ind.apolis.

## State of Trade.

This city is having some gloomy weather for the first time in several weeks it has been wet and cool and on May 2 rain turned to snow, which lasted for four hours.

Florists complain of backward spring trade. The market is stocked with plants of both quality and quantity and interior quality, and prices seem to go lower each year. Cut flower trade is fair.

John Grande was married on April 28. A few florists were present at the reception in which about seventy-five persons being seated at supper.

## News Items.

Visitors in the city were E. G. Hill, of Richmond, and M. Haugh, of Stuart & Haugh, Anderson, Ind.; F. A. McKeand, florist for the Department of Public Parks, reports that he will have more than one hundred thousand plants to put in the parks this year, an increase of \$5,000 over last year. Our infant park system has begun to take shape that promises great improvements in the next few years.

## Bertermann Bros. protest their credits.

On April 30 and May 1 Bertermann Bros. filed mortgages to protect their credits, against John Bertram, High rents and bad collections forced them to take this step at the present time. The mortgage for \$1000 a dollar for dollar, with interest on all notes given.

On May 1 the Bertermann Floral Co. was incorporated under the State laws, with a capital stock of \$10,000. The president of the corporation is John Bertram, W. G. Bertermann, Edward Bertermann, Benedict Bertermann, Walter Bertermann and George C. Lohorn, all of this city. This corporation bought all the interests of Bertermann Bros. and will satisfy all mortgages and accounts. On July 1 they will remove from their present store to a new building and continue to do business for them on the old place on Massachusetts Avenue. The store room will be 100 feet, and contain two rooms, elegant basement and a greenhouse 72x27 feet, fronting on Delaware Street, giving them entrance on two important streets. The best wishes of many citizens follow the new company in their venture. R. A.

## Chicago.

## Market News.

It is a hard matter to quote prices or say anything of the condition of trade the past week. If one were to quote the price lists sent out by all but one of the wholesale houses, it would be safe to quote the asking price of roses at \$2 to \$4, a few as high as \$5 per 100; carnations, 75c to \$1 for standard, \$2 to \$3 for fancy. The rest of the price lists for the week and the beginning of this one showed stocks fast accumulating, and that (with the exception of the carnations) showed price lists to be of very little account.

Roses have been selling on the streets at 10 cents per dozen; even carnations were quoted above roses.

Most of the price lists are prepared with moderate supplies. It is true, trade between retailers is quiet, but there is no lack in quantities. The carnations have been the rule here recently. Concerted action in this city appears to be at a low ebb, and that is of the utmost importance to the trade.

Trailing arbutus, in excellent condition, Michigan, is selling at \$3 to \$1 per 100 bunches.

## Around Town.

C. S. Stewart, some time with Kennerly & Bros. of Chicago, is in Arlington, whose trade is gradually increasing.

H. Schneider, of Oak Park, is rejoicing over the advent of a son and heir. Mr. Schneider is enlarging his greenhouse at Concordia Cemetery.

Peter Hollenback, 159 Randolph, reports his seed trade better than last year.

Andy McAdam is cutting fine spikes of red and anti-rhizomes; they sell at 50 cents per 100.

E. H. Hunt will have, when complete, 76,000 Walden Avenue, a splendid salesroom.

The failure of the Chicago market, of Indianapolis, has brought some of the wholesale houses in this city. The idea

seems to prevail, however, that there will not be much loss, ultimately.

## Obituary.

Mrs. Elizabeth Naslund, mother of Charles Naslund, was buried Tuesday, May 4, aged 70 years. Death was caused by pneumonia. She leaves two sons and three daughters.

## Toronto.

## Club News.

The April meeting of the Gardeners and Florists' Association was held on the 29th at Danlop in the chair. The Tariff Committee reported that it had sent a requisition to the Minister of Finance, at Ottawa, asking him to put flowers, bulbs, corms, tubers and rhizomes on the free list; also palms and other stove and greenhouse plants not otherwise specified. The action of the committee was endorsed by the association. Since their meeting the new tariff has been published, but the changes have not been made. The committee has written to the member for Toronto, who is a supporter of the government, asking him to bring the matter up when the discussion is on, and we hope he will be successful in getting the wished-for alterations made.

A committee was appointed to go over the price list of the Industrial Exhibition Association and suggest any changes they thought advisable. The price list is not altered very much from last year's, and there is every indication of an extra fine show this autumn.

There has been considerable talk about making amateur classes in one of our shows, but the difficulty is to properly define an amateur. We find that every one who calls themselves an amateur are selling the products of their gardens and greenhouses, in competition with the professional florists. Some say they do not make their living entirely in this way; they add something to their income from other sources, they just sell enough to cover their outlay for fuel, seed, etc. Many think, however, that a man ought to sell the product of his garden he should be called a professional. The Horticultural Society thinking of making this matter up, and I expect there will be some discussion on it before it is settled. Many of us would like you, Mr. Editor, to give us your definition of an amateur in the columns of The Exchange.

## Trade Notes.

Business has been fairly good and all crops have been plentiful.

The seed trade has been very lively this past few weeks, the stores of J. A. Simmers, The Steele-Briggs Co., Rennie and Keith, being constantly crowded; while Grainger Bros., up lower town, are being more than doubled over last year's.

## News Items.

Charles Arnold, Queen St., returned from the Erie Park works he had been for a few weeks with his father, who was very ill. He brought the old garden back to him and he is getting well again very fast. There is every appearance of fine displays of flowers in the garden, and the beds look strong and healthy and tulips and hyacinths will soon be all in bloom.

## H.S. McAdam.

## Jadovo Fibre.

The manufacturers of this material (The American Fibre Co., Philadelphia) are distributing circulars containing numerous testimonials in favor of Jadovo fibre grown in Ontario. The following is a sample of the testimony furnished by a well-known Southern grower:

"So far everything has done better and with less trouble than we have ever had before. The fibre makes extraordinary roots, as well as top growth; they make longer fronds and better before the fibre make extra-ordinary and choice plants only. Palms also do much better in it than in soil. They make larger plants and better material. In all establishments where stove plants are grown, I would strongly recommend the use of this fibre as a true color."

The firm has issued a pamphlet giving useful hints on growing plants and seeds in this material.

## The Right Cypress for Greenhouse Material.

If you have heard of Cypress Greenhouse Material that has not been satisfactory? If you have it does not follow that Cypress is not the best lumber to use. There is White Cypress, Yellow Cypress and Red Cypress; there is Cypress that grows on the high lands and Cypress that grows in the swamps.

All of these different kinds are not suitable for greenhouse purposes. Do you know which kind is best and do you know that kind when you see it? If not you would better buy from those that do know and will deliver exactly what they sell. We introduced Cypress for greenhouse construction and pushed it to the front. We know all about it. For fifteen years we have made a specialty of furnishing it, and during this time we have built up a reputation that we cannot afford to jeopardize. We send out the best only.

## Lockland Lumber Co.,

LOCKLAND, O.

Write for Circulars of Estimates.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

SEND FOR OUR NEW CATALOGUE, WHICH SHOWS

## The Automatic Cable Ventilator

As this fits up in the house complete, we also give you prices with a guarantee that each machine will run for some months. Satisfactory. Satisfactory. Satisfactory.

A. Q. WOLF &amp; BROS., Dayton, Ohio

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

## A GREENHOUSE USE CASE

We are having a box manufactured from the best material in the market that will give satisfaction to all who try it. We can furnish it in 25 ft., 40 ft. and 50 ft. lengths, at 10 cts. per foot with connections complete. References required from unknown parties.

Address J. G. &amp; A. ESLER, Saddle River, N. J.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

## CALIFORNIA RED CEDAR

Never Decays.

A. DIETSCHE &amp; CO. 619 Sheffield Avenue, CHICAGO.

MANUFACTURERS OF RED CEDAR AND CYPRESS GREENHOUSE MATERIAL.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

## Franklin, Pa.

W. T. Bell soon lost sight of his stock of camellias after his ad. in The Exchange. He has a fine spring stock—a capital batch of hydrangeas for Memorial Day. Business has been very fair during the past season. W. M.

## Oil City, Pa.

W. M. Deyoe intends to partly rebuild after the spring rush and add a rose house 60x22 feet. In addition he reports a satisfactory Easter trade. W. M.

## Chestor, Pa.

Thomas F. Delahunt, who recently suffered a sad bereavement through the death of his wife and child is now seriously ill. He has been suffering from erysipelas and his condition is critical.

## BOOKS RECEIVED.

The Canadian Horticultural Magazine.—The first number of this magazine has come to hand. It is published by the Montreal Horticultural Society. The issue before us contains several interesting articles by well-known writers, among them Professor Craig and Dr. H. Hookins.

Nuts for Profit.—By John R. Parry, Parry, N. J. This is a handy treatise on the propagation and cultivation of nut-bearing trees, published by the author with a view to meeting the demand for knowledge on this subject. In view of the increasing interest manifested in this fascinating and profitable industry, in addition to his own views, Mr. Parry has presented those of writers in various sections of the United States, thereby rendering the treatise of general interest. The nuts deal with in the pamphlet are those most familiar in our market and which can be produced at a profit.

## IMPROVED GLAZING.

J. M. GASSER'S PATENT ZINC GLAZING

For Butting Glass Without Laps. Makes a Roof Air and Water Tight. Saves Fuel. No Leakage from Top or Medium Sized Halls. Manufactured by

J. M. GASSER, 101 Euclid Avenue, CLEVELAND, OHIO. Wholesale and Retail.

Write for Prices and Circulars. WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

..GERANIUMS..

A mixture of the best double or single for retailing, \$2.50 per 100; \$20 per 1000. Geo. Grant, White Swan, S.A. Nutt, La Favorite and others, named, \$2.50 per 100, \$25 per 1000. ...

ROOTED CUTTINGS.

Verbenas, Mammoth, in fine variety, per 100, \$100. Carnations, Wm. Scott, per 1000, \$750. Chrysanthemums, new and standard sorts, by mail, per 100, \$1.00; by express, per \$1000, \$10. ...

EL. FRYE, JR.

Railroad Ave. and Hill St., BROOKLYN, N. Y. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

A KING

We don't claim to be, But our stock is ROYAL. And Cheap you see. Geraniums, 40 best varieties; Fuchsias, 8 varieties; ...

GREENE COUNTY FLORAL NURSERY,

White Hall, Ill. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

MAY OFFER!

1000 Antennaria, red and yellow... \$3.00 1000 Centaurea gymnocarpa... \$2.50 1000 Geranium, double, var. ... \$2.50 ...

JOS. H. CUNNINGHAM, DELAWARE, OHIO.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

DARLISH

Strong, field-grown roots, \$3.00 per 100.

HOLLYCROKS

Double, strong blooming plants, \$5.00 per 100.

HIBISCUS

Primo, strong, strong blooming plants, \$5.00 per 100.

YINCA

Major variegata, strong, 4 in. pot, \$1.00 100

VERBENAS

Separate colors, rooted cuttings, 100 in. America, \$1c. per mail, 10c. extra per 100. Send for our catalogue.

VICK & HILL CO.,

ROCHESTER, N. Y. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

It Will Pay You Well to Buy of

GODFREY ASCHMANN,

1012 Ohio St., Bridge St., PHILADELPHIA, Pa. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Thousands of thousands of plants for the month of May. The following only \$5.00 per 100, taken from 4 inch pots: ...

GODFREY ASCHMANN,

1012 OHIO ST., PHILA., Pa. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

== SPRING == DELIGHT TO GROW!

GERANIUMS, all colors, best varieties, 4 in. pots.

Coleus, Vinca Vines, Alternanthera, Feverfew, Rose Geraniums, German Ivy, Mme. Sallerol Geraniums, Double Alyssum, Myrtle, for graves, etc. Send for large and complete list.

YOUNG ROSE STOCK.

Bride, Bridesmaid, Perle, Meteor, Belle Siebrecht, Wootton, \$3.00 per 100. President Carnot, \$15.00 per 100.

CARNATION CUTTINGS.

Garfield, Lizzie Gilbert, Tidal Wave, Goldfinch, Rose Queen, Wm. Scott, Alaska, Daybreak, Lizzie McGowan, Silver Spray, \$2.00 per 100.

We are HEADQUARTERS for GUT FLOWERS.

Our Supply is Unsurpassed. Shipping Trade our Specialty. We know how to Pack.

ELIS & POLKORTH, MILWAUKEE, WIS.

Wholesale Exclusively. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Geraniums, Begonias, CARNATIONS and ROOTED CUTTINGS.

TO CUSTAV OTTO, \$3.50 per 1000. 91 Sherman Place, JERSEY CITY, N. J. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Geraniums, Begonias, CARNATIONS and ROOTED CUTTINGS.

Per 100 Per 1000 8000 DOUBLE GRANT GERANIUMS... \$1.50 \$12.50 3000 MRS. POLLOCK & MT. OF SNOW... 2.00 17.50 ...

THE COTTAGE GARDENS, Queens, L. I.

SPECIALISTS IN Carnations, Cannas, Chrysanthemums, Geraniums and Dahlias. SEND FOR OUR PRICE LIST.

VERBENA

THE CHOICEST VARIETIES and HEALTHIEST PLANTS GROWN.

STRONG BUSHY PLANTS, in bud and bloom, \$2.50 per 100; \$20.00 per 1000. STRONG ROOTED CUTTINGS, 75cts. per 100; \$6.00 per 1000; \$50 per 10,000.

J. L. DILLON, Bloomsburg, Pa. . . . .

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Rooted Cuttings

COLEUS—70 varieties, 60 cents per 100 by mail; \$4.00 per 1000 by express. MYRTLES—10 varieties, 50 cents per 100. GIANT DOUBLE ALYSSUM—70 cents per 100 by mail; \$5.00 per 1000 by express.

HIBISCUS

Twelve varieties, \$2.25 per 100; \$25.00 per 1000. By mail, 25c. per 100 additional.

GERANIUMS

Double Grant, 4 inch, 50c. in bloom, \$4.00 per 100. Double Grant, 4 inch, 50c. in bloom, \$4.00 per 100. ...

GERANIUMS

Double Grant, La Favorite, strong in bud and bloom, out of 2 1/2 inch pots, \$2.50 per 100. ...

SPRING STOCK—SPECIAL.

Geraniums, eight, 11 varieties, single and double, 2 1/2 in. pot, \$3 per 100. ...

EGGERS!

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WE CAN ACCOMMODATE THE ORDER.

Verbenas, 100 in. America, \$1c. per mail, 10c. extra per 100. ...

C. A. HARRIS & CO., DELANOR, N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

FINE PLANTS—LOW PRICES.

10,000 Double Grant Geraniums, 3/4 inch pots, \$2.00 per 100. ...

NICHOLAS AMOS, Crestline, Ohio.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

ROOTED CUTTINGS.

Geraniums, best named sorts, \$1.50 per 100, \$15.00 per 1000. ...

WHY WRITE TO THE FLORISTS' EXCHANGE

Handy Planted Cuttings.

Handy Plants, Her Majesty, May and the rest, rooted from hard buds, \$1.50 per 1000 by express. ...

A. B. DAVIS & SON, Purcellville, Va.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**SITUATIONS WANTED.**

Rate 10 cents per line (3 words), each insertion. Cash with order. This rate applies only to situation wanted advertisements which are sold without display. When letters are addressed in our office add the name of the person for whom the situation is desired.

WOULD like situation, either private or commercial, in the line of florist, or grower, or seedling stuff. State wages. O. D., Nyack, N. Y.

SITUATION wanted in first-class commercial "place," well posted man, while to take charge of all the ferns, orchids, and other plants, and to attend to all the business of the office. Address: W. J. Thurston, on the premises, or Bargin, care of the Florists' Exchange.

**HELP WANTED.****WANTED**

An experienced commercial rose grower. Apply, with references.  
MILLARD & CO., 501 Sixth Ave. N. Y. City.

**WANTED**

An assistant, understanding commercial greenhouse work. Growing roses. Address  
VILLA Lorraine Boesler, Madison, N. J.

**FLORISTS AND GARDENERS.**

Wanted, for private and commercial places, experienced, journeyman, assistants and apprentices, capable of doing all the work of florists, and information, 31-32 No. Market St., Boston, Mass.

**WANTED.**

A wide-awake man of a bustling career, willing to devote his undivided attention to business; must be thoroughly reliable, and come highly recommended, one of good address, to take charge of my New York business. The Ormsby Ventilating System. It sells itself, but needs a guide. Address  
E. A. ORMSBY, Melrose, Mass.

**GREENHOUSES WANTED.****WANTED.**

To buy or rent a small place with greenhouses, near New York, address  
Otto Grandmann, cor. 5th Avenue and 65th St., Bay Ridge, Brooklyn, N. Y.

**STOCK WANTED.****WANTED.**

**3,000 Smilax Plants.**  
Price and price.  
F. C. SCHWEINFURTH, Bronxville, N. Y.

**WANTED**

5000 Alternanthera Major (red.)  
3000 " Aurea Nass (yellow)  
3000 " Strong ROOTED CUTTINGS.  
100 Dracena Indivaria, 4 to 1 inches high.  
5000 Roses, Hybrid, Bourbon, and Teas,  
in small pots.  
C. H. BARK & SONS, Trenton, N. J.

**BUSINESS OPPORTUNITIES****GREENHOUSES TO RENT.**

Five houses containing 3000 square feet, well built and to thorough repair. Two boilers, rent low. Plenty of water and electricity. Good convenient treatment-rooms on the place. 7 rooms. 1/2 miles from Boston on the R. R. Will give two months free of rent to start, a good chance to make a party.  
Address H. R. STEVENS, Dover, Mass.

**GREENHOUSES FOR SALE CHEAP****AT RAMSEYS, N. J.**

The W. J. Thurston range, consisting of two houses 100x125 feet, one house 150x150 feet, and one house 100x100 feet. There are two pits and fittings, and in addition to the above, plenty of bedding apparatus, covers, downy treatment-rooms on the place, 7 rooms. 1/2 miles from Boston on the R. R. Will give two months free of rent to start, a good chance to make a party.  
Address H. R. STEVENS, Dover, Mass.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**BUSINESS OPPORTUNITIES****FLORIST PLANT FOR SALE.**

Well equipped, well located, in wealthy city, with 10,000 best climate in country for sections of lungs.

**BENNETT & CHAPLIN,**  
REAL ESTATE AND LOANS,  
Colorado Springs, Colo.

**FLOWER STORE**

Stock and fixtures of a well located New York City retail store will be disposed of at a bargain, one lot or separately. Call or address

**SNYDER, 286 Lenox Ave., New York.**

**FOR SALE.**

Within two miles of New York City, excellent fully equipped florist place, 10,000 feet of glass. Hot water heat. Good water supply. For further particulars address

**OWNER, care Florists' Exchange.**

**FOR SALE OR RENT.**

On easy terms: near Philadelphia, 4 greenhouses at a room dwelling house, lot 100x200 ft. For particulars address

**Mr. Thomas Cartledge, 1514 Chestnut St., Philadelphia, Pa.**

**FOR SALE CHEAP.**

1000 feet of glass, well stocked, convenient to N. Y. City, two new dwellings, all heated by electric. Good barn and dwelling for foreman. Farming business established. 85 acres of choice land. Rain can pass the door. If health the cause for selling. For further particulars address  
T. J. Florists' Exchange.

**FOR SALE CHEAP.**

Extra good second-hand 3 and 4 inch pipe for hot water heating.

**W. H. SALTER, Rochester, N. Y.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Printing..**

We are outfitted to do everything in this line required by the florist, and the seedsman and the nurseryman, from an envelope to the most stylish kind of a catalogue. Write us. . . .

**A. T. DE LA MARE PTC. and PUB. CO.**

LIMITED.

**RHINELANDER BUILDING,**

COR. ROSE AND DUANE STS., NEW YORK.

Baltimore.

Koffman, the smilax king, has been the past two days buying cypripediums. He brought fifty specimens from J. Pentland. Most of them were in 14 and 16-inch pans. He has picked up the past three weeks, about 12,000 growths.

**Mount Vernon, N. Y.**

Arthur Dummett was married on Wednesday, April 28, to Miss Anna Lutz.

**Utica, N. Y.**

C. F. Seitzer grows the Parquet violet and not the Campbell, as stated in last issue. The former variety has given him great satisfaction.

**St. Louis.**

**Market Erratic.** The less and demoralized condition of our market the early part of last week was in sharp and direct contrast to the relative activity and prosperity with which it closed. Last Monday, Tuesday and Wednesday brought an apparent revival of our market, but there was very little doing in local circles and not enough shipping trade to relieve the situation. Stock was packed into refrigerators and cellars until there was no more room, and then the slaughter began. Receipts were plentiful until Friday, when receipts were lighter, aided by a demand for funeral work and improved counter trade. Saturday's receipts were surprisingly light, and good stock sold clear at sharp advances. On Sunday receipts were not enough to get around and to-day (Monday) finds the market almost bare and prices advanced fully 100 per cent. over last Tuesday's figures. Of course, this condition cannot last. The weather is very hot and clear, and we are now in superabundance in a day or two.

There was no glut of select roses. The great abundance flooding this market was of the poorer grades, much of which will molder away before the most plentiful and poor sale until the latter part of the week, when the demand for funeral work will sweep the surplus. Perle was in good demand and clean foliage stock found ready purchasers. Piedmonters of good quality and condition, sold fairly well. Meteor is not of satisfactory quality. We are not yet out of the market. Last bud Meteor as we sent here last season. La France are quite plentiful and of good quality. The price of the latter value. Testout, Whitney, Siebrecht and Morgan were mostly sold in poor condition. They sold at very low figures. Beauty, too, suffered through the general decline in values and is difficult to sell. Attention for them, as trade is limited, and after the retailers' wants are supplied the balance is difficult to dispose of, as surprising as such a statement may seem, it is a fact that at least 75 per cent. of the Beauty sold here are disposed of by fakers.

Jordan has a crop of the Jacqs. They deserve all the praise they can be bestowed upon them. They are exclusively Jordan's, never reach the wholesale, and cannot be quoted in the wholesale market.

Carnations are an awful glut. Some very fine flowers are sent to this market, but \$1 per 100 was the top figure for them last week. Clean sales of Daybreak of the very best quality could not be made at even this low price. Fine white were scarce, but the market is full of them. Best quality and quality for all needs. The bulk of the receipts sold at 50 cents, though some went at \$1 per 100.

The violet season is over; the few now sent in for sale should be kept at home. The market for the very best quality sold at 50 cents per 100; not because these flowers were over-plentiful, but because everything was so low. There is sympathy with the general market. W. L. Lucke is sending in some fine plants.

Out-door valley of good quality is in evidence now and commands \$2 per 100. Roman and Dutch Hyacinths are about finished. Harrisil cannot be sold at any price. The low price of the market last week failed to move them.

Smilax is scarce; the price is firm at \$15 per 100. Lilac is plentiful and sells at 2 cents a spray.

**Retard Trade.** There was little to do the early part of the week, but the dullness was dispelled by the rush beginning Thursday. The market was very active for liberal quantities for decoration. Funeral work was also plentiful. Several people seemed to have come in, and some had a number of good-sized orders.

Albert J. Bauer has sold his interest in the Fleckenstein Floral Co. to Charles F. Fleckenstein and has gone into the fruit business. The Trillium greenhouses at Old Orchard, Mo., will be sold at Dayton Tuesday, May 1, at 2 o'clock.

**Boston.**

**Business Quiet.** Rather quiet is the verdict among the retail florists this week, yet the stock coming in seems largely to be of the good quality. The market is little in connection with the market worthy of comment, as things are moving along quietly and the retail business is taking the natural course which is looked for at this season.

**Joinings.** W. H. Long, recently of Doogue & Co., will shortly visit New York City where he was formerly in business.

M. J. St. John, of the Boston Flower Company, returned the first of the week from a pleasure trip to New York and will be here in a few days.

**May Exhibition, Mass. Hort. Socy.**

The May exhibition of the Massachusetts Horticultural Society was held last Saturday afternoon at the Massachusetts State House, and especially the pot plants, were of a very high order. It was prize day for calceolarias and Mrs. B. F. Chas. (John Barr, gardener) and Mrs. B. F. Chas. (William Donald, gardener) earned the honors with very superior specimens. Kenneth C. Finlay, son, gardener to Dr. C. G. Weld, took all the prizes on named Indian azaleas on the 15th of May. The prize plants were Lady Woodley, Empereur du Bresil, La Victoire, Belle de Hollande, and the Duke of Fife. The same exhibitor showed a collection of several dozen seedling amaryllis, less than three years from the pot, which were remarkably beautiful, and received the society's silver medal. Both prizes for streptocarpus were taken by B. B. Cheney for fine specimens. A silver medal was awarded to Jason C. W. (John Barr, gardener) and to him noble Balleynanum. Dr. C. G. Weld also showed a collection of boronia, and a collection of Mimulus (Diplacus) glutinosus, and a collection of Mimulus (Diplacus) glutinosus. Dr. C. G. Weld exhibited six pots of ivy-leaved pelargoniums, which were good and were awarded the second prize.

Oakes Ames, Esq., showed a plant of Cypripedium (Cypripedium) of Salisbury C. bollatium C. barbatum, which has never before been exhibited in bloom in this country.

The cut flower exhibit was exceptionally good for this season of the year and collections of tulips and narcissi, the prizes for which were taken by the Bussey Institution and Dr. C. G. Weld. The show of pansies was good, the first and second prizes going to Joseph S. Fay and the third to Mrs. E. M. Gill. Mrs. E. M. Gill, Mrs. M. Gill, W. N. Craig, John Jeffries and Oakes Ames made displays of cut flowers, and the prizes for the best collections of native flowers. The exhibition of vegetables was excellent.

**The News.**

The May meeting of the Boston Gardeners and Florists' Club, the last before the summer vacation, occurred on Tuesday, May 1, at the Hotel Marlborough with an average attendance. The essay was on "Modern Bedding," by Mrs. E. M. Gill. The paper was interesting and instructive, containing many suggestions for the improvement of bedding plants and also pointing out the errors which are sometimes committed in the growing and marketing study and pains with their labor.

After the subject had been discussed by Mrs. E. M. Gill, Mrs. M. Gill and others, the club voted to hold the strawberry festival this year, as usual, during the month of June. President Dent Grey, Vice President Anderson and Secretary Dawson were appointed a committee to select a date and make all necessary arrangements.

The reports from the seedsmen are very favorable, in some cases the largest business on record having been done. N. F. McCarthy & Co. are getting their auction business in good running order. The fruit business has not been disposed of and the bedding plants are now beginning to come in.

C. F. K. W.

Cincinnati.

Business Unsuccessful.

The cut flower trade in this city during the past week has been anything but satisfactory, and as to prices, it was not what you could...

On Sunday a severe snow-storm set in and continued until early in the afternoon. One party who wanted some out-door plants was obliged to take a broom and sweep the snow off the bed before he could find the plants.

Our carnation growers who have planted in the field are a little anxious. Fortunately, we have had no freezing weather with this snap, but fresh here had to be kept going. Lilac, out doors, was all killed by a recent frost.

B. P. Critchell's Sons have their stock in good condition. They have one house of sweet peas that are just commencing to bloom and look as though they would furnish a splendid lot of flowers. The principal business done by this firm is in the palm line.

The first consignment of chrysanthemums was received by the writer, under the name of John Smith & Son, Adrian, Mich. Of course, you must not think they were exhibition quality. The flowers are also received in the same shipment and was quite a novelty for this market.

The weather now is clear, cloudy and cool, which will retard all kinds of cut flowers, and I hope, advance prices on our stock.

E. G. GILLETTE.

Pittsburg.

The condition of trade the past week was none of the best. Stock of all kinds was very abundant and standard, the latter being sold for 25 cents per dozen; 50 cents bought good ones about the only stock remaining firm in and sells well but hark the head of other stock.

E. C. Ludwig had the decorations for the Grant banquet last week and suffered quite a loss, fire destroying about \$250 worth of decorative plants.

L. I. Neff also had a narrow shave during fire, being in close proximity to the main building.

One of our daily papers had an article about two well-dressed, mysterious Japs, who were looking about our city in quest of some deeply interested in something, but nothing definite could be learned of the purpose of their mission.

LAST OFFER!

LAST CHANCE TO BUY IMPORTED HARDY, FRAGRANT, DORMANT ROSES, SUMMER FLOWERING BULBS.

In following and other go-dor sorts, my choice. Anna de Diebach, John Hopper, Prince Camille Roban, Birones, Rotaschid, Frau Gabriel Luitze, Paul Noyen, Fisher Holmes, Magna Charta, Ulrich Brunner, Girolde Margottin, Mrs. John Leiser.

All grown by the well-known Boskoop Holland Nursery Association. Send estimates of your wants. Stock fast selling off. First come, first served.

C. H. JOOSTEN, Importer, 193 Greenwich St., New York.

SPRING SALE

TUESDAY, MAY 11th

R. W. GARDNER & CO., 199 FULTON STREET, N. Y.

FROM PROMINENT GROWERS.

M. RICE & CO., Importers and Manufacturers of FLORISTS' SUPPLIES, 25 N. 4th St., Philadelphia, Pa. NEW FALL CATALOGUE NOW READY.

BETSCHER BROS. OFFER Geranium cuttings, Alyssum, Argemone, Begonia, Heliotrope, Pansy, etc.

GOLDEN STOKES

Table listing various plants and their prices. Columns include plant name, quantity, and price per unit.

TRADE LIST FREE ON APPLICATION.

Cash with order from unknown customers or C. O. D. Orders amounting to \$5.00 and over, F. O. B., N. Y. City.

SEAWAHKA GREENHOUSES

JAS. C. CLARK, Supt. P. O. BOX 34. WM. L. SWAN, Prop.

50,000 SMILAX, per 100 lbs. 100. From 2 m. pots, \$1.50 per 100, \$15.00 per 1000.

Alternanthera, Begonia and Geranium Alternanthera, A. Nas, B. Nas, P. Majorand, Varicolor, etc.

THOS. A. McBETH, Springfield, O.

DON'T GET LEFT

Best Get Your Orders in for Roofed Cuttings. 1000 Canna Versicolor and Golden Queen, \$5.00.

GREEN STOKES

Table listing various plants and their prices. Columns include plant name, quantity, and price per unit.

TRADE LIST FREE ON APPLICATION.

Cash with order from unknown customers or C. O. D. Orders amounting to \$5.00 and over, F. O. B., N. Y. City.

SEAWAHKA GREENHOUSES

JAS. C. CLARK, Supt. P. O. BOX 34. WM. L. SWAN, Prop.

**Emil Steffens** SUCCESSOR TO N. STEFFENS  
 Manufacturer of **FLORISTS WIRE DESIGNS**  
 ESTABLISHED 1866  
 AND SUPPLIES  
**335 EAST 21<sup>ST</sup> STREET, NEW YORK CITY.**

**RAFFIA** (INCORPORATED)  
 Of Best White Quality, Braided. Direct from the Pickers in Madagascar.  
 Apply for quotations to  
**ANDRE L. CAUSE,**  
 108-107 Hudson St., New York.  
 WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**THE JOHN J. PETERS COMPANY**  
 PULVERIZED (INCORPORATED) COMPOSED  
 A Quick Germinator and Crop Forcer.  
 FACTORY: Little Ferry, New Jersey.  
 OFFICE: Long Island City, New York.  
**NATURAL. OORLESS**



**TRADE MARK**

**CLEAN TO HANDLE.**

Beats Every Chemical Fertilizer on Earth.  
 Pure Sheep Fertilizer permanently improves the soil.  
 Matures the largest and best crops. Quick and lasting in its action.

**"JADOO" FIBRE AND LIQUID**

"Jadoo" Fibre!  
 A new potting material.  
 Seeds germinate more quickly than in earth.  
 Greater perfection easily attained.  
 Suits all kinds of plants.  
 Is much lighter than earth.  
 Less frequent watering required.



"Jadoo" Fibre is a perfect substitute for earth.  
 The Flowers grown in it are larger and of a rich color.  
 The Flowers last longer.  
 No soil to mix. No manure required.  
 Immense saving of labor to professional or amateur gardeners.



Concentrated "JADOO" LIQUID is the cheapest Fertilizer sold. Both meat and drink to plants. Revives drooping plants, strengthens the weak and nourishes the strong; above all, it increases the size, causes greater profusion of bloom, and heightens the colors of all Flowers and Plants. Can be used on Flowers or Plants that are grown in Earth or "JADOO" FIBRE.

**SIMPLY INVALUABLE IN POT CULTURE!**

The supply at the present time is limited to 50 Tons Fibre and 1500 Gallons Liquid per month.

**WE ARE NOW BOOKING ORDERS FOR MAY DELIVERY**

Testimonials and Prices furnished on application to

**THE AMERICAN JADOO CO.,**

811, 813, 815 Fairmount Ave., PHILADELPHIA, PENNA.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**SNIPS** Then Hold, the best for florists, Keller's Flower Shears and Flower Gatherer. Chrome Finish. Price, \$1.00. Made in U.S.A.



**CHLORETA COOLER CO.,**  
 GRAND RAPIDS, MICH.  
 Manufacturers of

**FLORIST'S REFRIGERATORS.**  
 Send for Circular.  
 WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**THE BEST FOR ALL Florists.**  
**ROSE LEAF EXTRACT OF TOBACCO**  
 FOR SALE BY Seed Stores.  
 For Free Pamphlet, write to LOUISVILLE SEED CURED TOBACCO Co., Louisville, Ky.  
 WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**PAPER AND TWINE.**  
 Toophicks. Paper Bags. Waxed and Tissue Papers---all sizes.  
**H. A. SOHL,** 147 E. 42d St.  
 WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**REED & KEELER**  
 MANUFACTURERS OF FLORISTS WIRE DESIGNS  
 120 W. 25th St. N.Y.C.  
**TELEPHONE 1782 18TH ST.**  
 WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**SPRAY PUMPS**  
 The Best in the World.  
 Our Pumps are Sold by the Leading Agricultural Catalogue and Experimental Stations in America.  
 PRICES \$2.00 TO \$15.00.  
 Sent for Catalogue and Special Price List, **CHARLES J. JAGER COMPANY,** THE HIGH ST., BOSTON, MASS.

**Kill and Save the Bugs!**  
**Nikoteen**  
 Does not injure the most sensitive plants. Endorsed by prominent florists. Used for fumigation or spraying indoors or out. 500 packets of tobacco in one pint of Nikoteen. Sold by seedsmen. Circular free. **SEABOATA DIT CO., CHICAGO.**  
**Quickly Does It.**  
 WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**MEYER GREEN SILKALINE.**  
 Good for Stringing ORCHIDS and AFRAGARDS.  
  
 Will not fade, or rot like other colors. None also in these colors for tying purposes. Send for samples and prices, **JOHN C. MEYER & CO.,** 87 MANHATTAN STREET, NEW YORK, U.S.A.  
 WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**Buffalo.**  
 Business is Slow.  
 The weather now inclines to moist and rainy on most days, but continues warm enough to rapidly advance outdoor growth, which has assumed a greatly changed appearance in but a few days. Hyacinths are in full, quickly blooming, and with tulips a few days behind, showing an advance over average years. In this trade of eight to ten days. The weather conditions favored such outdoor flowers. Fancies and buyers choice of conditions generally the rule.

Business is hardly good. Society does not seem interested now in what demands the use of flowers, while funeral orders are high. Flowers are rather over-plentiful, in fair quality, some going unsold on some days, and buyers choice of conditions generally the rule.  
**New Wholesale Houses.**  
 A new wholesale concern under the name of The Buffalo Cut Flower Exchange, with Fleckman as manager, has opened up at 481 Washington Street.  
 Recent callers included W. Rolker, Mr. Anderson, representing A. Rhotert, of New York City; Park Commissioner Harry Baskley; Detroit, William Hageman, and S. S. Skidelsky, Philadelphia.

**VIDI.**  
 Professor J. F. Cowell is experimenting in heating frames with hot water, in place of manure. A small upright boiler is used, and two return 2-inch piping—255 bearers—7-inch heating, upon which a little sphagnum is placed, to keep up a moist temperature. It is a cleaner, and perhaps cheaper, method of heating. The new aquatic house will probably be used as forcing house so soon as the new conservatories are completed. The sum of \$100,000 has been appropriated for this purpose, and the houses will be erected this summer; plans and estimates are now in order.

Several students are domiciled here, and in addition to a botanical education, they will obtain a practical insight into raising the every-day or commercial plants. Some twelve hundred Alpine and herbaceous plants are planted and being planted in borders, and are clear sweep one-half mile in length, and varies from 10 to 40 feet in width, terminating at a natural growth of every native plant will be encouraged to make its abode. A rivulet rippling through the midst of it, and emptying into a pool, shadowed by overhanging trees, and containing hardy aquatics, is one of the prettiest sights.  
 In the Alpine rocky Arabis alpina is in bloom and very attractive. It is pure white, on the order of sweet alyssum. It did not do well the first year, but is thriving the second year. A potent and trouble plant, and very numerous american var. ovatus, easily propagated. The first plant was procured by Mr. Cowell when he was in Canada. The Canada thistle has introduced it, and has already been the cause of many hardy expressions.

Upon the verdant terraces thousands of crocus, dotted here and there, are in full bloom, and the admiration of the throngs of visitors.  
 Content Garden at this season will be full of gladioli, geraniums, and fuchsias, principally. This is not the market of the great metropolises, but I venture to assert that pelargoniums being grown by William Scott and the fuchsias of Chris. Christensen are not surpassed, if equaled, by the best growers on the other side. These two classes of plants are becoming more popular each spring, and can be grown cheaply and profitably and come in a period when blooming plants in pots are not very plentiful. Zonale geraniums are also grown as specimens, as also in vast numbers to plant out.

At Corfu Mr. Scott is encouraging the propagation of wild fowl. Hither he flies himself to shoot and to escape the assaults of the drummer, as being of a peaceful nature, he cannot resist their persistent attacks. I hear his carnations are looking well under the care of his son, Alec. He intends adding to the plant this season.

Mr. Christensen will retire from active life for a while after July next; but we shall doubtless see him again in the city on no distant date. (I mean, of course, the commercial ring.) Chris. cannot remain long out of business. W. M.

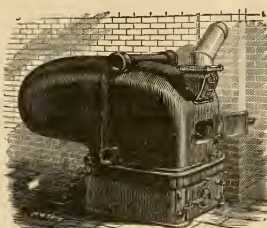
**LORD & BURNHAM CO.,**  
**HORTICULTURAL ARCHITECTS AND BUILDERS,**  
**STEAM AND HOT WATER HEATING ENGINEERS.**  
 Plans and Estimates furnished on application.



Largest Builders of Greenhouse Structures. Six Highest Awards at the World's Fair.  
 Send four cent postage for Illustrated Catalogue.

**LORD & BURNHAM CO.,**  
 ARCHITECTURAL OFFICE, 160 FIFTH AVE., COR. 21st STREET, NEW YORK.  
 Factory: Irvington-on-Hudson, New York. Section paper

**GREENHOUSE HEATING AND VENTILATING,**  
 Horticultural Architecture and Building.



SEND 4c. POSTAGE FOR ILLUSTRATED CATALOGUE.

**Hitchings & Co**

ESTABLISHED 1844.  
 233 Mercer Street, NEW YORK  
**FIVE PATTERNS OF BOILERS.**  
 NINETEEN SIZES.  
 Perfect Sash Raising Apparatus.  
 Reehouses, Greenhouses, Etc., of Iron  
 Frame Construction erected complete  
 or the Structural Iron Work shipped  
 ready for erection.  
 Iron Frame Benches with the  
 "Perfect Drainage Bench Top"  
 or Slate Tops.

**Grant's Improved Challenge.**  
 Roller bearing, self-oiling device  
 an improvement on the roller lock that  
 makes the IMPROVED CHAL-  
 LANGE the most perfect appar-  
 atus in the market.  
 Write for catalogue and prices  
 before placing your orders else-  
 where.  
**Quaker City Machine Co.,**  
 RICHMOND, IND.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**SUMMER IN WINTER**  
 By Using  
**Standard Greenhouse Boilers**  
 One cent gets on Catalogue.

**GIBLIN & CO., - Utica, N. Y**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Chadborn's Automatic Ventilator**  
**CHADBORN, KENNEDY & CO.**  
 NEWBURGH, N. Y.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**VALVES, FITTINGS AND VENTILATING APPARATUS.**  
**COLDWELL-WILCOX CO.,**  
 Newburgh, N. Y.  
 Mention paper.

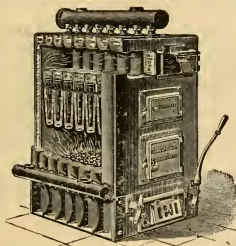
The Strength of a Child  
 pushes the "Simplex" Hose Mender into place.  
 No tools required.  
 The Strength of a Horse  
 cannot pull it out.  
 1/2 inch or 3/4 inch by mail, 10 cts.  
 Couplings 25 cts. per set.

**ELECTRIC HOSE**  
 can be bent double, twisted into any shape,  
 or run over by teams without injury. Send  
 for sample.  
**A GOOD LAWN SPRINKLER,**  
 By mail, \$1.00.  
**KING & KNIGHT, 35 E. Wendell Street, Boston**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**The Osby Ventilating System**  
**F. A. Osby**  
 71 Summer St.  
 MELROSE, MASS.

**MASTICA**

FOR GLAZING GREENHOUSES. SUPERIOR TO PUTTY IN EVERY WAY.  
 Is not hardened by the extreme heat or cold that a greenhouse is constantly subjected to both inside and out. Mastica is adhesive and remains permanently elastic so that it is not forced out of place by expansion and contraction of the woodwork. However glazed with Mastica do not need re-glazing, thus saving time and expense. With Mastica can "bed-in" or use on the outside, but with a machine only.  
 Mastica and Mastic Glazing Machine were given  
**HIGHEST AWARD OF SOCIETY OF AMERICAN FLORISTS AT PITTSBURG, 1895.**  
 Put up in gallons, \$1.00. Half gallons, 60 cts. Quarter gallons, 35 cts.  
 Mastic Glazing Machines, \$1.00 each.  
 Send for full descriptive circular and testimonials. Agents in all the principal cities.  
**F. O. PIERCE CO., Sole Manufacturers, 170 Fulton St., New York.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE



**ATTENTION, FLORISTS!**  
 It will be to your advantage to look into the merits of the Scollay "Invincible" Hot Water Boiler.  
 It is all that its name implies, and don't forget it.  
 Cuts and full information mailed on application.  
**JOHN A. SCOLLAY,**  
 74 & 76 MYRTLE AVE.,  
 BROOKLYN, NEW YORK.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CYPRESS GREENHOUSE MATERIAL**  
 OF ANY DESCRIPTION.  
 SEND FOR CATALOGUE.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

IF YOU WANT  
**A GOOD SASH LIFT**  
 For a Very Little Money Get



For Descriptive Catalogue Send to  
**J. D. CARMODY, Evansville, Ind.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CYPRESS IS MUCH MORE DURABLE THAN PINE.**  
**CYPRESS SASH BARS**  
 UP TO 32 FEET IN LENGTH OR LONGER.  
**GREENHOUSE AND OTHER BUILDING MATERIAL.**  
 Send for our Illustrated Book "CYPRESS LUMBER AND ITS USES." Send for our Special Greenhouse Circular.  
**THE A. T. STEARNS LUMBER CO.,**  
 Neponset, Boston, Mass.

**TRADE GREENHOUSES.**  
 THE BEST MADE.  
 "Florists" Get Your Plans and Estimate from  
**PLENTY'S HORTICULTURAL WORKS,**  
 148-156 Randolph Ave., JERSEY CITY, N. J.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**STANDARD VENTILATING MACHINE.**  
 NONE EQUAL IT IN Strength AND Durability  
 NOTHING Flimsy OR Complicated about it.  
**E. HIPPARD, YOUNGSTOWN, OHIO.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE



**Wholesale Florists** **JOBBERS IN**  
 ADVANCE OF HATS: **FLORISTS' SUPPLIES.**  
*N. F. McCarthy*  
**FLORISTS' VASES.**  
 Horticultural usefulness.  
 84 HAWLEY STREET, BOSTON.

**GEO. A. SUTHERLAND,**  
 Successor to W. A. STEWART,  
**CUT FLOWERS and FLORISTS' SUPPLIES**  
**WHOLESALE.**  
 67 Bromfield St., Boston, Mass.

**City Hall Cut Flower Market**  
**WELCH BROS., Props.**  
 Regular Consignors Great Space Free of Charge. Space let to growers wishing to sell their own goods.  
 Flowers shipped to all Points.  
**SEND FOR PRICE LIST...**

**W. ELLISON,**  
**Wholesale Cut Flowers,**  
 Florist Supplies. Wire Designs.  
 2744 Franklin Ave., ST. LOUIS, MO.

**CHAS. G. FLECKENSTEIN,**  
**Wholesale Flowers,**  
 1323 PINE STREET,  
 ...ST. LOUIS, MO.

**C. A. KUEHN,**  
**Wholesale Florist,**  
 1122 Pine St., St. Louis, Mo.  
 A COMPLETE LINE OF WIRE DESIGNS.

**C. W. WORS,**  
**Wholesale Florist,**  
 313 N. LEFFINGWELL AVENUE,  
**ST. LOUIS, MO.**  
**FINE ROSES**—Shipped carefully to all parts of the country.

**ROGERS PARK FLORAL CO.,**  
**Wholesale Growers of Cut Flowers**  
 OFFICE and SALESROOM,  
 41 WABASH AVE., CHICAGO.  
 Headquarters for AMERICAN BEETTES.

**HEADQUARTERS** In Western  
**ROSES, CARNATIONS and**  
**ALL SEASONABLE FLOWERS.**  
**WM. F. KASTING,** Wholesale  
 436 Washington Street,  
 BUFFALO, N. Y.  
*Also Dealer in Florists' Supplies & Wire Designs*

**E. G. HILL & CO.,**  
**Wholesale Florists,**  
 RICHMOND, INDIANA.  
 WHICH WRITING MENTION THE FLORISTS' EXCHANGE

**TOBACCO STEMS** 75 Cts. per 100 lbs.  
 (Bales weigh about 400 lbs.)  
 THE BEST AND STURDIEST BUT NOT FREE,  
 NOT OLD DRIED UP STEPPY. You can get the best of  
 H. A. SLOOTH, 313 Madison Ave., N. Y.

**WHEN WRITING MENTION THE FLORISTS' EXCHANGE**  
**ASPARAGUS PLUMOSUS NANUS,**  
 Cut Strings, 8 to 10 feet long,  
 50 cts. each.  
 Shipped to any part of the  
 Country.  
**W. H. ELLIOTT,** - Brighton, Mass.

**WHEN WRITING MENTION THE FLORISTS' EXCHANGE**  
**STANDARD POTS.**  
 We are now ready to supply a superior  
 quality of Pots in unlimited quantities.  
 Catalogues and price lists furnished on  
 application.  
**A. H. HEWS & CO.,**  
 NORTH CAMBRIDGE, - MASS.  
 WHICH WRITING MENTION THE FLORISTS' EXCHANGE

**STANDARD FLOWER POTS**  
 We manufacture a full line of Standard Pots,  
 Seed Pans, Cylinders, glazed and unglazed,  
 Lawn Vases and Hanging Vases, which  
 these bargains. Lawn Vases, 1 1/2 inch, \$1.00 each;  
 1 1/2 inch, \$1.50 each. Ferns, Baskets, 12 inch high,  
 50 cts. each; 20,000 3 inch pots, at \$1.00 per 1000;  
 40,000 3 inch pots, at \$1.00 per 1000.  
 Send for Price List for other seasons before ordering  
 elsewhere. Address:  
**HILFINGER BROS.,** Fort Edward, N. Y.  
 or AUGUST ROLKER & SONS,  
 136 & 138 W. 24th St., N. Y. City.  
 WHICH WRITING MENTION THE FLORISTS' EXCHANGE

**WHEN WRITING MENTION THE FLORISTS' EXCHANGE**  
**Standard Flower Pots.**  
 Send for our New Price List with extra discounts. All our Pots, from 7 in. and upwards, have  
 our Patent Eolant Bottom, which is a great advantage, as it insures perfect drainage.  
 A FULL LINE OF BULB PANS.  
**THE WHILLDIN POTTERY CO.,** 713 to 719 Manhattan Street, PHILADELPHIA.  
 BRANCH HOUSES: { Jackson Ave. and Pearson St., Long Island City, N. Y.

**WHEN WRITING MENTION THE FLORISTS' EXCHANGE**  
**GLASS** FOR GREENHOUSES, CONSERVATORIES, GRAPERIES, HOTBEDS and  
 FLORISTS' USE GENERALLY, AT LOWEST RATES.  
**L. HARRIS & SON,**  
 497 W. BROADWAY, NEW YORK, 80 LIBERTY ST., NEW YORK  
 (at Bowles and Bleeker Sts.) (at Broadway and Canal Sts.)

**WHEN WRITING MENTION THE FLORISTS' EXCHANGE**  
**GLASS!** For Greenhouses, Conservatories,  
 Graperies, Hotbeds and all other  
 purposes, at Lowest Rates. **GLASS!**  
**N. COWEN'S SON** 392 & 394 West Broadway, New York.  
 Formerly 154 and 156 So. Fifth Avenue.  
 Get our Figures before buying Glass. - - - Estimates Freely Given.

**WHEN WRITING MENTION THE FLORISTS' EXCHANGE**  
**THE VAN REYPER**  
**PERFECT GLAZIERS' POINTS**  
 No rights or lefts. Prices per box of 1000, 60c.  
 by mail, 75c.; 1 in lot of 5000 by ex., 55c. per 1000  
**HENRY A. DREER,** 714 Chestnut St., Phila., Pa.

**WHEN WRITING MENTION THE FLORISTS' EXCHANGE**  
**GREENHOUSE GLASS.**  
 THE WOOD GLASS COMPANY,  
 226 N. SALINA ST., SYRACUSE, N. Y.

**WHEN WRITING MENTION THE FLORISTS' EXCHANGE**  
**GLASS** For GREENHOUSES, CONSERVATORIES,  
 GRAPERIES, HOTHOUSES AND HOTBEDS. **GLASS**  
**VANHOREN GRIFFEN & CO.**  
 Agents for CHAMBERS & McKEE CO., Jeannette Brands American Glass.  
 Importers of French Glass. 13, 15 & 17 LAIGHT ST., AND  
 52, 54 & 56 VARICK ST., NEW YORK.

**WHEN WRITING MENTION THE FLORISTS' EXCHANGE**  
**FLOWER POTS**  
 We are manufacturing a Full Line of  
**STANDARD FLOWER POTS and HANGING BASKETS**  
 OF THE BEST QUALITY.  
 Shipping Packages First-Class, thereby Securing Lowest Freight Rates.  
 Our goods are well packed, and breakage is nominal. Give us a trial. Send for Price List.  
 Address **THE SYRACUSE POTTERY CO.,** 403 N. SALINA ST., SYRACUSE, N. Y.

**JOHN CONLEY & SON,**  
 MANUFACTURERS OF  
**TIN FOIL**  
 2 and 4 Dominick Street,  
**NEW YORK.**  
 WHICH WRITING MENTION THE FLORISTS' EXCHANGE

**CUT SMILAX.**  
 12c. per string, heavy, 6 to 15 strands.  
**A. J. BALDWIN,** Newark, O.  
 WHICH WRITING MENTION THE FLORISTS' EXCHANGE

**CUT SMILAX**  
 12 cents per string.  
**THE NATIONAL PLANT CO.,**  
 Dayton, Ohio.  
 WHICH WRITING MENTION THE FLORISTS' EXCHANGE

**CUT SMILAX**  
 Choice 8 foot string, 100 ft. Y. Market rates.  
 Annual output 50,000 strings.  
**ADIANTUM CUNEATUM**  
 Extra fine fronds, \$1.00 per 100.  
**GUSTAVE SCHRADER**  
 Cut Flower Culture, Hoffman Boulevard,  
 New York. NEWTON, I. J., N. Y.

**WHEN WRITING MENTION THE FLORISTS' EXCHANGE**  
**10,000 HARRISH**  
 \$8.00 per 100 buds and blooms in pots.  
 \$8.00 per 100, cut.  
 It is well for those who order, to order before  
 they are thoroughly opened, as they will  
 ship better.  
 Cash With Order.  
**WM. A. BOCK,**  
 NORTH CAMBRIDGE, MASS.  
 WHICH WRITING MENTION THE FLORISTS' EXCHANGE

**WHEN WRITING MENTION THE FLORISTS' EXCHANGE**  
**BOOK CATALOGUE.**  
 We have just issued the most Select and  
 Complete Catalogue of Books on Horticultural  
 and Allied Subjects, ever published. The catalogues of the various book pub-  
 lishers of this country as well as of Europe,  
 have been carefully gone through, and such  
 works taken therefrom as were considered  
 suitable for our patrons.  
 This catalogue contains 96 pages, and  
 embraces  
 ...BOOKS for  
 The Florist  
 The Market Gardener  
 The Nurseryman  
 The Fruit Grower  
 The Seedsman  
 The Student of Botany, Entomology and Ornithology  
 The Poultry Keeper  
 The Farmer  
 The Lover of Plants and Flowers  
 and the Student of Nature in general, in fact  
**BOOKS FOR EVERYBODY**  
 interested in the science and practice of  
 rural economy.  
 A select clubbing list of periodicals, home  
 and foreign, is also furnished through which  
 a considerable saving may be effected in  
 their purchase.  
 This handy catalogue will be sent on  
 application, accompanied by a two-cent  
 stamp. Address  
**A. T. DE LA MARE PTG. AND PUB. CO. LTD.**  
 P. O. Box 1897, New York.

# DU PRESIDENT CARNOT

SEE ADVERTISEMENT IN NEXT WEEK'S ISSUE.

## E. G. H. & CO., STRAUSS & CO., ROBERT CRAIG,

RICHMOND, IND.

WASHINGTON, D. C.

PHILADELPHIA, PA.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

### THE PUBLIC AUCTION

Of my Plants will take place on WEDNESDAY MORNING, MAY 12, commencing at 10 o'clock, on the premises, 1510 Greenmont Ave., opposite the entrance of Greenmont Cemetery, Baltimore, Md. City and Suburban R. R. cars pass the place.

The following stock will be offered (unless disposed of at private sale). All my plants, which consist of the following varieties: About 6000 choice Roses, one, two and three years old, in splendid condition, to be tied up and ready for market and all grown in cold frames all winter, about 50 named kinds of the choicest varieties; 2000 or more of the finest and best varieties of Camellia Japonica, about 75 named varieties and each plant named true, in 4, 5, 6 and 7 in. pots, together with some hundreds of large plants in large pots; 200 or more Orchids of different kinds, some large plants of Dendrobium Nobile, Phalaena, etc., also about 50 Cypripedium insigne and others, grown in large flats, having had from 25 to 50 flowers each many of them; in fact I raised \$50 for eleven of them last fall, the blooms having paid a much larger interest than that value. There are 300 or more Palms for decorative purposes, consisting of Kentias, some large specimens of Araucarias, Yucca, etc., and some variegated; a large lot of Azaleas suitable for large decorations, 2000 or more Geraniums in 4 in. pots of choice leading kinds; 2000 Carnations in pots, 2 1/2 to 3 in. pots, many coming in bloom, all choice kinds, named, many of them seedlings as true as the best, some pure yellow without spot and many dwarf. Marie Louise Violets in 4 in. pots, ready for planting out and some in frames. Oxalis, Esculentum in pots with leaves; 200 or more American Poinsettia Nans; 1500 Hecht Seed, 4 feet, together with thousands of miscellaneous plants too numerous to mention. All good reliable stock.

JAMES PENTLAND, Florist, BALTIMORE, MD  
1510 Greenmont Ave.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

NEW CANNA ITALIA, \$4.50 per Dozen.

NEW CANNA AUSTRIA, \$2.50 per Dozen.

Or the two in equal quantities at \$1.00 each.

American Flag, Mrs. Fairman Rogers, Chicago, Columbia, Queen Charlotte, Golden Queen, Primo, Salmon Queen, Scarlet Gem and Rosalind at \$2.00 per doz.; \$12.00 per 100. All good strong plants in 4 in. pots, ready for planting out.

Also Alphonse Bouvier, Charles Henderson, Eganade, Florence Vaughan, J. D. Cabos, Madame Crozy, Paul Marquand, Wm. Elliott, at \$1.00 per doz.; \$7.00 per 100. Strong, 4 inch stock.

JOHN N. MAY, Summit, New Jersey.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Carnations.—Bushy plants furcosem Boweries, \$4.00 per 100.  
Chrysanthemums.—All the best standard varieties, from pots, \$1.00 per doz.  
Mrs. H. Robinson, \$1.50 per 100.  
Clematis flammula.—Strong plants from 3 inch pots, \$3.00 per 100; \$4.00 per 100.  
Violets.—California, Marie Louise, single, white from 3/4 inch pots, \$4.00 per 100. Lady H. Campbell, double, \$4.00 per 100.  
C. EISEL, 314 Jefferson Street, Philadelphia, Pa.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

### FOR EXCHANGE.

4000 *Canna Robusta Perfecta* (all red fol. var.), dormant, 25 cts. For small plants of *Colchus*, *Vandaeftelii* and *Golden Badder*; German Ivy, sweet scented *Geraniums*, *Fuchsia*, *Salvia splendens*, etc.

W. A. LEE, Burlington, Vt.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

### Columbia Canna

BEST RED. DRY ROOTS.  
\$1.50 per Dozen. Cash.  
EDWIN A. SEIDEWITZ,  
36 W. LEXINGTON ST., BALTIMORE, MD.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

### Prize-Winning DAHLIAS

AN UNPRECEDENTED RECORD.

23 First Prizes, Certificate of Merit, 2 Diplomas, and highest mention everywhere. If you want the very best Dahlias that bloom, send for our 1897 descriptive trade list now ready. Address

W. P. PEACOCK,  
Dahlia Specialist, ATCO, N. J.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

### BEGONIAS, TUBEROSES and GLADIOLI.

Have to offer an Extra Choice lot of Tuberoses Rooted Begonias, Single, large size, in 4 different colors—White, Pale Yellow and scarlet—at the following prices—100 for \$2.00; 1000 for \$18.00; 5000 for \$80.00.  
EXCELLENCE PEARL TUBEROSE BULBS—Large size at \$1.00 per 100; 500 for \$50.00; 1000 for \$90.00.  
Second size at 50 cents per 100, 500 for \$25.00; 1000 for \$45.00.  
OLADIOLI—Finest mixed colors on the market. Large size, \$1.00 for 100; 500 for \$50.00; 1000 for \$90.00. Second size, 50 cents per 100; 500 for \$25.00; 1000 for \$45.00.  
All sizes, colors are the best on the market, and I guarantee satisfaction. Prices quoted are for bulbs to be sent by express or freight. If larger quantities are wanted, ask for special quotations. Stock limited, but all orders will be filled promptly as far as it remains unsold. Address  
F. H. MILLS, Secedman, Box 200, Rose Hill, New York  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

### LILIAM LONGIFLORUM.

CONTRACTS for small and large quantities closed now. Crop is going to be short. Prices to meet competition. Don't overlook this, but write at once to

F. W. O. SCHMITZ,  
Jersey City, N. J.  
LARGEST AND BEST STOCK OF PREPARED CYCAS LEAVES

TO BE FOUND ANYWHERE

Metal Floral Designs, Sheaves, Doves, Baskets, Moss Wreaths, Wheat, Milkweeds, Cape Flowers, Wire Work, and all Florists' Supplies.  
Write for catalogue. Free to the trade.

A. HERRMANN, 404-412 East 34th Street (Near Ferry), New York,  
Manufacturer of METAL FLORAL DESIGNS, Importer and Dealer in FLORISTS' SUPPLIES.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

### Florists' Supplies..

Large Stock in the Country  
All goods up to date, and of superior quality. Send for Illustrated Catalogue.

### GALAX LEAVES

H. BAYERSDORFER & CO.,  
56 N. FOURTH STREET, PHILADELPHIA, PA.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

### CYCAS LEAVES and FUNERAL SHEAVES

BASKETS AND SUPPLIES, SEEDS and SPRING BULBS.  
At wholesale only; apply for lists. Address  
AUGUST ROLKER & SONS, NEW YORK,  
136 and 138 West 24th Street. P. O. Station E.

MENTION THE FLORISTS' EXCHANGE

# THE FLORISTS' EXCHANGE

We are a straight shoot and aim to grow into a vigorous plant.

A WEEKLY MEDIUM OF INTERCHANGE FOR FLORISTS, NURSERYMEN, SEEDSMEN AND THE TRADE IN GENERAL.

VOL. IX. NO. 20.

NEW YORK, MAY 15, 1897.

One Dollar Per Year.

## A FEW SPECIAL BARGAINS

For immediate delivery, subject to stock being unsold.

Lilium speciosum rubrum, 7-9 inches.....	\$4 00 per 100
Lilium speciosum rubrum, 9-11 inches.....	5 00 per 100
Lilium speciosum album, 7-9 inches.....	7 00 per 100
Lilium speciosum album, 9-11 inches.....	8 50 per 100
Gladiolus, American Hybrids, Mixed.....	10 00 per 1000
Gladiolus, Florists' White and Light.....	25 00 per 1000
Gladiolus, Standard White and Light.....	12 50 per 1000
Dwarf Pearl Tuberoses, 4-6 inches, only about 3000 left.....	6 00 per 1000

## ASSORTED FERNS FOR JARDINIÈRES

We have ready for immediate delivery a fine assortment of the best hardy varieties of Ferns, such as are best adapted for filling jardinières, and for table work. **Strong Plants, 2 inch Pots, \$4.00 per 100; \$30.00 per 1000.**

## ADIANTUM CUNEATUM.

We have a specially fine lot of this popular variety, ready for immediate shipment, from 3 in. Pots, at **\$7.00 per 100; \$65 per 1000.**

## LATANIA BORBONICA.

Fine strong plants, from 2 in. Pots, ready to shift into 3 in. Pots, at the exceptionally low price of **\$4.00 per 100; \$25 per 1000.**

## PITCHER & MANDA, Short Hills, N. J.

JOHN N. MAY, Receiver.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## LOOK AT THESE BARGAINS

**SPEAK QUICK IF YOU WANT THEM.**

We offer at these low prices in order to close out our stocks, as it is getting late in the season. Although the prices are exceedingly low, the goods are first-class in every respect; low prices are not at the expense of quality. If you can use a few of these bargains, let us have your order before stocks are gone.

### DOUBLE TUBEROSE BEGONIAS.

In Separate Colors—White, Pink, Scarlet and Yellow.

We offer these at only **\$6.00 per hundred**—a little more than the price of Single Begonias. This is an opportunity to secure the finest strain of Double Begonias at a nominal price.

### TUBEROSE PEARL.

We have a fine lot of very fine bulbs in the very best possible condition—clean, dry, and hard, free from scald, and in perfectly sound condition in every respect—bulbs running well up to size. We offer these at **\$1.00 per hundred; \$6.00 per thousand; 5000 lots at \$5.00 per thousand.**

### COCOS WEDDELIANA.

Fresh Seed in Perfect Shape. We offer this as long as unsold at **\$6.00 per thousand.**

## F. R. PIERSON CO.,

TARRYTOWN-ON-HUDSON, NEW YORK.

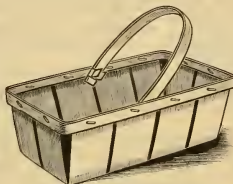
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## HIGH GRADE SEEDS AND BULBS

### Verbena Baskets.

Strong, well made, with handles,

\$2.25 per 100. Special prices for large lots.



### Smilax String.

The best String in the market for this purpose. 75c per box (6 spools, 200 yards each). Special price for large lots.



## IRON BOUQUET HOLDERS.

Tulip shape, No. 4, 20 cts.; No. 5, 25 cts.; No. 1, 35 cts. each.  
Tulip shape, galvanized, No. 4, 30 cts.; No. 5, 35 cts.; No. 1, 45 cts. each.  
Lily shape, No. 0, 30 cts.; No. 6, 30 cts. each.  
Lily shape, galvanized, No. 0, 30 cts.; No. 6, 50 cts. each.

## F. E. McALLISTER CO. Seed and Bulb Merchants, 69 Cortlandt St. N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## J. M. THORBURN & CO.

ESTABLISHED 1802.

### ARECA LUTESCENS SEED

We have just received a fine lot of which we offer, so long as unsold, at **\$1.00 per 100 seeds; \$5.00 per 1000 seeds.**

### COCOS WEDDELIANA SEED

at **\$1.25 per 100 seeds; \$10.00 per 1000 seeds.**

## J. M. THORBURN & CO. HIGH CLASS SEEDS AND BULBS,

15 John Street, New York.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE



**SEED TRADE REPORT.**

Points and information from seedsmen, and all interested in this column, solicited. Address Editor **SAUNDERS**, care of **FLORISTS' EXCHANGE**, P. O. Box 107, New York.

**Seed Trade Association.**—The annual meeting of the American Seed Trade Association takes place at the Elbitt House, Washington, D. C., June 8, 9, 10, next. An interesting programme is being prepared, which includes several papers by well-known experts; also provides for a full discussion of the most important seed distribution and the Davidson bill to regulate imported seeds.

**Lima Beans in California.**—There are 5,000 acres less land devoted to lima bean growing in California, than last year. Farmers say the sugar beet is doing better than beans and are growing the former on land heretofore used for beans. It is aimed the three counties of Santa Barbara, Ventura and San Luis Obispo can supply all the beans mustered demanded in the United States.

**Seed Crops on Long Island.**—The outlook for the grower is by no means as favorable as it was when we made a report two weeks ago. That report was barely in type before we had a sudden fall in temperature, the thermometer indicating seven degrees below, the effect of which is beginning to be severely felt.

Beans suffered more than any other crop; its growth has been checked, in some cases to such an extent that the whole crop has been ploughed under. The dry, cool weather of the past two weeks has been unpropitious to the growth of the pieces put in late. There was a large acreage planted, and the hope that will be sufficient for filling all contracts, but there will be none left over for early sowing in.

Turnip looking badly, the maggot having commenced its deadly work. However, it will not be the slightest effect on the turnip seed trade of our country, as there is but little grown in this section.

Rutabagas are looking better and there is every prospect of a good crop. The cauliflower, however, as a whole. Of course, there are some poor pieces, but the indications are favorable for a good crop upon which no calculations can be made. Elchit, stem-rot and maggot are enemies that may be looked out until the crop is ready for the harvest. But the deadliest foe, with us, is a heavy and continued rain when the plants are in flower, which destroys the little beetle, the agent of fertilization, without whose help we should have but little seed.

Fall-sown spinach suffered somewhat from the cold snap, but is recovering, and there is every prospect of a good yield. The spring-sown crops are looking splendid and we look for a large harvest.

**European Notes.**

**Vegetation Backward.**

Favorable weather has arrived at last and vegetation is active in all directions. Compared with 1896, we are fully two weeks behind, but as the season is moist beneath the surface we are in a comparatively better position.

Radish, cress, spinach and mustard are now showing through the ground in all exposed situations. The Brussels, etc., sown for 1888, are also in evidence, but very early sowings of French and Italian cauliflower have been cleared off in many places by fly. The destructive effects of the flea-beetle are also apparent in every hand, but none of our crops has suffered to the same extent as early sown turnips. In some of the most favored districts, particularly in England and the West Indies, the clearances and those where the plants are still standing present a very sorry appearance. The same remarks apply to the crops of these two articles already given in the notes is more favorable than that of the plants the writer warrants us in expecting to-day.

**New Nasturtiums.**

The boom in nasturtiums on both sides of the Atlantic has given an impetus to the trade in bedding tropaeolum. Where a definite effect is aimed at these are to be preferred to nasturtiums, which are at all times liable to sport, and they have also this further recommendation that with a little care they can be had in bloom nearly all the year round. The Royal Horticultural Society of London, has bestowed its award of merit on the following: Coolgardie, a pure, bright, yellow; Mrs. Sanderson, a rich, ruby crimson, early, very free flowering, with an agreeable perfume; and Phoebe, a dark shade of buff, with deep crimson blotch, the petals are freely at all times. The last-named is very similar to a variety handed to the writer by Mr. Gleason, at Boston, in 1881, and appears to be the only thing of the kind in commerce.

**Jamo's work in Hybridizing Glacaria.**

James J. Crameria, has entered the ranks of the hybridizers, referred to a few weeks back, and judging by the plants exhibited by him on April 1st, his efforts have been very successful. The first step consisted in hybridizing C. hybrida with C. cruenta. The result being flowers rather larger than C. cruenta and distinctly marked with some of the more clearly-defined colors of the latter strain. The second step consisted in hybridizing this cross with C. lanata. The results of the latter effort are both interesting and beautiful, and one variety in particular should have a great future before it. The plant is of vigorous habit and elegant form, throwing out numerous branches with long stems, which are covered with a woolly downy substance, and terminate in large flower heads of white flowers, about one and one-quarter inch in diameter. There is a very faint shade of color in the centre when the plant is standing in a clear light. The color of the flower is white. Its elegant form will render it very valuable as a pot plant, while the long stems of the foliage render it serviceable for every branch of the florist's art. Unfortunately, it does not appear to produce pollen, so for the present, at any rate, the seedsmen must take a back seat; but those who also do not trade in plants should not have any difficulty in obtaining a supply.

EUROPEAN SEEDS.

**Boronia Elator.**

Boronia elator is a native of Western Australia and was introduced into Europe in 1874. Since that date a few plants from time to time have been sent to this country, mainly for private collections. The past Easter was the first time this boronia was offered in quantities, commercially, as a decorative plant, and as such it, together with *Boronia heterophylla*, has met with a good deal of favor from the buying public. The last-named is the most popular in this country, and is the most numerous variety. In this climate it apparently flowers more freely, so much so that it is a fair rival to an absence of green foliage. For that reason the subject of our illustration is likely to be the more popular of the two on account of the pretty blending of its young, green growths with the flowers, the very deep red of the latter showing well with the former.

Preparation is from cuttings which need to be sowed in soil having them too fat or young; yet they need to be scarcely half ripened. Such wood roots easily in a four-inch pot, set in glass in a temperature of 63 degrees, and keep the roots moist and cool. When ready for the next shift, which should be into a four-inch pot, make the compost a little stiffer and use coarse sand. In the after care of the plants the main points to be observed are to keep them cool and avoid high temperature. In this respect the treatment is identical with that of *Boronia heterophylla*. In the winter keep the house as cool as possible—45 to 50 degrees—and water freely. (See illustration page 491.)

**Freepart. L. I.**

CARL LENKER has purchased ten acres of land here for nursery and florist purposes. He takes possession on the 15th inst. and will have a greenhouse 24x200 feet for general purposes.



The above shows the main portion of

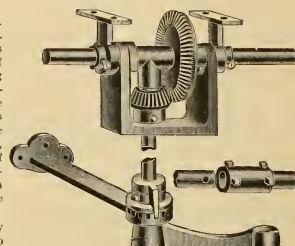
**THE ORMSBY SYSTEM**

LOOK IT OVER THOROUGHLY.

THIS system consists of a 5-in. solid steel rod, supported in suitable hangers adapted to different style of houses. The upright lifting bar or rack attaches to the ventilators and intersects with the cog wheel in which it travels when raising and lowering the ventilators. (On the left side, and passing over the back of the rack is the guide, used to prevent the teeth of the rack from separating from those of the cog wheel.

This is held in position by the collar at the left. It is so constructed that it cannot bind on the rack nor separate from its position.

The SPRING is the ALL-IMPORTANT in the Ormsby System; it is made of the very best grade of STEEL. Without this the system would not be worthy your consideration.



The set of bevelled gears, and its connections, used simply to operate the horizontal rack that the ventilators are attached to; also its lock and latch, used as an additional security to locking the ventilators at any required point.

**E. A. ORMSBY, Melrose, Mass.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**ORCHIDS FOR CUTTING.**

The Largest and Finest Stock in the World.

**T. SANDER & CO.** (S. Albans, England, and Brussels, Belgium.)

Agents, A. DIMMOCK, care of Webster & Don, Seedsmen, 114 Chambers St., N. Y. City.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WANTED TO SELL ABOUT

**200 SAGO PALM LEAVES,**

Free and guaranteed A1 condition, arrange 3 ft. and lot in little of condition, average 2 to 3 ft. Make separate order per 100. Will be sent in burlap supplies or palms, etc., and last cash.

Address **PALM LEAVES**, care Florists' Exchange.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Cabbage Seed**

80 CENTS PER LB.

Henderson's Succession, Winozand & Potley's Brunswick, Snowball Cauliflower, \$1.25 per cwt. Seed is strictly fresh and first-class. Advance cents per lb. postage.

**E. J. HULL, Olyphant, Pa.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**PEACH AND PLUM TREES**

DELIVERED 1897. Fruit and close stock of our wholesale rates. All desirable leading varieties of PEACHES, and PLUMS, and other trees. Also the new Triumph, Greenbush, and Speed fruiting trees and low priced. Buds can be supplied of those also, either from nurseries or orchard trees. Have all the above trees in stock with the following: Wholesome Nursery and Fruit, Hilditch, Chobot, Sasuma, Willard and others. Also the best of all kinds of fruit trees. Write for a list of our prices. Correspondence solicited. Address: **ALEXANDER PULLEN**, Millard Nurseries, Millard, Del.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**VEGETABLE PLANTS.**

Jersey Wakefield, Early Summer and Red Cabbage, \$2.00 per 100. Cauliflower, sweet Italian, \$2.00 per 100. Write to plant in stock.

**J. G. SCHMIDT & CO., Bristol, Pa.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**ET in Trenches**

2 to 3 feet..... \$2.00 per 100  
1 1/2 to 2 feet..... \$3.00 "

**Ampelopsis Veitchii**

2 ft., 5 cts. 8 ft., 7 1/2 cts.

**QUEEN CHARLOTTE, 4 in. pots, \$6.00 per 100. ALPHEUS BOUVER, MME. CROZY, CHAS. HENRIEYRON, 4 in. pots, \$5.00 per 100.**

**EMPRESS OF CHINA ROSES, 2 ft. high, 10 cts. each.**

**LATANIA BORBONICA, 3 in. pots, \$3.00 per 100.**

**THE ELIZABETH NURSERY CO., ELIZABETH, N. J.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**STORRS & HARRISON CO., Painesville, Ohio.**  
Wholesale Nursery and Florists.  
Can show the best blocks of Fruit and Ornamental Trees, Vines, Shrubs, Roses as can be found in the U. S. We grow 1 million Roses and million of plants annually. Trade list and Correspondence solicited. Address: **STORRS & HARRISON CO., Painesville, Ohio.**

Hail and Fire Insurance.

John G. Esler, secretary of the Florists' Hall Association, talked on this subject before a large and appreciative audience at the meeting of the New York Florists' Club, held Monday evening May 10. At the meeting, under the course, Mr. Esler read an account of a Texan hailstorm, given in the daily press wherein was stated that some of the hailstones were weighed from three to four pounds, and during the progress of the storm that two persons were killed by the hail. "This," said he, "was pretty tough, but it ought to have been some of our hailstones if not yet members of our association."

The speaker stated that the Florists' Hall Association was organized in June, 1887, so was within twenty days of the first decade of its existence. It came into being somewhat under a disadvantage. The S. A. F., as a body, had refused to father the project, and some of the horticulturalists started it on their own hook.

Today the association insures over half a million dollars, and its risks amount to over half a million of dollars. Within the past ten days the association has paid out losses amounting to between \$1,500 and \$1,800, and had paid out no insurance within the same period of over one hundred thousand feet of glass. The average rate of insurance to a member who had been in the association for ten years was 5-5 cents per 100 feet of single strength glass, and 100 feet of double-strength glass per annum.

Mr. Esler then facetiously commented on the experiences of those who had considered themselves outside the supply, and had believed in the results of which this imagined immunity from hailstorms had entailed, mentioning the cases of Pittsburg and New York, for example. He said there was only one region where glass was probably safe, that of Cambridge and New York, and extended over Union Hill and on to Long Island as far as Flatbush; but some say these losses would be out of the hail belt either.

One of the first to join the hail association was the late Mr. Willis Springborn, of Dubuque, Iowa, whose case, previous to that time, had been cited with had three different occasions. Strange to say, Mr. Springborn has paid seven different assessments and has received a dollar from the association. Since he became a member his greenhouses have evidently been outside the hail belt. [Laughter.]

Statistics show that the largest number of hailstorms within the past ten years had occurred in New York State. Missouri came next. New Jersey and Pennsylvania are very well up on the list and have had their share.

It had been observed that more losses have been experienced in the West than in the East, so that the Western people have greater need of hail insurance than those located in the East. Hence the association carries more insurance in the West. Whenever a storm occurs in the East the society pays the rate in having few of its members hit, those who suffered loss being unnumbered. There were many suggestions to this rule, however, Philadelphia being a notable instance.

In addition to being within the hail belts, there were some who counted on freedom from the danger consequent on hail storms from the fact that their places were sheltered by mountains. This view was then readily dispelled by experience, however.

As regards the resisting power of glass, Mr. Esler remarked that small glass always breaks the quickest, and that 16x24 size is not nearly so liable to be broken as is size 12x14, or smaller; but when a big pane gets broken the hail makes a larger hole, and that about equals the margin.

The speaker pronounced the effect of cutting off the hail, a good deal of resiliency to the hail. Coming to the subject of hail insurance, Mr. Esler remarked that under the present conditions of New Jersey there is an opportunity to organize what is known as a Fire Lloyds. This act has been twenty times before the legislature, but it has not been passed. If property worth \$20,000 or more is insured in a company, they have to deposit with the State \$40,000.

Of course, they receive interest on their bonds deposited, less State taxes and other assessments. Mr. Esler said that the speaker could see whereby a fire insurance company could be organized was for each individual to take out insurance to take say one per cent. of the amount of his insurance in stock. If this plan were adopted, the amount of insurance, would give \$40,000 worth of stock, which amount would act as a guarantee for the stockholders of the insurance, if any, together with the interest, less taxes, etc., would be apportioned among the stockholders as a dividend.

The chief difficulty, however, lay in the fact that which risk had to be started. We had to wait till Providence sent the hail, but in an old greenhouse it was not so easy. It was a simple matter to get up a conflagration. Another difficulty was in finding twenty or thirty persons in New Jersey, each possessed of \$20,000 worth of realty; and there was an obstacle in finding a proper man to manage the institution when once it was started.

Mr. Esler stated there was little hope of doing anything with the present insurance companies at present. Every time you raise the rate better risks drop off; every time the rate is raised the risks get poorer, and as the risks get poorer the rates get higher. It is a vicious circle, and every time the loss is greater the companies raise the rate. It is a kind of a vicious circle, and every time the underwriters throughout the country refuse to take any action whereby greenhouse owners can get any better rate at the present time.

Mr. Weathered stated that on account of the heavy demand for 16x24 glass, the present trade in the glass trade had advanced their rates on that size of panes, and that the result was prohibitory. This action was decided upon last week. The largest light to be obtained in the country is 16x24, larger than these is demanded more money will have to be paid for it. The trade has advanced the price of 16x24 glass ten per cent., and threatens to put it up higher if the demand for this size continues.

Mr. Mandt complained of the present insurance rates, and thought if a fire insurance company was started by the trade it would be a greater boon than the Hall Association even.

Mr. Weathered said it were not the fact that the regular Fire Lloyds insured at lower rates than the old fire insurance companies.

Mr. Esler stated that there existed a certain amount of prejudice against Fire Lloyds, and that the number of failures, and if such a company were started this prejudice would be very likely to be removed.

In answer to a question as to whether it was not possible to obtain a uniform rate for greenhouse property, Mr. Esler detailed the work of the fire insurance committee of the S. A. F., of which E. C. Nichols was secretary.

Mr. Weathered said that during this particular line, adding that if the florists of the country would assist that committee in their work, it would be a great boon to the industry.

Mr. Esler stated that there existed a certain amount of prejudice against Fire Lloyds, and that the number of failures, and if such a company were started this prejudice would be very likely to be removed.

In answer to a question as to whether it was not possible to obtain a uniform rate for greenhouse property, Mr. Esler detailed the work of the fire insurance committee of the S. A. F., of which E. C. Nichols was secretary.

NEPHROPSIS ELEGATA BOSQUINIENSIS. THE BOSTON DROOPING FERN.

All sold out of small size plants for the present. Orders still booked for June to August delivery. NOW READY in 10 inch plates at \$20, \$30 and \$50 per 100; \$5, \$10 and \$15 per 100; \$60, \$70, \$80 and \$100 per doz. Elegant plants in 4, 5, 6, 7 and 8 in. pots, from \$1 per dozen to \$10 per dozen.

L. H. FOSTER, 45 King Street, DORCHESTER, MASS.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

GOOD STOCK. LOW PRICES.

- Pandanus Urtica, 24-inch pots, extra strong, \$4.00 per dozen
Areca Lutescens, 4 in. pots, \$2.00 per dozen
Kentia Forsteriana, 4 in. pots, \$3.00 per dozen
Laural Roping, 4 in. pots, \$2.00 per dozen
Crown Fern Co., Millington, Mass.
Telegraph Office, New Salem, Mass.

Galax Leaves.

CHAS. H. RICKSECKER, Linville, N. C.
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

JULIUS ROEHRS

Headquarters for Palms and Decorative Plants.
RUTHERFORD, N. J.
P. O. Address, Carlton Hill, N. J.

500 LATANIA

We offer our own grown stock of LATANIA BORBONICA, having 6 to 8 leaves, 1st size, \$15.00 per doz.; 2d size, \$12.00 per doz.

JORDAN FLORAL CO. see office St. Louis, Mo.
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

PALMS

AND OTHER DECORATIVE PLANTS.
Send for Wholesale list. Special prices for large orders. Write in full of your wants.
W. J. HESSER, Flatbush, N.Y.

FERNIS

Pteris Tremula, Pteris Crinita, etc.
\$3.50 Per 100. CASH WITH ORDER.
CHAS. F. BAKER, Utica, N. Y.

FERNIS! FERNIS! HARDY CUT FERNS.

We have FIRST QUALITY, 70cts. per 100, fancy or better, in lots of your wants. We are sure to please you.

LAURAL ROPING, 4 cts. per yard.
All orders by mail or express.
CROWL FERN CO., Millington, Mass.
Telegraph Office, New Salem, Mass.

SIEBRECHT & SON.

The Largest and Finest Collection of PALMS.
DECAEENS, FICUS, and other FERNS, AKAUARIAS, etc., in all sizes.
Prices to suit all. One visit and you will always come back.

STOCK HOME-GROWN.
WHITE TELEGRAPH OR TELEPHONE, and OUR CATALOGUE FREE.
Rose Hill Nurseries, New Rochelle, N. Y.
New York Office, 409 Fifth Avenue.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

ARAUCARIA EXCELSA

SEEDLINGS.
5 to 6 inches high, 3 to 4 to trees, \$5.00 per dozen. Free by mail of course. Cash with orders.

Southern California Acclimating Association, Santa Barbara, Cal.
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

PALMS AND FERNIS.

THE LARGEST STOCK in the West.
GEO. WITTBOLD, CHICAGO.
1708 N. Halsted St.
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

ORCHIDS and GREENHOUSE PLANTS FOR SALE.

Address P. O. Box 665, ALBANY, N. Y.
Having disposed of several of my Greenhouses and the remainder being overgrown, I have decided to offer for sale the contents, consisting of the greater portion and the choicest specimens of my collection for the past 20 years, either singly or in quantities. They are all well established in fine condition, and many cannot be obtained in any other collection in America. A printed list sent on application. Sales made at reasonable prices.

E. CORNING.
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

FINE STOCK OF PALMS

ARECA LUTES, 5 in. pots, \$2.75
LATANIA BORBONICA, 4 in. pots, \$2.00
KENTIA FORSTERIANA, 4 in. pots, \$3.00
BELMORONA, 4 in. pots, \$4.00
FICUS ELASTICA, good stock, 17 to 18 in. pots, \$5.00
Palm stock, all sizes, \$1.00 per doz.

JOHN BADER, Allegheny City, Pa.
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

THE FERNIES FOR

AZALEA INDICA.
Greenhouse and American trade, from 8 to 15 inch diameter, \$15.00 to \$35.00 per 100.
KENTIA BELMORONA.
With 4, 5 and 6 character leaves, from 1 1/2 to 3 1/2 inch, \$3.00 to \$5.00 per 100.
REYNOLDSIA ALBA.
With 4, 5 and 6 character leaves, from 1 1/2 to 3 1/2 inch, \$3.00 to \$5.00 per 100.

LATANIA BORBONICA.
From 1 1/2 to 2 1/2 inch, \$3.00 to \$4.00 per 100.
CROWN FERN.
From 1 1/2 to 2 1/2 inch, \$3.00 to \$4.00 per 100.

ARECA LUTESCENS.
From 1 1/2 to 2 1/2 inch, \$3.00 to \$4.00 per 100.
ARAUCARIA EXCELSA.
From 1 1/2 to 2 1/2 inch, \$3.00 to \$4.00 per 100.

SWEEP BAYS.
Palmes and Standards, fine shaped trees, from 100 to 200 feet high.

ASPIDSTRAS LUCIDA.
Greenhouse and American trade, from 8 to 15 inch diameter, \$15.00 to \$35.00 per 100.

BEGONIA.
Single and Separate Colors.
From 1 1/2 to 2 1/2 inch, \$3.00 to \$4.00 per 100.

GLOXINIA BECCA (Hybrid).
From 1 1/2 to 2 1/2 inch, \$3.00 to \$4.00 per 100.

From unshown correspondence Cash, with 100 to 200 feet high.

ROYAL NURSERIES

DOUS AND HOOTE PÉRE
Ghent, Belgium.
WHEN WRITING MENTION THE FLORISTS' EXCHANGE



TEN DEGREES BELOW ZERO

is the temperature that has been undergone without injury by unrooted or yearling plants of the new climbing roses.

AGENDA OF YELLOW RAMBLER

In our nurseries the past Winter, thus proving it to be even harder than we had supposed. A Heavy Yellow Climbing Rose is what everyone has wanted for years and years, and therefore, no business as yet introduced.

150 Bunches in a Bush have frequently been produced by the Yellow Rambler, for it has the same manner of blooming in splendid big clusters as does the Crimson Rambler to which it is an extended cousin rose and probably related. The color is a clear decided yellow, the flowers of moderate size, very fragrant and last three to four weeks. The habit of growth is very vigorous, well established plants making about eight to ten feet high in a season.

We are the Introducers of this rose in this country, having been so appointed by Mr. Peter Lambert, the originator. We see also prepared to offer in large quantities of two other valuable climbing roses: EUPHROSYNE or PINK RAMBLER Color a clear light red, otherwise very similar to Purple.

TITIA or WHITE RAMBLER Pure white; same style and habit as Aegle.

WE WANT YOU TO BUY TO handle these three roses among his customers and every one who will do so, we agree to depend upon you for his supply of plants.

WE WILL SEND FREE OF CHARGE circulars, color plates, illustrating the Aegle, together with 100 handsome descriptive circulars with names and address stamped upon them. Send at once.

Price for strong plants from 2 1/2 inch pots, \$15.00 per 100. Send for our Trade Lists of other Roses and General Stock.

JACKSON & PERKINS Co. Newark, New York WHEN WRITTEN MENTION THE FLORIST'S EXCHANGE

DORMANT ROSES OWN ROSES

Field Grown, 2 to 4 feet.

125,000-ALL SOLD.

WE INVITE ORDERS FOR NEXT SEASON.

W. F. HEIKES, Mgr., HUNTSVILLE, ALA.

2000 YOUNG ROSES

- 700 BEAUTY, 4 inch.
1000 'MAID, 2 1/2 inch.
1000 BRIDE, 2 1/2 inch.
500 G. GATE, 2 1/2 inch.
750 LA FRANCE, 2 1/2 inch.

READY FOR BRIFING. CHEAP IF SOLD AT ONCE.

J. R. FREEMAN, 612 13th Street, WASHINGTON, D.C.

REBERG BROS.

Strong, Healthy ROSES From 2 1/2 inch pots.

GOLDEN GATE, PERLE BELLE, SIEBRECHT, METEOR, BRIDE, BRIDESMAID, KAISERIN, LA FRANCE, TESTOUT, \$2 50 per 100; \$20.00 per 1000. No orders for less than 100 of any orders with the very best stock. AMERICAN BEAUTY, \$3.00 per 100; \$30.00 per 1000.

Remember our stock book sent gratis at the Chicago Flower Show. ...CARNATIONS... STARKING SILVER SPRAY, WM. SCOTT, LIZZIE MCGOWAN, TIDAL WAVE, LIZZIE GIBBERT, KIMHOOR, IVORY, ROSE QUEEN, \$1.00 per 100; \$10.00 per 1000. No orders for less than 100 of any one variety accepted. Special Prices on large lots. The above stock is available and fresh from

SMILAX, 2 1/2 inch pots, \$2.50 per 100. 51 WABASH AVE., CHICAGO, ILLS.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

50,000 BRIDE AND BRIDESMAID! 50,000

EXTRA FINE.

From 2 1/2 inch pots.....\$2.50 per 100; \$20.00 per 1000
From 3 1/2 inch pots.....\$4.00 per 100; \$35.00 per 1000
From 4 1/2 inch pots.....\$5.00 per 100; \$45.00 per 1000

TERMS CASH. THE NATIONAL PLANT CO., Dayton, Ohio.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

50,000 ROSES.

Carefully grown Forcing Stock.

ROSES-2 1/2 inch, strong; Meteor, W. La France, La France, The Bride, G. Souper, \$1.00 per 100; \$10.00 per 1000. For the best quality, \$1.00 per 100, \$10.00 per 1000.

WYALINGA N. SPLENDENS-Only true pink. \$1.00 per 100, \$10.00 per 1000.

DIACENA INDIVISA-Per 100 per 1000 \$1.00 \$10.00
2 1/2 inch, strong.....\$1.00 \$10.00
3 1/2 inch, strong.....\$1.25 per 100, \$12.50 per 1000
Rooted Runners.....\$1.25 per 100, \$12.50 per 1000
Blossoming, strong clumps.....\$1.00 per 100

WINDUS-Near, Mrs. Robinson, \$1.00 per 100, \$10.00 per 1000.
VINCA VAR-5 1/2 inch, extra strong, \$1.00 per 100, \$10.00 per 1000. Each of first-class bank references must accompany all orders.

J. B. HEISS, 116 So. Main St., Dayton, O. WHEN WRITING MENTION THE FLORIST'S EXCHANGE

ROSES.

Fine Roses from 2 1/2 inch Pots.

Table with 2 columns: Rose Name and Price per 100 and 1000. Includes Bride, Bridesmaid, Meteor, Mermel, Perle, La France, Mme. Hoste, and Sunset.

TERMS: Cash with order.

CHAS. E. SMITH, Cor. Jefferson and Jackson Aves., YORK, PA. WHEN WRITING MENTION THE FLORIST'S EXCHANGE

Thanks, Governor, N. Y., Feb. 3, 1897.

Yield Marguerite all well, this that are rooted. Thanks to the Exchange. HENRY NEESER, Governor, N. Y., Feb. 3, 1897.

FINE PLANTS - LOW PRICES.

18,000 Bunches of the Best Quality, 2 1/2 inch pots, \$2.50 per 100; \$25.00 per 1000. California, best varieties, \$2.50 per 100; \$25.00 per 1000. Meteor, \$2.50 per 100; \$25.00 per 1000. 50 Sword Fern, \$10.00 per 100; \$100.00 per 1000.

NICHOLAS AMOS, - - - Crestline, Ohio. WHEN WRITING MENTION THE FLORIST'S EXCHANGE

BRIDESMAID.

PARENT STOCK still exists in perfect condition at the Standard Greenhouses. Have also the Bride, Beauty, Testout, Crown, Meteor, Culin, and Paris. FRANK L. MOORE, Chatham, N. J.

LOOK HERE

The following plants are in A1 condition. ROSES, out of 2 1/2 inch pots. Bridesmaid and Bride, \$2.50 per 100; \$25.00 per 1000. Meteor, \$2.50 per 100; \$25.00 per 1000.

Water Lilies - Violet, rooted runners, 50c. per 100; \$5.00 per 1000. Ferns, C. O. D. U. BERKE & SON, Mentor, Ohio. WHEN WRITING MENTION THE FLORIST'S EXCHANGE

AMERICAN BEAUTIES

2 1/2, 3 and 4 inch pots; very fine, clean, no black spot. A few BRIDE and BRIDESMAID, 2 1/2 inch pots. Fine stock, clean, nice, and ready for a shift.

JOSEPH BRADBURY, South Orange, N. J. WHEN WRITING MENTION THE FLORIST'S EXCHANGE

Fine Healthy Stock of Brides, 'Maids, . . .

. . . Perfles, Meteors,

From 2 1/2 inch pots, ready for shifting, \$4.00 per hundred.

JOHN HENDERSON CO., Flushing, N. Y.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

4 NOVELTIES 4

CHRYSAETHUMS. New shipment, Calif. Del., 25c. \$1.00 per 100; \$10.00 per 1000. Brides, 2 1/2 inch. New Dwarf early bloom. 100 2 1/2 inch. \$1.00 per 100; \$10.00 per 1000. ASTERS, New dwarf, 4 colors, 2 1/2 inch.

CHRYSAETHUMS.

Recent outlines now ready, thoroughly well-rooted. Ben, Grand, Haze, Montmore, M. Henderson, Mrs. W. J. Reid, Harry Donahoe, F. Pullman, Myrtle, Mrs. E. B. Smith, Mrs. E. C. Cole, Mrs. E. Palmer, Grand, Haze, Pink Ivory, Scrimshaw, Mrs. M. Johnson, Haze, Montmore, Mrs. J. M. T. Wombly, \$2.00 per 100 by mail.

Geraniums, 20 varieties, 4 in. pots.....\$1.00 per 100; \$10.00 per 1000. 10 Dark Heliosperms, 10 varieties, 4 in. pots \$1.00 per 100; \$10.00 per 1000. 10 Dark Heliosperms, 10 varieties, 4 in. pots \$1.00 per 100; \$10.00 per 1000. Cash with order, please.

GEORGE J. HUGHES, Berlin, N. J.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

THE NEW PRESIDENTIAL CARNOT

FROM 2 1-2 INCH POTTS. \$15.00 PER 100; \$125.00 PER 1000.

HEALTHY YOUNG STOCK. READY NOW FOR DELIVERY.

- Mosella, "Yellow Souper," 2 1/2 inch pots.....\$5.00 per 100; \$40.00 per 1000
Pink Souper, 2 1/2 inch pots..... 5.00 per 100; 40.00 per 1000
Climbing Wootton, a very vigorous climber, identical with Wootton in bloom, perfectly hardy in this latitude.....\$10.00 per 100; \$70.00 per 1000
Carmine Pillar, 2 1/2 inch pots, a fine climber, hardy.....\$10.00 per 100
Cocos Weddelliana, 3 inch pots, beautiful plants..... 20.00 per 1000

- Arca Lutescens, 3 1/2 inch pots, ready for a shift.....\$15.00 per 100
Also fine stock of larger sizes, prices on application.
Cocos Weddelliana Seed, fresh crop, just received.....\$5.00 per 1000
Arca Lutescens Seed, fresh crop..... 6.00 per 1000
Livistona Rotundifolia, 2 inch pots.....\$10.00 per 100; \$80.00 per 1000
Asparagus Sprengeri, 2 1/2 inch pots, good stuff..... 10.00 per 100
A plant of great value for decorative purposes.

ROBERT CRAIG, - - - 49th and Market Streets, Philadelphia, Pa.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**Gardeners and Gardening in Early Chicago.**

(Continued from page 404.)

The next place, and probably the oldest in the city, was W. B. Ogden's, occupying block 35, Kinzie's addition to Chicago, bounded by Ontario, Cass and Erie streets. His long-time partner, William Sheldon, also had a homestead there. Mr. Ogden, you know, was Chicago's first Mayor, but after the time I speak of he had moved to his home, where a few years ago I saw his magnificent grounds covered with fine rhododendrons and other choice things. In this city home were two lean-to greenhouses, one partly filled with grapes. This passion for vineries, which for years was quite a feature in this city, was killed finally by California grapes, I fancy. The gardener here was a German by name, Herman Khlane. He is still living, being a hardware merchant on North Clark street, near Illinois street. Mr. Khlane was an exhibitor and member of the early societies with us.

Just beyond the Ogden place, east of Rush street, I. N. Arnold had his house. There also was a lean-to greenhouse, two sides of the dwelling forming its back wall. There also was a grape arbor in the rear, and another built afterward. The grounds were well furnished with shady walks and flower beds, and like all others of the day, had a kitchen garden attached. John C. Ure was gardener here. He is a native of Scotland, and is still at Evanston avenue. When the old city cemetery at North Avenue, was about to be abandoned, the city aldermen spent some money in forming the grounds into a city park. John was the superintendent. He was also an exhibitor and one of the founders of the Chicago Cactus Club.

Edward I. Tinkham, a banker, also had a small greenhouse attached to his residence on Rush street, and—what was a rare thing then—a nice iron fence to his place. Often these boundary fences were very pretty on those days. But fences people must have, as strays on the streets in the form of cows and pigs were not unknown. Beside these parties there were a number of the old settlers in and around this locality that had a good deal of garden space around their homes. Some flowered vegetables, and some of the more modest lot—bounded by Rush street and Ontario, a big currant patch, I recollect. J. C. Cole finished a fine place in 1837 that I graded and laid out.

My next stop was to go to North Clark street, opposite Washington Park. Here E. B. McCagg had his fine home. Attached to this, built in 1854 or so, were the model greenhouses of the city—one a curvilinear roof, one a span—but both heated with water. Here was really an excellent collection of exotic plants and a variety of full bearing. The gardener was Francis Ludlow, an Englishman, who came to the city in 1853 and for a time was with Samuel Brooks, florist, in Hyde Park, and for some years past has been gardener in the Park, near the corner of Erie street.

In 1873 Miller, Hunt and Ludlow started. They afterwards were the famous florists on North Halsted street. The McCagg greenhouses, you recollect, without the curvilinear one, were in the rear on the west side, except Malbon B. Ogden's wooden dwelling, standing where the Newbery Litchfield now sits, and in that great holocaust of 1871. The last occupant of these greenhouses was W. T. Shepherd, a florist, who lived in a vine arbor in his figure in a florist way, until 1875 or so. He also had a place in Evanston. In 1871, the title went to Wright's Grove, the northeast corner of North Clark and Fullerton avenue. Here was the home of John Peck. This place contained several acres, and is noted for its roses and geraniums. The huge old bushes of lilacs, with the grand old Harrison yel-

low roses and the yellow flowering currant, and perhaps, also, the Guelder, with some common old hardy roses, were the shrubbery that sat pretty here. This place contained a large lean-to next the dwelling and a vinery and greenhouse on the ground floor. The fashionable drive of the day, the old Lake Shore plank road, which in 1847 was a young man from the King garden in Hanover, Germany, totally unacquainted with English he agreed for a year with Mr. Peck for \$100 and board. But even at that modest figure George managed to save some money, and has been at it ever since. He afterward was gardener on the McCagg place, and then went into partnership with A. T. Williams, at the corner of North Clark and North Avenue, buying property on North Halsted, where he is still.

Still following the fashionable drive of the day, the old Lake Shore plank road, at the corner of Cornelia we come to James H. Kees' place. Here was a small conservatory attached to the house, afterward a large vinery for exotic grapes was added. No regular gardener was kept, but a handy man and general all-round manager by the name of Clark was supposed to

There was many a fine place projected in those old times, which like Burns' schemes of mice and men, have gazed aghast, and are one of them. The memory, however, as well as some other remnants of the old place, still remain in the common name of the spot, Kerkoff's Park.

This completes the list of the more pretentious gardens on the north side. Our next trip will be to the south side, and Congress street was as far as fancy gardening had extended then, those coming under my ting being only two, the first being that of I. H. Birch, a prominent banker of the time. His place, a fine Italian villa residence overlooking the lake, came right to Michigan avenue. It was somewhere about Washington street. Here was a greenhouse and a vinery of exotic grapes, the latter very noted at the time, as was a splendid dwarf pear orchard, which was kept in the highest style of the art by the English gardener, Charles Leyton. Exactly what became of Charlie was not known for certain; the last I heard of him, years after he was from Washington, D. C. A cruel hoax was played him by another Englishman while in Chicago, which was said to have scared him away, it being nothing else than

the west side worthy of special notice, as it was perfectly unique and unlike any other in the city. This was the homestead of the first Irish nurseryman, W. B. O'Brien, a worthy sire of our society's secretary, W. C. Bgan. These extensive grounds, those mainly devoted to fruit and vegetable and floral part, were bounded by Congress and Sangamon, Van Buren and Morgan streets, and were bounded on the west by this notable place, but elegant clipped hedges surrounded this demesne. The main block diagonally northwest, bounded by Van Buren, Jackson, Sangamon and Morgan, was a fine nursery, and I remember, too, that the homestead lot had, I remember, two two other large circular inclosures, one with flower beds, with dwarf clipped hedges as boundaries. So, you see, this place was laid out in the best style of the day.

And if the garden was in a manner original, the gardener was surely no less so. It was known by the name of "Old Tom," and he reigned supreme. This man was Thomas Keenan, and he came to this country about 1850, some time after his arrival becoming gardener for the doctor.

Eganville is an old name among garden lovers in this city, but not as later comers may imagine original with that delightful spot out of Hyde Park, but Eganville was down to Hyde Park, and once, by the way, was hoped to have been included in our new boulevards. It skirted what is now Drexel Boulevard, extended east to near Lake avenue, and it is certain the same Egan could have carried out his intention, would have been a magnificent estate. Great sums of money and lots of thousands of deciduous and evergreen trees and shrubs were planted, carriage roads laid out, etc., but the crisis of 1857 left too heavy a burden to overcome. A seeker for the old Eganville may yet no doubt find trees on the old spot; they, with the memory of the place, are the remains of this once notable place.

A few words as to the florists of forty years ago. These numbers, in the spring of 1857, just three, each with about 50 feet of greenhouse, with myrtle growing along the roof, were owned by Samuel Brooks, the pioneer, built the first commercial greenhouse in Chicago, and in 1853 moved to postoffice lot now in 1842, and in 1853 moved out to Hyde Park, where I found him. He died in Chicago in 1873, and was succeeded by a successful florist, being to this day called by the English "The father of the chrysanthemum." His name was John Garfield. The history of this man is replete with interest, but I have no time to dwell on it. He bought the city limits, now by Hyde Park, Westman, who first came to this city as gardener to Mr. W. B. Ogden in 1852. He bought the lot in September, 1875. The lot was bounded by Ontario, Cass and Erie, corner of Southport, about 1856, where he had one greenhouse. He afterward moved to the corner of North Clark and Erie, and finally at Clark street, near Garfield. He died about 1869, and was the father of the present John Garfield, a successful florist. The third one was John Carpenter, who came to the city, Aug. 20, 1852, and in 1853 moved to the corner of Erie street, then went to Peru, Ill.; came back and went to Buffalo, N. Y., returning to Chicago in 1857. He bought the lot now in Hyde Park, which was bought two acres of land at \$50 per acre. This property was just then being built, and was now by Hyde Park. His business in early life was vegetable growing. When I first knew him he was a florist, and he was the first to grow the city contained; it was built about 1855.

This completes the florist's list. The 1850's August 1857, the only one worthy of note was the Sheffield nurseries started in 1846 by Mr. W. B. Ogden and John Whitney, city limits, now by Hyde Park, being manager. In 1848 Martin Lewis bought a third interest, and in ten years afterwards, when he was in Chicago, he sold and lives now in Evanston, a wealthy capitalist. He built a greenhouse in 1849. In 1850 August 1857, the only one who was successful florist, Mr. Lewis was an English bred gardener. He was a florist in 1857, and in 1858 he had a noted one at West Northfield; his son Pitt is president of the Kentucky Commercial Nurseries, Dr. Keenan's son-in-law. Another notable nurseryman was Robert Douglas, of Waukegan, who is still in the city, and a florist in 1857. Mr. Elsworth, still another notable one, he died a few years ago at a good old age.

**Boronin Elator.**

water the plants. On one of my visits to give some instructions needed, I told him that the plants in the house should be watered. His reply was they would not get it, as their turf did not get watered, as he watered them only half each day. "Recollect," he said, "the water has to be brought from a distance." I told him that I had seen this practice practiced at this particular place at that date.

A half mile farther, still on the old Plank road, brings us to the corner of Graceland avenue, and here the late L. H. Kerkoff had his place. This was the home of John Blair, a noted landscape gardener of this time. This was before the residence was built at all. Thus did Mr. Kerkoff aim to garden finely before building stately, reversing, as you may remember, Lord Bacon's aphorism.

Mr. Kerkoff was fast making the oak ridges and depressions of this part of the shores of Lake Michigan a thing of beauty in the way of a gentleman's residence grounds. Grand sweeping drives, rolling shades of green foliage, with a defined kitchen garden, were laid out on the most approved style. A greenhouse was erected in 1871. Francis Calvert, Scotchman, was the gardener here, and a noted exhibitor at the shows of the time. He is now the senior partner in the well-to-do and successful florist establishment of Francis Calvert & Son, of Lake Forest, having previous to starting for himself laid out several of the noted Lake Forest country homes.

that he had been drafted by Uncle Sam as a soldier during the troublesome civil war. There might have been other places to come to Michigan Terrace, a marble block that all old Chicagoans never tired of pointing to, but I have not seen anything on this side of New York. In the outlying house of this block John Young Scammon had a garden, the main part of which was on Congress street and back to Wabash avenue. On the south wall of this block, with an L entering the west from the dwelling, was a very pretentious greenhouse, or conservatory; also a greenhouse and a grape arbor on the ground. Mr. Scammon was much attached to his gardener, L. P. Eastman, a Scandinavian. It used to tickle the first feelings of some of our country gardeners at the time, when Mr. Scammon, on returning from an extended trip to Europe, in entering his garden that all the places he had seen in Europe nothing pleased him as did his own garden. Mr. Scammon was among the first gentlemen of Chicago to sport a red carnation in his coat, the fashion being brought, partially, from England, but perpetual carnation was grown in great bushes by his gardener from year to year to supply the taste.

There might have been other small conservatories attached to some of the residences of Wabash avenue; if so, they have passed from memory. One lady, a Mrs. Davis, on Michigan avenue, deserves notice at the shows of the time. She had a bay window always gay with flowers, among them some camellias, which were very successfully cultivated and flowered.

Last, but not least, there is one place on

**Cincinnati.**

**A Successful Smoker.**

Never in the history of our Florists' Society have we had so much enthusiasm as was shown on Saturday evening, May 8. The programme mapped out by the secretary was one long to be remembered and was thoroughly enjoyed by fully fifty of the craft and some distinguished visitors. The programme was as follows: "Our First Smoker," consisting of cigar pipes and Old Durham. Green fly had no business in the gathering. E. H. Giesy, of the Lockland Lumber Co., recited a negro poem. Had you not seen Brother Giesy one would have thought the old song was being the reciting. It is needless to say that a hearty applause followed.

William and George Murphy favored us with some good music on their violins. This was highly appreciated.

Paul Hoffmeister next read a paper on "Heating by Steam; High Pressure." This was a very interesting talk and gave the boys a number of good pointers.

The next dance was a song by Ben George, which was well rendered. The Florist Mandolin Club, consisting of Frank Zali, C. J. Oimer and John Schrach, played some popular airs, which were well received.

Ed Schwartz read a paper on "How to Create More Enthusiasm in Our Society," which took well. "The Enquirer March," by the Mandolin Club, assisted by the Murphy boys, came next.

"History of a Florist," by Theo. Bock, of Hamilton, Ohio, was the banner talk of the evening.

The oration was by Richard Witterstaetter's subject. Mr. W. has been so busy selling Emma Woher and getting Evelynia ready to sell that his talk was short and scattering, touching on the most important points only.

E. G. Hill, who was present, made one of his happy speeches that are always well received.

The presentation of medals was next in order. Henry Weber & Son, Oakland, Md., carried off the gold medal. Huntsman & Co., New York, and Hoffmeister Floral Co., third. The latter firm and William Murphy tied for third place, but in the drawing the former won.

A recess of ten minutes was taken about the middle of the programme for refreshments.

The meeting adjourned till September next.

Mr. Weber gave us one of his good, substantial talks. This gentleman tells us he now has 50,000 feet of glass and is erecting 100 feet additional. The exhibition was the best we have ever seen staged here. Weber & Son had a magnificent display, consisting of carnations, roses, Harrison and calla lilies, Evansons, etc. Huntsman & Co., roses and carnations, palms, Harrison, Ferns, etc. Hill & Co, sent Jubilee, Mrs. McBurney, Triumph and Flora Hill carnations; Fred. Dornier & Sons, Mrs. Bradt, Mrs. Dolme, Albertini and several seedlings all in splendid condition. H. Schwarz had a good plant and a fine bloom of white Vivand-Morel Pnyssenhennau. E. Witterstaetter showed Woher and Evelynia carnations; J. T. Conner eight pots of Valle Buiters geraniums, a beautiful carnation and very large truss; Critchell & Blauers, Faecnia tenuifolia plants, and Hoffmeister Floral Co., carnations and callas.

E. G. Hill & Co. had one bloom of a new seedling carnation called Olympic color on the order of that of Triumph; Calyx periah, with a stiff stem, self-supporting, four feet long, flower three inches in diameter. This is certainly a revolution in the matter of stem.

**Market Sale.**

Business during the past week has been fair; prices, of course, were low, but most of the stock was worked off.

Sweet peas are now coming in rapidly and sell at 35 cents to 75 cents per 100; Blanche Perry and Emily Henderson being the varieties. Roses are beginning to show the effects of warm weather and are getting smaller; 5 cents to 3 cents is now about the top notch for Ferns, Bride and Bridesmaid. Carnations are selling at 50 cents to 75 cents per 100 for ordinary; fancy bring 1 to 2 1/2 cents.

Other stock selling proportionately low. There is not much prospect of an advance. E. G. GILLET.

2 insects & cent for each 600 feet of floor space.

**Kill and Save the Bugs!**

Does not injure the most sensitive plants. Endorsed

**Nikoteen**

by prominent florists. Used for fumigation or spraying indoors or out. 900 pounds of tobacco in one plant of *Nikoteen*. Sold by wholesale. Circular form. SIAZBROTH DR CO., CHICAGO.

Quickly Does It.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**SNIPS** The best for florists, for Moles, gardeners, etc. by Kelley's Florists' Shears and Flower Cutters, Chicago. Sold by H. H. SHEAR CO., Fremont, Ohio.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**HAVE YOUR COLLECTIONS MADE THROUGH THE NATIONAL FLORISTS' BOARD OF TRADE, 271 BROADWAY, NEW YORK.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**THE BEST FOR ALL Florists.** FOR SALE BY Seed Stores. For Free Pamphlet, write to LOUISVILLE SPIRIT CURS, Louisville, Ky.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**STANDARD POTS.**

We are now ready to supply a superior quality of Pots in unlimited quantities. Catalogues and price lists furnished on application.

**A. H. HEWS & CO., NORTH CAMBRIDGE, - MASS.** WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**STANDARD FLOWER POTS**

In any quantity, and of the best quality. Get your price list before ordering elsewhere.

**W. H. ERNEST, STAFFORD, N. H., WASHINGTON, D. C.** WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**HILFINGER POTS.**

**STANDARD FLOWER POTS.**

We manufacture a full line of Standard Pot, Seed Pans, Cylinders, glazed and unglazed. **LAWSON VEGETABLE FIBRE.** Watch these bargains: Lawn Yaws, 12 1/2 inch, \$1.00 each; 12 1/2 inch, \$1.25 each; Extra Heavy, 12 1/2 inch, \$1.50 each; 30 1/2 inch, \$2.00 each; at \$1.00 per 100; 60 1/2 inch pots, at \$1.00 per 100.

Send for Price List for other sizes before ordering elsewhere. Address **HILFINGER BROS., Fort Edward, N. Y. or AUGUST RÖLKER & SONS, 138 & 139 W. 24th St., N. Y. City.** WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Neponset Flower Pots**

of Waterproof Paper, are sold as follows:

Terms—Net cash with order. If ordered shipped by express, add 50 cents cartage.

Size	Ordered in Gross	Per 100	Per 1000
3 1/2"	.....	25	2 50
4"	.....	28	2 75
4 1/2"	.....	32	3 00
5"	.....	35	3 25
5 1/2"	.....	40	3 50
6"	.....	45	3 75
6 1/2"	.....	50	4 00
7"	.....	55	4 25
7 1/2"	.....	60	4 50
8"	.....	65	4 75
8 1/2"	.....	70	5 00
9"	.....	75	5 25
9 1/2"	.....	80	5 50
10"	.....	85	5 75
10 1/2"	.....	90	6 00
11"	.....	95	6 25
11 1/2"	.....	100	6 50

Standard Pot Measure. Less quantities than full crates at 100 rates.

**F. W. HIRD & SONS, Manufacturers.** Address orders to our General Agents, **August Rölker & Sons New York. P. O. Station E.**

or E. & J. FABERGUE & CO., Boston, Mass. Eastern Agents. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Standard Flower Pots.**

Send for our New Price List with extra discounts. All our Pots, from 7 in. and upwards, have our Patent Elevator Bottom, which is a great advantage, as it insures perfect drainage.

A FULL LINE OF BULK PANS. **THE WHELDIN POTTERY CO., 713 to 719 Wharton Street, PHILADELPHIA.**

BRANCH HOUSES: Kearney and Westside Aves. Jersey City, N. J.; Jackson Ave. and Pearson St., Long Island City, N. Y.

**FLOWER POTS**

We are Manufacturing a Full Line of **STANDARD FLOWER POTS and HANGING BASKETS OF THE BEST QUALITY.**

Shipping Facilities First Class, thereby Securing Lowest Freight Rates. Our goods are well packed, and breakage is nominal. Give us a trial. Send for Price List.

Address **THE SYRACUSE POTTERY CO., 403 N. SALINA ST., SYRACUSE, N. Y.** WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**THE JOHN J. PETERS COMPANY**

**PULVERIZED (INCORPORATED) COMPRESSED**

A Quick Germinator and Crop Former.

Little Ferry, New Jersey.

OFFICE: Long Island City, New York.

**NATURAL. OORLESS CLEAN TO HANDLE.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**"JADOO" FIBRE AND LIQUID**

"Jadoo" Fibre!

A new potting material.

Seeds germinate more quickly than in earth.

Greater perfection easily attained.

Suits all kinds of plants.

Is much lighter than earth.

Less frequent watering required.

"Jadoo" Fibre is a perfect substitute for earth.

The Flowers grown in it are larger and of a rich color.

The Flowers last longer.

No soil to mix. No manure required.

Immense saving of labor to professional or amateur gardeners.



Concentrated "JADOO" LIQUID is the cheapest Fertilizer sold. Both meat and drink to plants. Revives drooping plants, strengthens the weak and nourishes the strong; above all, it increases the size, causes greater profusion of bloom, and heightens the colors of all Flowers and Plants. Can be used on Flowers or Plants that are grown in Earth or "JADOO" FIBRE.

TRADE MARK JADOO REGISTERED

Protected by Letters Patent.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**STANDARD FLOWER POTS**

of Waterproof Paper, are sold as follows:

Size	Ordered in Gross	Per 100	Per 1000
3 1/2"	.....	25	2 50
4"	.....	28	2 75
4 1/2"	.....	32	3 00
5"	.....	35	3 25
5 1/2"	.....	40	3 50
6"	.....	45	3 75
6 1/2"	.....	50	4 00
7"	.....	55	4 25
7 1/2"	.....	60	4 50
8"	.....	65	4 75
8 1/2"	.....	70	5 00
9"	.....	75	5 25
9 1/2"	.....	80	5 50
10"	.....	85	5 75
10 1/2"	.....	90	6 00
11"	.....	95	6 25
11 1/2"	.....	100	6 50

Standard Pot Measure. Less quantities than full crates at 100 rates.

**F. W. HIRD & SONS, Manufacturers.** Address orders to our General Agents, **August Rölker & Sons New York. P. O. Station E.**

or E. & J. FABERGUE & CO., Boston, Mass. Eastern Agents. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**THE AMERICAN JADOO CO.,** 811, 813, 815 Fairmount Ave., PHILADELPHIA, PENNA.

CINERARIA Extra fine mixed, red packet, 25 cents. Primula ... H. BEAULIEU, Belmont Ave., Woodhaven, N. Y.

CANNAS Paul Marquet, red, E. de Bell, very ... A. J. BALDWIN, Newark, O.

Columbia Ganna BEST RED. DRY ROOTS. \$1.50 per Dozen. Cash.

EDWIN A. SEIDEWITZ, 95 W. LEIXINGTON ST., BALTIMORE, MD.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE WE PAY THE EXPRESS IN CASH ACCORDING TO THE ORDER.

Coleus 50 varieties, 6c per 100; \$1.50 per 1000. ... C. H. HARRIS & CO., Delanson, N. Y.

ROSE DE LAS FIFTEEN varieties, well in bud and blossom, \$1.75 per 100; \$15.00 per 1000.

G. PILLSBURY, Nashua, N. H. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

COLEUS Crispa, Yerscheffoli, and best ... G. H. HARRIS & CO., Delanson, N. Y.

VERBENA ... D. K. HERR, Rider Ave., Lancaster, Pa.

GERANIUMS. The best double varieties, red, white or pink.

Viola variegata, 3in., \$1.00 per 100. ... Geo. H. Benedict, Yorkville, N. Y.

VEGETABLE PLANTS. All strong transplanted plants, well-rooted and hardened.

Sweet Potato Plants, \$1.00 to \$1.50 per 100. ... TRADE PRICE LIST FREE. Seed Stamp for Samples.

E. C. HARGADINE, Felton, Del. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

VEGETABLE PLANTS. LETTUCE—Big Boston, Grand Rapids, Boston Market and White Leaf, 15c per 100; \$1.00 per 1000.

CABBAGE—Jersey Wakefield, Henderson's Succession and Early Summer, 15c per 100; \$1.00 per 1000.

TOMATO—Extra Early Red, Royal Red, ... EGG PLANTS—New York Improved, 25c per 100; \$2.50 per 1000.

PEPPER—Bell No. No. Ruby King, Sweet ... WHITE PLANTS—CELERY—New York for transplanting, 10c per 100; \$1.00 per 1000; \$6.00 per 10,000.

R. VINCENT JR. & SON, White Marsh, Md. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

GOOD STOCK

Table listing various plants and their prices: Abutilon, Acalypha, Aeschynanthus, Alysium, Aralia, Aspidistra, Begonia, Calceolarias, Canna, Casuarina, Cereus, Chrysanthemum, Coleus, Cypripedium, Cyclamen, Dianthus, Eranthis, Epilobium, Geranium, Hibiscus, Impatiens, Ipomoea, Lantana, Mimulus, Monarda, Nicotiana, Pelargonium, Petalostemum, Phlox, Physalis, Primula, Ranunculus, Saxifraga, Senecio, Solanum, Verbena, Viola, Yucca.

Table listing various plants and their prices: Dracena, Fuchsia, Geranium, Grevillea, Hyacinth, Musa, Nerium, Phlox, Strobilanthes, Swainsona.

TRADE LIST FREE ON APPLICATION. Cash with order from unknown customers of C. O. D. Orders amounting to \$5.00 and over, F. O. B., N. Y. City.

SEAWANHAKA GREENHOUSE MARS! MARS! MARS!

JAS. C. CLARK, Supt. P. O. BOX 34. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

COLEUS Myosotis, Giant Double Alyssum, Hibiscus

COLEUS—50 varieties, 6c cents per 100 by mail; \$4.00 per 1000 by express. MYOSOTIS—\$2.00 per 100. GIANT DOUBLE ALYSSUM—10 cents per 100 by mail; \$5.00 per 1000 by express.

WH. H. SEARCH, Avondale, Chester Co., Pa. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

HENRY EICHHOLZ, Waynesboro, Pa.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

OUR NEW LIST OF SEASONABLE PLANTING STOCK INCLUDING ROOTED CUTTINGS OF CHRYSANTHEMUMS, CARNATIONS, COLEUS, Etc. PLANTING STOCK IN ROSES, SMILAX, BULBS, Etc.

Now ready. Best stock. Low prices. Address, Jobbing Florist and Grower's Agent, Buffalo, N. Y.

DAN'L B. LONG, Buffalo, N. Y. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

GERANIUMS Double Grand, La Favorite, strong in bud and bloom, out of 2 1/2 inch pots.

S. A. NUTT, Double Grand, La Favorite, extra strong, out of 4 inch pots, \$5.00 per 100. ... EVERITT & ISAAC, Hackettstown, N. J.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

SPRING STOCK—SPECIAL. Geraniums, eight Al varieties, single and double.

1000 Alternanthera, red and yellow, \$1.00 per 100. ... J. W. SALTER, Rochester, N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

MAJ OFFER! 1000 Alternanthera, red and yellow, \$1.00 per 100.

1000 Geraniums, standard var., 2 1/2 in. pots \$2.00. ... JOS. H. CUNNINGHAM, Delaware, Ohio.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

CISSUS DISCOLOR AMPPELOPSIS VEITCHII

Strong, dormant, one year old plants, 2 1/2 to 3 feet high, \$3.00 per 100. ... CANNAS—TALL—\$2.00 per doz. AUSTRIA—Crispy, and Alphae Howell, \$1.00 per doz. \$5.00 per 100, all fine 4 in. pot plants.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE



### Exclusively a Trade Paper.

Entered at New York Post Office as Second Class Matter

Published Every Saturday by

A. T. DE LA MARE PTC. AND PUB. CO., LTD.,  
2, 4, 6, 8, Duane St., New York.

P. O. Box, 1097. Telephone 3154 Cortlandt

REGISTERED CABLE ADDRESS  
(Commercial Cable) Florez, New York.

#### SUBSCRIPTIONS:

\$1.00 per year to United States, Canada and Mexico. \$2.00 per year to foreign countries in postal union. Payable in advance. New subscriptions will commence with the first number after receipt unless otherwise ordered. Back numbers can be supplied when wanted. The date on address label shows when the subscription expires and in the subscriber's receipt. No charge for return receipt if sent.

#### ADVERTISEMENTS:

Copy must reach this office not later than Thursday in order to secure insertion in issue of the following Saturday. Rates: \$1.00 per inch. Special positions extra. Discounts on contracts of one month or longer. Orders from unknown parties must be accompanied by cash or satisfactory references.

### Exclusively a Trade Paper.

THE FLORISTS' EXCHANGE is published in the interests of those commercially identified with the Florist, Seed and Nursery business. New subscribers are requested to enclose business card or other proof of their connection with these trades.

#### Contents.

AMERICAN CARNATION SOCIETY	494
CHANGES IN BUSINESS	496
BORONIA ELIATOR (Illus.)	488-491
CARNATIONS	495-499
CONDORPESQUE	497
GARDENERS AND GARDENING IN EARLY	491
CHICAGO	498
GARDENERS, ENGLISH, WAGES OF	497
INSURANCE, HAIL AND FIRE	498
OBITUARY:	495
E. S. NIXON, John Saul	497
QUESTION BOX	497
SEED TRADE REPORT	487
SWEET PEAS	487
TRADE NOTES:	494
Condorpesque	497
Indianapolis, Cumberland, Md., Hagerstown, Md.	500
Cincinnati	502
Chicago, N. Y.	496
Boston, Philadelphia, St. Paul, Toronto	495
Chicago, Syracuse	496
Pittsburg	496
St. Louis	496
VIOLET GROWING IN VIRGINIA	499

### For the Busy Man.

A summary of Mr. Esler's talk on Hail and Fire Insurance appears on page 488.

John Saul, Washington, and E. S. Nixon, of Chattanooga, Tenn., were the next speakers. The Seed Trade Association will discuss free seed distribution and the Davidson Bill at their meeting in Washington, D. C., commencing June 8 next.

The New York Florists' Club will hold an extension of its annual meeting at their June meeting. The Gardeners' Society will give a talk for the benefit of the poor children of the New York Hospital, at City Hall, Saturday, June 19.

#### New Orleans, La.

F. J. Mueller died here this week, in his seventy-first year. He came to Louisiana from Paris, France, where he was for many years a very successful grower of palm palms and ferns. He was one of the oldest and best members of the New Orleans Horticultural Society. He leaves a wife, son and daughter to mourn his loss. The business will be continued by his widow.

### American Carnation Society.

We have received a copy of the proceedings of the Cincinnati meeting. They prove very interesting reading. Such reports are of immense value to carnation growers, however, at the \$2 membership fee. The best talent in this line have freshly given of their experience, and the reports, and the grower standing in his own light who fails to care this.

### Wages of English Gardeners.

Our esteemed contemporary, The Gardening World, of London, commenting on an article which appeared recently in an English magazine on the expense of keeping up the gardening establishments attached to country houses, has the following to say regarding the wages of gardeners:

If we are to take the figures there supplied as absolute facts, we must acknowledge that we have long been laboring under a delusion as to the remuneration which our collectors pay for their services. The unmarried men, that is, the journeymen, receive on an average 5s. a week, but at 30s. and 40s. per cented get 20s. These figures might be reduced to 15s. for the former and 20s. for the latter, and would be very nearly a correct average. Wages in country districts are in most cases much lower, and in some of the best cities and towns. The gardeners and laborers in the service of the London County Council are much better paid than journeymen in private establishments, notwithstanding the fact that many of the latter are well experienced to be perfectly capable of taking entire charge of a garden and everything that comes under the hand of a writer in question, in summing up the garden expenses of a country house, says the Gardening World, "I have in mind 200 of them which keep a staff of twenty-four to forty, but for a staff of fifteen—ten to twenty at 30s. and a head gardener at £100—the annual minimum cost would be £3,000. It would be a fairly large establishment that would keep a staff of fifteen; but taking eight journeymen at 15s. per week, four gardeners at 20s. a week at 12s. and three boys at 10s. a week, a head gardener at 30s. a year."

### Sweet Peas.

Waldo C. Robnett, of California, contributes to Bulletin 127 of the Cornell Agricultural Experiment Station, the following sketch of his efforts to breed varieties of sweet peas by crossing:

"Some people have no idea how hard it is to get a new variety in sweet peas—that is, new and distinct—with merit. In a reporting time I can go over our fields and find to my surprise, but they do not possess merit. The color is probably a different shade or the form is a little different, but they are all 'off' types. New varieties are desired in the new varieties. Last year I spent a good deal of time crossing on Cupid and obtained several varieties of sweet peas. One of them on this little imp. Now the result is that all varieties that have red or pink and blue flowers are better than the ordinary Blanche Ferry growth, and all varieties that have blue in them are better than the ordinary Blanche Ferry growth. Here and there are plants of Cupid, but the crossing was not made perfectly. It is pollen bred to cross on Cupid, as the very hard to cross, but they are not very small. Several years ago I put weak Blanche Ferry and last year I got a few Cupid and now I have a few Blanche Ferry and now I have a few Cupid again. This is the result of Cupid and one-fourth Venus, and still it does not show any of the latter,

It cannot be distinguished from the thousands of Cupids we have growing. Of the other crosses, this is done on the taller varieties, the results are also discouraging. There are several new varieties, however, that are the whole summer's work from being a total failure. My stock of Penzance on Venus is very hard to grow, but a plant which I found last year, and a variety which Eckford will introduce in this country next year, is a very hard plant on Eliza Eckford brought me a flower like the former, but color of red flowers. Last year I had an imp. of royal Probe. It was a result of Penzance on Venus and was the finest stock on Royal Probe I ever had. This year it broke up into many new and several old varieties, but all of very fine form and color, such as buff, with a suggestion of pink, a rose edge, a pink edge on white ground (Eckford's Countess of Aberdeen), and a white on buff ground; there are fine shades of white; also improved Ovids, Royal Penzance, and Venus. Venus, Venus, etc. It is truly the finest mixture in sweet peas; there is not a flower of poor form or color. I think you will have for next year's introduction a pink which will correspond to Grey Friar, but much better than the latter, as the color is much finer."

### New York.

#### Market Bull.

It is questionable whether such low prices ever prevailed or were taken in this city than has been the case the past year. Carnations have actually been sold for \$1 per 1,000, with \$2 as a very common taking price. Roses sold by the gross at 10c. and 12c. and 100 extra American Beauty for \$35 was refused by a leading retailer because they were not good enough to put in the store, even at that ridiculously low figure.

From the slow demand, one of the principal reasons for this slump is the increased use of spring flowers and the fact that the stock of winter flowers being sold by the Greeks, they preferring to use this class of stock to roses and carnations.

"Violets practically ceased on Tuesday, which late date made this a record for the lowest price in the city very early in the fall. As compared with other stock, violets may be said to be much better than the latter, as the new season. They dropped well and were better in quality, as a rule, than ever before."

#### Exodus of Commission Men.

The next objective point for wholesale men seems to be Twenty-ninth Street, between Sixth Avenue and Broadway. On Monday H. A. Hoffmann opened a branch office at Twenty-ninth Street. His store is not yet in shape, so he will be temporarily fixed on the next floor, starting from Twenty-ninth and C. St. open on Monday at 48 West Twenty-ninth Street, in a very commodious and well arranged place. Mr. Millang has had neatly fixed up.

#### Anticpation Sales.

These sales are attracting larger crowds now than ever before. The new crop, Stock, generally speaking, is very good, and buyers have made a number of purchases. The following are the special sale on Thursday, May 20, of palms, ferns, crotons, cannas, etc., from W. K. Langford, at 100 West Twenty-ninth St. S. Henshaw, chief gardener at Bronx Park Botanic Garden, sails for Europe early in the week. He will probably visit the Botanic Gardens of Great Britain, Paris and Berlin to investigate the system of irrigation and to procure rare specimens for the New York Garden.

The new crop of the Boskoop Nursery Co., Holland, arrived on the S. S. Amsterdam Tuesday.

Representatives of the American Leroy nurseries, Angers, France, arrived in this city Saturday 20th inst.

Fire broke out in the store occupied by George Schusterman, at 51 Avenue B, on Tuesday last, and destroyed a quantity of \$1,000. One life was lost through the fire. The origin of the blaze was the accidental lighting of a bunch of artificial flowers.

Van Horne, Griffin & Co., manufacturers of artificial flowers, have moved from Light Street to 49-51 West Street, corner Greenwich.

#### Club Notes.

A very small attendance was present at the first meeting on Monday last, probably due to the fact that this passed over to the city prior to the meeting. The Executive Committee of the Plumbe occupied the chair.

Mr. Esler talked on hail and fire insurance, and on the subject of the remarks appear in another column. W. A. Mandia, South Orange, N. J., was the first to present longitudes with variegated foliage; a pronounced narrow white band running along the margin of the leaf. The flowers were pleasing effect. The flowers were small, the plants having been grown from cuttings. The plants were from bigger bulbs can, of course, be expected. Mr. Mandia stated the lily was very hardy and the committee, Messrs. Esler, Stewart and Withers, recommended it as being very desirable.

Treasurer Weathered asked that the subject of disposing of the gold medal now in his possession (as it had never been awarded) be discussed. Various suggestions were offered and it was decided to refer the matter to the committee to decide on a satisfactory means of disposal.

There will be an exhibition of herbaceous stock, embracing iris and whatever flowers may then be in season, at the club house on Tuesday evening. The club's silver medals and certificates will be offered. The schedule will be published in the next issue.

#### American Institute Exhibitions.

At the meeting of the horticultural section of the American Institute on Tuesday last, Dr. W. B. Britton gave a very interesting historical account of the Dodecatheon Meadia, or American violet. There was a large and beautiful display of hardy herbaceous plants, flowering shrubs and American violets. The exhibitors were John Lewis Childs, Floral Park, N. Y., who had seventy-six different varieties of American violets; J. Y. Siebrecht & Son, New York; John Miller, Oasis Nursery, Westbury, N. Y.

Mr. S. B. Parsons, of Flushing, N. Y., and Mr. Husted spoke on the effectiveness of the traps used as decorative subjects, the latter recommending atropium-purple as being best for the purpose. Mr. Husted showed Schweitzer's maple, a sport from Norway.

Mr. Husted advised leaving bulbs of lilies, narcissus, etc., in the ground, affording them protection from frost in winter, and to be treated now showed immense stalks.

James Holloway, Glen Cove, L. I., said that he had two to three varieties of Japanese maples and all had proved hardy, though fully exposed to the wind. Mr. H. A. Herrington made a strong plea for natural growth of tree and shrub life, and for the use of such specimens of these subjects in Jersey it almost seemed as if there was a competition for the best specimen. For every yard of wood so cut away, ten thousand blossoms were lost, and the same was true of the plants of Barron, Dr. Ward and Dr. Hexamer, all of whom recommended the more general use of natural growing shrubs and a herbaceous garden.

#### Show of N. Y. Gardeners' Society.

The New York Gardeners' Society will give a free show of flowers in the Aldermen's Court, City Hall, on Saturday, June 19, from 10 A. M. to 6 P. M. The subjects exhibited will embrace roses, garden exotics, ferns, palms, etc. The flowers, fruits, etc., will be distributed among the poor children of the city and among the children of the hospital. There will be eight classes enumerated in the schedule and all will be ready for distribution next week.

#### Poughkeepsie, N. Y.

The Dutchess County Horticultural Society met on Monday evening at the residence of Mrs. Levi P. Morton will give a special premium of \$30 for a copy of the report of the Dutchess County society decided that the papers read at its meetings during the year be published in the next issue of the Bulletin. An interesting paper on "Rose Culture Under Glass" was read by James Blair. The next meeting will be held on Wednesday, Rose Show, at W. G. D.

**Boston.**

**Business dull.** Business with the retailers is dull and the wholesalers complain of a decline in all orders. The growers have reduced the supply of cut flowers, in many instances having thrown out the surplus and employed the stock for bedding plants or preparatory to replanting for next season. However, the present limited demand and prices show a tendency in all lines to drop all last year's prices. The output goes at a low price.

The best carnations coming in bring from 25 cents to 2 1/2 cents each, while the bulk of the crop goes for one cent or a trifle more or less. France values that of stable, Longiflorum and Harrisonii, which have been abundant and very cheap since Easter, are shortening up some and advancing in price.

Speculation on Memorial Day trade and conditions is now in order. From present appearances it is probable that the Memorial Day trade will be very brisk, which has passed last year, will be in good condition by May 20 this year.

**News Items.**

A. Boddington, of Clucas & Boddington, and John Fotheringham, residing at No. 17 Parker row, have arrivals in town on Wednesday.

Superintendent Doogee's bull show in the Public Garden was never handsomer than at present. W. K. W.

**Philadelphia.**

**Market quiet.** There has been no improvement in the flower market the past week. Business around the stores has been very quiet and the abundant supply of plants is not wanted. Even the street men do not appear to be doing much trade, consequently every man who boxes new unemptied dealers not having room to store the plants.

Trade has been quiet for another month will find many kinds of flowers scarce, as growers are clearing out for another season. This is being done earlier than usual, on account of the poor market.

A few commencement-of some private business have been discontinued, on the absence of flowers at these functions has been very noticeable. It is understood that the business meeting of various institutions are against this display of favors.

**Plant Trade.**

Business has started up in good shape in this branch of the business and nearly all the growers in that line report good business. There is about the same as during the past two years. Geraniums are selling at \$7 per 100, and carnations at \$10 per 100. Many sales are heard of as being in large quantities. Roses are also selling and those in the city are doing well. The new rose, Crimson Rambler, are doing well.

**Horticultural Society.**

The meeting on Tuesday next will no doubt be very interesting. The City Parks Association will attend and give an illustrated lecture on small ornamental trees. The meeting is made by R. Kodman Park, Esq., Dr. William Pepper, Mayor Warwick and Dr. Henry M. Fish.

**News of the Week.**

Last week Charles Feast and wife, of Baltimore, were in this city on their honeymoon trip and were entertained by a prominent florist.

A revival of business is looked for the opening of the season. A large influx of visitors to attend the anniversary of Washington's Monument. The contract for the decorations at the monument in the Park.

very enjoyable. After a sumptuous repast some appropriate speeches were made by the following:

**St. Paul.**

**Market Note.** While trade has been comparatively light since Easter, the aggregate supply of cut flowers has been brought out in abundance of good blooms. The big cut has had a bearish effect on prices and the market has been sold way down. One of the largest growers here has been disposing of his surplus to a prominent store and "roses at 25 cents per dozen to-day" has been frequently seen. To counteract this some of the wholesalers have had "special sales" rates, retaining at 25, 29 and 50 cents per dozen. Why don't the brethren in other cities, who are menaced by unwise competition, do likewise? Why can't florists have "special sales" as well as their more prosperous competitors?

Regular prices now prevailing are: Rose at 25 cents; carnations, 25 cents per dozen. There is a dearth of other flowers at present. The market at Decoration Day are now apparent. With roses "in crop," outside flowers not in bloom and "ribbing" out gardenias from the South for a cheaper flower, good stock will be scarce and "high" rates will prevail.

**Regularity of prices.**

Regular prices now prevailing are: Rose at 25 cents; carnations, 25 cents per dozen. There is a dearth of other flowers at present. The market at Decoration Day are now apparent. With roses "in crop," outside flowers not in bloom and "ribbing" out gardenias from the South for a cheaper flower, good stock will be scarce and "high" rates will prevail.

**This is Society Dead!**

The Florists' Society, as we seem to have called it, is hibernating still, here is nothing of it. As one of the old-timers says, "The society is dead, but the florists here have to work too hard to spend much time at monthly meetings. It is a pity that so much time was spent in pleasant discussion and exchange of opinions, work could be made easier."

**Justices.**

Recent visitors were: H. J. Gromels, representing K. J. Kuyk; G. Kraemer, representing the Horticultural Society, of New York.

**Toronto.**

The May meeting of the Toronto Horticultural Society, held at the Toronto Club, on Tuesday evening, was attended by about thirty-five members. The weather was against the attendance, about thirty-five members more than half of them ladies. Quite a good showing of plants and blooms was on display. The subject of the evening was from I. Pape, A. Frost, George Mills and Manton.

There was a good attendance of about 40 persons. The subject of the evening was from I. Pape, A. Frost, George Mills and Manton. The subject of the evening was from I. Pape, A. Frost, George Mills and Manton.

**Chrysanthemums.**

The meeting on Tuesday next will no doubt be very interesting. The City Parks Association will attend and give an illustrated lecture on small ornamental trees. The meeting is made by R. Kodman Park, Esq., Dr. William Pepper, Mayor Warwick and Dr. Henry M. Fish.

**Cincinnati.**

The meeting on Tuesday next will no doubt be very interesting. The City Parks Association will attend and give an illustrated lecture on small ornamental trees. The meeting is made by R. Kodman Park, Esq., Dr. William Pepper, Mayor Warwick and Dr. Henry M. Fish.

fine thing to the specialist; but the commercial grower often finds it more profitable to grow in size and bright colors, unmindful of how the colors run.

The June meeting there will be a show of roses and hardy herbaceous plants, and if the weather is favorable the attendance will be anticipated, as all the strangers who were at the May meeting were much interested. T. M.

**Index to Advertisers.**

Table listing various advertisers and their page numbers, including categories like Alternanthera, Cut Flowers, Agave, Alysium, Asparagus, Astera, Begonia, Camellia, Cannas, Chrysanthemums, and others.

Table listing various advertisers and their page numbers, including categories like Delish A & Co., Dress G., E. J. H. Co., and others.



...NEW ROSE...

SOUV. DU PRESIDENT CARNOT

Strong, healthy plants, from 2 1/2 inch pots, \$15 per 100; \$125 per 1000. Ready now.

MAGNA CHARTA AND ULRICH BRUNNER

Strong plants, from frame, in 6 inch pots. Will flower last of May or beginning of June. \$20 per 100.

IRISH ROSES.

We are the sole agents in America for Messrs. Alexander Dickson & Sons, of Belfast, Ireland. Their Irish Roses are the best stock imported into this country, and Florists desiring high grade Roses for next Fall delivery should write us for varieties and prices.

ROBERT SCOTT & SON, 19th and Catharine Sts., Phila., Pa.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Souv. du.....

President Carnot

A superb hybrid tea rose of delicate shell pink color. Blooms produced abundantly on strong, stiff stems; an A1 forcer as well as bedder and fine pot rose.

No wide-awake florist can afford to be without it. Order quick and get strong, healthy plants, out of 2 1/2 inch pots, the finest in the country. Ready now.

Price, \$3.00 Per Doz.; \$15.00 Per 100; \$125.00 Per 1000.

50 at 100 Rates. 500 at 1000 Rates.

\$20.00 per 100 out of 3 inch Pots.

REFRIGERATED SPECIAL OFFER FOR MAY STRONG TWO-YEAR-OLD ROSES.

The following varieties which have been carried over in cold-frames and are now in excellent condition established in five and six-inch pots.

Table listing various rose varieties such as Anna de Diesbach, Antoine Golon, Baroness Rothschild, Boule de Neige, Countess Murlins, etc., with prices per 100 and per 1000.

LORD PENZANCE'S HYBRID SWEET BRIARS. We have a beautiful lot of these new varieties in strong two-year-old plants, established in 4-inch pots. We offer 8 distinct varieties, 50 cents each; the collection of 3 for \$4.50; for descriptions, see our catalogue.

CANNAS.

We have again an enormous stock of Cannas, well established plants, in 3-inch pots.

Table listing various cannas such as Ami Pichon, Anoua Glavis, Baron de Sandras, Bessels Red, etc., with prices per 100 and per 1000.

Special offer of collections of Cannas; for \$2.00 we will send 50 distinct varieties; for \$5.00 we will send 100 distinct varieties, all carefully labeled; these collections contain many new desirable high priced varieties.

30,000 AMPELOPSIS VEITCHII.

We offer a fine lot of strong one-year-old pot grown plants from 3-inch pots, about 24 inches high, \$1.00 per doz.; \$7.00 per 100; \$60.00 per 1000.

HYBRID CLEMATIS.

Table listing various hybrid clematis varieties such as Duchess of Edinburgh, Fairy Queen, Gipsy Queen, etc., with prices per 100 and per 1000.

CYCAS STEMS.

We have just received a large importation of Cycas stems in sizes from 4 to 16 lbs, which we offer at 10 cts. per lb. in lots up to 100 lbs. and shall be pleased to quote prices on larger quantities.

ERNST G. ASMUS, West Hoboken, N.J.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

HEARY A. REER, 714 Chestnut St., Phila.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## SITUATIONS WANTED.

Rates, 10 cents per line (3 words) each insertion. Cash with order. This rate applies only to persons who are wanted to be placed in the office and sold, without display. Where letters are addressed in our care and 10 cents is cover expressed in advance.

SITUATION wanted by first-class rose grower and propagator. Address **KORZARIAN**, care this paper.

SITUATION wanted by an experienced florist and grower. Address **W. J. BROWN**, care this paper. Mr. Hollman, 31 Howe Street, New York City.

FLORIST and gardener wants attention; elegant, first-class, 2000 ft. greenhouse and 1000 ft. conservatory. Good references. **LANGOLINI**, 110 Elm St., New York City.

FIRST-CLASS florist wants situation; acquainted with Europe and Eastern stock; 12 years as head man in Europe and America; best references. **D. D. care Florists' Exchange.**

WANTED situation with a good company of first-class salaried men; 10 years' experience at all branches of the business; can furnish good references; please to object. Address, **Seidman**, care Florists' Exchange.

SITUATION wanted by a young florist, commercial or private; eight years' experience at all points in greenhouse and stove; able to take charge; references; state wages. Address **W. B. Smith**, 11 Ruth St., Pittsburgh, Pa.

SITUATION wanted by an American gardener with 10 years' experience in floriculture, carnations, chrysanthemums and general house stock. References furnished. Address **W. J. Decker**, first-class references. Address **Hay**, 111-113, 11th St., New York City.

## HELP WANTED.

## FLORISTS AND GARDENERS.

Wanted, for private and commercial place, experienced, trustworthy, reliable and experienced. **Joseph Brock & Sons Corp.**, Bureau of Registry and Reference, 142 No. Market St., Boston, Mass.

## GREENHOUSES WANTED.

## WANTED TO RENT.

About 7,000 to 10,000 feet of glass, in good running order, by a sober man; vicinity of New York, within 30 miles preferred. State true particulars. Address **W. B. Smith**, Florists' Exchange.

## BUSINESS OPPORTUNITIES

FOR SALE CHEAP. 13,000 feet of glass, well equipped, in good running order. **W. B. Smith**, Florists' Exchange. New York City, two-story dwelling, 6 rooms, all heated by gas. Good back yard. Rent \$100 per month. **Payne**, business established, 85 acres of choice land, 1000 ft. greenhouse, 1000 ft. conservatory, all health the cause for selling. For further particulars address, **W. B. Smith**, Florists' Exchange.

## FOR SALE.

Within two miles of New York City, excellent, fully equipped florist place; 10,000 feet of glass. Hot water heat. Good water supply. For further particulars address

**OWNER**, care Florists' Exchange.

## FLORIST PLANT FOR SALE.

Well equipped, well located, in wealthy city of the best climate in country for affections of long life. Inquire

**BENNETT & CHAPLIN,**  
REAL ESTATE AND LOANS,  
310 Broadway,  
Colorado Springs, Colo.

## FOR RENT.

Greenhouses with 10,000 feet of glass and a dwelling, on an acre of ground in the city of Lancaster, Pa., six miles from the center, on a trolley line. \$800 a year. Inquire of **The Lancaster Intelligencer**, Lancaster, Pa.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

## FOR SALE CHEAP

## SEVEN GREENHOUSES

## AT OLD DRATCH, MO

All planted in Roses in fine condition, first-class sheds, heating apparatus and water supply. About 750 feet front, on good street, right at the depot. Nine miles from St. Louis.

Price, \$6,000, the actual value of the ground without improvements. Must be sold at once. Liberal terms. For further particulars, apply to

**E. H. MICHEL**, care of St. Louis Cut Flower Co., 1620 Olive St., ST. LOUIS, MO.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

## Pittsburg.

## Trade Improves.

The condition of trade the past week was very much better than during the preceding one. The cause of this was an increase of funeral work. There is an abundant supply of good stock of everything, excepting **Harrisii lilies**, which are running short. **Carnations** are still plentiful, all at from 30 cents to 50 cents per dozen for fair blooms. The best bring double for these figures.

Spring plant trade is very backward; most of the florists are complaining. The markets are stocked with bedding plants, good and bad, but prices seem to go lower each year. For instance, **veranams**, which sell at from 80 cents to 1 1/2 per dozen, are already offered for half these figures. Some of the best plants in the **Pittsburg** markets are grown by the **Blinds**, who created a range of glass in the suburbs of Allegheny last season.

Reports from the seed trade up to date are most satisfactory; trade was better than for several years. Onion sets and 60 cents per quart.

## Jetties.

**C. K. Hoffmeyer**, at Carnegie, is working at a new range of four houses, the walls of which will all be of stone and cement.

The exhibition of fancy caladiums in the Allegheny Park conservatories in July, 1901, is being supervised. **Hamm** has gotten together a large collection of the choicest sorts obtainable.

**E. C. REISEMAN.**

## FOR SALE CHEAP.

Extra good second-hand 3 and 4 inch pipe for hot water heating.

**W. H. SALTER**, Rochester, N. Y.

## STOCK WANTED

WANTED 300 to 500 **Malva Splendens**, strong rooted cuttings 2 1/2 in. pots. **Quose** loose, pure, or I will exchange **Viola Rabeana** of **L. H. Campbell**, **Lexome**, **California**, **Swanley** or **W. H. Campbell**, **Meriden**, **Connecticut**, when at once. **F. M. DeWitt**, **Torreadale**, **Phila., Pa.**

## WANTED.

**500 AMERICAN OAKS**  
Large for street planting.

**ENGLISH IVY** well-rooted plants, per 1000. Price and particulars to

**FRED. W. KELSEY**, 150 W. 4th N. Y. City.

## WANTED

We will exchange **Chrysanthemums**, best standard or new sorts as desired, for the following stock.

**ROSES**, Must be strong, ready to ship, from 200 to 250 inch, one per 100.  
300 **Bridesmaids**, 150 **Metsors**, 350 **Brides**, 100 **Mac Harts**.

**CARNATIONS**, (Preferred from flats) 3000 **McGowan**, 2000 **Seabreak**. Parties wishing to exchange state quality and price.

**NATHAN SMITH & SON,**  
Adrian, Mich.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

## CORRESPONDENCE.

## Seedlings and Certificates.

I have read with interest the discussions, pro and con, relative to carnation seedlings and certificates. I have been stated from different standpoints and any animus evolved simply natural.

As a whole, the matter has been educational and reliable. A certificate is chiefly useful as a "send-off" for a novelty in incipient form. It is not true that all plants of "value" being the verdict of growers in general after two or three years' trial.

Is not this true of all horticultural novelties of whatever sort?  
**GROVE P. RAWSON.**

I wish Mr. Graham would give us the exact figures of the correct value of his seedling, unless prevented by reasons of state. My authority for supposing \$4 points to the correct value will be found in Mr. Ward's article on page 322 (April 3) of this paper. He says: "Articles referred to in connection with the exhibition of American C. S. allowed but 84 points out of a possible 100."

Mr. Graham is not correct when he assumed that the independent scores were too wide apart. The only thing I regret is that the scores were not independently, as they should have done, an opinion which Mr. Graham confirms. There is one thing that that gentleman seems not to have found out, and that is that no one is attacking the judges; it is the system that is under attack. It is of no consequence if my argument does not apply to this particular case; an amateur like me is not qualified to illustrate the well-known defects of the three-judge system.

Does not one know what Mr. Graham wishes to have done with the figures which he furnishes—99, 91 and 65—with an average of 85. They are not pertinent to my argument, which demands that the figures should be near enough to justify the award of a prize on the competency and fairness of the judges, and figures so far apart as 16 and 39 do not justify the award of a prize. The figures that I used do. It seems to me that when three judges come so near together, as in the case of 16, 39, 35 and 87—it is evident that they are familiar with the question they are judging, and are trying to do so fairly. However, the figures should be 70, 85 and 87 I should think that the committee, if not well balanced, and that their verdict was of little value. When the same variety is judged by two committees, if their decisions are not too far apart, and every one is entitled to his own opinion on that point, it seems to me that there is no room for criticism.

It is a thankless task at best and unkindly criticism does not help matters. This is not for the purpose of the discussion, but for the purpose of the rate. The division of opinion is shown by the two propositions.

First, it is impossible to determine the commercial value of new carnations in the opinion of the judges at an exhibition; and, therefore, it is unwise to sit in judgment upon them.

Secondly, the present system is open to the objection that the favorable marking of two judges can always be given by one or two judges in a favorable judge; and, therefore, this system should be abolished.

Perhaps it would be possible to obtain a vote upon these two propositions from a considerable number of carnation growers by means of a coupon ballot method. The Carnation Society will not be likely to insist upon methods which are in the opinion of the great number of growers, are undesirable. The difficulty is to get at the opinion.

I find upon reading again Mr. Graham's article in the April 3 number, that the quotation made from it by him is not an accurate one. I should like to ask him, or any one who can speak with authority and is willing to give a yes or no answer. Is Mr. Ward's case, the judges actually made up their scales independently, without consultation or discussion? Am I just venturing to suggest that a dominant opinion might be a likely to prevent a certificate from being given to the committee by some means.

**LOTHROP WIGHT**

## Winter Flowering Nymphæas.

My friend, Mr. Tricker, evidently does not hold a very high opinion of the discriminating abilities of the live American florist; he is apparently worrying himself less about the thousands of invert rose or carnation houses into huge aquariums for the growing of winter water lilies than he is about the possibility of a little sleep, too over the matter—that is, if "The Florist's Exchange" circulate articles of this nature in certain necessary institutions.

In my note on winter-blooming Nymphæas, Mr. Tricker says I am "nonsense" growing prospects. He must attach different meanings to the words used than I do. I fall to discuss glowing prospects and the florist who has his heart set on him is in little danger of floundering into winter water lily growing till it has been demonstrated clearly that it would be advisable to do so.

My notes are the results of my own observations during the past few years. In water lily growing as in every other branch of the business, we have all a right to our own opinions and to state them; it is only by each dabbling judging his experience that we will be able to get on. I do not know the edge of whether these plants can be profitably grown in winter or not.

Mr. Tricker misquotes my temperatures. I gave 70 F. as the figure below which the water should not be allowed to fall. I do not know the actual temperature of the atmosphere is quite another matter.

Does not Mr. Tricker's objection to starting the plants in five-inch pots? He looks better than old tomato cans. He is not a grower, but a collector. He is wise growing the plants in five-inch pots for the sake of the flowers they will produce, and not for the sake of the plants. My idea, pretty clearly expressed, I think, was to show that the plants would be better in five-inch pots. Here the cultivator who wouldn't put them into larger ones when they showed that they would be better in five-inch pots would indeed be a dolt. I am afraid he wouldn't squeeze bread and butter out of the same sized loaf. Here is my class of plants.  
**G. W. OLIVER.**

## QUESTIONS.

**QUESTIONS.**

**OPEN TO ALL. FREE TO ALL.**  
Answers Solicited From Those Who Know.

**(100) White Flies on Cucumbers.**—I am familiar with a little white fly that lodges among tomato vines, cucumbers, etc., although I have never seen any of the fruit on the plants. Here we are only troubled slightly. I remember some years ago, in Scotland, a long chain of tomato plants of the same fly was there. At that time we tried eradicating it by fumigating, but without success. The fumigations on the fly would dislodge from the vines and get shelter among the soil; at any rate, this was the result.

Following day, should the fly be very troublesome and damaging the vines I would fumigate the plants with one of the walks or on the benches, whichever is most convenient. The continual fumigation of the most part may be disagreeable for the pest. Tobacco stems is a capital remedy for all insects.—**W. R.**

**(101) Bone for Roses.**—Bone, ground to the fineness of meal, is best for rose beds. As I take it, the material is best for the season of the year. It is excellent for giving quick returns, using it for top dressings and potting young plants. The most may be made longer its lasting qualities. A house 100x200 will take from 125 to 150 tons of bone. It may be made well worked into the soil. **H. H.**

**(102) A Popular French Trade Paper.**—N. B. would like to have the names of the most popular magazines, paper (wholesale) in Paris, France.

**How to raise Vegetables.**  
Amateur Farmer—Don't know what all these are for. **LOUIS**, 2000 N. Y. City. **Sympathetic Friend**—Why don't you give 'em an emetic!

# CARNATIONS.

It is our practice to alternate each year with roses and carnations in some of our best houses. The method we are detailed to cut from either until planting time arrives for the new stock. From the time we have planted in roses now, and from which we have been cutting all winter, will be ready to come in this fall. Meantime the roses will be kept growing right along until planting time for carnations arrives. This gives our roses a chance to attain a good size before we are compelled to cut flowers from them.

The carnations which have been transplanted in houses in which we intend to plant our young roses this spring, will be thrown out as rapidly as we need the houses. Inserts and divisions will be made, and we will check these as much as possible the old plants should be burned.

We can in this way utilize the houses throughout the year, and at no time need they stand idle, save for the short period required to put them in shape again for the new stock.

We have emptied one house of carnations to make room for young roses. While they were being removed, and I was endeavoring to do for the short period I could not help being impressed with the difference in quality of these blooms. The roses which I had seen grown in our regular carnation houses. This difference is apparent every season, and makes no difference at all whether they have been growing in a short or long span to the south house or in some span one running north and south.

The prime cause for this great difference is the amount of light the house of carnations which we have just emptied was treated as the others have been treated, and the result was the same feeding. Knowing that we would use this house for roses, and not wish to have it so long idle, we decided in short while be at the necessity of removing it, we permitted the plants to stand in the full light of the sun. The effect of this was gradual but sure, and finally accomplished with us in this instance. It was a great many years ago others who say that they cannot grow good carnations indoors during summer months. Our illustration shows the carnation's inability to endure very strong light; and the great difference between the plants which stand in the shaded ones stands as a monument to the value and importance of judicious light and air. It is not the climate that our climate is not the whole, or even any very great part, of the reason why we are enabled to cut good carnation blooms throughout the summer, which is rather the result of a careful watch over the same previously mentioned.

I have often been asked if our climate is not the main factor in producing fine carnations, particularly during the summer months, and my answer has always been in the negative, qualified with the statement, however, that it is of great assistance and aid to the raiser, as it has been carefully looked after and attended to. But I always have, as still believe, that it is not so great as to render it impossible or impracticable to produce good blooms during summer in a warmer climate than ours. On the contrary, I am convinced that it is not so great as to be done; in fact, it being done by some.

Those who succeed, however, will do so by the strictest watch over the plants and giving to it in judicious proportions that which it needs. This is the secret of success, and while any energetic, industrious and wide-awake florist can put into practice.

It is not so difficult a question as I supposed that we could not grow fine carnations during summer; and I have no doubt that many of our friends and become aware of the reasons why we could not.

It is not so difficult a question as I supposed that we could not grow fine carnations during summer; and I have no doubt that many of our friends and become aware of the reasons why we could not.

use in this way will be quite as effective in the carnation house as it has proven with him in his rose house. Fungus diseases are the worst and most dangerous enemies we have to deal with; and since sulphur has proven itself the best remedy in combating many of these diseases, its value has been in the way described by the Darlington Incorporated. W. WEBER.

## St. Louis.

Market Notes.  
The market brought the growers satisfactory returns on the days of short supply, but last week was one of disagreeable low values from Wednesday on. On that day there was a large stock of roses and carnations and prices dropped on Monday's advance into the old rut cut by glut prices. Young & Sons had the Pierce wedding decoration on Tuesday, for which they used 5,000 Bridesmaid and a proportionally large quantity of other flowers. This reduced the collapse of the market for a day, but the inevitable break occurred Wednesday, and for several days thereafter the market suffered a low market. There were no fluctuations to vary the weariness of the situation during the week ending last week. Good roses were in large supply. Most of the buds are small and show the effect of sun in their bleached color. The cool snap two weeks ago retarded the growth of such of the stock now coming in, and many roses which would still grade No. 1 for stem and color, stand in the hands of the Greek on account of mildew. Brides and Kaiserin were most plentiful and lowest in price. Funeral work was scarce, and as white roses do not sell well, the market was from counter trade, and this was inadequate to the supply and many roses went to waste. Good roses are in ample supply, but not a glut by any means. There was some loss of color in the roses, and many of them also of poor and bruised stocks; but good buds sold clean. Bridesmaid and Kaiserin were the best of the buds are growing small, and Tost-out and La France, both of which are in large quantities.

There was a shade of improvement in carnations. Receipts were somewhat better, and roses were in ample supply the week carnations of standard quality advanced to \$1 per 100 and adjusted to the market. There are indications point to the low price. Large quantities are in the market, and indications point to a low market.

Sweet peas are now arriving in great abundance and prices have taken a drop to 25 cents a hundred for ordinary length stem, and 30 cents a hundred for long stem.

Violets are almost gone. A few of the hardy Russian varieties struggle in the new stock, but not up to quote them.

Harris continue to come in, and after a few more will be put into the wood barrel. They have no value.

Callas are in fair request when there is a few left. The quantity of last week caused many to go unsold. Valley is abundant. Good out-door stock is at the price.

Cape Jessamine is coming in from Texas in large quantity and sells at \$1.00 per 100. The quality is not so good as the Similia is scarce and sells at \$15 to \$20 per 100.

The Trillo greenhouses, at Old Orchard, Mo., were sold last Tuesday afternoon, and the property was sold to the public, which holds a mortgage on the property, bought it in.

Yates, in the market here was P. W. Von Bockelman, White Hall, Ill.; Henry Ernst, Washington, Mo., and J. F. Ames, Edwardsville, Mo.

C. A. Schoenle, formerly decorator for the Ayres Floral Co., has severed his connection with that firm, and has acquired by purchase from them their former Washington Avenue store. He will continue to do business at the new building a new store near Grand Avenue.

Trillo, for several years connected with Robert F. Tesson, and later growing for the Tesson firm, has severed his connection with the old Berdan greenhouses at Old Orchard, Mo., will shortly depart from here, and will be in the charge of Petersen's greenhouses. C. G. F.

# CARNATIONS

Rooted cuttings all sold except *Opelia*, *Tosca*, *Cartledge*, *Rose Queen*, *Annie Leeson*, *Edith*, *Portia*, *Weatherbird* and *McGowan* at \$1.50 per 100; \$100.00 per 1000. From 2 inch pots, 42 varieties, best new and old at \$1.50 per 100. Send for price list.

**CHRYSANTHEMUMS**—In quantity, from 2 inch pots, \$2.00 per 100. Cash with order, please.  
**HYDRANGEA OTAKSA**, from 2 inch pots, \$2.00 per 100. Cash with order, please.  
**JOHN HACKETT & CO., 62d St., near Elmwood Ave., PHILADELPHIA, PA.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

# THE COTTAGE GARDENS, Queens, L. I.

## SPECIALISTS IN

### Carnations, Cannas, Chrysanthemums, Geraniums and Dahlias.

MENTION PAPER.

SEND FOR OUR PRICE LIST.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

## Nagara Falls, Ont.

John Que, in the employment of John Dobble, was seriously injured in a runaway accident Saturday, May 5.

## Towson, N. J.

Joseph Towson is lying critically ill at St. Joseph's Hospital suffering from paralysis and stomach derangement.

## Madison, Wis.

J. E. Williams made an assignment May 7 to Justice C. K. Tenney. The unsecured obligations amount to \$1,200, and the assignee states that the assets will cover all liabilities.

## Great Neck, L. I.

George P. Matthews has been engaged by the Long Island Railroad to establish two flower stands; one in the Long Island City station, the other in the Thirty-fourth Street ferry house, at Long Island City.

## Eau Claire, Wis.

O. R. Demler is making many changes in and about his premises. He has moved his residence to the east the width of one lot, also his barns, and will build new greenhouses, etc., increasing two-fold his space for business.

**Carnations and Hydrangeas.** California L. H. Campbell, No. 112, 10th St., Los Angeles, Cal., has 100,000 white carnations, well-rooted cuttings, for sale with order. P. M. DEWITT, Torrance, California, Pa.

## SEMPLE'S ASERS

**Achillea, the Pearl,** \$3.00 per 100 clumps.  
**Vines Var.,** 1/2 inch pots, 75 cents per doz.  
**Eschscholzia Var.,** 1/2 inch pots, 75 cents per doz.  
**Antipatelphia Velutina,** 1/2 inch pots, 75 cents per doz.  
**A. & G. ROSSACH, Pemberton, N. J.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

## ROSES...

FRESH CUT, \$3.00 per 100.

Good-size, large stemmed foliage bright and clean. Brides, Mermel, Napobas. Parties not known to us please send cash or we will ship by express. Cash with order.  
**R. KILBOURN, Clinton, N. Y.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

## Fine Smilax

6 to 8 feet long.  
\$15 per 100 strings.  
Cash with order, please.  
**WM. KEIR, Pikesville, Md.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

## ALL IN BLOOM

EXTRA FINE PLANTS.  
**Geraniums** 3 & 4 in. pots, \$3.00 to \$5.00 per 100  
**Hellebore** 3 & 4 in. pots, \$3.00 to \$5.00 per 100  
**Ivy Geraniums**, 3 in. pots, 3.00 to 4.00 per 100  
**Gladiolus**, 1 1/2 inch pots, 3.00 to 4.00 per 100  
Cash with order. Samples sent free by express.  
**P. WYNNING, Lebanon, Pa.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

## C. CEMALSIS

15 pots good plants..... \$2.50 per doz., \$30.00 per 100  
25 pots, better grown plants, in twine each, \$3.00 per doz., \$30.00 per 100  
\$1.50 per 100. Transplanted, \$1.00 per 100.

**F. A. BALLER, Bloomington, Ill.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

We have fine bushy plants **GERANIUMS**, composed of S. A. Nutt, La Favorite, Good Grass, Mrs. E. H. Hill, and others, all in bloom. 4 in., \$5.00 per 100.  
**WHITTON & SONS, Wholesale Florists, 1111 Pennsylvania Street, D.C., N. Y.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

## Our Latest and Greatest Bargain Offer.

**Geraniums**, all the best varieties, *Fuchsias*, *Hellebore*, in bloom all named, 2 1/2 and 3 1/2 in. pots, \$2.50 per 100. *Geraniums*, 2 1/2 in. pots, \$2.00 per 100. *Svalbarda* alb., *Genista canariensis*, 2 1/2 in. pots, Marie Louise, *Violets*, large colors, \$3.00 per 100; *Chrysanthemums*, hooded, \$2.50 per 100; *English Ivy*, rooted cuttings, strong, \$1.75 per 100.

## BRENE COUNTY FLORAL NURSERY,

White Hall, Ill.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

- Begonia** Thurstont..... \$3.00
- A. Guttata..... 2.50
- Paul Krantz, Pres. Carol..... 4.00
- Leon Verberna**, Strong..... 2.50
- Chrysanthemum**, Standard vars. 1.50
- Ruscus** (Lamb's ears)..... 1.50
- V. Variegated, 1 1/2 inch pots..... 1.50
- Antipatelphia** aurea, non 2, 1 inch, 1.50
- Cobaea scandens**, 2 1/2 inch, strong. 2.50
- Palm**, *Latania Borbonica*, per 100..... 3.00

**THOS. A. MCBETH, Springfield, O.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

## Who Wants Them.

**325 BRIDESMAID**  
**350 BRIDE**  
**250 WOOTTON**

All out of 2 1/2 inch pots, ready to plant, the lot for \$25.00.

Also 1000 REX BEGGONIANS, out of 4 inch pots, ready to plant, the lot for \$25.00.

**GEO. A. RACKHAM, Detroit, Mich.**  
**880 Van Dyke Avenue.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

## NOTICE

We have now sold out of rooted cuttings, having been ordered to sell the surplus in the past season. Our cuttings have given good results, and we did not have a single complaint from freezing in transit or poor stock.

We are adding more greens to our plant and expect to have a large stock in A. N. Y. I quality next season. The will have for trade 2,500 *Asparagus plumosus* maxima (ready in July) and 10,000 *Ornithogalum* *Carolinense* and 30,000 *Dahlia Bona* in the Fall at lowest market prices.

**A. B. DAVIS & SON, Purcellville, Va.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

## GERANIUMS

Double, *Hinterhine*, *Mime*, *Chrysanthemum*, *Grand*, *Beauty*, *Pentstemon*, *Heart* *ford*, *Nutt*, *Platanus*, *Beck*, *Ever*, strong plants from 3 1/2 inch pots, \$5.00 per 100.

**Ivy Geranium**, 7 1/2 in. doz., \$5.00 per 100.  
**Dwarf Lobelia**, *Cristata*, *Platanus* *Compacta*, propagated by cuttings, 2 1/2 inch, \$2.50 per 100.

**Dwarf Alyssum**, 3 1/2 inch, \$2.50 per 100.  
**Hellebore**, 3 1/2 inch, strong, \$4.00 per 100.

**W. E. NORTH, - Plantsville, Conn.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

## Clear Cypress Greenhouse Material.

This with us means the best growth of Cypress Lumber and the best grade of that growth; and from this grade all the sap—bright sap, which only experts can detect—as well as stained sap, knots and other defects cut out. Others do not equal our quality if they do beat our prices. It is not hard to see the reason: You can not buy gold dollars at fifty cents each. Experienced growers know that the best is not too good and cheapest in the long run.

Lockland Lumber Co.,  
LOCKLAND, O.

Write for Circulars or Estimates.

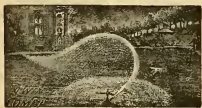
WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

## PIPE VALVES A GOOD GREENHOUSE HOSE

We are having a good manufactured from the best material in the market that will give satisfaction to all who try it. We can furnish it in 25 ft., 40 ft. and 50 ft. lengths, at 10c per foot with connections complete. Reference required for unknown parties.

Address J. G. & A. ESLER, Saddle River, N. J.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE



THE TWIN COMET (Sitionary) \$5.00  
THE LITTLE GIANT (Traveler) \$5.00

### LAWN SPRINKLERS.

Best Sprinklers made for Florists and Nurserymen's use. Will save labor of one man, or they will save a 4 times greater area than any other sprinkler.

E. STEBINS MFG. CO.

Made for J. B. FELLOWS & CO., SPRINGFIELD, MASS  
40 Warren St., N. Y. City. Will send on 5 days' trial  
Receipts Wanted. Can make by money.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

### CHOCOLATE COOLER CO., GRAND RAPIDS, MICH. Manufacturers of FLORIST'S REFRIGERATORS.

Send for Circular.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

### GROW PLANTS IN "Jadoo" Fibre. WATER THEM WITH "Jadoo" Liquid.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

### SPRAY PUMPS

The Best in the World.

Our Pumps are Used by the Leading Agricultural Colleges and Experimental Stations in America.

PRICES \$2.00 TO \$15.00.

Send for Circular and Special Price List.

CHARLES J. JAGER COMPANY,  
174 HIGH ST., BOSTON, MASS.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

The Strength of a Child pushes the "Simplex" Home Mender into place. No tools required.

The Strength of a Horse cannot pull it out.  
1/2 inch or 3/4 inch by mail, 10c.  
Containing 25 cuts, per set.

**ELECTRIC HOSE**  
can be bent double, twisted into any shape, or run over by teams without injury. Send for samples.

A GOOD LAWN SPRINKLER,  
By mail, \$1.00.

KING & KNIGHT, 35 E. Wendell Street, Boston  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

### CHANGES IN BUSINESS.

Green Bay, Wis.—The Roschke has opened a new flower store here.

Schenectady, N. Y.—J. W. H. Grube has opened a new store in the Effis Block.

Bay City, Mich.—The Irvine Floral Co. has filed articles of association with the Secretary of State; capital stock, \$10,000.

Salem, Mass.—Thomas W. Head and Henry T. Conant have entered into an agreement to all operate a florist's store in this place.

Lake Geneva, Wis.—It is reported that George S. Holmes, of Williams Bay, has purchased an interest in Longland's greenhouses.

Plymouth, Pa.—Ira G. Marvin, of Benton Harbor, Mich.—J. H. Brumby has begun the erection of a new greenhouse here. He hopes to move to Eighth Street from his present location in July.

Albert Lea, Minn.—S. F. Simson has sold his interest in the Lake Shore greenhouse to the latter's partner, who bought it, and has gone to St. Paul, where he has entered the employ of an uncle, Chris Hanson, 909 Dale Street.

Rittsville, Pa.—John F. Horn, partner and manager with the firm of Kratz, Schelley & Co., has bought out the interests of Messrs. Kratz & Schelley in their greenhouses here. Mr. Horn will hereafter conduct the business himself and will also run the stores formerly owned by the firm at 514 Hamilton Street, Allentown, Pa.

### Indianapolis.

In the statement in your correspondent's report I would like to correct one point. It ought to have read "that all credit (large) were directly secured by a mortgage given to them which is in the hands of a trustee, and the incorporated Bertermann Floral Co. also assumes responsibility for payment of the same. All small accounts will be paid in full by the Bertermann Floral Co. when due."

The officers elected for the first year are John Bertermann, president; Ed. J. Bertermann, vice-president; William G. Bertermann, secretary and treasurer. WM. G. BERTERMANN, Hagerstown, Md.

William Bester is busy planting roses, Kaiserin, Beauty and La France, for summer blooming, having cleared the beds that contained stock for Easter. A large supply of cheap stock is raised, but the trade is becoming more critical.

With an experience here of forty years, during which time the business has been steadily increasing, Mr. Bester is prepared to accommodate all comers. His business recently launched out on a commercial basis, and he has a plant, well stocked. He reports good success. He is an old-time gardener and thoroughly understands the ins and outs of the profession.

H. Holzpach, Jr., possesses a model plant. He added a stone cellar to accommodate the heavy cuts he made this season. Mr. Holzpach will be remembered in connection with the greenhouses at the World's Fair and recently at Botanic Gardens, W. M., Washington.

### Cumberland, Md.

F. X. Millman reports an increasing demand for potted plants at Easter. Approx of the free seed distribution, I was shown a collection of plants from Washington consigned to a Senator and packed and shipped free.

These were turned over to Mr. Millman to care for until the worthy Senator's house was put in shape to receive them.

Mr. Millman will build two houses, possibly more, this spring. Moninger has the contract. Eggs and carnations will be grown more extensively; they thrive here.

John Epp has blossomed out this season with a fine lot of carnations. With a capital plant he bids fair to become as successful a florist as has been in other branches. He has a fine spring stock and reports good demand for same.

John Epp has blossomed out this season with a fine lot of carnations. With a capital plant he bids fair to become as successful a florist as has been in other branches. He has a fine spring stock and reports good demand for same.

John Epp has blossomed out this season with a fine lot of carnations. With a capital plant he bids fair to become as successful a florist as has been in other branches. He has a fine spring stock and reports good demand for same.

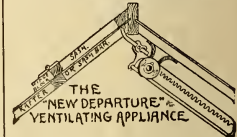
John Epp has blossomed out this season with a fine lot of carnations. With a capital plant he bids fair to become as successful a florist as has been in other branches. He has a fine spring stock and reports good demand for same.

John Epp has blossomed out this season with a fine lot of carnations. With a capital plant he bids fair to become as successful a florist as has been in other branches. He has a fine spring stock and reports good demand for same.

**SCOLLAY'S IMPROVED PUTTY BULB**  
For Glazing Sash, Etc.,  
—ALSO THE—  
**PATENT PLANT SPRINKLER**  
For sale by your Seedman or sent, postpaid for \$1.00.  
**JOHN A. SCOLLAY,**  
74 & 76 Myrtle Ave.,  
BROOKLYN, N. Y.  
**SEND STAMP FOR CATALOGUE.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Evans' Improved Challenge.**  
After hearing self-offering device, automatic stop, solid link chain, means the IMPROVED CHALLENGE is the most perfect apparatus in the market.  
Write for catalogue and prices before placing your orders elsewhere.  
**Quaker City Machine Co.,**  
RICHMOND, IND.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**IF YOU WANT A GOOD SASH LIFT**  
For a Very Little Money Get



For Descriptive Catalogue Send to  
**J. D. CARMODY, Evansville, Ind.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

### IMPROVED GLAZING.

**J. M. GASSER'S PATENT ZINC JOINTS**

For Butting Glass Without Laps.  
Makes a Roof Air and Water Tight. Saves Fuel. No Breakage from Frost or Medium Sized Hail. Manufactured by

**J. M. GASSER,**  
101 Euclid Avenue, CLEVELAND, OHIO.  
Wholesale and Retail Florist.

Write for Prices and Circulars.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CYPRESS GREENHOUSE MATERIAL.**  
ANY SPECIFICATION  
**JOHN C. MONINGER Co.**  
412 to 422 HAWTHORNE AV. CHICAGO, ILL.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CYPRESS IS MUCH MORE DURABLE THAN PINE.**  
**CYPRESS SASH BARS**  
UP TO 32 FEET IN LENGTH OR LONGER.  
**GREENHOUSE AND OTHER BUILDING MATERIAL.**  
Send for our illustrated Book "CYPRESS LUMBER AND ITS USES."  
Send for our Special Greenhouse Circular.  
**F. A. T. STEARNS Lumber Co.,**  
Newspapers, Boston, MASS.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

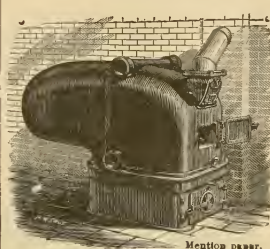
**LORD & BURNHAM CO.,**  
**HORTICULTURAL ARCHITECTS AND BUILDERS,**  
**STEAM AND HOT WATER HEATING ENGINEERS.**  
 Plans and Estimates furnished on application.



Largest Builders of Greenhouse Structures. Six Highest Awards at the World's Fair.  
 Send four cents postage for Illustrated Catalogue.

**LORD & BURNHAM CO.,**  
 ARCHITECTURAL OFFICE, 160 FIFTH AVE., COR. 21st STREET, NEW YORK.  
 Factory: Irvington-on-Hudson, New York. Mention paper.

**GREENHOUSE HEATING AND VENTILATING,**  
 Horticultural Architecture and Building.



Mention paper.

**Hitchings & Co**  
 ESTABLISHED 1844.

233 Mercer Street, NEW YORK

**FIVE PATTERNS OF BOILERS,**  
 NINETEEN SIZES,  
 Perfect Sash Raising Apparatus.  
 Rosehouses, Greenhouses, Etc., of Iron  
 Frame Construction erected complete or  
 the Structural Iron Work shipped  
 ready for erection.

Iron Frame Benches with the  
 "Perfect Drainage Bench Tie"  
 or Slate Taps.

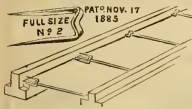
SEND 4c. POSTAGE FOR ILLUSTRATED CATALOGUE.

**GLASS** FOR GREENHOUSES, CONSERVATORIES, GRAPERIES, HOTBEDS AND  
 FLORISTS' USE GENERALLY, AT LOWEST RATES.  
**L. HERRIS & SON,**  
 497 W. BROADWAY, NEW YORK, 89 LIBERTY ST., NEW YORK  
 Del. Houston and Bleeker Sts. Del. Broadway and Church Sts.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**GLASS!** For Greenhouses, Conservatories, Graperies, Hotbeds and all other  
 purposes, at Lowest Rates. **GLASS!**  
**N. COWEN'S SON** 392 & 394 West Broadway, New York.  
 Formerly 154 and 156 No. Fifth Avenue. Estimates Freely Given.  
 Get our Figures before buying Glass.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE



**THE VAN REYPER**  
**PERFECT GLAZIERS' POINTS**  
 No rights or lefts. Price per box of 1000, 60c.  
 by mail, 75c; in lots of 5000 by ex., 55c; per 1000  
**HENRY A. DREER, 714 Chestnut St., Phila., Pa.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**GLASS** FOR GREENHOUSES, CONSERVATORIES, GRAPERIES, HOTHUSES AND HOTBEDS. **GLASS**  
**VANHORNE GRIFFEN & CO.**  
 Agents for CHAMBERS & McKEE CO. Jeannette Brands American Glass.  
 Importers of French Glass. 40 to 48 VESTRY STREET, NEW YORK.  
 Cor. Greenwich Street.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**GREENHOUSE GLASS.**  
 THE WOOD GLASS COMPANY  
 226 N. SALINA ST. SYRACUSE, N.Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

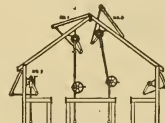
**CALIFORNIA RED CEDAR**  
 Never Decays.  
**A. DIETSCH & CO. 819 Sheffield Avenue, CHICAGO.**  
 MANUFACTURERS OF  
 RED CEDAR AND CYPRESS GREENHOUSE MATERIAL.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**JOHN H. JACKSON, SUCCESSOR TO JACKSON BROS.**  
 NEW YORK STATE HYVON TILES  
 Made since 11 THIRTEENTH  
 Manufacturer of and Dealer in Agricultural Drain Tile, Sash  
 Glass, Sewer Pipe, Red French Brick, Mortar, and Fire  
 Brick (over 100,000,000) and Blue Lining, Chimney, Tonsils,  
 Fire Clay, Kamin, Specimens, Sawdust  
 Tile, Rosendale and Portland Cement, Lime, Plaster, etc.  
 and all other goods at the lowest price.

**TRADE GREENHOUSES.**  
 THE BEST MADE.  
 "Florists" Get Your Plans and Estimate from  
**PLENTY'S HORTICULTURAL WORKS,**  
 148-156 Randolph Ave., JERSEY CITY, N. J.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**STANDARD VENTILATING MACHINE.**  
 NONE EQUAL IT IN Strength AND Durability  
 NOTHING Flimsy OR Complicated about it.  
**E. HIPPARD, YOUNGSTOWN, OHIO.**



WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**MASTICA**  
 FOR GLAZING GREENHOUSES. SUPERIOR TO PUTTY IN EVERY WAY.  
 It is not hardened by the extreme heat or cold that a greenhouse is constantly subjected to both inside  
 and out. Mastica is adhesive and remains permanently elastic so that it is not forced out of place by  
 expansion and contraction of the wood-work. Hence glazed with Mastica do not need re-glazing, thus saving  
 time and expense. With Mastica can "bed-in" or "set on the outside" but with a machine on it.  
 Mastica and Mastica Glazing Machine were given  
**HIGHEST AWARD OF SOCIETY OF AMERICAN FLORISTS AT PITTSBURGH, 1895.**  
 Put up in gallons, \$1.00. Half gallons, 60 cts. Quarter gallons, 35 cts.  
 Mastical Glazing Machines, \$1.00 each.  
 Send for full descriptive circular and testimonials. Agents in all the principal cities.  
**F. O. PIERCE CO., Sole Manufacturers, 170 Fulton St., New York.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**DO YOU KNOW WHY THE ORMSBY VENTILATING SYSTEM**

PLEASES THE FLORISTS?

**BECAUSE**

- It is light and yet strong.
- It operates quickly and evenly.
- It is durable and neat.
- It closes ventilators tight.
- It is the cheapest in the end.
- It is guaranteed for five years.

**E. A. ORMSBY, Melrose, Mass.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

SEND FOR OUR NEW CATALOGUE, WHICH SHOWS  
**The New Automatic Cable Ventilator**  
 As it is put up in the house complete. We also give you plans with a guarantee that each  
 machine sent out will operate for years successfully. 500 machines now made in two sizes.  
**A. Q. WOLF & BRO., Dayton, Ohio.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE



**Wholesale Florists**  
 ALWAYS ON HAND  
 CUT FLOWERS, BUCKLE, BIKES  
**FLORIST'S SUPPLIES.**  
**FLORISTS' VASES.**  
 Horticultural Architects,  
 84 HAWLEY STREET, - BOSTON.

**GEO. A. SUTHERLAND,**  
 Successor to Wm. G. Stewart,  
**CUT FLOWERS and FLORISTS' SUPPLIES**  
**WHOLESALE.**  
 67 Bromfield St., Boston, Mass.

**City Hall Cut Flower Market**  
**WELCH BROS., Props.**  
 Regular Dominion Given Space Free of Charge. Spaces let to growers wishing to sell their own goods.  
 Flowers shipped to all points.  
**SEND FOR PRICE LIST...**

**W. ELLISON,**  
**Wholesale Cut Flowers,**  
 Florist Supplies, Wire Designs,  
 2744 Franklin Ave., ST. LOUIS, MO.

**CHAS. G. FLECKENSTEIN,**  
**Wholesale Flowers,**  
 1323 PINE STREET,  
 ...ST. LOUIS, MO.

**C. A. KUEHN,**  
**WHOLESALE FLORIST,**  
 1122 Pine St., St. Louis, Mo.  
 A COMPLETE LINE OF WIRE DESIGNS.

**C. W. WORS,**  
**Wholesale Florist,**  
 313 N. LEFFINGWELL AVENUE,  
 ST. LOUIS, MO.  
**FINE ROSES**—Shipped carefully to all parts of the country.

**ROGERS PARK FLORAL CO.,**  
**Wholesale Growers of Cut Flowers**  
 OFFICE AND GREENHOUSE,  
 41 WABASH AVE., CHICAGO.  
 Headquarters for AMERICAN BRUTES.

**Buffalo Cut Flower Exchange,**  
**WHOLESALE COMMISSION,**  
 481 WASHINGTON ST., BUFFALO, N. Y.  
 Telephone, Seneca 1366.

**HEADQUARTERS** in Western New York. Try us  
**ROSES, CARNATIONS and ALL SEASONABLE FLOWERS.**  
**WM F. KASTING,** Wholesale Commission Florist  
 436 Washington Street, BUFFALO, N. Y.  
 Also Dealer in Florists' Supplies & Wire Designs

**CUT FLOWERS**  
**TO BURN,** \$2.50 per bbl., 180 lbs.  
**TO SPRINKLE,** \$1 per case, 450 lbs.  
**CORRECT KIND,** 413 Washington Ave., N. Y. C.

**ROSEBUDS, MOSES, WAXES,**  
**W. H. ELLIOTT,**  
 Brighton, Mass.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**OBITUARY.**  
 E. S. Nixon.  
 E. S. Nixon, Chattanooga, Tenn., died suddenly on Wednesday, May 5, the cause of death being the bursting of a blood vessel in the brain.  
 Mr. Nixon was born in Mullingar, Ireland, November 24, 1830. At the age of sixteen he came to America with his parents, who located in Canada. Before he reached his twentieth year he went to Michigan, where he resided for a number of years. During his residence at that State the war broke out and he raised a company and was commissioned captain of the Fourteenth Michigan, which company he commanded through the war.  
 Mr. Nixon was engaged in the battles of Murfreesboro and Sherman's drive and accompanied Sherman on his famous march to the sea. His war record was a brilliant one. He was wounded at Savannah at the close of the war and he returned to his home in Michigan. He came to Chattanooga in 1869 and resided here continuously since that time. Shortly after he took up his residence in this city he was made freight agent of the Western and Atlantic Railway, which position he held for twenty years. While he was engaged in the manufacture of agricultural implements he entered the flower business. He was successful and for years had been regarded as the leading florist of Chattanooga.  
 Mr. Nixon was a member of the Grand Army of the Republic. He was a thirty-second degree Mason and a member of St. Paul's Episcopal Church. The only surviving members of his family are his son, Ed. S. Nixon, Jr., and Mrs. C. D. Henley.  
 Deceased was a man of fine physique. He was upright, frank in his dealings, and outspoken in his defense of right. He was frank to a fault and had qualities of head and heart that endeared him to his friends and made him admired by his acquaintances.

**John Saul.**  
 John Saul, the well-known nurseryman and florist, died at his home near Washington, D. C., on Tuesday morning last in his seventy-fourth year.  
 Mr. Saul, who was one of the best-known of the older residents of the District of Columbia, was born at Lismore, County Cork, Ireland, Christmas day, 1823. As he grew up he was trained in the science of landscape gardening, and the Isle of Wight, and subsequently to Bristol, England. Prior to his coming to this country he was manager of extensive nurseries.  
 He arrived in Washington in May, 1850, and was at once engaged by the government to lay out the Smithsonian grounds. Lafayette Square and other public squares, and also by Mr. W. W. Corcoran to plan the beautifying of Howard Park. In 1852 he bought the property in which he spent the remainder of his life.  
 Mr. Saul was among the first in America to advocate a more general use of orchids and other rare and valuable plants, and a goodly portion of his establishment at Washington was given up to their cultivation. He was always an extensive grower of roses and nursery stock.  
 Deceased was a member of the Carroll Institute, American Pomological Society, the Society of American Florists and other organizations. He was appointed a member of the marketing commission by Gov. Alexander R. Shepherd, and was reappointed by Executive Commissions after the office of Governor was abolished, and was continued in office by each succeeding one until his death. He leaves eight children—three sons and five daughters.

**Violet-Growing in Virginia.**  
 A few years ago some ladies, anxious to increase their much-reduced incomes, thought of turning into money the blossoms of the dwarf and lilac, and planted so many years ago by their ancestors to adorn their magnificent plantations. Finding a remunerative sale for these spring blossoms, some more venturesome, undertook the cultivation of them, first attempting it in the old flower pits, where they kept, during the winter, geraniums and miscellaneous plants, and on success following this, they soon extended their facilities to 500 or 400 sashes, and some now grow in the old mountainous Valley the finest violets I have ever seen.  
 The mode of treatment is most simple. Long lines of cold frames, on the hillside, or on the edge of timber land, are given a warm, sheltered location, rough shutters made of straw and pine brush being used for winter protection. About a dozen negro boys, who get \$1 to \$1.50 per week, the picking and lancing by girls, and very well done, too, at half-hour wages. No wonder the net returns have been large. In fact, the ladies are so well pleased with the new venture that I am in receipt almost weekly of inquiries about the method of cultivation, and a warm, sheltered location, rough shutters made of straw and pine brush being used for winter protection. I am always glad to impart, as far as my eighteen years' experience will permit.

That violet culture is a pronounced success is easily seen when individual shippers average 5,000 blooms daily in February and twice as many in March. Disease has not made much headway, for in new land violets are practically free from that pest, for one or two seasons. When moving the patch care should be taken to use perfectly clean, healthy plants to a distance of several miles or so.  
 In view of the extreme low cost of raising violets and the short period of overstock—about two weeks—violet farming is, and will continue, a glowing success among the hills of Virginia.  
 J. LOUIS LOOSE.

**Precocious Parsipacity.**  
 He—Life is an old story here in Philadelphia that I lead a merely vegetable existence.  
 Little Maud (interrupting)—Oh, I know that's what papa meant when he said you were a dead beat.

**FLORISTS and CUT FLOWER DEALERS**  
 our own **CAPE and GRANDIFLORA** roses and all other kinds of roses, with special prices by thousand. Excellent shipments.  
**Southern Fruit Co., Dallas, Texas.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CUT SMILAX.**  
 12c. per string, heavy, 6 to 15 strands.  
**A. J. BALDWIN, Newark, O.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CUT SMILAX**  
 12 cents per string.  
**THE NATIONAL PLANT CO.,**  
 Dayton, Ohio.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CUT SMILAX**  
 Choice 6 foot strings N. Y. Market rates.  
 Annual output 100,000 strings.  
**ADIAMUM CUNCTATUM**  
 Extra fine flower, \$1.00 per 100.  
**CUSTAVE SCHRADER,**  
 Cut Flower Exchange, Hoffman Building,  
 100 West 14th Street, New York, N. Y.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**JOHN CONLEY & SON,**  
 MANUFACTURERS OF  
**TIN FOIL**  
 2 and 4 Dominick Street,  
 NEW YORK.

**PAPER**  
 AND  
**TWINE.**  
 Toothpicks.  
 Paper Bags.  
 Waxed and Tissue  
 Papers—all sizes.

**H. A. SOHL,** 147 E. 42d St., NEW YORK.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**E. G. HILL & CO.,**  
**Wholesale Florists,**  
 RICHMOND, INDIANA.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**M. RICE & CO.,**  
 Importers and Manufacturers of  
**FLORISTS' SUPPLIES,**  
 25 N. 4th St., Philadelphia, Pa.  
 NEW FALL CATALOGUE NOW READY  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**WELCH BROTHERS,**  
 DEALERS IN  
**FLORISTS' SUPPLIES,**  
 15 Franklin Street, BOSTON.  
 Wire Designs, Wheat Sheaves, Baskets, Imported and Native Flowers, Cut Flowers, Boxes, and all other supplies, at prices to meet competition.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**WIRE CUTTING**  
**WIRE CUTTING**  
 MANUFACTURERS OF  
**FLORISTS WIRE DESIGNS**  
 120 W. 25th St. N. Y. C.  
 TELEPHONE 1782 18TH ST.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**MEYER GREEN SILKALINE.**  
 Used for Strapping GAZETTES and LETTERS.

**SILKALINE**  
 CO. GREEN  
 MANUFACTURERS OF  
**FLORISTS WIRE DESIGNS**  
 120 W. 25th St. N. Y. C.  
 Will not fade, or rub like other colors. Makes also fancy colors for dining purposes. Send for samples and prices.  
**JOHN C. MEYER & CO.,**  
 87 Summer Street, BOSTON, MASS., U. S. A.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Boston Florist Letter Co.**  
 100 W. 14th St. N. Y. C.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Chrysanthemums.—All the best standard varieties, from pots, \$2.00 per 100.  
 Nov. 11. 16 flowers, \$1.00 per 100.

Clematis Hamamelis.—Strong plants from 3 inch pots, \$3.00 per 100; \$6.00 per 1000.

Violets.—California, Marie Louise, single, white from 3/4 inch pots, \$3.00 per 100. Lady H. Campbell, single, \$4.00 per 100.

C. EISELE, 11th & Jefferson Streets, Philadelphia, Pa.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**GARNATIONS** Daybreak, Scott, Tida 1  
 Wren, & M. Taylor, Lizzie  
 McGowan, Pettin, 414 1/2 per 100,  
 \$1.00 per 1000.

Thos. Carledge, Kohlhorst, Rose Queen,  
 Bride of Erlencour, \$2.00 per 100; \$15.00 per 1000

**VIOLETS** Lady Campbell, \$3.00 per 1000.  
 Lorraine, \$5.00 per 100; \$25.00 per 1000.  
 A. M. J. A. P. Pettin, \$3.00 per 100

**JOSEPH RENARD, Unionville, Chester Co., Pa.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**A MISTAKE,**  
 to delay your orders for  
**MINNIE COOK.**  
 Price should be \$3.00 per 100; \$25.00 per 1000.  
**MEADOW VIEW GREENHOUSES,**  
 PARSIPPANY, N. Y.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Carnations, Etc.**  
 HIGH GRADE ROOTED CUTTINGS.  
 Write for price list.  
**H. WEBER & SONS,**  
 P. O. Box 67, OAKLAND, Md.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CARNATIONS AND ROSES**  
 Strong, well-rooted cuttings of Carnations, 50 per doz during months of spring from 3 1/2 inch pots. Bride and Bridehood Rose, ready to plant, \$3.00 per 100. Strong, fine, 2 inch pots, \$1.00 per 100; \$5.00 per 1000. \$4.00 per 100. Alexanderiana, red and yellow, 50 per doz. \$3.00. Cuttings a monthly sale. Verschaffel and violet Bride, rooted cuttings, 75c per 100 in pots, \$3.00 per 1000. Cash or satisfactory reference.

**CEO. M. EMMANS, Newton, N. J.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CARNATIONS**  
**F. DORNER & SONS CO.,**  
 La Fayette, Ind.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**MORELLO**  
 The New Scarlet.  
 From soil.

**HOPP & LEMKE,** East Grand Rapids, Mich.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**GALLERT & CO.**  
**CARNATION GROWERS**  
 COLMA, SAN MATEO CO., CAL.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**DAZZLE**  
 The brightest and most productive scarlet carnation yet introduced.  
 Strong plants..... \$4.00 per 100  
 Rooted cuttings..... \$3.00  
 Send for complete list of 1000 carnation plants and rooted cuttings in 20 varieties. Ready for immediate shipment.

**GEO. HANCOCK & SON, Grand Haven, Mich.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CHAS. T. SIEBERT** THE RESTLESS & THE SLEEPLESS  
**FLORIST OF**  
 PITTSBURGH, PA.  
**GROWS & SELLS**  
**CARNATIONS THAT PAY.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

LARGEST AND BEST STOCK OF  
**PREPARED CYCAS LEAVES**  
 TO BE FOUND ANYWHERE  
 Metal Floral Designs, Sheaves, Doves, Baskets, Moss Wreaths, Wheat, Milkweeds, Cape Flowers, Wire Work, and all Florists' Supplies.  
 Write for catalogue. Free to the trade.

**A. HERRMANN, 404-412 East 34th Street (Near Ferry), New York,**  
 Manufacturer of METAL FLORAL DESIGNS, Importer and Dealer in FLORISTS' SUPPLIES.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CYCAS LEAVES AND FUNERAL SHEAVES**  
**BASKETS AND SUPPLIES,**  
**SEEDS AND SPRING BULBS.**  
 At wholesale only; apply for lists. Address  
**AUGUST ROLKER & SONS, NEW YORK,**  
 136 and 138 West 24th Street. P. O. Station E.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**POPULAR MEMORIAL DECORATIONS**  
 ARE NOT COMPLETE WITHOUT  
**MOSS WREATHS,** all sizes. **CYCAS LEAVES,** fresh lot just in, all sizes.  
**IMMORTELLES,** all colors. **BALAZ LEAVES,** green and **CAPE FLOWERS,** finest in the market. Strictly pure white. **CALUX LEAVES,** green and blue.  
**H. BAYERSDOORF & CO., 56 N. Fourth St., PHILADELPHIA, PA.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**NEW YELLOW CARNATION**  
**MAYOR PINGREE**  
 BEST YELLOW TO DATE.  
 Ready Now. \$1.50 per dozen; \$10.00 per 100; \$75.00 per 1000.  
 -FOR SALE BY-

**JOHN BREITMEYER & SONS,** THE COTTAGE GARDENS,  
 Miami and Gratiot Aves., DETROIT, MICH. QUEENS, L.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Harrison's White.**  
 \*  
 NEW CARNATION,  
**SPORT FROM WM. SCOTT.**  
 40,000 SOLD UP-TO-DATE.  
 All leading Carnationists are purchasers.  
 Strong, vigorous growth, requiring no support.  
 Described and illustrated in Florists Exchange, Nov. 21, page 1044.  
**COME AND SEE IT.**  
 Price: \$10.00 per 100,  
 \$40.00 per 500, \$70.00 per 1000  
 Cash or satisfactory reference. All orders filled in rotation.



**JOHN HARRISON,** New-Bidwell  
 7179 Bergen Ave., av. Greenview  
 JERSEY CITY, N. J.  
 Take Bayonne or Greenville Cars from Pennypack R. R. Ferry out at H. W. Ave.

**CARNATIONS, ROOTED CUTTINGS**  
 Broomfield, 2500 per 100 stems and McGowan, 5000 per 1000; Vienna var., 25,000; \$1.50 per 100; Vienna var. 1000 per 100.  
**WHITTON & SONS,**  
 WEEDSIDE FLOREST, City and Green Sts., Tulsa, N. Y.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**ROOTED CUTTINGS.**  
**CARNATIONS.**  
 Per 100 Per 1000  
**WM. SCOTT . . . . \$1.00 \$7.50**  
**LIZZIE MCGOWAN . 1.00 8.00**  
 Other varieties all sold out.

**EDW. J. TAYLOR,**  
 TERMS: Wholesale Carnation Grower,  
 Cash or Reference. SOUTHWEST CORN.  
 GAITHERY.

**Carnation Cuttings**  
 Strong and well rooted, of the following varieties: Jubilee, Triumph, Armasind, Alaska, Bridehood, Dean Hole, Goldfinch, Lizzie McGowan, Mine, Albertini, Meteor, Peachbloss, Rose Queen, Silver Spray, Wm. Scott, Uncle John.

**PRIMULAS,** 2 1/2 inch, \$2.00 per 100.  
 Send for list and prices on large lots.  
**Logan Av. Greenhouses, Danville, Ill.**

**Carnations!**  
 (Rooted cuttings now ready.)  
**Mayor Pingree, Meteor, McGowan, Daybreak, Scott, Pettin, and other good ones.**  
**Good Healthy ROSES for Spring**  
 Send for price list.  
 CUT ROSES and CARNATIONS always in stock.  
**H. DALE - - Brampton, Ont.**

**HERR'S CARNATIONS.**  
**YOU RUN RISK.**  
 If the Cuttings are not satisfactory, you return them at my expense. Limited quantities at reasonable prices.  
 Varieties:—McGowan, Alaska, Ivory, Harrison's White, Scott, Daybreak, Abundance, Triumph, Bridehood, Della Fox, Victor, Emma Wecker, Fortis, Fred Turner, Cardinale, Wave, Inco, Crimson Sport, Buttercup, Eldorado, Keller and Armisteady.  
 Pansies, Smilax, Violets,  
**ALBERT M. HERR, L. B. 496, Lancaster, Pa.**  
 WON FIRST PRIZE at Spring Exhibition of Mass. Horticultural Society, 1897.

**NEW SEEDLING CARNATION**  
**NIVEA.**  
 Originated by Mr. H.A. Cook of Shrewsbury, Mass., grown by the subscriber, and now being put upon the market as  
**NIVEA.**  
 Cuttings now ready and free from rust. \$10.00 per 100; \$36.00 per 500;  
 \$60.00 per 1000.  
**DAYBREAK, SCOTT, STORM KING, PRITAN, METEOR, GOLDFINCH, HECTOR, ALBERTINI,** and others, \$1.25 per 100; \$10.00 per 1000.  
**DELLA FOX,** nice plants from flats, \$4.00 per 100.  
**CHRYSANTHEMUM CUTTINGS.**  
 Ivory, Bonaffant, Gold Lode, Minnie Wyanmaker, \$2 per 100; \$15 per 1000.  
**A. W. HOYLE, Spencer, Mass.**  
 And 51 Wiltshire St., Sta. O.  
 DORCHESTER, MASS.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# THE FLORISTS' EXCHANGE

We are a straight shoot and aim to grow into a vigorous plant.

A WEEKLY MEDIUM OF INTERCHANGE FOR FLORISTS, NURSERYMEN, SEEDSMEN AND THE TRADE IN GENERAL.

VOL. IX. NO. 21.

NEW YORK, MAY 22, 1897.

One Dollar Per Year.

## SPECIAL SURPLUS SALE

SUMMER-FLOWERING BULBS.

**LESS THAN COST.** Please note the great reduction in prices for this week. **FIRST COME—FIRST SERVED.**

Orders for any quantity filled at these prices. Prices hold good only as long as bulbs last.

	Regular Wholesale Price.	Special.
Dwarf Pearl Tuberoses, 4 to 6 inch.....	\$7.50 per M	\$4.00 per M
Gladiolus, American Hybrid, Mixed.....	12.00 per M	8.50 per M
"    Pink Shades, Mixed.....	18.00 per M	9.00 per M
"    Yellow.....	8.00 per M	20.00 per M
"    White and Light, "Flourish" Best.....	20.00 per M	22.00 per M
"    White and Light, Standard.....	15.00 per M	11.00 per M
Lilium speciosum rubrum, 7 to 9 inch.....	5.50 per C	3.50 per C
"    speciosum rubrum, 9 to 11 inch.....	8.00 per C	4.50 per C
"    speciosum album, 7 to 9 inch.....	8.50 per C	2.50 per C
"    speciosum album, 9 to 11 inch.....	11.00 per C	7.00 per C
Madeira Vine Roots.....	8.00 per M	5.00 per M
Dahlia, Single, under names.....	12.00 per C	8.00 per C
"    Single, under names.....	10.00 per C	5.00 per C

## ASSORTED FERNS FOR JARDINIERS.

We have ready for immediate delivery a fine assortment of the best hardy varieties of ferns, such as are best adapted for filling jardiniere, and for table work. **Strong Plants, 2 inch Pots, \$4.00 per 100; \$30.00 per 1000.**

We have a specially fine lot of this popular variety, ready for immediate shipment, from **3 inch Pots, at \$7.00 per 100; \$65.00 per 1000.**

**ADIANTUM CUNEATUM.** Fine arming plants, from 2 inch pots, ready to ship into 3 inch pots, at the exceptionally low price of **\$3.00 per 100; \$25.00 per 1000.**

**LATANIA BORBONICA.** Fine arming plants, from 2 inch pots, ready to ship into 3 inch pots, at the exceptionally low price of **\$3.00 per 100; \$25.00 per 1000.**

**PITCHER & MANDA, Short Hills, N. J.**  
JOHN N. MAY, Receiver.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## LOOK AT THESE BARGAINS

**SPEAK QUICK IF YOU WANT THEM.**

We offer at these low prices in order to close out our stocks, as it is getting late in the season. Although the prices are exceedingly low, the goods are first-class in every respect; low prices are not at the expense of quality. If you can use any of these bargains, let us have your order before stocks are gone.

### DOUBLE TUBEROUS BEGONIAS.

In Separate Colors—White, Pink, Scarlet and Yellow.

We offer these at only **\$6.00 per hundred**—a little more than the price of Single Begonias. This is an opportunity to secure the finest strain of Double Begonias at a nominal price.

### TUBEROSE PEARL.

We have a fine lot of very fine bulbs in the very best possible condition—clean, dry, and hard, free from scald, and in perfectly sound condition in every respect—bulbs running well up to size. We offer these at **\$1.00 per hundred; \$6.00 per thousand; 5000 lots at \$5.00 per thousand.**

### COCOS WEDDELIANA.

Fresh Seed in Perfect Shape. We offer this as long as unsold at **\$6.00 per thousand.**

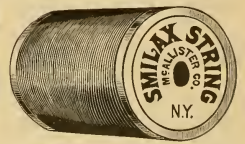
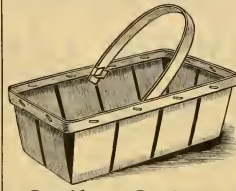
**F. R. PIERSON CO.,**  
TARRYTOWN-ON-HUDSON, NEW YORK.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## HIGH GRADE SEEDS AND BULBS

### Verbena Baskets.

Strong, well made, with handles,  
\$2.25 per 100. Special prices for large lots.



### Smilax String.

The Best String in the market for this purpose. 75c. per box (6 spools, 200 yards each). Special price for large lots.

### IRON BOUQUET HOLDERS.

Tulip shape, No. 4, 20 cts.; No. 5, 25 cts.; No. 1, 35 cts. each.  
Tulip shape, galvanized, No. 4, 20 cts.; No. 5, 25 cts.; No. 1, 45 cts. each.  
Lily shape, No. 9, 20 cts.; No. 6, 30 cts. each.  
Lily shape, galvanized, No. 0, 20 cts.; No. 6, 50 cts. each.

**F. E. McALLISTER CO.** Seed and Bulb Merchants, 69 Cortlandt St. N. Y.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## Cannas Fine Started Plants.

**Burbank,** the grand yellow, each, 75c; 6 for \$4.00.

**Italia,** grand scarlet and yellow, each, 50c; 6 for \$2.50.

**Florence Vaughan,** **Alphonse Bouvier,**  
**Eldorado,** **Madam Croz,**  
**Sophie Buchner,** **Secretary Stewart,**  
**Exploretour Crampel,** **Chas. Henderson.**

And all the leaders in 3 inch pots, at 6c. to 10c. each.  
Per 100, well assorted, our selection, \$6.00.

**Rose Pres. Carnot,** Very choice stock, grown by Mr. E. Aasus. Per 100, \$15.00; per 1000, \$125.00.

**Rose Yellow Rambler,** 2 1/2 inch. Per 100, \$15.00; doz., \$2.50.

**Roses,** **PERLES, BRIDES and BRIDESMAIDS,** fine, 2 1/2 inch pots, \$4.00.

**Dahlia's,** Strong field roots, excellent mixture, to color, our selection. Per 100, \$7.00.

**Forcing Bulb Prices** (for Fall) ready, send for our estimates.

14 Barclay St. **VAUGHAN'S SEED STORE** 84-86 Randolph St. CHICAGO.  
N. Y. CITY.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE



# "GOOD THINGS"

Are Revealed by Watchfulness.

- Rustle Hanging Baskets, 10 In. each, \$1.00; per doz., \$10.00.
- Cane Plant Stakes, 80 cts. per 100; \$7.00 per 1000.
- Radia, best braided, Per lb., 14 cts.; per 100 lbs., 13 cts.; per bale, 12 cts. per lb.
- Gladious, mixed, fine bulbs, 75 cts. per 100; \$7.00 per 1000.
- Lily Auratum, 9c1., \$5.50 per 100; \$50.00 per 1000.
- Lily Album, \$7.00 per 100; \$60.00 per 1000.
- Ryan's Stand Fertilizer, Special offer for 10 days only. Bag, \$1.75; 5 bags, \$8.50; 10 bags, \$16.00; 20 bags (1 ton), \$30.00.

## WM. ELLIOTT & SONS NEW YORK.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**CANNAS**—Paul Marquet, red; J. E. Bailly, yellow. 80c. per doz.; \$2.50 per 100. These are well rooted roots in 10 in. tubs, and ready for 4 in. pots. Cash with order. A. J. BALDWIN, Newark, O.

## Columbia Cannas BEST RED. DRY ROOTS.

\$1.50 per Dozen. Cash.  
**EDWIN A. SEIDEWITZ,**  
36 W. LEXINGTON ST., BALTIMORE, MD.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**BURPEE'S SEEDS**  
PHILADELPHIA  
WHOLESALE-PRICE LIST  
FOR FLORISTS AND  
MARKET GARDENERS

## SUMMER FLOWERING BULBS.

CHAS. H. ALLEN, Floral Park, N. Y.

## SEEDS for Profit Sweet Peas

Wholesale Catalogue on application. Send Merchants  
**WEBER & DON,** Seed Growers,  
114 Chambers St., New York City.

WE ARE HEADQUARTERS ON  
**BULBS FOR FORGING,**

**FLOWER SEEDS FOR FLORISTS,  
ENGLISH MUSHROOM SPAWN.**

SPECIAL PRICES OF APPLICATION.  
**JOHN GARDINER & CO.,** Seedsmen,  
Box 1306, Philadelphia, Pa.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

## BUY FROM THE GROWERS DIRECT ALL BULBS AND PLANTS

For Summer and Fall Delivery, Quoted  
at Very Low Rates.

FREE ON BOARD CARS OR BOATS  
NEW YORK CITY.

**HULSBOSCH BROS.,** Englewood, N. J.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

# TUBEROUS ROOTED BEGONIAS

Holland grown, English strain, colors separate, per 100, \$3.00.

**L. C. BOBBINK, Rutherford, N. J.**

Branch, HORTICULTURAL CO., Boskoop, Holland.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

# LILIU LONGIFLORUM.

....JAPAN CROWN....

CONTRACTS for small and large quantities closed now. Crop is going to be short. Prices to meet competition. Don't overlook this, but write at once to

**F. W. O. SCHMITZ,**  
Importer and Exporter of ONLY superior  
quality of Florists' supplies.  
**JERSEY CITY, N. J.**

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

# LOOK! LOOK! LOOK!

Up to JUNE 15th only we book for June-July Delivery.

## FREESIA REFRACTA ALBA.

GOOD FLOWERING BULBS.

	100	1000	5000
1 1/2 inch diameter.....	\$0.25	\$2.00	\$8.00
2 1/2 inch diameter.....	40	2.50	10.00
3 1/2 inch diameter.....	60	4.00	18.00
Mammoth, 3 1/2 inch and up.....	100	8.50	25.00

Prices include prepayment of Mail or Express Charges.

Extra Offer in Palm Seeds up to June 15th.

	100	1000	5000
Corypha australis.....	\$0.60	\$3.00	\$15.00
Senfortia elegans.....	60	3.50	15.00
Phoenix canariensis.....	40	2.25	10.00

Prices include delivery. 5 Per Cent. Discount allowed on orders with Cash. Send for new Price List of Calla Longiflora, and all other California, Japan, French and Dutch Import Bulbs for Summer and Fall delivery. Address

## H. H. BERGER & CO., San Francisco, Cal.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

## Cultural Directions for Plant Purchasers.

We have a fine selection of these useful leaflets and will get up one on any subject not in stock. The idea is that when you sell a plant you bundle with it a leaflet instructing purchaser how to care for it, thus saving your time and your patience. Samples at request.

## Books, Books, Books and Magazines.

Send us your name for a free copy of our catalogue of select horticultural books, now ready for delivery; the most comprehensive list of books in this specialty ever brought together within two covers, and embracing every work of merit treating on flowers, plants and kindred subjects published in this country or Europe.

The Magazine list published at the close of the catalogue will prove it to your advantage to order your magazines and periodicals through us.

**MRS. THEODOSIA B. SHEPHERD,**  
By Order and Grower of Narcissus, offers the entire stock of some Grand New Begonias, New Abutilons, and a New Dwarf Double Fuchsia. Correspondence solicited. Venture by the Sea, California.

## BULBS.

	Per 100	Per 1000
Gladol., choice mixed.....	\$1.00	\$10.00
Madra Vine Knott.....	.75	7.50
Falcat., Pea.....	50	5.00
Oxalis, sweet mixed.....	50	5.00
Catalpa, medium.....	50	5.00
Dahlia, mixed.....	50	5.00
SWEET PEAS, Esford's mixed, per lb.....	60	6.00

**H. G. FAUST & CO.,** 61 & 66 N. Front St., Philadelphia, Pa.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**CLUGAS & BODDINGTON CO.,**  
Importers, Exporters and Growers' Agents of  
**Plants, Seeds and Bulbs,**  
501 and 503 W. 13th St.,  
Telephone Calif. 403 13th St. NEW YORK CITY

## HEADQUARTERS FOR Callas and Freesia Bulbs

## PAMPAS PLUMES, Palm, Calla and Flower Seeds.

Please let us book your orders for BULBS at once. ....  
ASK FOR SPECIAL PRICES.

**GERMAIN FRUIT CO.** Los Angeles, Cal.

## Pure White Dahlia, BRUANTHII

is without question the best payer for Florists.

3 1/2 in. pots.....	per doz.	\$5.00
2 1/2 " " ".....	per doz.	10.00
Rooted cuttings.....	per 100	3.00
Other good varieties.....	per 100	5.00

Cash with order, please.  
**ALBERT KNAPPER,**  
Frankford, Phila., Pa.

## Price-Winning DAHLIAS

AN UNPRECEDENTED RECORD.

23 First Prizes, Certificate of Merit, 2 Diplomas, and highest mention everywhere.

If you want the Very best Dahlias that bloom, send for our 1897 descriptive trade list now ready. Address

**W. P. PEACOCK,**  
Dahlia Specialist, ATCO, N. J.

## NOW IS THE TIME TO ORDER FRESH STOCK,

JUST ARRIVED.

## AMARYLLIS JOHNSONII, EXTRA LARGE BULBS.

Send me your list of such stock you will need the coming season, and I will quote you my bottom prices for first-class goods.

**F. W. O. SCHMITZ,**  
JERSEY CITY, N. J.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**PALM** Seed. FRESH ON HAND

	Per 100	1000	5000
Argem Intencens.....	\$1.00	\$7.50	\$30.00
Chamaerops excelsa.....	1.00	7.50	30.00
Phoenix canariensis.....	50	3.00	15.00
Lantana Borbonica.....	50	3.00	15.00
Phenax amurensis.....	50	3.00	15.00
N. reclinata.....	1.00	7.50	30.00
Apparatus altemansmannii.....	1.00	7.50	30.00
Senfortia elegans.....	1.00	7.50	30.00
Braconia indica linearis.....	1.00	7.50	30.00
	50 cts. per doz.		

**J. L. SCHILLER, Rutherford, N. J.**  
WHEN WRITING MENTION THE FLORIST'S EXCHANGE

OFF TRADE REPORT

Points and information from seedsmen, and all interested in this column, solicited. Address Editor Seed Trade, care of Florists' Exchange, P. O. Box 1867, New York.

Meeting of Seed Trade Association. The fifteenth annual meeting of the American Seed Trade Association will be held at the Elbert House, Washington, D. C., on June 8, 9 and 10. As there are so many conflicting interests at present and threatening the seed trade at the present time, it is desirable to have as large a representation of seedsmen as possible, so I deem it my duty to issue this circular, requesting all members to make a special effort to attend. I likewise send it to invite seedsmen who have not joined the association to send in their names, in that the Committee on Membership may report them at the opening meeting. I may mention here that it is customary the first meeting to suspend the rules and elect new members, so that they may participate in all the meetings of the association. The annual dues are \$5. The Executive Committee has prepared a fine programme, to which is added a paper from Mr. W. Atlee Burpee on the new Cook Bill, and a paper from the Department of Distribution of Seeds," and likewise, a paper from Mr. Alex. Rogers, with remarks and questions on the new Cook Bill, which has been re-introduced in the House of Representatives at Washington, D. C. Burpee refers to the Committee on Agriculture and ordered to be printed. Those familiar with the original Cook Bill, which died with the last Congress, know that the provisions which it imposed on the seed trade were impracticable. Hoping to see you in Washington, T. W. WOOD, President American Seed Trade Association.

Philadelphia, W. Atlee Burpee left on Monday last for California, where he will spend a month inspecting seed crops there and sweet peas. Mr. Burpee says that although we have been passing through such depressed business times as to farm sales, sweet pea seed have been eight thousand and a half pounds more than last year, and with whom they have been they have over 50,000 pounds of sweet peas in their warehouse next fall. Mr. Burpee expects to return from California late in June, and after going through his own trials of sweet peas will sail for Europe early in July and will visit Henry Eckford, in Shropshire, about the middle of July, when this well-known sweet pea specialist will have his crops in full bloom. These trips of Mr. Burpee will amount to over 13,000 miles travel in the interest of sweet peas.

European Notes.

Bad Effects of Cold Weather. The effects of a cold winter have been passing over Europe during the past week and the rapid progress of vegetation has been checked thereby. Ice covered the pools this morning and the indications are for a repetition to-night. Even in the south of France the nights are very cold, and as no rain has fallen for several weeks and the prospects are not so rosy as when the last report was penned. The far-reaching consequences of a spring unfavorable weather is strikingly exemplified in Germany just now. Owing to the long drought in the spring the comparatively limited stock of green vegetables available for the supply of green vegetables during the present time is very small and fortunate growers are reaping a golden harvest while growers of rape, thousand-headed kale and plants which are ready sale for cattle feed are finding a ready sale for them in the vegetable markets of the country. The seeds of most of the early shoots of brassicas standing for seed have been marketed in the same way, and the seed price for most of the foregoing are likely to be very limited indeed. As a result the price of rape has been really advanced for a usually brisk spring sale has depleted stock to an extent not anticipated by us. New Market Turp Crop. Turnip and Swede plants are causing us a considerable amount of anxiety just now, for as a general rule

they are progressing backwards; this is especially true of Swedes. The cold, wet autumn and the wet winter have not developed a robust plant, and now that their chief effort is called for they are unequal to the task and are dying off by wholesale. Even where they looked fairly strong they are now badly affected and many are dropping. The crop of this article that can, under the most favorable conditions be produced, will be the smallest known for many years. Turnip is still in the balance, but another ten days will decide. Cabbage will be a very moderate crop everywhere; but Broccoli and Savoy are reasonable. Beet, carrot, mangel and parsnip are looking fairly well on the whole, but the breadth of each planted is so small that if anything should injuriously affect them the crop will be almost nil.

Trade in Market Seeds. In market seeds the continued advance in the prices of rape and mustard is the most noticeable. The trade in clovers and grasses is slow and prices a long way below "rock bottom." Dealers with a very few fortunate exceptions, will have a very unpleasant recollection of the spring season of 1897. Lucerne, which did so well during the drought of '96, has been a really profitable line to the seedsmen. The demand for lucerne has been phenomenal and prices remunerative. The Dutch Seed Crop. The continued cold weather in Holland has, it is feared, not only retarded the development of Dutch bulbs, but also injured their quality. There is a prevailing idea among the growers that the trade in these articles is likely to be very brisk this year, and these causes combined have induced the bidders at the public auctions recently held to go fully ten per cent above last year's prices. The Dingley tariff bill (if it ever should be passed) will show the wisdom or otherwise of this step. EUROPEAN SEEDS.

ROSE HILL NURSERIES.

THE LARGEST AND FINEST STOCK IN AMERICA. SPECIALITIES—Palms, Dracaenas, and other Plants Suitable for Vases. CANNAS. MRS. FAHMAN ROGERS, 4 in. pots, Queen of all Cannas, 1/2 doz per doz. Can sell the largest stock of this grand variety, 1/2 doz per doz. ITALIA, 4 in. pots, \$4 per doz. AUSTRIA, 4 in. pots, \$2 per doz. Equal quantities, \$30.00 for 100. Queen Charlotte, Columbia, Crozy, \$12.00 per 100; 4 inch pots. We have the finest lot of BAY TREES ever seen in America in all sizes and prices. BUXUS ARBOREA PYRAMIDS, \$3.50 to \$6.00 per pair. The above is a brief list of our specialties. Our new Wholesale and Retail Catalogue will be mailed on application. Write, Telegraph or Telephone us and our Carriage will meet you.

N. Y. Office: 409 5 Ave. Telephone, 1742-38th St. SIEBRECHT & SON, Telephone, 151-New Rochelle. NEW ROCHELLE, N. Y. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

CANNAS FINE STRONG STOCK.

Started plants, \$4.00 per 100. Plants from pots, \$5.00 per 100. Mme. Crozy, Chas. Henderson, A. Bouvier, Sunbeams, Eganale, Star of '91, St. Hillaire, Ami Pichon, Pres. Carnot. Austria, and Souv. de Antoine Crozy, \$10.00 per 100. Chas. Henderson, A. Bouvier, Sunbeams, Count H. de Choiseul, dormant, at \$2.00 per 100. F. R. Pierson, \$3.00 per 100. Mme. Crozy, dormant, \$3.00 per 100.

DAHLIAS. Fine 2 1/2 inch stock, in variety, at \$6.00 per 100.

GERANIUMS. A few thousand, 2 1/2 inch stock, at \$25.00 per 1000.

IVY GERANIUM. 100 Jean d'Arc, at \$2.00.

BEGONIA VERNON. Fine 2 inch stock, \$2.50 per 100; \$20.00 per 1000.

CHRYSANTHEMUMS. \$2.50 to 100, Ivory, Pink Ivory, Mrs. Perrin, The Queen, Nanshon, Marion Henderson, Mrs. Egan, Wm. Simpson, Marquis de Montmort, Mrs. Jerome Jones, Erminida, Niveus, Gladys Spaulding, V. Morel, Philadelphia, Daydawn, Mrs. Robinson, Miss Johnson, Bergmann. \$4.00 per 100, H. W. Rieman, Liberty, Invincible, Pluto, Fitzwygram, Lenaeve, Autumn Bride, Silby Kaye, Indiana, Yanona, F. B. Hayes, Mrs. Murdock, Mrs. R. Crawford, Pride of Castlewood, Violoscent, Riverside, Rinaldo, &c.

CARNATIONS. From Soil. Minnie Cook, \$2.50; Mrs. Chas. Dulme, \$10.00; Armazindy, \$3.00; Abundance, \$2.50; Bridesmaid, \$3.00; Mrs. G. M. Bradt, \$10.00 per 100.

FOSSEE

PER MILDEW ON ROSES, GRAPEs and CARNATION BUST, 25 lbs., \$5.00 each, \$3.75. JOOSTEN'S MAGAZINE BELLOWS \$1.75. The best for applying Feltos, Sulphur, etc.

For Summer and Fall Delivery. French and Dutch Bulbs, Azalea Indica, Berlin Lily of the Valley, Lilium Harrisii, Longiflorum, etc., Roses, Rhedodendrons, etc.

G. H. JOOSTEN, Importer, 1015 Greenwich St., NEW YORK.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE THE JENNINC'S STRAIN of Finest American Grower

PAINSEY SEED THE COTTAGE GARDEN QUEENS, L. I.

NEW CROP. Ready June 15th. E. B. JENNINGS, Lock Box Southport, Conn. GROWER OF THE FINEST PANSEYS. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

THE COTTAGE GARDEN QUEENS, L. I.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

STOCK

Table listing various plants and their prices per 100 or per 1000. Includes Abutilon, Acalypha, Achyras, Aralia, Begonias, Chrysanthemum, Chrysanthosida, Cyclamen, Fuchsia, Geraniums, Geraniums, Ivy, Musc. Exsiccata, Strobilanthes, Swainea.

TRADE LIST FREE ON APPLICATION.

Cash with order from unknown customers or C. O. D. Orders amounting to \$5.00 and over, F. O. B., N. Y. City.

SEANICKA GREENHOUSES OYSTER BAY, QUEENS CO., N. Y.

JAS. C. CLARK, Supt. P. O. BOX 34. W. M. L. SWAN, Prop. WHEN WRITING MENTION THE FLORISTS' EXCHANGE





Cincinnati.

NOTICE

ters in connection with school buildings and see to their equipment with the most improved appliances for the attainment of knowledge.

Mr. Dean was appointed by the Executive Council of the American Floriculture for the State of New York at the World's Fair, Chicago, 1893, and in that position enjoyed the highest honorably as to place his State foremost among her sisters, and win for himself deserved encomiums from the public and the State and World's Fair authorities for the magnificent results which grewed his work.

There are quite a number of growers who hold over some of their plants of this year, and again many transplant from the benches to solid beds. Where this is done the plants must be gradually dried off and all the air possible be given them at all times to wilt upon the wood.

ROSES.

There are quite a number of growers who hold over some of their plants of this year, and again many transplant from the benches to solid beds. Where this is done the plants must be gradually dried off and all the air possible be given them at all times to wilt upon the wood.

It often happens where they have to be transplanted back to the same house, that quite a little repairing has to be done, so the better plan is to put the plants in a cool place temporarily, and for about twelve or fifteen inches. Dig up the roots carefully and remove all the soil from the

It will not do any harm to trim a few of the longest roots back a little to facilitate planting, which should be done carefully. Don't plant any deeper than they were planted in the original hole, but shallow, and spread out the roots evenly, give one thorough watering to each plant, and keep them in the same sense must come into play. Syringing the house and canes two or three times a day is favorable to their growth. If the plants to break well. As the shoots begin to grow and get larger and the water supply is increased, be especially careful. It is impossible for me to state the quantity of water, but as a great deal depends on the weather, the success or failure it should have the closest attention. Never shade, and the more air given the better.

Wheeling, W. Va.

Business has been very good and the outlook for a large trade in bedding stock is very bright.

Messrs. Huscroft Bros. have opened a pretty store on the corner of Market and Second streets, and the new place made it very attractive. They are building quite a large plant on the peninsula.

Mr. Handle has moved his store to Twelfth and Market Streets, near the Ohio River.

Gus. Messerger has suffered a sad bereavement in the death of his wife, which occurred Saturday, May 15.

Market Notes.

Business for the week has not been particularly good, the cause being, thank you for what you get. We have not been forced to sell carnations at \$1 or \$2 per thousand yet. Prices of roses remain fair for good stock, but very little of the latter is coming in.

William Murphy is cutting some fine spikes of gladiolus that sell, wholesale, at 50 cents per dozen. Sweet peas are quite scarce and bring 75 cents to 75 cents per 100. Plenty of Harniss lilies are in sight at present.

Richard Schmidt, of Covington, Ky., will wed a young lady of Hamilton next week.

C. S. Ford, representing A. Herrmann, New York, is in the city looking after the supply business.

The George, Hepler & Allen is now the style of the new first class and large charge of the Oakley rose houses. These young men are all practical growers and we shall expect to see some fine stock later on.

Realizing the Stand.

This is the month that the stand rents are made and the growers are marching up to the captain's office to settle. The trustees have made an advance of prices as to stands, the highest figure paid now in the market for one year being \$30, and the others grading to \$25 and \$20.

When this market opened the stands situated trade at the west and sold at \$40 each; everybody wanted this location and the ones who kicked the hardest

5000 Extra Large Clumps of Myrtle.

F. A. BOLLES.

East 10th St., Lawwood, Brooklyn, N. Y.

ALL IN BLOOM - EXTRA FINE

Cash with order. Samples sent free by express. B. P. McWINE, Lehigh, Pa.

ROSEBUSH PLANTS.

Coleus, Golden Beider, Red Verscheffel, and Brand. Ageratum, 3 in. pots, \$3.00

D. J. W. LEACH.

Cor. DeLoe & Dilmers Aves. L.I. City, N.Y.

ALTERNATHERA.

Strong, pot grown plants, ready for planting. A. J. B. Baldwin, Newark, Ohio.

ROOTED CUTTINGS.

Cash Prices. Chrysanthemums, standard and new, named sorts, by mail, \$1.00 per 100.

Chrysanthemums, standard and new, named sorts, by mail, \$1.00 per 100. Heliotrope, \$1.00 per 100. Double Gladiolus, \$1.00 per 100.

R. N. FRYER.

Railroad Ave. and Hill St., BROOKLYN, N. Y.

We have now sold out of rooted cuttings, having disposed of over a quarter of a million

General Catalogue & Garden Guide FOR THE SOUTH

Comprising Summary Description, Degree of Hardiness, Hints to Culture of 1800 Sorts of Plants, New Enlarged Edition, 93 pages. Free by mail.

Southern California Acclimating Association, SANTA BARBARA, CALIF.

General Catalogue & Garden Guide FOR THE SOUTH

Comprising Summary Description, Degree of Hardiness, Hints to Culture of 1800 Sorts of Plants, New Enlarged Edition, 93 pages. Free by mail.

Southern California Acclimating Association, SANTA BARBARA, CALIF.

General Catalogue & Garden Guide FOR THE SOUTH

Comprising Summary Description, Degree of Hardiness, Hints to Culture of 1800 Sorts of Plants, New Enlarged Edition, 93 pages. Free by mail.

Southern California Acclimating Association, SANTA BARBARA, CALIF.

General Catalogue & Garden Guide FOR THE SOUTH

Comprising Summary Description, Degree of Hardiness, Hints to Culture of 1800 Sorts of Plants, New Enlarged Edition, 93 pages. Free by mail.

Southern California Acclimating Association, SANTA BARBARA, CALIF.

General Catalogue & Garden Guide FOR THE SOUTH

Comprising Summary Description, Degree of Hardiness, Hints to Culture of 1800 Sorts of Plants, New Enlarged Edition, 93 pages. Free by mail.

Southern California Acclimating Association, SANTA BARBARA, CALIF.

General Catalogue & Garden Guide FOR THE SOUTH

Comprising Summary Description, Degree of Hardiness, Hints to Culture of 1800 Sorts of Plants, New Enlarged Edition, 93 pages. Free by mail.

Southern California Acclimating Association, SANTA BARBARA, CALIF.

General Catalogue & Garden Guide FOR THE SOUTH

Comprising Summary Description, Degree of Hardiness, Hints to Culture of 1800 Sorts of Plants, New Enlarged Edition, 93 pages. Free by mail.

Southern California Acclimating Association, SANTA BARBARA, CALIF.

General Catalogue & Garden Guide FOR THE SOUTH

Comprising Summary Description, Degree of Hardiness, Hints to Culture of 1800 Sorts of Plants, New Enlarged Edition, 93 pages. Free by mail.

Southern California Acclimating Association, SANTA BARBARA, CALIF.

General Catalogue & Garden Guide FOR THE SOUTH

Comprising Summary Description, Degree of Hardiness, Hints to Culture of 1800 Sorts of Plants, New Enlarged Edition, 93 pages. Free by mail.

Southern California Acclimating Association, SANTA BARBARA, CALIF.

General Catalogue & Garden Guide FOR THE SOUTH

SEMPLE'S ASTERS.

Per 100. Achillea, the Pearl, 3/4 on 50 per clumps. Vinca Yarrow, and Ampelopsis, 3/4 inch pots.

When Writing Mention the Florist's Exchange.

GERANIUMS, SMILAX.

Good 4 in. Geraniums... \$1.00. 2 Begonias... \$3.00. 2 \* \* \* \* \$5.00.

BETSCHER BROCK'S, CAROL DORR, O.

When Writing Mention the Florist's Exchange.

CISSUS DISCOLOR

2 1/2 inch, \$4.00 per 100.

When Writing Mention the Florist's Exchange.

When Writing Mention the Florist's Exchange.

When Writing Mention the Florist's Exchange.

When Writing Mention the Florist's Exchange.

When Writing Mention the Florist's Exchange.

When Writing Mention the Florist's Exchange.

When Writing Mention the Florist's Exchange.

When Writing Mention the Florist's Exchange.

When Writing Mention the Florist's Exchange.

When Writing Mention the Florist's Exchange.

When Writing Mention the Florist's Exchange.

When Writing Mention the Florist's Exchange.

When Writing Mention the Florist's Exchange.

When Writing Mention the Florist's Exchange.

When Writing Mention the Florist's Exchange.

When Writing Mention the Florist's Exchange.

When Writing Mention the Florist's Exchange.

When Writing Mention the Florist's Exchange.

When Writing Mention the Florist's Exchange.

When Writing Mention the Florist's Exchange.

When Writing Mention the Florist's Exchange.

When Writing Mention the Florist's Exchange.

When Writing Mention the Florist's Exchange.

When Writing Mention the Florist's Exchange.

When Writing Mention the Florist's Exchange.

When Writing Mention the Florist's Exchange.

When Writing Mention the Florist's Exchange.

When Writing Mention the Florist's Exchange.

When Writing Mention the Florist's Exchange.

When Writing Mention the Florist's Exchange.

When Writing Mention the Florist's Exchange.

When Writing Mention the Florist's Exchange.

When Writing Mention the Florist's Exchange.

When Writing Mention the Florist's Exchange.

When Writing Mention the Florist's Exchange.

Harrison's
White

NEW CARNATION, SPORT FROM WM. SCOTT. 40,000 SOLD UP-TO-DATE. All leading Carnationists are purchasing. Strong, vigorous grower, requiring no special culture. Described and Illustrated in Florist Exchange, Nov. 21, page 1044. COME AND SEE IT. Price: \$10.00 per 100, \$40.00 per 500, \$70.00 per 1000. Cash or satisfactory reference. All orders filled in relation.

JOHN HARRISON, Near Edwille, Pa., formerly 793 Bergen Ave., Jersey City, N. J. Take Bayonne or Greenville Car from Passaic and at N. R. Ferry get off at Edwille Ave.



CHRYSANTHEMUMS

The time to plant our chrysanthemums is soon before the very first work is done in the hands. I have no farm around me, and cannot plough up in the fall and spring, so I haul good loam with plenty of root fibre in it; not too tight, but at the same time not sticky. It must break to pieces in the hand. I set that together with about one-eighth part of cow manure. This work I do, if possible, in March, but where it is not performed at that time, it ought to be done at once, so that the sod may decay a little, or it will be hard work to get it fine enough for planting.

These plants which I grow for specimen plants I have at present in five-inch pots. These will, in the course of time, go into 12-inch. The plants I use for market and for sale in seven, eight and ten-inch pots are standing in three-inch pots now and I take the tops off for my last set of cuttings, which will be just right for planting next month. I have some advance specimens in vase varieties like Fred, Walz, Ivory, Pink Lucy, Minerva, Major Bonaffon, and, in fact, the finest growers I really now in two and one-half inch pots, and rather shift them into a larger pot, say four inches, before planting. I set the stems long enough out. The plants I topped in three-inch pots, I let go for a week or so and then give them a shift into five-inch pots and place them in an airy house on the bench.

I prefer house to outdoor culture, and find that the plants do the best growing better. Outside, with heavy rains at this time when the plants are in 1 1/2 inch pots, is very harmful to the root action, and if the plants suffer here, they are not easily brought into good shape again.

When potting I use the soil I have put up for it, but before using I give it a good sprinkling with water so that I have about a bushel of soil I add 4 or 5 pots (each) of charcoal dust, which can easily be obtained from a gas house, and do not use the soil on account of being too fine, is just right for us. It is very beneficial, too, to use an 10-salt solution, and I do not use the soil saved for that purpose, when the boiler is being cleaned. Mix this well together and add one pint to it to every cubic foot, so as to give the water a chance to pass through it. TIND. BOCK.

STIRRED UP BOYS

As soon as young plants have been set out in the field and the weather begins to clear, and the cultivator should be kept going. The soil should never be allowed to become hard.

There are some doubtless some yet who do not realize the importance of keeping the soil loose; and if any one wishes to get the best of treatment stirring up the soil, that he may have an object lesson to convince him, let him try a portion of it at hand and use the cultivator on it several times oftener than ordinarily, and will warrant that he will never get that grateful with the result.

An thoroughly exposed to deep below or cultivating, and believe a great deal of work can be done in this way. The idea of hoeing and cultivating is to loosen the soil for the roots to take hold of. A thorough preparation of the ground before the plants were set out will have accomplished all in this line that is necessary. A continuing being stirred once an inch or so deep, secures to the plants the greater portion of the essentials they require for being stirred out, and out of to develop into good, thrifty subjects.

I consider this the best way to water plants in a dry season. An inch or so of dry dust will effectively prevent a rapid evaporation of the moisture contained in the soil, which in ordinary and more particularly so in very dry weather, the plants are entirely upon the subsoil for moisture. The latter is taken up or absorbed by the soil, often

from a considerable depth, but the supply is limited, and, therefore, after each rain, as soon as the soil is dry enough, we must be on our guard to husband as much of it as possible.

If we allow the soil to become baked and hard a rapid evaporation of moisture takes place through the cracks and fissures, which always results in the appearance when the cultivators stop running. They may not be very large in some instances, but are, nevertheless, wasting a great deal of moisture which should be held in reserve for the nourishment of the plants, and nothing accompanies this so well as a thin layer of finely pulverized soil. Husbanding the moisture in the soil and subsoil and thus permitting the plants to accomplish in a more deliberate way what the cracks and fissures would do, is the first and most important benefit derived from frequent cultivating.

There are two other items, however, quite as beneficial, in their way, to the plants. First, keeping the weeds in check, which is certainly no small item; secondly, permitting the air to get at all the surface roots which the plant may make. If the carnation did not persistently make these surface roots we would not be required to provide for this at all, beyond what most plants require. But in the carnation we have them so abundant that it is necessary to very forcibly to mind when we attempt to deprive the plant of its natural proclivities to make surface roots by soiling the plants too deep. The growth of those so treated is at best weak, and more often discarded; usually, they do not carries them off. H. WEBER.

Carnations and Violets, California. L. H. 'emphire' \$10.00 per 100. Rosebud Runner, Swanley White, \$1 per 100. Carnations, well-rooted cuttings, Wm. Scott, \$16.00 per 100. Cash with order.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

CARNATIONS, ROOTED CUTTINGS. Hidesdale \$1.50 per 100. Scott and McGowan \$4.00 per 100. Ylaca var., 35 in., \$1.00 per 100. Ylaca var., \$1.00 per 100. WHITTON & SONS, WEELAND, ENGLAND, Cross St. S. N. Y. N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

CARNATIONS. Drybrook, Scott, Tida \$10.00 per 100. McGowan, Florida, \$1.00 per 100.

Those, Carledge, Robinson, Rose Queen, Queen of Errolcote, Empress, and Ylaca var. Admiral Aveland, \$5.00 per 100. Lady Campbell, \$5.00 per 100. J. JOSEPH RENARD, Unionville, Chester Pa.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

CARNATIONS F. DORNER & SONS CO., La Fayette, Ind. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

SCARLET FIRE-LORE The New Scarlet. From soil.

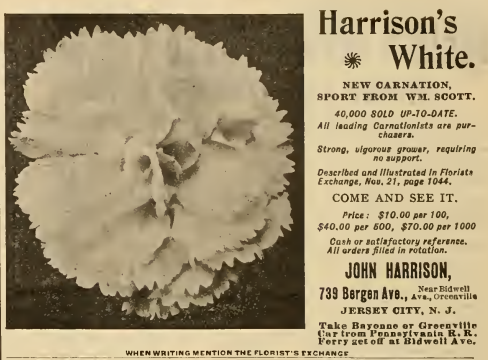
HOPP & LENKE, East Grand Ave., St. Louis, Mich. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

GALLERT & CO. CARNATION GROWERS COLMA, SAN MATEO CO., CAL.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

DAZZLE The brightest and most productive scarlet carnation yet introduced. Strong plants, \$4.00 per 100. Weak plants, \$2.00 per 100. Send for complete list of 100,000 carnation plants, \$1.00 per 100. 20 varieties. Ready for immediate shipment.

GEO. HANCOCK & SON, Grand Haven, Mich. WHEN WRITING MENTION THE FLORISTS' EXCHANGE



CARNATIONS

CHRYSANTHEMUMS-In quantity, from 2 in. pots, \$3.00 per 100, \$25.00 for \$1.00 per 100. Send for price list. HYDRANGEA OTSALA, from 2 inch pots, \$3.00 per 100. Cash with order, please. JOHN HACKETT & CO., 62d St., near Elmwood Ave., PHILADELPHIA, PA.

A MISTAKE to delay your orders for MINNIE COOK.

Price should be \$3.00 per 100; \$25.00 for 1000. MEADOW VIEW GREENHOUSES, PARSIPPANY, N. Y. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Rooted cuttings all sold except Opella, Thos. Carledge, Rose Queen, Annie Lonsdale, at \$1.00 per 100; \$10.00 per 1000. Wm. Scott, Florida, Sweetbrier and McGowan at \$1.00 per 100; \$10.00 per 1000.

CHAS. T. SIEBERT THE RESTLESS FLORIST OF PITTSBURGH PA. GROWERS & SELLERS OF CARNATIONS THAT PAY.

Carnations, Etc. HIGH GRADE ROOTED CUTTINGS.

Write for price list. H. W. WEBER & SONS, P. O. Box 57, OAKLAND, Md. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

CARNATIONS AND ROSES Strong, well-rooted cuttings of Carnations, as per following lists of April, Strong, 2 1/2 inch pots, Brides and Hidesdale Milds, ready to plant, \$5.00 per 100, \$50.00 per 1000. In 1 1/2 inch pots, \$3.00 per 100; \$30.00 per 1000. Aeronothanas, red and yellow, \$1.00 per 100. Calmora, nearly blue, schneibeli and Golden Bieder, rooted cuttings, \$5.00 per 100; 2 1/2 inch pots, \$2.00 per 100. Cash or satisfactory reference. GEO. M. EMMANS, Newton, N. J. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Table with 2 columns: Name and Price. Alaska and Carledge ..... \$7.00 100 Bridesmaid and Dorner..... 1.00 1 25 Baudouine, ..... 30 100 Triumph and Armarindy..... 30 00 50 Jubilee..... 40 00 50 SMILAX..... 5 00 100

Cash with the order. Everything guaranteed; if not satisfactory you can return it at my expense and have your money refunded you. ALBERT M. HERR, L. B. 496, Lancaster, Pa.

WON FIRST PRIZE AT Spring Exhibition of Mass. Horticultural Society, 1897.

NEW SEEDLING CARNATION

Originated by Mr. H.A. Cook, of Shrewbury, Mass., grown by the subscriber, and now being put upon the market as NIVEA.

Cuttings now ready and free from rust. \$10.00 per 100; \$35.00 per 500; \$60.00 per 1000. DAYBREAK, SCOTT, STORM KING, PURITAN, METEOR, GOLDFINCH, HECTOR, ALBERTINI, and others, \$1.35 per 100; \$10.00 per 1000. DELLA FOX, nice plants from flats, \$4.00 per 100. CHRYSANTHEMUM CUTTINGS, Ivory, Bonaffon, Gold Lode, Minnie Wauwanaker, \$2 per 100; \$15 per 1000. A. W. HOYLE, Spencer, Mass. And 51 Withington St., Sta. O., DORCHESTER, MASS. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

ROOTED CUTTINGS. CARNATIONS

Per 100 Per 1000 WM. SCOTT . . . . . \$1.00 \$7.50 LIZZIE MCGOWAN . 1.00 8.00 Other varieties all sold out.

EDW. J. TAYLOR, TRAM: Wholesale Carnation Grower, Cash or Reference. BOSTFROTH, CONN. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Carnation Cuttings

Strong and well rooted, of the following varieties: Fabius, Triumph, Armarindy, Alaska, Rob Queen, Dear Hope, Goldfinch, Lizzie McGowan, Miss Alberta, Coloma, nearly blue, schneibeli and Golden Bieder, \$1.00 per 100; \$10.00 per 1000. Cash or satisfactory reference. Logan Ave. Greenhouses, - Danville, Ill. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# DO NOT SPECIAL OFFER FOR DAY STRONG TWO-YEAR-OLD ROSES.

The following varieties which have been carried over in cold-frames and are now in excellent condition established in five and six-inch pots,

Alfred Colomb.....	on own roots, 4 in. pots,	\$15.00	per 100
Antoine Mouton.....	" " " "	18.00	"
Baroness Rothschild.....	budded stock, 5 "	20.00	"
Concess Murina.....	on own roots, 6 "	20.00	"
Caroline de Barsal.....	" " " "	20.00	"
Experte des Indes.....	" " " "	18.00	"
Captain Hayward.....	budded stock, 5 "	18.00	"
Captain Christy.....	" " " "	20.00	"
Gen. Jacquemin.....	on own roots, 5 "	20.00	"
Gloire de Dijon.....	budded stock, 5 "	20.00	"
Hermosa.....	on own roots, 5 "	18.00	"
Mme. Gabriel.....	budded stock, 5 "	20.00	"
Marchioness of Lorraine.....	" " " "	20.00	"
Mabel Morrison.....	" " " "	18.00	"
Maréchal Niel.....	" " " "	18.00	"
Mrs. J. Sherman Crawford.....	" " " "	18.00	"
Frailie Queen.....	on own roots, 5 "	18.00	"
Mrs. John Laing.....	budded stock, 5 "	18.00	"
Merveille de Dijon.....	on own roots, 5 "	18.00	"
Persian Yellow.....	" " " "	20.00	"
Princess Adelaide.....	" " " "	20.00	"
Rosebuds Cottage.....	on own roots, 6 "	20.00	"
Sweet Briar.....	" " " "	18.00	"
Rosa Alba.....	budded stock, 5 "	20.00	"
Victor Caprice.....	on own roots, 5 "	18.00	"
White Baroness.....	budded stock, 5 "	18.00	"
W. Richardson.....	" " " "	18.00	"

## LORD PENZANCE'S HYBRID SWEET BRIARS.

We have a beautiful lot of these new varieties in strong two-year-old budded plants, established in 3-inch pots. We offer 8 distinct varieties, 80 cents each; the collection of 8 for \$4.50; for descriptions, see our catalogue.

## CANNAS.

We have again an enormous stock of Cannas, well established plants, in 3-inch pots.

Ani Pichon, crimson.....	\$5.00	per 100
Baron de Sandras, yellow spotted crimson.....	5.00	"
Baron de Sandras, yellow foliage, extra.....	5.00	"
C. Reneau, carmine.....	5.00	"
Chas. Henderson, crimson.....	5.00	"
Deuil de St. Grey, bronze foliage, orange flowers.....	5.00	"
Comte de Bouchard, yellow, with crimson spot.....	5.00	"
Exploiteur, brilliant crimson, orange flowers.....	5.00	"
Egadiade, currant red, foliage bronze.....	5.00	"
Exploiteur, bright red, very fine.....	5.00	"
F. Neuvessel, salmon red, fine, foliage bronze.....	5.00	"
Gloire de Lynamaine, yellow, mottled crimson.....	5.00	"
Gen. de Mirbel, apricot, shaded crimson.....	5.00	"
Gen. de Mirbel, brilliant crimson, orange flowers.....	5.00	"
J. W. Elliott, vermilion, shaded crimson.....	5.00	"
Sarah Hill, crimson, light red.....	5.00	"
L. E. Bally, yellow, spotted red.....	5.00	"
Miss Fitt, large crimson.....	5.00	"
Maurice May, vermilion edged.....	5.00	"
M. Forget, orange, yellow edge.....	5.00	"
Victor, orange spot.....	5.00	"
Paul Marquis, bent salmon.....	5.00	"
Paul Marquis, orange earlet.....	5.00	"
President Chandon, ochre yellow, orange spots.....	5.00	"
President Chandon, yellow, orange flowers.....	5.00	"
Paul Siegfried, gold, edged crimson.....	5.00	"
Paul Lorenz, foliage bronze, blood red flowers.....	10.00	"
President Chandon, yellow, dotted salmon.....	5.00	"
Perfection, yellow, spotted crimson.....	5.00	"
Sarah Hill, crimson, light red.....	5.00	"
Stargartner Semholz, foliage bronze, carmine flowers.....	6.00	"
Stargartner Semholz, yellow, orange flowers.....	6.00	"
Prince Montefiore, orange salmon.....	5.00	"
Seneca Lusignan, carmine.....	5.00	"
Marie Van Montre, pure white.....	5.00	"
Austria, new, 30 cents each; \$3.00 per doz.....	20.00	"
Italia, new, 30 cents each; \$3.00 per doz.....	20.00	"

In addition to the above varieties we have a fine collection of new sorts, really good things: a collection of each size in quarters.  
Special offer of collections of Cannas: for \$5.00 we will send 50 distinct varieties; for \$5.00 we will send 100 fine plants, all carefully labeled; these collections contain many new desirable high priced varieties.

## 30,000 AMPELOPSIS VEITCHII.

We offer a fine lot of strong one-year-old pot grown plants from 3-inch pots, about 24 inches high, \$1.00 per doz.; \$7.00 per 100; \$60.00 per 1000.

## HYBRID CLEMATIS.

A fine lot of pot-grown plants in 6 and 8-inch pots, two-year-old stock.	
Duchess of Edinburgh, double white.....	Miss Caroline Neville, bush white.....
Duchess of Edinburgh, double white.....	Mrs. Van Montre, pure white.....
Gipsy Queen, fine rich purple.....	Miss Bateman, white, with choicest autumn.....
Henry, pure white.....	Miss Froebel, fine large white.....
Richardson Alb, fine pure white.....	Micholdi Hybrid, large blue.....
Kermesina, crimson, small but florifer.....	Richardson Alb, lavender blue.....
Lavosolana, royal purple.....	The Gem, deep lavender blue.....

## CYCAS STEMS.

We have just received a large importation of Cyana stems in sizes from 4 to 16 lbs. which we offer at 10 cts. per lb. in lots up to 100 lbs. and also be pleased to quote prices on larger quantities.

For other reasonable stock and our great specialties, Palms and Ferns, see our Quarterly Wholesale and April Lists.

**HENRY A. DREER, 4 Chestnut St., Phila.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## CORROSIVE SUBLIMATE FOR THE LILY DISEASE.

During the past Winter Lillium Harrisii has again suffered severely from the "lily disease," which causes the plants to take on the sickly, run appearance, so familiar to all growers of Exotic lilies.

The cause of this trouble is still unknown. Our observations of the past year have tended to confirm, with one exception, the conclusions reached in 1895, and published in the Fourteenth Annual Report of the New York Agricultural Experiment Station, pages 320-322. The exception noted relates to the treatment of the bulbs with corrosive sublimate. Upon the hypothesis that the disease is caused by some organism which attacks the roots, the following preventive treatment was suggested on page 332 of the above mentioned report:—  
"First. For potting, use soil which has never been used for growing lilies or other bulbous plants.

"Second. Previous to potting, soak the bulbs one and one-half hours in a weak solution of corrosive sublimate, prepared by dissolving ounces of corrosive sublimate in ten gallons of water. This is the treatment recommended by Prof. Bolley for potato scab. It does not appear to injure the plants."  
The statement above does not appear to injure the plants" was based upon an experiment in which eight bulbs of Lillium Harrisii were treated and potted in the fall of 1895, together with four untreated bulbs for comparison. On account of being

posted so late, none of the bulbs produced vigorous plants. Neither the treated nor untreated plants showed any disease, and while the average height of the untreated plants was somewhat greater than that of the treated plants, the difference was not marked.

Through the kindness of Mr. James Dean, of Bay Ridge, we have since had the opportunity of giving the treatment a thorough trial, and find that it is not to be recommended. It not only fails to prevent the disease, but also injures the plants.

Ninety-six bulbs of Lillium Harrisii were divided into three equal lots, and treated as follows:

LOT I. Soaked one and one-half hours in corrosive sublimate solution (14 ounces to 10 gallons water).

LOT II. Soaked three-quarters of an hour in the same so solution.

LOT III. Untreated.  
Each lot contained bulbs of two sizes—sixteen 5-7 bulbs and sixteen 7-9 bulbs. After soaking in corrosive sublimate they were immediately potted (Aug. 20) in new pots, and in soil in which no bulbous plants of any kind had been previously grown. From this time until April 20 the plants were carefully measured and the condition of their health noted with the following results:

## GROWTH OF LILY PLANTS.

TREATMENT.	Number of Plants Up to Oct. 20.	AVERAGE HEIGHT IN INCHES						
		Nov. 18.	Dec. 9.	Dec. 29.	Jan. 21.	Feb. 13.	March 10.	Apr. 20.
LOT I. Soaked 1 1/2 hours in corrosive sublimate. . . . .	21	2.3	3.2	4.7	5.8	7.3	8.2	15.
LOT II. Soaked 3/4 hours in corrosive sublimate. . . . .	20	2.5	3.7	5.1	6.4	7.5	8.2	14.
LOT III. Untreated. . . . .	31	4.4	6.3	8.6	9.6	10.5	12.5	19.4

In size, the plants from the treated bulbs were markedly inferior to the plants from the untreated bulbs up to the entire season, showing very plainly that the treatment had injured the bulbs.  
By April 20, eight plants had died in

Lot I, six in Lot II, and four in Lot III. The four dead plants in Lot II died from the decay of the bulbs stood side by side, and the remainder from some other cause—seemingly from the influence of the treatment with corrosive sublimate.

## AMOUNT OF DISEASE AMONG THE PLANTS.

	Nov. 18.							Dec. 9.	Dec. 29.	Jan. 21.	Feb. 13.	March 10.	Apr. 20.
	LOT I. Slightly diseased.....	0	2	2	2	3	3	7					
LOT I. Badly diseased.....	0	0	0	0	0	1	3						
LOT II. Slightly diseased.....	0	1	2	0	2	5	13						
LOT II. Badly diseased.....	0	0	0	2	1*	2	3						
LOT III. Slightly diseased.....	6	14	16	11	9	6	5						
LOT III. Badly diseased.....	1	3	5	10	8†	11	8						

\* Two badly diseased plants had died since Jan. 21.  
† Four badly diseased plants had died since Jan. 21.

From the above table it will be seen that during the first part of the season there was considerably less disease among the treated bulbs than among the untreated, but by April 20 the difference was not very great. If the disease is caused, as many believe, by weakness in the bulbs, treatment with corrosive sublimate may possibly check the disease, and the behavior of the plants in the above experiment would seem to confirm this. On the other hand, if the disease is caused by some organized parasite which attacks the bulbs, soaking the bulbs in corrosive sublimate would, most likely, kill that parasite, and thus prevent the disease from being re-inoculated. In the latter case the results of the experiment would be more easily interpreted.  
The treatment certainly checked the disease, and there are two ways of account-

ing for the fact that the disease was not widely prevented.  
(1) Some of the organisms which cause the disease may have been so well protected by the bulb scales that the corrosive sublimate failed to reach them. After the bulbs were potted these organisms rapidly multiplied, and in the latter part of the season became so numerous as to affect the health of the plants.  
(2) Some of the plants may have been transplanted from the untreated to the treated pots.  
The results of the experiment tend to show that the disease is of parasitic origin, and that the use of the bulbs with the corrosive sublimate as a preventive measure cannot be recommended.  
F. C. STEWART,  
Branch Office of the New York Experiment Station, Jamaica, N. Y.

**PANSY PLANTS**

In bloom, from cold frames. \$1.00 per 100; \$2.00 per 1000.

**ENGLISH IVY.**

Strong, field-grown, 2 years, per 100, \$8.00; one year, \$5.00 per 100. Cash with order.

J. H. DANN & CO., Westfield, N. Y.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**Pansies Worth Raising . .**

Blooming plants or plants to bud, from \$1.00 per 1000 up. Full value given in every case. Cash with order. All shipments free on board of express here.

C. Soltau & Co., 199 Great Jersey City, N. J.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**ROSES. ROSES.**

800 American Beauties from 4 in. pots, extra fine, A. No. 1 plants, \$12.00 per 100, the lot for \$90.

Certificates of satisfactory reference most accompany order from unknown correspondents. Samples sent. Address

Dak Park Nurseries, Patchogue, L. I.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**LOOK HERE**

The following plants are in A1 condition.

ROSES, out of 2 1/2 in. pots. Bridesmaid and Bride, \$2.00 per 100; \$20.00 per 1000; Meteor, \$3.00 per 100; \$30.00 per 1000.

Asplen. out of 2 1/2 in. pots, \$2.00 per 100.

New prices on applications.

Terms Cash or C. O. D.

C. MERKEL & SON, Mentor, Ohio.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**AMERICAN BEAUTIES**

2 1/2, 3 and 4 inch pots; very fine, clean, no black spot. A few BRIDE and BRIDESMAID, 2 1/2 in. pots. Fine stock, clean, nice, and ready for a shift.

JOSEPH BRADBURY, South Orange, N. J.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**NEW HYDRANGEA**

**OTAKSA MONSTROSA**

This variety is an improvement on all existing sorts and bears flowers of immense size. Nice branching plants from 3 in. pots, \$3.00 per 100; \$30.00 per 1000.

JOHN A. DOYLE, Springfield, Ohio.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**FOR SALE.**

**7,000 YOUNG ROSES**

Bride and Bridesmaid, 2 inch pots, \$2.00 per 100; \$15.00 per 1000.

CASH WITH ORDER.

J. K. POSTMA, - Princeton, Ky.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**Who Wants Them.**

525 BRIDESMAID  
350 BRIDE  
250 WOOTTON

All out of 2 1/2 inch pots. ready to plant, the lot for \$200.

Also 100 REX BEGONIAS, out of 4 inch pots, for \$100. All good varieties.

GEO. A. RACKHAM, Detroit, Mich.

880 Van Dyke Avenue.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**ROSES**

Fine strong healthy stock, 2 inch and 3 inch plants.

CUT ROSES and CARNATIONS always in stock.

H. DALE, - Brampton, Ont.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**NEW ROSE**  
**Sou. du President Carnot.**

STRONG PLANTS, FROM 2 1/2 INCH POTS, READY NOW.

\$15.00 per 100; \$125 per 1000.

At our Model Farm, Carnot has stood 3 degrees below zero without protection. We have a limited stock of strong Carnots from 4 inch and 5 inch pots, splendid plants for Spring sales to the amateur.

Price, 4 inch pots, \$25.00 per hundred.  
" 5 inch " 35.00 "

ROBT. SCOTT & SON, 19th and Catharine Sts., Phila.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**50,000 BRIDE and BRIDESMAID! 50,000**

EXTRA FINE.

From 2 1/2 inch pots.....\$2.50 per 100; \$30.00 per 1000  
From 3 1/2 inch pots.....\$4.00 per 100; \$50.00 per 1000  
Fine large 3 1/2 inch GERMANY, ready for 4 inch.....\$4.00 per 100

TERMS CASH. THE NATIONAL PLANT CO., Dayton, Ohio.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**... YOUNG ROSES ...**

Fine stock, ready for immediate planting.

**CAROLINE TESTOUT and METEOR,**

4 inch pots, \$8.00 per hundred.

**CHRYSANTHEMUMS.**

The best Commercial varieties, 2 1/2 in. pots, \$3.00 per 100; 3 in. pots, \$4.00 per 100.

ROBERT SIMPSON, Jackson Avenue,

The John Reid Estate, JERSEY CITY, N. J.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**REINBERG BROS.**

Strong, Healthy ROSES From 2 1/2 inch pots,

GOLDEN GATE, PERLE, BELLE SIEBRECHT, METEOR, BRIDE, BRIDESMAID, KAISERIN, LA FRANCE, TESTOUT, \$2.50 per 100; \$30.00 per 1000. No orders for less than 100 of one variety accepted. We are the largest Rose growers in the United States, and our fill all orders with the very best stock.

Remember our stock took First Prize at the Chicago Flower Show.

**... CARNATIONS ...**

STORM KING, SILVER SPY, THE SCOTT, LIZZIE MOGAWAN, LIZZIE GILBERT, ROSE QUEEN, \$1.00 per 100; \$8.00 per 1000. No orders for less than 100 of any variety accepted. Special Prices on large lots. The above stock is well rooted and free from rust.

SMILAX, 2 1/2 inch pots, \$1.50 per hundred.

51 WABASH AVENUE, - - - CHICAGO, ILLS.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**New Hybrid Tea Rose**

**SOUV. du PRESIDENT CARNOT**

IT GROWS, IT BLOOMS, IT SELLS.

Strong, healthy plants (none finer), out of 2 1/2 inch pots, ready for immediate shift, in large size.

PRICE, \$3 Per Doz.; \$15 Per 100; \$125 Per 1000.

ERNST ASMUS, West Hoboken, N. J.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**TEN DEGREES BELOW ZERO**

is the temperature that has been undergone without injury by unprotected planting plants of the new climbing rose

**AGLAIA or YELLOW RAMBLER**

In our catalogue the past Winter, thus proving it to be even harder than we had supposed. A Hardy Yellow Climbing Rose is what everyone has waited for years and Aglaila is, therefore, an immensely important introduction.

150 Blooms in a Bush

has frequently been produced by the Yellow Rambler, for it has the same manner of blooming. It is splendidly hardy, flowers the Crimson Rambler to which it is a splendid companion rose and probably endures 30 or 40 years. It is a decided yellow; its flowers of moderate size, very fragrant and last three to four weeks. The habit of growth is very vigorous, well adapted to the most favorable soils, shoots get to ten feet high in a season.

We have a large stock of this rose in this country, having been so appointed by the Peer Lambert, the originator. We are also prepared to offer plants of two other valuable climbing roses:

EPHROSINE or PINK RAMBLER

Color a clear light red; otherwise very similar to Aglaila.

THIALIA or WHITE RAMBLER

Pure white; same style and habit as Aglaila.

**WE WANT EVERY FLORIST**

to send us orders for the above roses. Our customers and to everyone who will do so, agreeing to depend upon us for the supply of plants.

**WE WILL SEND FREE OF CHARGE**

a beautiful colorizing plate (with Aglaila, Ephrosine and Thialia) and a descriptive circular with name and address stamped upon them, sent at once.

Price for strong plants from 2 1/2 inch pots, \$15.00 per 100. Send for our Trade Lists of other Roses and General Stock.

JACKSON & PERKINS CO. Newark, New York

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**BRIDESMAID.**

PARENT STOCK All plants in perfect condition at the Sunnyside Greenhouses have been the prime, healthiest and most successful. Frank L. Moore, Chatham, N. J.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**ROSES.**

Fine Roses from 2 1/2 inch Pots.

Bride..... Per 100 \$3.00 Per 1000 \$25.00

Bridesmaid..... 3.00 25.00

Meteor..... 3.00 25.00

Meier..... 3.00 25.00

Mme. Hoste..... 3.00 25.00

TERMS: Cash with order.

CHAS. E. SMITH,

Cor. Jefferson and Jackson Ave., YORK, PA.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**2000 YOUNG ROSES**

700 BEAUTY, 4 inch.

1000 'MAID, 2 1/2 inch.

1000 BRIDE, 2 1/2 inch.

500 G. GATE, 2 1/2 inch.

750 LA FRANCE, 2 1/2 inch.

READY FOR SHIFTING.

CHEAP IF SOLD AT ONCE.

J. R. FREEMAN,

612 13th Street, WASHINGTON, D. C.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

Sterling American Novelty, the

**WHITE COGHET**

Is a sport from Maman Cochet, which is considered now the best pink out-of-door rose. It has a very good quality of its parent; its color is pure white in winter, outside petals slightly tinted in summer; and no doubt it will prove the best white out-of-door rose up to date.

Price, per dozen, from 2 inch, \$4.00

3 " 8 " 20.00

All Orders Must be Accompanied with Cash.

J. COOK, 318 CHARLES STREET, Baltimore, Md.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE



Entered as New York Post Office as Second Class Matter

Published EVERY SATURDAY by A. T. DE LA MARE, PTC. AND PUB. CO. LTD., 2, 4, 6, 8 Duane St., New York, P. O. Box, 1697. Telephone 2154 Cortland

REGISTERED CABLE ADDRESS (Commercial Cable) Flores, New York.

SUBSCRIPTIONS: \$1.00 per year to United States, Canada and Mexico. \$2.00 per year to foreign countries. Remittance in postal union. Payable in advance. New subscriptions will commence with the first number after receipt unless otherwise ordered. Back numbers can be supplied when wanted. The date on address label shows when the subscription expires and is the subscriber's receipt. No other receipt is sent.

ADVERTISEMENTS: Copy must reach this office not later than Thursday in order to secure insertion in issue of the following Saturday. Rates \$2.00 per line. Special positions extra. Discounts on contracts of one month or longer. Orders from unknown parties must be accompanied by cash or satisfactory references.

BOOKS. Send for our catalogue of horticultural books, just off the press. It contains all the leading publications in this line.

Subscribers. Should give notice to the publishers at the end of their time if they do not wish to continue taking paper, otherwise it is continued and payment expected.

Exclusively a Trade Paper. THE FLOWERS' EXCHANGE is published in the interests of those commercially identified with the Florist, Seed and Nursery business. New subscribers are requested to enclose business card or other proof of their connection with these trades.

Contents. BOILER SCALE, REMNEY FOR... BOOKS RECEIVED... CARNACTIONS... CHALLOUSE REVIVED... CHANGES IN BUSINESS... CHRISTMAS TREES... CORRESPONDENCE... DEAN JAMES, ILLINOIS (PORTAL)... ETHEL AS A PLANT DEVELOPER... EXPERIMENT STATIONS, THE... LULY STREET, CORNWELL BURNHAM FOR... LONDON'S EARLY TRADE... NATIONAL FLOWERS' BOARD OF TRADE... NEW YORK BOTANICAL GARDEN... SEED TRADE REPORT... SEEDLINGS AND CERTIFICATES... TRADE NOTES... Cincinnati, W. Va., ... New York, Philadelphia ... Augusta, Ga., ... Buffalo, N. Y., ... Harrisburg, Pa., ... Bloomington, Chambersburg, Reading, Pa.

For the Busy Man. Seedsmen should read President Wood's circular on page 507. The Dutch bulb growers anticipate a brisk trade for their species. Over one hundred and fifty varieties of lilacs are grown at the Arnold arboretum. Pittsburgh was visited by a hail storm last week. No damage was done to greenhouse glass. James Deau will retire from business at the end of the month. The directors of the Horticultural Society of his greenhouse and their contents will be held June 9 and 10 next.

Seedlings and Certificates.

The animated and interesting discussion on this question arising out of our editorial on page 224, March 6 issue of the EXCHANGE, having to all appearances run its course, we may be pardoned if we undertake to review as briefly as possible the points touched by the different writers. Impartially, we desire again to relieve Mr. Ward of any mistaken whatsoever with the editorial just referred to, and to state that it was written with the intention of pointing out the dangerous possibilities abating for the Carnation Society, as we saw them in the present course was pursued and persisted in.

It is our firm conviction that the strongest rock upon which the Society's foundation rests is as we stated in our issue of March 6, and which we again repeat: "The purpose of the Novelty Committee is assuredly the encouragement of the seedling raiser. Nay, more, that is the plain object of the award, to relieve the entire society; but if the present system of enforcing an ironclad scale of points be persisted in, the result will be to relieve really the opposite from what is intended. The seedling raiser, having a novelty of color, or other merit, or combination of the risk which is involved in subjecting it to the tender mercies of the Seedling Judges in the countries, will be naturally raising stock from it for the demands of his local market, and, in the course of time, if the buying public, who are the carnation, other growers will be only too anxious to secure plants from him, certificate or no certificate, notwithstanding. The commercial grower will utilize his retail buyer, the ultimate consumer, care little for the past history of what is offered. It pleases his fancy and that is sufficient."

The Society's intention as regards the manner in which raisers of seedlings were to be encouraged in their work, was at the time of the present program, to encourage "awarding of valuable prizes, certificates, etc." A brief history of the certificate matter may not be out of place: The Society's dereliction of its duty in this respect, has been fully shown at the recent Pittsburg meeting, by one of its prominent members (Mr. Craig). This is what he then said (p. 10, Proceedings of 1893): "We have got some flowers in the hall below; new things of decided merit. What is the use of giving exhibitions when we do not recognize merit when we see it."

One of the judges (the late Mr. Hunt) then asked that "the committee hold the flowers considered desirable for competition for these certificates." Mr. Craig thought "those not in commerce," and the result was a most unfortunate interpretation of the Society's duty in this direction, added: "any promising seedling ought to be put in to play for a certificate." Then, the report adds (page 11): "The committee was instructed to scan over introduced exhibits, and to award certificates, all deserving varieties, whether introduced into commerce or not."

At the following year, 1894, at Indianapolis, the Society continued in the lines laid down at Pittsburg, for we find it awarded certificates for "a display of new seedling carnations," for "a vase of Kaiserin Augusta Victoria roses, as well as to several varieties of carnations, new and old, among the former being Jubilee (Hill & Co.) For the Boston meeting (1895), the program states, "Certificates of merit will be awarded for a display of new seedlings," and "a certificate will be awarded to the vase of carnations on exhibition in the program." At the Cincinnati meeting, where the exhibits were judged under a scale of points endorsed by the members

there assembled. We refer our readers to pp. 187 and 188 of the Exchange for the details. It is a pity that a complete report of the discussion had at that scale, and the schedule's requirements under the present program.

In that report occurs the following passage (p. 188): "In answer to the chair, Adlai C. G. G. said that one of the members of the Committee of Judges on Seedlings, said the committee had no difficulty in coming to a conclusion as to what the points would be. The only difficulty the committee met with was in deciding, when a variety was introduced, whether as to which variety was entitled to a certificate in preference to the other. In a number of instances, the flowers shown were of such wonderful excellence that it was with difficulty that the committee arrived at a conclusion that would be satisfactory to the committee as being just, and as would be proper to recommend to the trade." Now, then, Mr. Graham has not denied the authorship of these remarks (they were taken down verbatim), so we must assume that they are correct. And no one can read them without coming to the conclusion that the seedlings at Cincinnati were judged competitively and certificates given to one "in preference to the other."

It is a pity that the committee failed to sound our alarm upon page 224, March 6 issue. Since that time Mr. Graham has been making the same error over and over again, with only older standard varieties; but that explanation is not at all in accordance with the facts, nor does it meet the instructions to the judges which directed the awards to be made according to the merit of the individual flowers.

Again, the Society has set a standard by its scale of points, and every variety coming within the net was entitled to a certificate, without taking into consideration, whether or no the seedling is an improvement on the standard, or of the extended kinds of its color. For we take it, if a variety certificate under such a scale is inferior to the standard, it is really ineffective; in other words, the scale should be so arranged as to require measures necessary to put a certificate in the hands of the standard already reached.

At the same time mentioned in the program to intimate that the seedlings shown to obtain certificates must be superior to the standard, nor that when they were to be judged by such a standard. The adjudicators ought to have come into the court room with the judge and do a judge when he enters the court room to try a case; he knows nothing and should not be asked to proceed to judge before him; in other words, the case is tried simply on its own merits, and not on the merits of the standard. If the judge is too, in the case of a flower, the judges may be confronted with an incomparable, and at the same time meritorious novelty, as, for instance, in color, then how are they to set with their standard comparison? The scale of points is the method by which varieties are to be judged, added to the scale, leaving comparative values not to be considered. The method of awarding varieties meet your scale requirements, and are to be awarded. Otherwise, you do the grower wrong. If the varieties that have sealed the necessary certificates, taking into consideration, the use to which certificates are put, to wit: aids to the raiser in the selection of his seedlings.

We now come to the scaling practice. We highly commend the endeavor of the Society in this respect, and we think that certificates upon anything other than what possesses decided merit, but can as readily come to the conclusion that the scale should be so arranged as to withhold a certificate for any one point. To grant a certificate to a variety on a single point is to give it an addition but not an individual fractional part to each of the individual requirements of the scale. The result, in any case, could well be added without any harm being done to the trade, whereas, on the other hand, the awarding of a certificate to a variety, when the first deviation from the policy inaugurated by the Society at Pittsburg, is the endeavor to award certificates, by confining these to "new varieties of distinct merit."

At New York, we have the seedlings judged by a scale of points which, the report of that meeting states, "the program is to award a certificate to each limiting the number of points to 85 for a certificate." There was no intimation in the program that the scale of points, that varieties would be judged by such a scale of points. At the Cincinnati meeting, where the exhibits were judged under a scale of points endorsed by the members

This was another breaker we saw ahead, and it is a pity that the committee failed to stop the exhibition of seedlings before the Society, excepting by those who are willing to make a sacrifice of their own interests to the interests of those interested to the remarks of President-elect Hunt on this subject, and as a result of the program of February 27, which we consider a common sense and just view of the matter. It is a pity that the Carnation Society has done and is doing for the great variety of carnations raised in the United States, that it is not appreciated as it should be. That the aforementioned committee failed to see the importance of this before us for the welfare of the Society, was a very great mistake. We are sure that it is not the first time that we have mentioned it our duty to warn those interested. And the view we hold has been indicated by some of the best men in the trade.

One correspondent has asked us to reconcile what, to us, seem conflicting statements. The remarks he cites (page 800, issue of March 27), have reference to the year in which they were written—1895; and in that year the Society first insisted on seeing plants of the seedlings exhibited; and it is a pity that the committee failed to see the wisdom of this. The result, we doubt not, arose from the greater light the judges and raisers had upon the problem, as stated by the plants; and we still believe that a certificate variety, obtaining such a high standing in the program, might, to a very great extent, be relied on; as its inherent qualities, weighed against the standard, and the fact that it is a novelty before the honor is bestowed upon it, so we take it the Carnation Society is yet undecided as to whether to award a certificate to a flower, and to adopt a scale calculated to improve and advance the standard of quality.

Our statement as to varieties certificated prior to that time, or the past few years, we think, proven by the fact, that it is no reflection, however, on the able men who have been in the past. The judges, we think, gave their decisions to the best of their judgment, honestly and fairly, and we are sure that the standard-bearers as they stood before them.

We firmly believe that the members of the committee who have adopted the program and their awards shall be of value, and act as guides, as well as guards, to the carnation grower, and that the standard-bearer, as a variety from a grower's standpoint, can be attested to, such variety must have undergone the process of selection, and it should be outside, as well as within, the locality of the originator.

In conclusion, we would suggest that the Society carry out its original intention, to wit: to establish a test committee, by the aid of which the members of the Society, individual members of such committee make a faithful record of the behavior of the varieties, and the quality of the plants, that such reports, as well as a similar one by the originator, be carefully examined and compared by the committee, and the information be taken into consideration in making the awards, and as usual made public.

Supper every work by appointing an individual member of the committee to be of every important center, whose duty it shall be to carefully watch all new seedlings introduced, and to see that the program is the annual meeting. Such a course would, at any rate, prove helpful in rendering the program more effective, and the result of the same is to be regarded as an indication of the seedling's commercial worth.

We are confident that the Carnation Society would be taken by any member of such a test committee, but that complete confidence can be placed in the men so honored by the Carnation Society.

But it must always be borne in mind that the Carnation Society is not a purely real commercial value of a carnation flower, and a careful dissection or analysis of the same is not to be expected. The Carnation Society can only furnish a caprice.

In conclusion, we would like to refer to the statements of some of our best carnation growers on the subject of the program, and the awards made for new varieties of carnations:

"Great care should be exercised in the selection of the standard-bearer. It is not a matter of course. Exalt the standard; better that dissection or analysis of the variety, and we think that this society should endorse any variety it does not care to award up to the very best, or a little better than the standard. It is a pity that the Society has done so. On the other hand it is important that proper encouragement be given to the raising of the finest of raising new varieties."—E. G. Hill.

"I ought not to go further than the scale's requirements, and I am sure that the scale is right and standing before we give awards."—E. G. Hill, in last issue meeting.

As a Society we can only compliment the

good and denature the worthless... his own judge. And, in fact, no grower can dis-

goratums are bringing just fancy prices. The small plants sold on Thursday were well attended, and fair prices were realized.

The Victoria Regatta were planted out in the outside tank with steam supply pipes being run through the tank to supply necessary heat at night.

Diesch & Co., 616 Drexel H. A., 616 Osgood, M., 616 Harris & Son, 616

National Florists' Board of Trade.

Secretary Loder has just issued to members his Credit and Information List, together with the Code, to which several useful additions have been made.

DAILEDUOZ BRUS has just completed the erection of a new house, 20 x 30 ft. inches, this outward inclination of the sides giving more head room for the plants, and also gaining considerable light.

Index to Advertisers.

Table listing various advertisers and their addresses, including categories like Ailco, Agerton, Altemeyer, Alton, and others.

Table listing various florists and their addresses, including categories like Dierckx, Dierckx & Co., and others.

New York Botanical Garden.

Director N. B. Britton, of the New York Botanical Garden, remarked at the meeting held Tuesday last, that the Board of Managers of the garden were all ready to accept of a large sum of money as soon as the plans submitted to the Park Commissioners had been passed.

THOMAS MILLER has just moved his greenhouse to this place, having formed a partnership with Irvin J. Clark.

Jamestown, N. Y.

THOMAS MILLER has just moved his greenhouse to this place, having formed a partnership with Irvin J. Clark.

Philadelphia.

Market Stationery. No improvement was noticed in the market stationery the past week; all flowers are just as plentiful as at last report. It is needless to quote prices, as they are readily accessible.

New York.

Wholesale Market. The depression in the cut flower trade commented upon last week, continues, and so far, is doing 60c per dozen. This stock is in two weeks earlier than usual; and the same may be said of the other plants.

A very few tea roses bring \$4 to \$5. Sweet peas are in more demand, and extra good flowers are being offered at \$4 and \$5. Better business is looked for next week, as the weather is now clearing up.

Visitors in town were Carl Jurgens, of New York, and M. B. Bunker, of Boston.

Hugh Graham had the decorations for the McKinley banquet, at Horticultural Hall, on Saturday last. The tables were decorated with dappled and snowed flowers.

Jos. Kift & Son had a large indoor decoration at the Stratford on Monday last.

The meeting on Tuesday last was very largely attended. The Society of Florists will have an association at illustrated lecture on small parks, which was much appreciated. This association will have their next meeting in pushing the laying out of parks and playgrounds.

The business meeting John Thatcher, gardener to Charles Dissel, Eber, brought in a plant of Cypripedium, which was very beautiful, and having six blooms; also some flowers of rare varieties of cypripediums.

At Drer's Nursery.

The establishment of Henry A. Drer, at Riverton, is full of activity at this time. Plant trade has been very good and the spring stock is well advanced. Lilies are now in full swing, the increased order in the packing house having been met.

Acacia Sales. Various acacias have been well attended, and prices have improved. Special quality

Acacia Sales. Various acacias have been well attended, and prices have improved. Special quality

Seeds.

Banley & Co., 624 Burpee W. A., 606 East H. A., 606

Stimula Plants.

Baller F. A., 610 Bunting S. A., 608

Hot House.

Floral Hall Ass'n., 616

Hydrangeas.

Boyer Fred., 608

Insecticides and Pesticides.

Boyer Fred., 608

Decorative Goods.

Boyer Fred., 608

Business Cards.

Bull E. C., 608

Chicago.

Market Domains Unchanged.

The market conditions have not changed greatly since last report. The early part of the week stock was very firm and the demand was so plentiful that it was to sell low. Every buyer, with any trade at all, feels like stocking up, and thus it is common to see great window and street displays these times.

Well-stemmed Beauty sell on the streets at ten cents each, or 31 per dozen; and as the dealers say they will not be the buyers for some time, there is money in them if sold, at least for the retailers.

Towards the end of the week, especially Saturday, partly owing to cool weather again, stock seemed less standard and cleared better at the wholesale houses, without so much of a sacrifice, if sales at \$1.50 to \$2 per 100 for fair tea roses may be looked upon in that light. The best in the market are still quoted at \$3 to \$4, but the sales at these figures are not large.

The fine old double-red paeonias are in from the South; also very good iris and plenty of good outdoor valley. Gladioli is getting plentiful and sells at 75 cents per dozen. Randall received from a Michigan grower quite a number of chrysanthemum flowers—a poor, white and very good golden feathery yellow. The latter sold at \$1 per dozen and several of the retail florists had them in their windows.

A Novelty.

There was received at C. E. Ameling's commission house last week, from Marceline, Mo., a consignment of native flowers. They were mainly wild, native blossoms, packed in rustic home-made vases, which had been made out of willow branches nicely peeled, 3 to 3½ inches in diameter, and sawed to 3½ to 4 inches in length. By means of an auger, each branch had been bored 3½ inches deep and the holes filled with wax, in which were pressed quite a little bunches of flowers. A handle composed of grapevine was added to the holes, which contained some thirty or forty of these novel vases.

Death of B. B. Fuller.

Daniel H. Fuller, late florist at Downer's Grove, died in this city May 14 and was buried at Aurora May 16. He was seventy-four years of age. Mr. Fuller, nearly a quarter of a century ago, succeeded Desmond & McCormack on Cottage Grove Avenue and Twenty-eighth Street, where his firm also had a retail store. Twenty years ago he started a greenhouse establishment at Downer's Grove, which, as was noted last week, the deceased had rented to the Hinsdale Floral Co. Thus, at his death, from declining health and old age, he had retired from business.

Among the Growers.

August Dressel, of Belmont Avenue, believes his business will show an improvement over last year by the time the spring sales of plants are over. His carnations, which are still healthy, he considers better payers than roses, even if prices have ruled low.

Up to February the average obtained for all flowers sent to the market was \$1.50 per 100. HARRIS HILLES were not very satisfactory, and sales were low, all but a very few. Bedding and potted plants sell at low figures. I noticed a very large basket of carnations.

He says the smaller, four-inch plants, pay better than larger ones.

Samuel Pearce, of Milwaukee Avenue, grows large quantities of bedding and house plants, the old geranium being very much in evidence.

EDGAR SANDERS.

Augusta, Ga.

We regret to announce the death of Mrs. Mesepher J. A. Beckwith, which occurred Wednesday, May 13. She was a very estimable lady and beloved by all with whom she came in contact. The Exchange extends its sympathy to the bereaved family in their sad affliction.

Chadborn's Automatic Ventilator.

CHADBORN, KENNEDY & CO.

NEWBURGH, N. Y.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

Greenhouse Woodwork

Open-air-dried Cypress Lumber is more durable, and better suited to Greenhouse conditions, than kiln-dried stock. But you cannot get it from those that are engaged in the business in a small way—because their entire business is confined to greenhouse material—for it takes a long time for the lumber to thoroughly dry and this means an investment in lumber that only those of large capital can make. The only way to have air-dried lumber is to buy Greenhouse and hold it until it dries. Those that order dry lumber from the producers of Cypress get kiln-dried stock. It is cheaper for them to kiln-dry than to hold the stock long enough to season it in the open air. We carry a large stock and fill all orders with open-air-dried Cypress clear of knots, sap and all other defects.

Write for Circulars or Estimates.

Lockland Lumber Co.

LOCKLAND, OHIO.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

EVERY FLORIST OUGHT TO INSURE HIS GLASS AGAINST FIRE.

For particulars address JOHN G. ENLER, 807, Saddle River, N. J.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

HAVE YOUR COLLECTIONS MADE THROUGH THE NATIONAL FLORISTS' BOARD OF TRADE, 271 BROADWAY, NEW YORK.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

GLASS

FOR GREENHOUSES, CONSERVATORIES, GRAPERIES, HOTBEDS AND FLORISTS' USE GENERALLY, AT LOWEST RATES.

L. RIFFERTY & SON, 497 W. BROADWAY, NEW YORK.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

GLASS!

For Greenhouses, Conservatories, Graperies, Hotbeds and all other purposes, at Lowest Rates.

N. COWEN'S SON 392 & 394 West Broadway, New York.

Formerly 154 and 156 So. Fifth Avenue.

Get our Figures before buying Glass. Estimates Freely Given.



THE VAN REYPER PERFECT GLAZIERS' POINTS

No rights or lefts. Price per box of 1000, 60¢ by mail, 75¢; in lots of 5000 by ex., 55¢ per 1000

HENRY A. DREER, 714 Chestnut St., Phila., Pa.

GLASS

FOR GREENHOUSES, CONSERVATORIES, GRAPERIES, HOTHOUSES AND HOTBEDS.

VANHORNE GRIFFEN & CO.

Agents for CHAMBERS & McKEE CO. Jeannette Brands American Glass.

40 to 48 VESTRY STREET, NEW YORK.

Importers of French Glass. WHEN WRITING MENTION THE FLORIST'S EXCHANGE

GREENHOUSE GLASS. THE WOOD GLASS COMPANY, 226 N. SALINA ST., SYRACUSE, N. Y.

GALIFORNIA RED CEDAR Never Decays. A. DIETSCHE & CO. 619 Sheffield Avenue, CHICAGO. MANUFACTURERS OF RED CEDAR AND CYPRESS GREENHOUSE MATERIAL. WHEN WRITING MENTION THE FLORIST'S EXCHANGE

SEND FOR OUR NEW CATALOGUE, WHICH SHOWS The New Automatic Cable Ventilator. As it is put up in the house complete, we also give you price with a guarantee that each machine sent out will operate your house successfully. Both machines now made in two sizes. A. Q. WOLF & BRO., Dayton, Ohio. WHEN WRITING MENTION THE FLORIST'S EXCHANGE

SUMMER IN WINTER

Standard Greenhouse Bolders

By Using One cent gets our Catalogue.

GIBLIN & CO., Utica, N. Y.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE



Grass Improved Challenge.

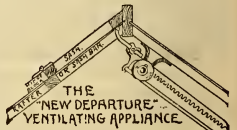
Roller bearing, self-rolling device, makes the IMPROVED CHALLENGER the most perfect apparatus in the market. Write for catalogue and prices before placing your orders close within.

Quaker City Machine Co., RICHMOND, IND.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

JOHN C. MONINGER CO. 412 to 422 WATTHORNE AV. CHICAGO, ILL. CYPRESS GREENHOUSE MATERIAL OF ANY DESCRIPTION. SEND FOR CATALOGUE. WHEN WRITING MENTION THE FLORIST'S EXCHANGE

IF YOU WANT A GOOD SASH LIFT For a Very Little Money Get



For Descriptive Catalogue Send to J. D. CARMODY, Evansville, Ind. WHEN WRITING MENTION THE FLORIST'S EXCHANGE

IMPROVED GLAZING.

J. M. GASSER'S PATENT ZINC JOINTS For Butting Glass Without Laps. Makes a Roof Air and Water Tight. Saves Fuel. No Breakage from Frost or Medium Soft Hail. Manufactured by

J. M. GASSER, 101 Euclid Avenue, CLEVELAND, OHIO. Wholesale and Retail Florist. Write for Prices and Circulars. WHEN WRITING MENTION THE FLORIST'S EXCHANGE

CYPRESS IS MUCH MORE DURABLE THAN PINE. CYPRESS SASH BARS UP TO 32 FEET IN LENGTH OR LONGER. GREENHOUSE AND OTHER BUILDING MATERIAL. Send for our illustrated Book 'CYPRESS LUMBER AND ITS USES.' Send for our Special Greenhouse Circular. THE T. STEARNS Lumber Co., NEPUNSESSSET, MASS. WHEN WRITING MENTION THE FLORIST'S EXCHANGE

VERBENAS GERANIUMS

J. L. DILON, Bloomsburg, Pa.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

FINE PLANTS - LOW PRICES. 10,000 Double Grand Geraniums...

NICHOLAS AMOS, Crestline, Ohio.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

GERANIUMS.

Brant, very fine, out of 4 inch pots...

Heliotrope two vars., 2 1/2 inch pots...

W. J. CHINNICK, Trenton, N. J.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

SPRING STOCK - SPECIAL.

Geraniums, eight varieties, stage and double...

Colours, 25 cts. per 100.

Agapanthus, blue and white, dwarf...

ALEX. McBRIDE, Allapaha, N. C.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

Our Latest and Greatest Bargain Offer.

Geraniums, all the best varieties...

Double Gen. Grant, Beauty Poitevine...

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

GERANIUMS.

out of 4 inch pots, large fine plants.

DOUBLE GEN. GRANT, BEAUTY POITEVINE, MONTASQUE, LA FAVORITE...

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

GERANIUMS.

Double Gen. Grant, Beauty Poitevine, Montasque, La Favorite...

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

GERANIUMS.

Double Gen. Grant, Beauty Poitevine, Montasque, La Favorite...

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

GERANIUMS.

Double Gen. Grant, Beauty Poitevine, Montasque, La Favorite...

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

GERANIUMS.

Double Gen. Grant, Beauty Poitevine, Montasque, La Favorite...

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

GERANIUMS.

Double Gen. Grant, Beauty Poitevine, Montasque, La Favorite...

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

GERANIUMS.

Double Gen. Grant, Beauty Poitevine, Montasque, La Favorite...

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

GERANIUMS.

Double Gen. Grant, Beauty Poitevine, Montasque, La Favorite...

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

GERANIUMS.

Double Gen. Grant, Beauty Poitevine, Montasque, La Favorite...

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

GERANIUMS.

Double Gen. Grant, Beauty Poitevine, Montasque, La Favorite...

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

GERANIUMS.

Double Gen. Grant, Beauty Poitevine, Montasque, La Favorite...

MME. SALLEROI GERANIUMS.

Fine, bushy plants that will please you...

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

GERANIUMS.

We have fine bushy plants...

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

GERANIUMS.

Double Grant, La Favorite, strong...

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

15,000 GERANIUMS.

Double and Single Grant, 3 in. 2 1/2 in. 4 in.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

GERANIUMS.

Double Grant, 1 inch, fine in bloom...

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

GERANIUMS.

Double Grant, 1 inch, fine in bloom...

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

GERANIUMS.

Double Grant, 1 inch, fine in bloom...

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

10,000 GERANIUMS.

Of the best double varieties, in bud and bloom...

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

VERBENAS.

Named kinds in full condition. \$3.00 per 100...

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

GERANIUMS.

Mme. Thibault, Mme. Genet, Mme. Vibert...

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

WE PAY THE EXPRESS.

IF CASH ACCOMPANIES THE ORDER.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

GERANIUMS.

From 2 1/2 inch pots, \$1.75 per 100...

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

CHRYSANTHEMUMS.

From 3 1/2 inch pots, \$1.50 per 100...

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

SPRING BEDDING STOCK!

GERANIUMS, all colors, best varieties, 4 in. pots. Coleus, Vinca vines, Alternanthera, Feverfew, Rose Geraniums...

YOUNG ROSE STOCK.

Bride, Bridesmaid, Perle, Meteor, Belle Siebrecht, Wootton, \$3.00 per 100.

CARNATION CUTTINGS.

Garfield, Lizzie Gilbert, Tidal Wave, Goldfinger, Rose Queen, Wm. Scott, Alaska, Daybreak, Lizzie McGowan, Silver Spray, \$2.00 per 100.

We are HEADQUARTERS for CUT FLOWERS. Our Supply is Unsurpassed. Shipping Trade our Specialty.

ELIS & POL WORTH, MILWAUKEE, WIS.

ASTER PLANTS Simple's Branching, Market, Perfection, and Comet, ready to plant...

MARS! MARS! MARS!

THE NEW BORDER GERANIUM. Give your customers a treat by using "Mara" Geranium for bordering.

HENRY EICHHOLZ, Waynesboro, Pa.

GOOD STOCK! LOW PRICES!

Table listing various plants and their prices, including Alternanthera, Arcea, Colchus, Geranium, Petunia, Lantana, Centa, Pandanus, and others.

JOHN SCOTT, KEAP STREET GREENHOUSES, BROOKLYN, N. Y.

SITUATIONS WANTED.

Rate, 10 cents per line (3 words, each insertion). Cash with order. This rate applies only to regular and restricted insertions, and not to "bold" without display. When letters are addressed in correct order, immediate consideration is given.

SITUATION wanted by a florist... References: moderate salary. Address Treatout care of Florists' Exchange.

First-class all-around florist wishes situation... References: moderate salary. Address Treatout care of Florists' Exchange.

WANTED a situation in a commercial establishment... References: moderate salary. Address Treatout care of Florists' Exchange.

SITUATION wanted by a young man as an assistant... References: moderate salary. Address Treatout care of Florists' Exchange.

WANTED a position by a young man... References: moderate salary. Address Treatout care of Florists' Exchange.

WANTED situation with a seed company... References: moderate salary. Address Treatout care of Florists' Exchange.

SITUATION wanted by a young man... References: moderate salary. Address Treatout care of Florists' Exchange.

WANTED position in wholesale or retail... References: moderate salary. Address Treatout care of Florists' Exchange.

WANTED position in wholesale or retail... References: moderate salary. Address Treatout care of Florists' Exchange.

BUSINESS OPPORTUNITIES

FOR SALE CHEAP. 13,000 feet of glass... 100 feet violet houses complete.

FOR SALE.

100 feet violet houses complete. 3 boiler, and 4 inch pipe, nearly new.

FOR SALE.

A Cut Flower Establishment, consisting of about fifty thousand square feet of glass.

GREENHOUSES TO RENT.

Five houses containing 300 square feet, well built and thoroughly repaired.

FLORIST PLANT FOR SALE.

Well equipped, well located, in wealthy city of 20,000; best climate in country for a florist's of glass.

BENNETT & CHAPLIN REAL ESTATE AND LOANS.

An Opportunity To Lease

A HOUSEHOLD PLANT with a WELL ESTABLISHED BUSINESS.

Two houses 20x130. Two houses 10x100. Dwelling house 5 rooms.

P. D. Box 466, WEST RYR, N. Y.

CHANGES TO BUSINESS.

Deaver, Col.—The Colfax Avenue Floral Company has filed articles of incorporation with the Secretary of State.

Israel D. Lum has the contract for building five more rose houses for Mrs. R. B. Holmes, owner of the Holmeade greenhouses.

J. C. Walker is reported to have assigned to J. T. Hewitt.

Pittsburg.

A fair trade is the record for the week. There was an abundance of stock, but prices have not gone to smash as they seem to have done in other places.

Trade in bedding plants has not improved to any extent and the growers are uneasy about the outlook for the season.

At the last regular meeting of the club Superintendent Croner Schenley Park gave an interesting talk on native hardy plants and shrubs.

St. Louis.

The Market Quiet. There have been dull weeks before, but the one just closed is perhaps the worst this market ever knew.

The Greeks, who often come to the rescue of the market, bought Cape Jesse at \$1 per 1,000 from the produce houses, in preference to roses and carnations at \$5 per 1,000.

Brides and Kaisern were most abundant and in smallest request. The heaviest losses sustained were in white flowers. Bridesmaid came next in quantity, then Meteor and Perle.

Europe, where he will spend the summer being on the tour of botanical knowledge which he already possesses.

The annual exhibition of lilacs at the Arnold Arboretum will include one hundred and fifty varieties.

Utica, N. Y.

Trade has been very quiet for the greater part of the week. The weather has been fairly general, but the evenings have been calm.

Planting out is quite well advanced. Most of all the growers have the greater part of their stock planted. The plant trade is opening up, but the streets are filled with peddlers and plants of all kinds are sold at any price.

William Pfeiffer, who bought the old Aucock place, is building two new houses and a boiler shed upon it.

The annual "flower sermon," provided for by the will of Henry Shaw, founder of the Missouri Botanical Garden, was preached at First Church, Methodist Cathedral last Sunday morning by Rev. Dr. Greer, of New York City.

Walter McCrea, who has been connected with the Missouri Botanical Association for the past eighteen years, has severed his connection with that organization and will accept the position of superintendent and the place has been improved very much under his direction.

Mr. Law, until lately a teamster for the association, as acting superintendent.

W. C. Goodrich, P. D. Box 466, West Troy, N. Y.

200 COLES VERSCHAFELT, red. 200 SEND SAMPLES, yellow.

SECOND HAND MATERIAL.

FOR SALE CHEAP.

Extra good second-hand 3 and 4 inch pipe for hot water heating.

W. H. SALTER, Rochester, N. Y.

FOR SALE.

Shipman Engine, 1 H. P. in perfect condition... will allow you to care for 100 miles.

FOR SALE CHEAP.

SEVEN GREENHOUSES at OLD RYARD, MO.

All planted in Roses in fine condition, first-class sheds, heating apparatus and water supply.

Price, \$6,000, the actual value of the ground without improvements. Must be sold at once. Liberal terms. For further particulars, apply to

E. H. MICHEL, care of St. Louis Cut Flower Co., 1620 Olive St., ST. LOUIS, MO.

W. H. SALTER, Rochester, N. Y.

CHANGES TO BUSINESS.

Deaver, Col.—The Colfax Avenue Floral Company has filed articles of incorporation with the Secretary of State.

Israel D. Lum has the contract for building five more rose houses for Mrs. R. B. Holmes, owner of the Holmeade greenhouses.

J. C. Walker is reported to have assigned to J. T. Hewitt.

Utica, N. Y.

Trade has been very quiet for the greater part of the week. The weather has been fairly general, but the evenings have been calm.

Planting out is quite well advanced. Most of all the growers have the greater part of their stock planted. The plant trade is opening up, but the streets are filled with peddlers and plants of all kinds are sold at any price.

William Pfeiffer, who bought the old Aucock place, is building two new houses and a boiler shed upon it.

The annual exhibition of lilacs at the Arnold Arboretum will include one hundred and fifty varieties.

Mr. Law, until lately a teamster for the association, as acting superintendent.

Buffalo.

Plant Trade Brisk.

Quite seasonable weather now prevails in business in the plant line is brisk. Rainfalls have retarded seeding and planting somewhat.

The selling of plants seems to seek a more restricted condition each year, and corner groceries and the huckster element predominate to an extent not known heretofore.

In cut flowers, white trade cannot quite be called slumpish, it has however more or less receded. The calls for funeral flowers have been very few of late, and no festivities worthy of note have been on the move.

On Thursday and Friday of last week W. A. Adams held an open house for the benefit of friends and customers at his new place, 452 Main Street.

On Thursday last Thursday for the East, for a week's recreation. William Legg will move this summer a few rods distant to a more prominent location on Delaware Avenue.

St. Paul.

Spring trade in plants opens up auspiciously and the growers are endeavoring to get ready to meet a fine lot of bedding stock this spring.

In the cut flower line the cooler weather has retarded the trade, but the surplus has been worked off. Funeral work has been plentiful and sales for other purposes quite good.

Bedding out is just beginning and every one is kept busy. Several hard frosts have done their worst this work, and with warmer weather now prevailing everything in the florist line is in the hands of the florists.

We hear of no particular damage from the freeze, as most outside stock was well protected. Nurseries quite generally planted out, as are gladioli, dahlias, etc., for summer and early fall bloom.

Trade in Minnesota. In Minneapolis trade is reported as jogging along at the regulation pace, while there is a certain amount of good trade at remunerative prices.

There is no denying the fact that the dealers here desire but the florists' trade very materially. A few of the growers sell to these stores, but the majority of their cut flowers come from Chicago and Milwaukee, and home trade is proportionately large.

A Smith has the contract for supplying the city parks. Retail prices range about as follows: Geraniums, 1c to \$1.50 per dozen; pansies, 15 cents to 25 cents; hydrangeas, marguerites, etc., 75 cents to \$1.25.

NEPHROEPIS EXALATA. BOSTONENSIS. THE BOSTON DROOPING FERN.

All sold out of small plants for the present. Orders still booked for June to August delivery. NOW READY - Sprouts of plants at \$20, \$30 and \$100 per 100; \$8, \$10 and \$15 per 100. All sold out of large plants for the present. Elegant plants in 4, 5, 6, 7, and 8 in. pots, from \$4 per dozen to \$15 each. Excellent stock of Ferns, etc.

L. H. FOSTER, 45 King Street, DORCHESTER, MASS.

STORRS & HARRISON CO., Painesville, Ohio.

Wholesale Nurserymen and Florists. Can show in all blocks of Fruit and Ornamental Trees, Yucca, Eucaly, etc. as can be found in the U.S. We grow 1 million Roses and million of plants annually. Trade list on request. Correspondence invited.

Question Box.

(100) Runners Geraniums are frequently retained after the danger of continuation of the disease is not so great, as for instance, in verbenas. Still, the policy is a poor one and it is better to discard the diseased plants.

ORCHIDS FOR CUTTING.

The Largest and Finest Stock in the World.

F. SANDER & CO., St. Albans, England. Bruges, Belgium.

Agent, A. DIMMOCK, care of Webster & Don, Seedling and Chambers St., N. Y. City.

PEACH AND PLUM TREES DELIVERY 1897.

Reliable and clean stock at low wholesale rates. All desirable seedling varieties of PEACHES, old and new, fruiting orchards, and named fruiting. Fine one and two year old plants in large quantities. Very large stock of PLUM TREES all plan varieties, one and two year old. In stock in supplied of these also, either from nurseries or orchard trees.

AMPELOPESIS VEITCHII.

Strong, dormant, one year old plants, 2 1/2 to 3 feet high, \$3.00 per 100.

CANNAS - ITALY, \$3.00 per doz. AUSTRIA and ALSACE, \$2.00 per dozen.

CROZY, and Albinoe Bouvier, \$1.00 per doz. \$2.00 per doz. All fine 4 in. pot plants.

CRIMSON RAMBLER, 4 in., \$2.00 per doz. HONEY-SUCKLES, Golden and Halleans, one year, fine, 60c. per doz.

50,000 CALIFORNIA VIOLETS, ex. strong.

BENJAMIN CONNELL, Florist, West Grova, Pa.

THE FLORISTS' TREASURY.

2 1/2 to 3 feet.....\$3.00 per 100 1 1/2 to 2 feet.....\$2.00 "

2 ft., 5 cts. 3 ft., 7 1/2 cts.

QUEEN CHARLOTTE, 4 in. pots, \$6.00 per doz.

BOUYER, NINE CROZY, CHAS. HENDERSON, 4 in. pots, \$5.00 per 100.

EMPEROR OF CHINA ROSES.

2 ft. high, 10 cts. each.

LATANIA BORBNONICA, 3 in. pots, \$3.50 per 100.

THE ELIZABETH NURSERY CO., ELIZABETH, N. J.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

FINIE STOCK OF PALMS

Table with 2 columns: Plant Name, Price. Includes ARECA LUTES, KENTIA FORSTERIANA, BELMORANA, etc.

FERNS

Pteris Serpallata, Pteris (retilla) alba, Magnifica, Aspidium Terrestre, Onyium Japonica. \$3.50 per 100. CASH WITH ORDER. CHAS. F. BAKER, Utica, N. Y.

JULIUS ROEHR'S Palms and Decorative Plants.

Headquarters for RUTHERFORD, N. J. P. O. Address, Carlton Hill, N. J.

500 LATANIA

We offer our own grown stock of LATANIA BORBNONICA, having 6 to 8 leaves, 1st size, \$15.00 per doz.; 2d size, \$12.00 per doz.

JORDAN FLORAL CO., 322 1/2 St. Louis, Mo.

PALMS AND OTHER DECORATIVE PLANTS

At Great Reduced Prices. Stock large and in fine condition. Send for new Wholesale list. Special prices on large orders. Send in list of your wants. W. J. KRISBER, Florist, N. Y. City.

ARAUCARIA EXCELSA SEEDLINGS.

5 to 6 inches high, 3 to 4 tiers, \$5.00 per dozen. Free by mail or express. Cash with orders. Southern California Acclimatizing Association, Santa Barbara, Cal.

THE FLORISTS' TREASURY.

THE PALMS AND FERNS.

THE LARGEST STOCK in the West. GEO. WITTBOLD, 1708 N. Halsted St., CHICAGO, ILL.

ORCHIDS and GREENHOUSE PLANTS FOR SALE.

F. O. Box 665. ALBANY, N. Y.

Having disposed of several of my Greenhouses and the remainder being over crowded, I have decided to offer for sale the excess, consisting of the greater portion and the choicest specimens of my collection for the past 20 years, either singly or in quantities. They are all well established, in fine condition, and many cannot be obtained in any other collection in America. A printed list sent on application. Sales made at reasonable prices.

E. CORNING.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

AZALEA INDIANA FOR

Specimens grown for American trade, from 8 to 15 inch diameter, \$10.00 to \$15.00 per 100. KENTIA FORSTERIANA, with 4 and 8 character leaves, from 1 1/2 to 2 1/2 inch diameter, \$10.00 per 100. KENTIA FORSTERIANA, with 4 and 8 character leaves, from 1 1/2 to 2 1/2 inch diameter, \$10.00 per 100. LATANIA BORBNONICA, 10 1/2 to 12 inch high, \$20.00 to \$30.00 per 100. COCOS WEDDELIANA, from 1 ft. upwards, \$25.00 and upwards per 100. ARECIA LUTES, from 1 1/2 to 2 1/2 inch high, \$20.00 to \$30.00 per 100. ARAUCARIA EXCELSA, 10 1/2 to 12 inch high, \$20.00 to \$30.00 per 100. SWEET HIA, standard, fine shaped trees, from \$40.00 to \$100.00 per pair.

ASPIDISTRA LURIDA.

Green leaves, 10 to 12 inch leaves. Variegated, \$7.00 per 100 leaves. \$2.00 per 100. 1 in. and 1 1/2 in. diameter, \$2 and \$16 per 100. 1 in. and 1 1/2 in. diameter, \$2 and \$16 per 100. 1 in. and 1 1/2 in. diameter, \$2 and \$16 per 100.

GLOXINIA ELEGANS (Hybrid).

Green leaves, \$10.00 and more, \$18.00 per 100. CAMELLIAS, R. H. O. D. B. N. P. \$5.00 per 100. Send for unknown correspondence. Cash, with Packing Fee.

ROYAL NURSERIES

LOUISIANA ROUTE PERE

Ghent, Belgium.

Stock of the John Saul

COMPRISING

Table listing various plants and their prices: 1500 Corypha Australis, 1500 Magnolia Grandifolia seedlings, 1500 Carolina Hollisii, 1000 Acaea Baueri, 1000 Aucuba Japonica, 1000 Philodendron, 1000 Ficus, 1000 Begonia, 1000 Calceolarias, 1000 Geraniums, 1000 Pansies, 1000 Peonies, 1000 Roses, 1000 Hydrangeas, 1000 Clematis, 1000 Lilies, 1000 Tulips, 1000 Ranunculus, 1000 Anemones, 1000 Narcissus, 1000 Crocus, 1000 Iris, 1000 Delphinium, 1000 Lupinus, 1000 Verbena, 1000 Salvia, 1000 Lavender, 1000 Rosemary, 1000 Thyme, 1000 Basil, 1000 Parsley, 1000 Dill, 1000 Fennel, 1000 Chervil, 1000 Tarragon, 1000 Sage, 1000 Marjoram, 1000 Oregano, 1000 Basil, 1000 Parsley, 1000 Dill, 1000 Fennel, 1000 Chervil, 1000 Tarragon, 1000 Sage, 1000 Marjoram, 1000 Oregano.

ORCHIDS.

1800 Lelia Anceps, good. 800 Dendrobium Nobile. 15 Cypripedium. 300 Leucogium, and general collection. Large collection of Acaulas. 300 Large Aspiditras. 300 Nepeloides.

Will be sold in part, or as a whole, for any moderate offer, as we wish to close the business. Greenhouses and stock of large stock of ornamental trees, shrubs, evergreens and fruit trees which will be sold at great reduction.

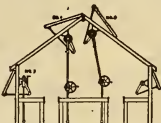
Address, W. B. SAUL, Executor, Box 484, MARY G. SAUL, Excitruir, WASHINGTON, D. C.

**Emil Steffens** SUCCESSOR TO N. STEFFENS AND STEFFENS BROS.  
Manufacturers of  
**FLORISTS WIRE DESIGNS**  
AND SUPPLIES  
ESTABLISHED 1860  
335 EAST 21<sup>ST</sup> STREET, NEW YORK CITY.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**STANDARD VENTILATING MACHINE.**

NO NE  
EQUAL IT  
IN  
Strength  
AND  
Durability



NOTHING  
Flimsy  
OR  
Complicated  
about it.

Send for Catalogue. E. HIPPARD, YOUNGSTOWN, OHIO.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**TRADE GREENHOUSES.**

THE BEST MADE.

"Florists" Get Your Plans and Estimate from

**PLENTY'S HORTICULTURAL WORKS,**  
148-156 Randolph Ave., JERSEY CITY, N. J.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**MASTICA**

FOR GLAZING GREENHOUSES. SUPERIOR TO PUTTY IN EVERY WAY.

Is not hardened by the extreme heat or cold that a greenhouse is constantly subjected to both inside and out. Mastica is adhesive and remains permanently elastic so that it is not forced out of place by expansion and contraction of the wood work. It does not crack and will last for years without need of reapplying and expense. With Mastica can "set-in" or use on the outside, but with a machine only.

Mastica and Mastica Glazing Machine were given  
HIGHEST AWARD OF SOCIETY OF AMERICAN FLORISTS AT PITTSBURGH, 1895.  
Put up in gallons, \$1.00. Half gallons, 60 cts. Quarter gallons, 35 cts.  
Mastical Glazing Machines, \$1.00 each.

Send for full descriptive circular and testimonials. Agents in all the principal cities.

F. O. PIERCE CO., Sole Manufacturers, 170 Fulton St., New York.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**The Ormsby Ventilating System**  
The Ormsby Ventilating System  
71 Summer St.  
MELROSE, MASS.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**ATTENTION, FLORISTS!**

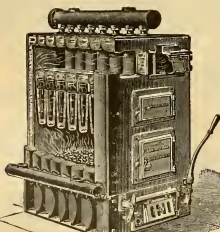
It will be to your advantage to look into the merits of the Scollay "Invincible" Hot Water Boiler.

It is all that its name implies, and don't forget it.

Cuts and full information mailed on application.

**JOHN A. SCOLLAY,**  
74 & 76 MYRTLE AVE.,  
BROOKLYN, NEW YORK.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE



Lohanon, Pa.

D. H. Mish is picking a grand lot of carnations from his out-of-town plant, where he has first-class soil. The varieties most popular are Thomas Cartledge McGowan, Daybreak and Scott. He is planting out Jubilee, Eldorado, Annie and Della. Cox among the newer kinds. W. M.

Reading, Pa.

Hoskins & Giles have a hugarbar to contend with this season in a Philadelphia department store, shipping here Holland grown roses, in lots of twelve, delivered, for \$1.20 per dozen. About one hundred lots have been disposed of in this town this season and the legitimate trade has suffered correspondingly. Apropos of this same store, when last in Philadelphia, I priced some stock, among it pretty plants of Pandanus Veitchii and tree rubbers, and found I could buy them to better advantage than from the grower directly. W. M.

Chambersburg, Pa.

Philip Fisher reports a slight increase in Easter sales. He caters to a good middle-class trade.

W. B. Reed, while doing considerable retail business, devotes his main energies to the mailing trade, having a contract with a large seed house to fill its plant orders. This is not a very satisfactory matter, owing to the fact one must look so far ahead to produce the vast amount of stock offered in premium collection, that the stock, when once exhausted, cannot be replaced that season.

The local press here has done much to increase the desire for both plants and flowers, one paper particularly. The people's Register, devoting considerable space gratuitously for the benefit of its readers. W. M.

Eyer Bros. are building now and will have completed in two weeks three houses; one 20x60, one 30x60, and one 10x60, all heated by steam. They use red cedar lumber and 16x16 double-bench rafters.

Bloomsburg, Pa.

J. L. Dillon reports an exceedingly good sale of carnations of which he raised a larger stock than usual this season. He has among a capital batch of carnations a large stock of the beautiful ivy-leaved variety—Souv. de Chas. Turner—a glowing scarlet, having an immense mass. About one hundred thousand carnations are being planted out. Some forty thousand roses are in capital condition. The plan is to start the plants in two-inch pots, then shift into three-inch in good soil. This succeeds well; even Beauty appreciates this treatment. I notice the grafted method is being tried to some extent.

Of a large batch of seedling carnations, two—one a grand white, the other a glowing scarlet—are in high favor. These will be placed on the market next season.

The vast number of roses, of which all are grown in solid beds, suffered terribly through the disastrous hailstorm of last fall, and are really only now producing as they should have done earlier in the season.

In a number Lillian Harrisii, which have remained in the same bed four seasons and were hitherto perfectly healthy, several have developed the disease so noticeable this season, while the remainder intermixed among them show no signs of it. It is perfectly healthy and producing splendid flowers. Mr. Dillon is of the opinion that treatment is chiefly responsible for this, but cannot entirely explain the cause. W. M.

**Remedy for Boiler Scale.**

There are various compounds for removing boiler scale and common washing soda is used by many with good results. A quantity is usually put into the boiler under no firing permitted to remain from twenty-four to forty-eight hours to soften the scale, when the water is drawn off, and if the scale is sufficiently softened it is washed out with the water. In a hot-water heating plant the same water may be used for years after the system is once filled, and there should not be sufficient deposit from one filling to be of serious disadvantage. The trouble may be entirely avoided by filling with rain water.—Metal Worker.

**JOHN CONLEY & SON,**  
MANUFACTURERS OF  
**TIN FOIL**

2 and 4 Dominick Street,  
NEW YORK.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CHOCOLATE COOLER CO.,**  
GRAND RAPIDS, MICH.

Manufacturers of

**FLORIST'S REFRIGERATORS.**

Send for Circular.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**BY MAKING SPECIALTIES**

of the following articles I can supply them in excellent quality at reasonable prices.

**PAPER, PAPER BAGS, TPOOTPKS, WAXED and TISSUE PAPERS, TWINE**

Send a list of your wants for estimate.

H. A. SOHL, 147 E. 42<sup>nd</sup> St., N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**M. RICE & CO.,**  
Importers and Manufacturers of

**FLORISTS' SUPPLIES,**

25 N. 4th St., Philadelphia, Pa.

NEW FALL CATALOGUE NOW READY

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**WELCH BROTHERS,**  
DEALERS IN

**FLORISTS' SUPPLIES,**

15 Province Street, BOSTON.

9 Chapman Place,

Wirtzelle, Wheat Sheaves, Flowers, Im-

mortalities, Case Flowers, Out, Boxes, Boxes,

and all other supplies, at prices to meet com-

petition.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**REED & KEETER**  
Manufacturers of  
**FLORISTS WIRE DESIGNS**  
and all other supplies.

TELEPHONE. 1782 18TH ST.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**MEYER GREEN SILKLINE.**

Used for Stringing OXLEY and APPARATUS.



Will not fade, or run like other cords. Made also in fancy colors for tying purposes. Send for samples and price.

JOHN C. MEYER &amp; CO.,

87 Summer Street, BOSTON, MASS., U. S. A.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Best Florist Letter Co.**

Manufacturers of  
**FLORISTS' LETTERS**  
DISPOSING OF 800,000  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE



This wooden box nicely stamped and varnished, 18x25 with two drawers, one for each size letter, shown away with one dozen letters, one for each size, one for 10x12, one for 12x2 or 2 inch size, per 100, \$2.00. Sold in lots of \$1.00.

Patented with letter or word.

Send by leading florist everywhere and for sale by all wholesale florist and supply dealers.

N. F. MCCARTHY, Treas. &amp; Manager.

100 N. 3<sup>rd</sup> ST., BOSTON, MASS., U. S. A.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**LORD & BURNHAM CO.,**  
**HORTICULTURAL ARCHITECTS AND BUILDERS,**  
**STEAM AND HOT WATER HEATING ENGINEERS.**

Plans and Estimates furnished on application.



Largest Builders of Greenhouse Structures. Six Highest Awards at the World's Fair.  
 Send four cents postage for Illustrated Catalogue.

**LORD & BURNHAM CO.,**  
 ARCHITECTURAL OFFICE, 160 FIFTH AVE., COR. 21st STREET, NEW YORK.  
 Factory Irvington-on-Hudson, New York.

**SNIPS** Then **THE** best for florists, mechanics, etc., is **Kelley's Florists' Shears and Flower Cutters**. Circular free. **FLORISTS' EXCHANGE Co., Fremont, Ohio.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**STANDARD • POTS.**

We are now ready to supply a superior quality of Pots in unlimited quantities. Catalogues and price lists furnished on application.

**A. H. HEWES & CO.,**  
 NORTH CAMBRIDGE, - MASS.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**THE BEST FOR ALL Florists.**

**ROSE LEAF EXTRACT OF TOBACCO**

FOR SALE by Seed Stores.

For Free Pamphlet, write to: **LOUISVILLE SPIRIT CURED TOBACCO CO., Louisville, Ky.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**SPRAY PUMPS**

The Best in the World.

Our Pumps are used by the Leading Agricultural College and Experimental Stations in America.

PRICES \$2.00 TO \$16.00.

Sold for Cash and Special Price List, **CHARLES J. JAGER COMPANY,** 174 NICH ST., BOSTON, MASS.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**STANDARD FLOWER POTS**

In any quantity, and of the best quality. Get my price list before ordering elsewhere.

**W. H. ERNEST,**  
 Station M, N. E., WASHINGTON, D. C.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**HILFINGER BROS.**

**STANDARD FLOWER POTS.**

We manufacture a full line of Standard Pots, Seed Pans, Cylinders, glass and unglazed, Lawn Vases and Hanging Vases. Watch the following: Lawn Vases 12 inch 1.00 each; 14 inch 1.25 each. Extra Bases, 12 inch high, 20 cts. each; 20.00 2 inch pots, at \$10.00 per 1000; 40.00 3 inch pots, at \$4.00 per 1000.

Send for Price List for other orders before ordering elsewhere. Address

**HILFINGER BROS.,** Fort Edward, N. Y., or AUGUST ROLKER & SONS, 125-135 W. 24th St., N. Y. City

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**A GOOD GREENHOUSE HOSE**

We are having a hose manufactured from the best material in the market that will give satisfaction to all who try it. We can furnish it in 25 ft., 40 ft. and 75 ft. lengths, at 18 cts. per foot with connections complete. References required from unknown parties.

Address **J. G. & A. ESLER,** Saddle River, N. J.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Standard Flower Pots.**

Send for our New Price List with extra discounts. All our Pots, from 1 in. and upwards, have our Patent Elastolite Bottom, which is a great advantage, as it allows perfect drainage.

A FULL LINE OF BULB PANS.

**THE WILLIAMS POTTERY CO.,** 713 to 715 Wharton Street, Philadelphia, PHILADELPHIA

BRANCH HOUSES: { Kearney and Wendell Aves., Jersey City, N. J.  
 Jackson Ave. and Pearson St., Long Island City, N. Y.

**FLOWER POTS**

We are Manufacturing a Full Line of **STANDARD FLOWER POTS and HANGING BASKETS OF THE BEST QUALITY.**

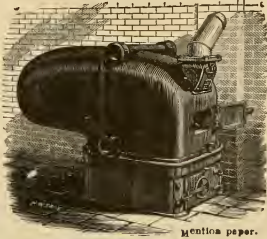
Shipping Facilities First-Class, thereby Securing Lowest Freight Rates.

Our goods are well packed, and breakage is minimal. Give us a trial. Send for Price List.

Address **THE SYRACUSE POTTERY CO.,** 403 N. SALINA ST., SYRACUSE, N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**GREENHOUSE HEATING AND VENTILATING,**  
 Horticultural Architecture and Building.



**Hitchings & Co**

ESTABLISHED 1844.  
 233 Mercer Street, NEW YORK

**FIVE PATTERNS OF BOILERS.**  
 NINETEEN SIZES,  
 Perfect Sash Raising Apparatus.  
 Rosehouses, Greenhouses, Etc., of Iron Frame Construction erected complete or the Structural Iron Work shipped ready for erection.  
 Iron Frame Benches with the "Perfect Drainage Bench Tile" or Slate Tops.

SEND 4c. POSTAGE FOR ILLUSTRATED CATALOGUE.

**SAVE THE BLOOMS! NIKOTEEN**

DOES NOT INJURE SENSITIVE PLANTS USED FOR FUMIGATION OR SPRAYING INDOORS OR OUT.

200 POUNDS TRACED TO ONE PUN INDIAN

Price \$1.50. ALL SEEDSMEN.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**SHEEP FERTILIZER!**

PULVERIZED. COMPRESSED.

A Quick Germinator and Crop Fertilizer

NATURAL. UNDOUBLED. CLEAR TO HANDLE.

**JOHN J. PETERS CO.,** Long Island City, N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**INDIAN BRAND.**

NO ADULTERATION

**BONE FLOUR** 40 ACID

References: Fred. Dörner & Sons Co., Ia Fayette, Ind.  
 John H. Taylor, Bevelde, L. I., N. Y.  
 F. G. Hill & Co., Richmond, Va.  
 L. L. May & Co., St. Paul, Minn.

**GEO. S. BARTLETT,** 1255-1257 West 57th St., CINCINNATI, O.  
 successor to CINCINNATI DESICATING CO.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**"JADOO" FIBRE AND LIQUID**

"Jadoo" Fibre!

A new potting material.

Seeds germinate more quickly than in earth.

Greater perfection easily attained.

Suits all kinds of plants.

Is much lighter than earth.

Less frequent watering required.



"Jadoo" Fibre is a perfect substitute for earth.

The Flowers grown in it are larger and of a rich color.

The Flowers last longer.

No soil to mix. No manure required.

Immense saving of labor to professional or amateur gardeners.

TRADE MARK JADOO REGISTERED

Protected by Letters Patent.

Concentrated "JADOO" LIQUID is the cheapest Fertilizer sold. Both meat and drink to plants. Revives drooping plants, strengthens the weak and nourishes the strong; above all, it increases the size, causes greater profusion of bloom, and heightens the colors of all Flowers and Plants. Can be used on Flowers or Plants that are grown in Earth or "JADOO" FIBRE.

**SIMPLY INVALUABLE IN POT CULTURE!**

Testimonials and Prices furnished on application to

**THE AMERICAN JADOO CO.,**

811 Fairmount Avenue, PHILADELPHIA, PENNA.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

J. K. ALLEN, Wholesale Commission Dealer in CUT FLOWERS, 57 W. 28th St., New York.

W. S. ALLEN, 17 West 28th St., New York. Correspondence Solicited.

FITZGERALD & HAMMOND, Wholesale Commission Dealers in CUT FLOWERS, 115 West 30th Street, New York.

FORD BROS. WHOLESALE Florists, 111 West 30th Street, New York.

WM. H. GUNTER, Wholesale Florist, VIOLETS and CARNATIONS a SPECIALTY.

MICHAEL A. HART, Wholesale & Commission Florist, 113 W. 30th St., New York.

H. A. HOFFMANN, Wholesale Florist, 44 W. 29th St., New York.

EDWARD C. HORAN, Wholesale Florist, No. 34 W. 29th St., New York.

JULIUS LANG, Wholesale Florist, 53 WEST 30th ST.

MILLANG & CO., Wholesale Commission Florists, 501 Sixth Avenue, New York.

W. E. LYNCH, Wholesale Dealer in Cut Flowers. 19-21 RANDOLPH STREET, CHICAGO.

CHAS. W. McKELLAR, WHOLESALE COMMISSION FLORIST, Largest and best market in Chicago. 45, 47, 49 WABASH AVENUE, CHICAGO, ILL.



Table with columns for 'NEW YORK', 'BOSTON', 'PHILADELPHIA', 'CHICAGO', 'ST. LOUIS' and rows of various flower names and prices.

For Prices of Fancy and Special Stock see our Correspondence Columns. Prices are for quantities of one hundred unless otherwise noted.

REINBERG BROS., Wholesale Growers of Cut Flowers. 500,000 Feet of Glass. We can fill all orders on short notice with all leading varieties of ROSES and CARNATIONS.

SAMUEL S. PENNOCK, Wholesale Florist, FINEST SWEET PEAS, all colors, \$1.00 per 100. All Standard Varieties of Carnations at rock bottom prices.

Illinois Cut Flower Co., Wholesale Commission Florists, 51 Wabash Av., Chicago.

FRANK MILLANG, Wholesale Commission Dealer ...in Cut Flowers... 408 East 34th St., New York City.

THE NEW YORK CUT FLOWER CO., 119-121 West 23d Street, 112-114 West 24th Street, Telephone 733, 1203 St., NEW YORK.

PURDY & BLAUVELT, Wholesale and Commission Dealers in CUT FLOWERS, MAINTENANCE FERN FROND A SPECIALTY.

A. & F. ROLKER, Wholesale Dealers in CUT FLOWERS, 53 West 28th St., Telephone 2379 39th St., NEW YORK.

M. F. SHERIDAN, Wholesale Commission Dealer in CUT FLOWERS, 39 West 25th St., New York.

TRAENDLY & SCHENCK, Wholesale Florists, 88 W. 28th St., and CUT FLOWER EXCHANGE, NEW YORK.

JOHN YOUNG, Wholesale Florist, 51 WEST 28th ST., NEW YORK.

WM. J. BAKER, Wholesale Florist, 1432 So. Penn Square, Philadelphia, Pa.

DUMONT & CO., Wholesale Florists, CARNATIONS a SPECIALTY, No. 1305 Filbert St., Philadelphia.

EDWARD REID, Wholesale Florist, ROSES, CARNATIONS, No. 40 South Sixteenth Street, Philadelphia.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

**Wholesale Florists** **JOBBERS IN**  
 FLORISTS' SUPPLIES.  
*N. F. Curtis*  
 84 HAWLEY STREET, - BOSTON.

**GEO. A. SUTHERLAND,**  
 Successor to W. J. STEWART,  
**CUT FLOWERS and FLORISTS' SUPPLIES**  
**WHOLESALE.**  
 67 Bromfield St., Boston, Mass.

**City Hall Cut Flower Market**  
**WELCH BROS., Props.**  
 Regular Customers Given Space Free  
 of Charge. Space let to growers wishing  
 to sell their own goods.  
 Flowers Shipped to All Points.  
**...SEND FOR PRICE LIST...**

**W. ELLIOTT,**  
**Wholesale Cut Flowers,**  
 Floral Supplies. Wire Deals.  
 2744 Franklin Ave., ST. LOUIS, MO.

**CHAS. G. FLECKENSTEIN,**  
**Wholesale Flowers,**  
 1323 Pine Street,  
 ST. LOUIS, MO.

**C. A. KUEHN,**  
**WHOLESALE FLORIST,**  
 1122 Pine St., St. Louis, Mo.  
 A COMPLETE LINE of WIRE DESIGNS.

**C. W. WORS,**  
**Wholesale Florist,**  
 913 N. LEFFINGWELL AVENUE,  
 ST. LOUIS, MO.  
**FINE ROSES**—Shipped carefully to all  
 parts of the country.

**ROGERS PARK FLORAL CO.,**  
**Wholesale Growers of Cut Flowers**  
 OFFICE and SALESROOM,  
 411 WABASH AVE., CHICAGO.  
 Headquarters for AMERICAN BEAUTIES.

**Buffalo Cut Flower Exchange,**  
**WHOLESALE COMMISSION,**  
 431 WASHINGTON ST., BUFFALO, N. Y.  
 Telephone, Seneca 1366.

**HEADQUARTERS** in Western  
 ROSES, CARNATIONS and  
 ALL SEASONABLE FLOWERS.  
**WM F. KASTING,** Wholesale  
 Commission  
 495 Washington Street,  
 BUFFALO, N. Y.  
 Also Dealer in Florists' Supplies & Wire-Designs  
**WHEN WRITING MENTION THE FLORISTS' EXCHANGE**

**TO BURN,** \$3.50 per bbl., 180 lbs.  
**TO SPRINKLE,** \$6 per case, 40 lbs.  
**CORRECT KIND,** 15 Madison Ave.,  
 N. Y. C.  
**WHEN WRITING MENTION THE FLORISTS' EXCHANGE**

**ASPARAGUS BAGGINGS**  
**W. H. ELLIOTT,**  
**Oakland, Cal.**  
 London's Easter Flower Trade.

At a recent meeting of the Berkeley  
 Floral Society George N. Tyler, of Ala-  
 bama, spoke on chrysanthemums, in  
 the course of which he said, among  
 other things:  
 "Large chrysanthemums have never  
 been grown on the Pacific coast until  
 last year, when I succeeded in growing  
 a few specimens worthy of comparison  
 with those exhibited at Chicago. The  
 main object in making cuttings is not  
 to check the growth, but the plant should  
 be made so that it has an eye above  
 and one below the leaf and as soon as  
 the cuttings root they should be cut  
 up and planted. The plant should be  
 cut when it is soft. A hard root will  
 not make a large flower. Unless it  
 breaks off clean it is too hard for propa-  
 gation. The cuttings should be  
 packed firmly in the sand about one-  
 half inch apart and three inches be-  
 tween the rows. In from four to six  
 weeks the new plants will have rooted  
 and will be ready to plant in four-foot  
 beds, nine inches apart.  
 "For chrysanthemums the best fer-  
 tilizer is a solution made by letting  
 water stand on the parings of horses'  
 hoofs. This solution is diluted forty  
 and you cannot get it too strong. The  
 same manure may be used for a year.  
 After one has used it, it takes forty  
 gallons of water will make the right  
 solution. It may be used every day  
 with advantage."

**Ether as a Plant Developer.**  
 The United States Consul at Copen-  
 hagen has forwarded to the State De-  
 partment the following translation  
 from Danneberg of a lecture delivered  
 by Mr. Johannsen at the agricultural  
 high school recently given, the results  
 obtained by the etherizing method, which  
 consists in developing plants earlier  
 than their nature would allow to the  
 influence of ether fumes. The lecturer,  
 Mr. Johannsen, says:  
 "By exposing sleeping plants to the  
 influence of ether and chloroform, the  
 result is obtained that each plant, af-  
 ter the treatment with ether, begins to  
 shoot. They have thus probably been  
 awakened from their previous condi-  
 tion of sleep or inactivity. Lilies grow  
 splendidly when placed in an air-tight  
 transparent jar containing ether for eight  
 hours to the effect of 500 or 600 cubic  
 centimeters of ether, and then put in  
 water. Just before the plants are taken  
 plants had developed splendidly. The  
 etherizing of the plants will cost four  
 cents one (one to one and one-half  
 cents) each. The main point is to get  
 the plants to shoot at any time before  
 Christmas, even in September and Oc-  
 tober."

"It can be said that some progress  
 has undoubtedly been made, but one  
 can tell to what astonishing results  
 this discovery may lead. Tulips, lilies,  
 etc., can be developed much earlier and  
 have a pretty color and great durability,  
 as the ether frees the plant of de-  
 composable matter. To etherize the  
 plants they are placed in an air-tight  
 receptacle and exposed from twenty-  
 four to ninety-six hours (generally forty-  
 eight hours), to the influence of the  
 ether. Cylindrical glasses are used for  
 small plants and for large plants an  
 oil-lined box the interior of which is  
 lined with tin foil, four feet high and  
 one and two and one-half feet broad.  
 On the lid a small hole is made, which  
 is closed with a cork, and the ether is  
 conducted through this hole. As ether  
 is very inflammable, great care must be  
 taken not to bring candles or matches  
 near it. The ether is dissolved at from  
 fifteen degrees to twenty degrees cen-  
 tigrade." Exhibitions.  
 St. Louis.—The premium list of the  
 seventh chrysanthemum exhibition, un-  
 der the auspices of the St. Louis Flor-  
 ists' Club, has been issued. The show  
 will be held November 10 to 14 inclu-  
 sive. Phil Schaefer, Pennsylvania  
 Avenue, St. Louis, is secretary.

**E. G. HILL & CO.,**  
**Wholesale Florists,**  
 RICHMOND, INDIANA.  
**WHEN WRITING MENTION THE FLORISTS' EXCHANGE**

**GROW PLANTS IN**  
**"Jadoo" Fibre.**  
**WATER THEM WITH**  
**"Jadoo" Liquid.**  
**WHEN WRITING MENTION THE FLORISTS' EXCHANGE**

**CAPE JESSAMINES.** Buds cut  
 stems \$1.00 per 100 per mill. Also nice stock plants,  
 8 to 12 inches, 50 cts. per doz.; \$3.00 per lot.

**FLORISTS and CUT FLOWER DEALERS**  
**FOR THE CAPE and GRAND ISLE**  
**JAMAICA.** Order from us, 75c. per 100. Write  
 for special prices by thousands. Excellent shippers.  
**Southern Fruit Co., Dallas, TEXAS.**  
**WHEN WRITING MENTION THE FLORISTS' EXCHANGE**

**CUT SMILAX.**  
 12c. per string, heavy, 6 to 15 strands.  
**A. J. BALDWIN, Newark, O.**  
**WHEN WRITING MENTION THE FLORISTS' EXCHANGE**

**Galax Leaves.**  
**CHAS. H. RICKSECKER, Linville, N. C.**  
**WHEN WRITING MENTION THE FLORISTS' EXCHANGE**  
 ... FOR FINEST ...

**Galax Leaves and**  
**Leucothoe Sprays,**  
 ALWAYS WRITE THE INTRODUCERS.  
**Highlands Nursery, Kawana, N. C.**  
**WHEN WRITING MENTION THE FLORISTS' EXCHANGE**

**Fine Smilax**  
 6 to 8 feet long.  
**\$15 per 100 strings.**  
 Address  
**WM. KEIR, Pikesville, Md.**  
**WHEN WRITING MENTION THE FLORISTS' EXCHANGE**

**CUT SMILAX**  
 Choice of fruit struts, \$20.00 per 100. Annual cut-  
 ting, 100 per 1000. Easy or  
 No attention will be paid to orders not accom-  
 panied by the cash.

**ADIANTUM CUNEIFOLIUM**  
 Extra fine fronds, \$1.00 per 100.  
**Wm. F. Schradler,**  
 Cut Flower Exchange, and Hoffman Horticultur-  
 ing, 1000 1/2 Ave. C, New York, L. I., N. Y.  
**WHEN WRITING MENTION THE FLORISTS' EXCHANGE**

**CUT SMILAX**  
 12 cents per string.  
**THE NATIONAL PLANT CO.,**  
 Dayton, Ohio.  
**WHEN WRITING MENTION THE FLORISTS' EXCHANGE**

**FERNS! FERNS!**  
**HARCY CUT FERNS.**  
 We have FIRST quality,  
 100 per 1000. Easy or  
 daggery. Try us.

**LAUREL ROPING**  
 100 per 1000.  
 All orders by mail or dis-  
 patch promptly attended to.

**CROWL FERN CO., Millington, Mass.**  
 Telegraph Office, New Salem, Mass.  
**WHEN WRITING MENTION THE FLORISTS' EXCHANGE**

**Considerable Costum**  
 Advertising in your paper has been the most con-  
 siderable card. J. FOWLER THOM.  
 Mountaineer, N. Y., Oct. 3, 1895.

A more than usually motley assem-  
 bly were awaiting the opening of the  
 Flower Market at Covent Garden on  
 the Saturday before Easter. Groups of  
 curies and members of various sister-  
 societies and brotherhoods, including the  
 costers, were in strong force. The sup-  
 ply was equal to the demand, however,  
 and the returns, as compared with  
 those of last year, showed a marked  
 expansion. Southern France was a  
 heavy contributor of roses and lilac.  
 From the north came tons of daf-  
 fodils and jonquills, so that there was  
 no lack—Gardening World.

**BOOKS RECEIVED.**  
 Wonderful.—This is a nicely gath-  
 er-up pamphlet descriptive of the re-  
 sources of the great North-west, issued  
 by the Northern Pacific Railway, and  
 proves very instructive and entertain-  
 ing to all. The book is beautifully il-  
 lustrated. Copies may be had by en-  
 closing six cents to Charles S. Fee,  
 general passenger and ticket agent, St.  
 Paul, Minn.

**CATALOGUES RECEIVED.**  
 HENRY F. MICHELL, Philadelphia.—Price  
 List of Bulbs and Florists' Requisites.  
 THE SCARLETT DRUG CO., Chicago, Ill.—Cir-  
 cular regarding "Lilies" and its use.  
 WOOD BROS., Fishkill, N. Y.—Trade List  
 of Miscellaneous Plants.  
 SOUTHERN CALIFORNIA ACCLIMATIZING AS-  
 SOCIATION, Santa Barbara, Cal.—General Cata-  
 logue of plants from the South, contain-  
 ing descriptions, degree of hardiness, and  
 hints on cultivation of some 1500 plants;  
 also lists of special tables of plants  
 suited for dry countries, the coast, and  
 other useful information regarding the cat-  
 alogue very valuable as a reference book. An  
 especial feature is the correctness of the  
 nomenclature.

**THE EXPERIMENT STATIONS.**  
 TWENTIETH ANNUAL REPORT FOR 1896.  
 Connecticut Experiment Station, New Haven,  
 Conn. Contains accounts of experiment with  
 mineral fertilizers on various crops, notes on  
 insects and fungoid pests, and other useful  
 information.  
 GOOSEBERRIES, BEST VARIETIES AND HOW  
 TO GROW THEM. Bulletin 114. New York Sta-  
 tion.  
 SPRAYING FOR PLUM AND CHERRY LEAF  
 SPIDER. Bulletin 115. New York Station.  
 ONION CUT WORMS, THEIR HAVEN and  
 Treatment. Bulletin 116. New York Station.  
 Several tests made, the dry poisoned bait  
 proved most satisfactory. Various brands of dry  
 bait and middling. Final parts mixed with  
 one part of Paris green.

BOX CARBONATES OF PHOSPHATES. By  
 Professor L. H. Merrill. Bulletin 34, Maine  
 State College, Orono, Me.  
 FIRE CRACKERS AND OTHER DESTRUCTIVE IN-  
 SECTS. Bulletin 77, Ohio Experiment Station,  
 Wooster, O.  
 CORN.—Cultural investigations, comparison  
 of varieties, corn report. Bulletin 78, same  
 station.  
 FIFTEENTH ANNUAL REPORT. Bulletin 74,  
 same station.

BOX CARBONATE OF PHOSPHATES. Bulletin 48,  
 University of Illinois, Urbana, Ill.  
 BROOM CORN SMUT. Bulletin 47, same sta-  
 tion.  
 VEGETABLE TESTS OF FERILITY: TESTS OF VEGETABLES  
 FOR FERILITY. Bulletin 104, Hatch Experiment  
 Station, Amherst, Mass.  
 THE LITTLE APPLE LEAF FOLDER. THE LITTLE  
 APPLE LEAF FOLDER. By Professor C. C. Ad-  
 well. Bulletin 125, Cornell University, Ithaca, N. Y.  
 HOW TO CONDUCT FIELD EXPERIMENTS WITH  
 THE FERTILIZERS OF PROFESSOR C. C. ADWELL.  
 Bulletin 125, Cornell University, Ithaca, N. Y.  
 ANALYSES OF COMMERCIAL FERTILIZERS.—  
 BY PROFESSOR VAN DYKE. Bulletin 116,  
 GERRYS, N. Y.  
 ANALYSES OF COMMERCIAL FERTILIZERS.—  
 BY PROFESSOR WELT. Bulletin 57, Wisconsin,  
 Madison, Wis.  
 FIELD EXPERIMENTS WITH CORN, OATS and  
 FORAGE PLANTS.—By Professor Latta and  
 Anderson. Bulletin 104, Purdue, Lafayette,  
 Ind.

LARGEST AND BEST STOCK OF PREPARED CYCAS LEAVES

TO BE FOUND ANYWHERE

Metal Floral Designs, Sheaves, Doves, Baskets, Moss Wreaths, Wheat, Milkweeds, Cape Flowers, Wire Work, and all Florists' Supplies.

Write for catalogue. Free to the trade.

A. HERRMANN, 404-412 East 34th Street (Near Ferry), New York,

Manufacturer of METAL FLORAL DESIGNS, Importer and Dealer in FLORISTS' SUPPLIES.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

CHRYSANTHEMUMS All the best stand- ing varieties, from \$2.00 per 100. Mrs. H. Robinson, \$1.00 per 100.

BOUVARDIAS Double white, single pink, red and white, from 2 1/2 in. pots, \$2.50 per 100.

VIOLETS California, Marie Louise, single white, from 2 1/2 inch pots, \$3.00 per 100.

C. EISEL, 11th & Jefferson Streets, Philadelphia, Pa.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

FOR SALE OF EXCHANGE. Violets, M. Louise, strong plants, selected, 50c. per 100. California, 75c. per 100. \$6.00 per 100. Smilax, from 2 inch pots, \$2.00 per 100. Dahlia, double mixed, large established clump, \$2.00 per 100. Asters, Benjamin and Snowball, white and pink, 50c. per 100. \$1.00 per 100. Wreaths, rooted, extensive outline, Silver Spray, Scott and Daybreak. Geo. Stambinger, Springfield, N. Y.

P. OUWERKERK,

1123 Summit Ave., Jersey City, N. J.

Just received from our Holland

Nursery:

- RHODODENDRONS, AZALEAS, SPIRÆA JAPONICA, LILIU M SPECIOSUM, PEONIES, BLEEDING HEART, POT GROWN LILACS, HYDRANGEA IN SORTS, CLEMATIS and H. P. ROSES, in the best sorts

PRICES MODERATE.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

CINERARIA Extra fine mixed, per trade packet, 50 cents; Siamensis, in red, trade packet, 25 cents. Trade list free.

H. BEAULIEU, Belmont Ave., Woodhaven, N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

It Will Pay You Well to Buy of

GODFREY ASCHMANN,

1012 Ontario St., Bldg. 5th, PHILADELPHIA, Pa.

WHOLESALE GROWER OF BEDDING PLANTS.

Hundreds of thousands of plants for the month of May.

The following only \$1.00 per 100, taken from 4 inch pots: Geranium, Heliotropes, Asparagus, Double Petunias, Double White Faverolles, Calceolias (Prima of Oregon, scarlet), Saxifraga, Dianthus Nasturtium, Canditric, Ten Weeks Stocks, Begonia Variegata, \$1.00 per 100. Lantanae, \$1.00 per 100. Pine daisies, large geraniums, \$1.00 per 100. Plants out of 2 1/2 and 3 in. pots, at \$2.00 per 100. Little blue and white Petunias, Verbenas, Pinks, Mizanoneas, convolvulus, Iwarf Morning Glory, Florida Fourteen, Nasturtium, Chelidonium, Petunias, Coleus (all shades), Lobelia compacta, Perfor 1 1/2, Knollwort, 1 1/2, Daisy Miller, yellow and red Alternanthera, single var. Petunias and large flowers striped, Mandarins, Mandarins (French daisy), Faverolles (double white).

Patens all kinds, 3 in. pots, \$2.00 per 100. Pandanus stultus, 15c. each. Dracena indivisa, 15c. each; Tuberosa rooted 3 in. pots, \$2.00 per 100; Begonia semperparens plants, 10c. each. Ferns: Boston Bird's Nest, Royal road rose bushes out of benches, strong plants, 2 to 3 feet high, 15c. each; 15 in. pots, out of 4 to 6 inch pots, with and without buds, 10c. each. Hydrangeas for South's Hybrid Moon Vines, the best in the country, 4 inch pots, \$1.00 per doz.; 2 1/2 inch pots, \$1.00 per doz.; 2 1/2 inch pots, \$1.00 per doz.; 2 1/2 at 100 rates. Cash with order only.

GODFREY ASCHMANN,

1012 Ontario St., Bldg. 5th, PHILADELPHIA, Pa.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

CYCAS LEAVES AND FUNERAL SHEAVES BASKETS AND SUPPLIES, SEEDS AND SPRING BULBS. At wholesale only; apply for lists. Address AUGUST ROLKER & SONS, NEW YORK, 136 and 138 West 24th Street. P. O. Station E.

POPULAR MEMORIAL DECORATIONS ARE NOT COMPLETE WITHOUT MOSS WREATHS, all sizes. CYCAS LEAVES, fresh lot just INMORTELLES, all colors. in all sizes. CAPE FLOWERS, finest in the CALAX LEAVES, green and market. Strictly pure white. and bronze. H. BAYERSDORFER & CO., 56 N. Fourth St., PHILADELPHIA, PA.

OUR NEW LIST OF SEASONABLE PLANTING STOCK INCLUDING ROOTED CUTTINGS of CHRYSANTHEMUMS, CARNATIONS, COLEUS, Etc. PLANTING STOCK in ROSES, SMILAX, BULBS, Etc. Now ready. Best stock. Low prices. Address. DAN'L B. LONG, Jobbing Florist and Grower's Agent, Buffalo, N. Y.

ALTERNANTHERA. WELLENREITER & SCHWEMAN, DANVERS, ILL. A. AMABILIS and A. NANA, (red and green) good strong plants, \$7.00 per 100; \$10.00 per 100. Cash with order. CHAS. T. DARLINGS, 150 1/2 Broadway, N. Y. FARQUHAR VIOLETS, at \$2.25 per 100.

EXTRAORDINARY CLEARING OUT SALE

AT AUCTION

OF A HIGH CLASS OF

PALMS, FIGS, FERNS, ORCHIDS and CANNAS.

Also the appurtenances for growing them, consisting of houses, boilers, piping, pots, horses, harness, wagons, implements, etc., etc., also dwelling house, belonging to

JAMES DE... of Bay Ridge, N. Y.

who is retiring from business, having sold the ground to the city of Brooklyn for improvements, necessitating his immediate removal. The stock is in excellent condition. The new tariff will have a tendency to make this class of goods much higher this fall.

IT WILL BE A GRAND OPPORTUNITY FOR FLORISTS TO STOCK UP AND IT WILL PAY EVERYONE TO ATTEND THE SALE.

Premises can be reached by boat, via South Brooklyn, or Bridge and Fifth Ave. Elevated. Catalogues on application.

WEDNESDAY and THURSDAY, JUNE 9th and 10th, at 10 O'CLOCK. WILLIAM ELLIOTT & SONS, Auctioneers, NEW YORK.



# THE FLORISTS' EXCHANGE

We are a straight shoot and aim to grow into a vigorous plant.

A WEEKLY MEDIUM OF INTERCHANGE FOR FLORISTS, NURSERYMEN, SEEDSMEN AND THE TRADE IN GENERAL.

VOL. IX. No. 22.

NEW YORK, MAY 29, 1897.

One Dollar Per Year.

## VINCA MAJOR VARIEGATA.

Fine, strong plants, with good vines, 4 inch pots; excellent for vases,

\$10.00 per 100.

## CHRYSANTHEMUMS.

### INTRODUCTIONS OF 1896.

Alooz, Henry Hurrell, Indiana, Infatuation, Lenawee, Marion Cleveland, Miss L. Magee, Modesto, Mrs. Harry Toler, Mrs. H. H. Battles, Mrs. Perrin, Mrs. Wm. C. Egan, Mrs. W. P. Raynor, Nashon, Pluto, Riverside, Yanoma. \$4 Per 100.

### STANDARD VARIETIES.

Louis Bohmer, Major Bonanza, Mrs. Jas. B. Cane, Eugene, Dandelion, Miss Agnes Louise Daisley, W. Dirsmore, Mrs. A. J. Drexel, L'Enfant des Deux Mondes, Erminida, Mrs. Alpheus Hardy, Marian Henderson, Mrs. Higginbotham, Mrs. E. G. Hill, Dean Hole, Ivory, J. E. Lacey, Latest Petal, Mrs. George J. Mayer, Marie Louise, Muerrea, Mrs. S. F. Murdoch, Mutual Friend, Nemesis, Niveus, Miss Georgiana Pipher, Miss Florence Pullman, Mrs. Geo. M. Pullman, The Queen, H. W. Riemann, Mrs. Henry Robinson, Dorothy Toler, J. H. Troy, Mrs. H. McK. Twombly, Virand-Morel, Mrs. Geo. West, Yellow Queen. \$3 Per 100.

### HARDY POMPON CHRYSANTHEMUMS.

These Chrysanthemums, though in no way new, have not received in past years the attention they deserve, especially for planting in private gardens, where many of the large-flowered varieties do not mature their flowers before the cold weather sets in. We have made extensive trials, securing the best that could be found in Europe, Japan and this country, and offer them at \$3 Per 100.

## PITCHER & MANDA, Short Hills, N. J.

JOHN N. MAY, Receiver.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# CANNAS.

Fine, strong, potgrown plants, 3 1/2 to 4 inch pots, with fine tops, ready for immediate bedding.

We offer the following **WORLD'S FAIR BRONZE MEDAL SORTS** at \$5.00 per 100.

Florence Vaughan,	Egandale,
Mme. Crozy,	Chas. Henderson,
Alphonse Houvier,	Paul Marquand,
Mrs. Carnot,	

Also **Robusia**, the finest of all the dark-leaved Cannas for foliage effects.

We offer, also, the following **CHOICEST SORTS OF RECENT INTRODUCTION** at \$12.00 per 100.

Eldorado,	Chicago,
Souv. de Antoine Crozy,	Queen Charlotte,
F. R. Pierson,	

Also the following **NOVELTIES** at annexed prices, viz.:

Pierson's Premier.....	\$3.00 per doz.; \$20.00 per 100.
Pepp.....	5.00 " "
Austria.....	2.50 " " 15.00 "
.....	5.00 " " 40.00 "
Burbank.....	7.50 " "

## ABYSSINIAN BANANA.

Strong plants, 3 1/2 inch pots, \$2.50 per doz., \$15.00 per 100.

## CALADIUM ESCULENTUM.

Strong, potgrown plants, 5 inch pots, \$2.00 per doz.; \$12.00 per 100.

We would also call attention to our **DRACENA INDIVISA**. These are fine specimen stock of extra sized plants of DRACENA INDIVISA. These are extra large vases, for which nothing is quite so well adapted. We can refer you thus as follows: "The pieces, at 2 1/2 ft. high, \$2.00 each; extra large plants, 3 1/2 to 4 ft. high, \$3.00 each."

We have an exceptionally fine stock of large **Arecas**, **Nephololepis Exaltata**, **Bostonica**, **Pandanus Veitchii**, **Araucarias**, etc. Will be glad to send our Wholesale Price List, giving lists of sizes and prices, on receipt of application.

## F. R. PIERSON CO.,

TARRYTOWN-ON-HUDSON, NEW YORK.

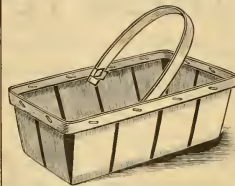
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## HIGH GRADE SEEDS AND BULBS

### Verbena Baskets.

Strong, well made, with handles,

\$2.25 per 100. Special prices for large lots.



### Smilax String.

The best String in the market for this purpose. 75c. per box (6 spools, 200 yards each). Special price for large lots.



### IRON BOUQUET HOLDERS.

Tulip shape, No. 4, 20 cts.; No. 5, 25 cts.; No. 1, 25 cts. each.  
 Tulip shape, galvanized, No. 4, 20 cts.; No. 5, 25 cts.; No. 1, 45 cts. each.  
 Lily shape, No. 0, 20 cts.; No. 6, 30 cts., each.  
 Lily shape, galvanized, No. 0, 30 cts.; No. 6, 50 cts. each.

## F. E. McALLISTER CO. Seed and Bulb Merchants, 69 Cortlandt St. N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# CANNAS.

### FINE STRONG STOCK.

Started plants, \$4.00 per 100. Plants from pots, \$5.00 per 100. **Mme. Crozy**, Chas. Henderson, A. Bouvier, Sunbeams, Egandale, Star of '91, St. Hillaire, Ami Pichon, Pres. Carnot.

**BURBANK**, Each 75 cts.; 6 for \$4.00.

Austria, and Souv. de Antoine Crozy, \$10.00 per 100.  
 Chas. Henderson, A. Bouvier, Sunbeams, Count H. de Choiseul, dormant, at \$2.00 per 100. F. R. Pierson, \$3.00 per 100.  
 Mme. Crozy, dormant, \$3.00 per 100.

## GERANIUMS.

A few thousand, 2 1/2 inch stock, at \$25.00 per 1000.

## IVY GERANIUM.

100 Jean d'Arc, at \$2.00.

## BEGONIA VERNON.

Fine 2 inch stock, \$2.50 per 100; \$20.00 per 1000.

## CHRYSANTHEMUMS.

\$2.50 per 100. Ivory, Pink Ivory, Mrs. Perrin, The Queen, Nashon, Marion Henderson, Mrs. Egan, Wm. Simpson, Marquis de Montfort, Mrs. Jerome Jones, Erminida, Niveus, Gladys Spaulding, V. Morel, Philadelphia, Daydawn, Mrs. Robinson, Miss Johnson, Bergman.

\$1.00 per 100. H. W. Riemann, Liberty, Invincible, Pluto, Fitzwygram, Lenawee, Autumn Bride, Sibley Kaye, Indiana, Yanoma, F. B. Hayes, Mrs. Murdoch, Mrs. R. Crawford, Pride of Castletown, Volunteer, Riverside, Rinaldo, &c.

## CARNATIONS.

From Soil. Minnie Cook, \$2.50; Mrs. Chas. Duhme, \$10.00; Mrs. G. P. Bradt, \$10.00 per 100.

## THE COTTAGE GARDENS

QUEENS, L. I.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# SEASONABLE SEEDS!



## PRIMULA FIMBRIATA

(Chinese Primrose).  
Rubra (Red), Alba (White), Alba Magnifica, Rubra Violacea, Chiswick Hybrid, Yellow, Yellow Maid or Choice Mixed.  
Trade Packages, 50c. and \$1.00.

## CINERARIA

Hybrida Grandiflora choice mixed, Extra Fine Dwarf Mixed, Grandiflora Kerriana, 100's Flowering.  
Trade Packages, 50c. and \$1.00.

## CALECOLARIA

Hybrida Grandiflora, choice mixed.  
Trade Packages, 50c. and \$1.00.

## WM. ELLIOTT & SONS NEW YORK.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## THE JENNINC'S STRAIN

of Finest American Growth  
**PANSY SEED**

NEW CROP. Ready June 15th.  
E. B. JENNINGS, 324, Southport, Conn.  
SHOWERS OF THE FINEST PANSIES  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## 10,000 POTCROWN DAHLIA

Plants (2 1/2 in. pots) in good variety, labeled true, \$5.00 per 100; \$25.00 per 1000.  
If you need Dahlias, write us.  
A. B. DAVIS & SON, Purcellville, Va.  
(NEAR WASHINGTON, D. C.)  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## Pure White Dahlia, BRUIANTII

is without question the best payer for Florists.  
2 1/2 in. pots..... per 100 \$5.00  
2 1/2 " "..... per doz. 1.00  
Rooted cuttings..... per 100 3.00  
Other good varieties..... per 100 5.00  
Cash with order, please.  
**ALBERT KNAPPER,**  
Frankford, Phila., Pa.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## Prize-Winning DAHLIAS

AN UNPRECEDENTED RECORD.

23 First Prizes, Certificate of Merit, 2 Diplomas, and highest mention everywhere.  
If you want the Very best Dahlias that bloom, send for our 1897 descriptive true list now ready.  
Address

W. P. PEACOCK,  
Dahlia Specialist, ATCO, N. J.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## ROEMER'S SUPERB PRIZE PANSIES.

The finest strain of Pansies in the World.  
Instructor and Grower of all the leading Novelties.  
His best Award, International Exhibition, Hamburg, 1872. Catalogue free on application.  
**FRED. ROEMER, Seed Grower,**  
Quedlinburg, Germany.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CANNA AUSTRIA AND ALSACE** Five 4 in. plants, \$1.50 per doz.; \$10.00 per 100. Dormant roots, \$5.00 per 100.  
**NEW CANNA ITALIA** Caucasus, Philadelphia, Maiden's Bush, Pillar of Fire, Golden Pearl, Triumph and Sunset, the 6 for \$3.25. New Double Rubeduckia, Golden Glow, 2 1/2 inch, \$1.00 per 100. New Japan Berry, 1000 2 1/2 inch plants, \$1.00 per dozen; \$8.00 per 100. Strawberry-Raspberry, \$3.50 per 100. Japan Golden Mayberry, New Chinese Lantern Plant, &c. Send for Price List.  
**ALFRED F. CONARD,** West Grove, Pa.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# LILIUM LONGIFLORUM.

...JAPAN CROWN...  
CONTRACTS for small and large quantities closed now. Crop is going to be about. Prices to meet competition. Don't overlook this, but write at once to

**F. W. O. SCHMITZ,**  
Importer and Exporter of ONLY superior quality of Pansy supplies.  
**JERSEY CITY, N. J.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# QUEEN — CHARLOTTE

From 4 inch pots, at \$6.00 per 100.  
**ALPHONSE BOUVIER, MME. CROZY, CHAS. HENDEFSOHN.**  
From 4 inch pots, at \$5.00 per 100.

## VARIEGATED VINCAS.

Strong plants, from 4 inch pots, 8 cts.

# CALADIUMS

Out of 4 inch pots, 15 cts.  
**PRIVET**, in trenches, 2 to 3 ft., \$3.00 per 100. **AMPELOPSIS VEITCHII**, 2 to 3 ft., 7 cts.

## THE ELIZABETH NURSERY COMPANY, ELIZABETH, N. J.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# LOOK! LOOK! LOOK!

Up to JUNE 15th only we book for June-July Delivery.

## FREESIA REFRACTA ALBA.

**GOOD FLOWERING BULBS.**  
100 1000 5000  
3 1/2 inch diameter..... \$0.25 \$2.00 \$8.00  
4 inch diameter..... 40 2.50 10.00  
5 inch diameter..... 80 4.00 18.00  
Mammoth, 5 1/2 inch and up..... 40 5.25 25.00  
Prices include preparation of Mail or Express Charges.



Extra Offer in Palm Seeds up to June 15th.  
100 1000 5000  
Corytha australis..... \$0.60 \$3.00 \$15.00  
Scorfhoria elegans..... 60 3.50 15.00  
Phoenix canariensis..... 40 2.25 10.00

**Improved LITTLE GEM CALLA.**  
Smallest size bulbs produce flowers.  
3 1/2 inch diameter..... \$2.00 per 100; \$15.00 per 1000.  
5 1/2 " "..... 4.00 " " 35.00

PRICE INCLUDES DELIVERY. 5 Per Cent. Discount allowed on orders with Cash. Send for new Price List of Calla Longiflora, and all other Calla, Japan, French and Dutch Import Bulbs for Summer and Fall Delivery. Address

**H. H. BERGER & CO., San Francisco, Cal.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## CHINESE PRIMROSE SEED.

Greatly Improved and of the finest varieties. Packets put up specially for florists, of the best primrose, single and double varieties, 40c seeds. \$1.00 Orders booked for August delivery of plants out of 2 1/2 in. pots, and extra \$2.00 per 100 of choice var., \$4.00 per 100. Extra choice large-flowering Cineraria seed, dwarf and compact type, trade pkg., \$c. 9 pks., \$1. JOHN F. RUPP, Shiremansdown, Pa. Successor to Henry S. Rupp & Sons.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CINERARIA** Extra fine mixed, per trade packet, 25 cents. **PRIMULA** Choice mixed, per trade packet, 25 cents. Trade list free. H. BEAULIEU, Belmunt Ave., Westchen, N. Y.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**BURPEE'S SEEDS**  
PHILADELPHIA  
WHOLESALE-PRICELIST FOR FLORISTS AND MARKET GARDENERS  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## SUMMER FLOWERING BULBS.

**CHAS. H. ALLEN, Floral Park, N. Y.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**SEEDS for Profit**  
FLORISTS' Sweet Peas  
Wholesale Catalogue on application.  
**WEBER & DON,** Seed Merchants & Growers, 114 Chambers St., New York City.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## BULBS.

Gladiolus, choice mixed..... per 100 \$0.50  
Madraia Vine Roots..... 75 75  
Zebra, choice mixed..... 50 50  
Oxalis, finest mixed..... 100 100  
Calladium, medium..... 50 50  
Dahlia, mixed..... 50 50  
SWEET PEAS, Scorfo's mixed, per doz. 25  
**H. G. FAUST & CO.,** 61 & 63 N. Front St., Philadelphia, Pa.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## BUY FROM THE GROWERS DIRECT

ALL BULBS AND PLANTS  
For Summer and Fall Delivery, Quoted at Very Low Rates.  
FREE ON BOARD CARS OR BOATS  
NEW YORK CITY.  
**HULSEBOSCH BROS.,** Englewood, N. J.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## HEADQUARTERS FOR Callas and Freesia Bulbs

**PAMPAS PLUMES,**  
Palm, California Tree and Flower Seeds.  
Please let us book your orders for BULBS at once.....  
ASK FOR SPECIAL PRICES.

**GERMAIN FRUIT CO., Los Angeles, Cal.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**PALM** FRESH Seed ON HAND  
per 100 1000 2000  
Argemone,..... \$1.00 \$7.00 \$20.00  
rubra,..... 1.00 5.00 15.00  
Chamaecypariss,..... .50 2.00 6.00  
Lantana Barbados,..... 1.00 5.00 15.00  
Phlox carolinensis,..... 1.00 5.00 15.00  
" reclinata,..... .50 2.00 6.00  
"..... 1.00 5.00 15.00  
Scorfhoria elegans,..... 1.00 5.00 15.00  
"..... 1.00 5.00 15.00  
Dracaena Indivisa bicoloris,..... 50 cts per 50

**J. L. SCHILLER, Rutherford, N. J.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

SEED TRADE REPORT.

Points and information from seedsmen, and all interested in this column, solicited. Address Editor, Seed Trade Report, Florists' Exchange, P. O. Box 1097, New York.

Punitive Damages.—The United States Court of Appeals has affirmed the judgment of the United States District Court last June by Theodore Outerbridge, Bermuda, against K. F. Downing & Co., of New York City. The circumstances connected with the case were given in our issue of 30 last. The amount of the verdict was for \$1,855.

Death of Samuel Wilson.—Samuel Wilson, Mechanicville, Pa., died on Sunday, May 23, aged 78 years. Mr. Wilson had been in the seed business for a number of years, having, prior to embarking in same, been purchasing agent for the Grange. His ancestors came from Yorkshire, England, in 1831, and settled in Bucks County, Pa. Of course, the business had not been very successful.

St. Paul.—Field corn for seed purposes is in great demand in the Northwest and trade in this article is reported by several dealers. Filling in orders for vegetable seeds have also been good, and as far as we are concerned the year's business is reported very satisfactory.

Agricultural Implements.—Before the United States General Appraisers at New York, April 28, 1897, in the matter of the protest of H. C. Christiansen, of the City of New York, Collector of Customs at New York, N. Y., the following opinion was given by William G. Brown, appraiser: The merchandise is a turnip cutter. It is claimed to be exempt from duty under paragraph 531 of the tariff act of 1890, inasmuch as it belongs to the class of agricultural implements named in said paragraph. We do not believe this to be correct. We are therefore entitled to free admission under paragraph 531 of the tariff act, officially named: As a turnip cutter is not one of these, the assessment of duty is 50 per cent, under paragraph 17 is affirmed.

Against Free Seeds.—Secretary Hastings, of the Florida State Horticultural Society, has forwarded us a copy of a resolution passed by that society condemning the free distribution of seeds by the government, as now conducted, and recommending that Congress use their efforts to have the appropriation now made for this purpose applied to the scientific work of the Department of Agriculture in investigating diseases and insect enemies of plants grown for commercial purposes throughout the United States. We heartily recommend the action of the Florida State Horticultural Society to other State societies and trust they may see it to their advantage to go and do likewise. In no foreign country has the voice and sentiment of the prominent horticulturists of the country been presented to the attention of Congressmen and the utter uselessness and undesirability of the free-seed scheme, so far as it relates to vivators, be laid before our law makers.

Seed Growing and Selling.—Fifteen or twenty years ago it was hard work to produce seeds. To-day it is hard work to raise them. In twenty years of experience has enabled all growers to increase their yield. It has also done for the consumer. Breadth of acreage and new localities have increased faster than the demand. But greatest of all, the cheap labor of foreign countries has enabled foreign houses to completely monopolize our trade; hence the necessity that in order to be enabled to sell seeds to-day as to produce them. Dealers as well as growers are suffering from this cause.

As the American Seed Trade Association meets soon in Washington, should you have a chance to be a member, would all that are interested in seeds should be present, and that in doing so, would the association's first business to urge Congress to sustain the House bill as it reads, and that in doing so, would we are interested enough in our pursuit to retain an industry well adapted to our country, and to be able to say: EVERETT B. CLARK & SONS.

European Notes.

Late and Light Harvest Anticipated. The cold spell still hangs round and checks every tendency to exuberant growth either in annual or biennial crops. We have to open our minds for a late harvest all round and a lighter one is inevitable as the months roll on. This is true both of northern and southern Europe, for the Mistral in the south is rapidly undoing all the good done by the warmer weather of March. One exception is to be found in our pansies, which have never been finer than they are this year. The blooms measure from 3 to 3 1/2 inches in diameter and the form appears to be more perfect every year.

Quite an interesting study is the development of the modern pansy. In 1730 Robert Furber issued his elaborate colored plates of the various plants he had to sell and the best of his pansies only measures 3/4 inch in depth and 3/4 inch in width, the colors varying very slightly from those of the wild variety found in Western Europe. Another ten days will settle the state of the pansy crop and that of many other biennial flower seeds.

Limbs Bean Field Ready Sale. As the garden seeds the scarcity of green vegetables reported last week has paved the way for the introduction of early lima beans, which under the name of butter beans, have found a ready sale and been highly appreciated. In future years the ordinary Haricot beans will find a powerful competitor in this new-come.

The extraordinary sale of beans referred to early in April still continues, and prices have advanced fully 30 per cent. during the last two weeks.

Philadelphia.

At the trials of American implements just held at Bourges, the only French grower to exhibit this year was Allen & Co., manufacturers of agricultural implements in this city, obtaining the gold medal for their Patent Junior Horse Hoes and Cultivators, after complete dynamometer tests, eight competitors in the field.

CATALOGUES RECEIVED.

P. J. BERCKMANS, Augusta, Ga.—Circular in respect to overbearing Peach, and other fruit and nursery trees.

THOMAS S. WAKE, Tottenham, London.—Catalogue of New and Other Dahlias and Begonias, etc. Illustrated.

VEGETABLE PAINTS

Table with 2 columns: Name of paint and Price per 100. Includes Sweet Potato Plants, Cabbage, Broccoli, White Cape, Lettuce, Pepper, Cauliflower, Snowball.

TRADE PRICES LIST FREE. Send Stamp for Sample.

E. C. HARGADINE, Felton, Del. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

FINE STOCK OF PALMS

Table with 3 columns: Name of palm, Length, Diameter. Includes ARECA LUTEESCENS, LATANIA BORBONICA, CECYLIUM STRONG, KENTIA BORBONICA, BELMORIANA.

FEES, well grown, standard size, 2 1/2 to 3 1/2 ft. in height, 24 in. pots, \$3.50 per doz. Bedding plants of all varieties for spring orders.

JOHN BADER, Allegheny City, Pa. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

STORRS & HARRISON CO., Painesville, Ohio.

Wholesale Nurseries and Florists. Can show as the blocks of Fruit and Ornamental Trees, Vines, Shrubs, Roses, as can be found in the U. S. We grow 1 million Roses and million of plants annually. Trade list free. Mention Paper.

PEACH AND PLUM TREES

FOR FALL DELIVERY INST. Reliable and clean stock with all wholesale rates. All desirable leading varieties of PEACHES, and also new in fruiting orchards. Have the new TRETTNER, GREENLAND and PEACH CUTTING Buds can be supplied in quantities at low rates.

WE ARE HEADQUARTERS ON

BULBS FOR FORGING, FLOWER SEEDS FOR FLORISTS, ENGLISH MUSHROOM SPAWN. SPECIAL PRICES ON APPLICATION. JOHN GARDINER & CO., Seedsmen, Box 1306, Philadelphia, Pa.

VICTORIA REGIA AND RANDI

We have now ready for shipment a fine lot of Victoria in various sizes. Where artificially heated tanks are used, they should be planted at once, but in so-called tanks, planting should be delayed until the water becomes thoroughly settled and warm. We can also supply a full line of all other choice and rare varieties.

HENRY A. DREER, 714 Chestnut St., Philadelphia.

General Catalogue of Garden Guide

FOR THE SOUTH. Paragraph Summary Description, Degree of Hardiness, Hints to Culture, of 1500 Sets of the Well Illustrated Edition, 98 pages. Free by mail.

Southern California Acclimating Association, SANTA BARBARA, CAL.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

500 LANTANA

We offer our own grown stock of LATANIA BORBONICA, having 6 to 8 leaves. 1st size, \$15.00 per doz.; 2d size, \$12.00 per doz.

JORDAN FLORAL CO., Street, St. Louis, Mo.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

FEES

Perla Serpentina, Pteris Fretata alba, "Densa", Adiantum, "Agrippa", Farnesum, "Ochryon Jalisco", \$3.50 Per 100. CASH WITH ORDER.

CHAS. F. BAKER, Utica, N. Y.

JULIUS ROEHR'S

Headquarters for Palms and Decorative Plants.

RUTHERFORD, N. J.

P. O. Address, Carlton Hill, N. J.

BULBS AND ROOTS CLOSING OUT AT CASH BARGAINS.

Table with 2 columns: Name of bulb/seed and Price. Includes 1000 Gloxinia, 500 Double Begonias, 500 Single Begonias, 500 Cladiplois, 500 Lilium Altissimum, 500 Spectatum Album, 200 Crinum Americanum, 200 Clematis coccinea, 200 Cyaea Revoluta, 200 Pycnanthus, 1000 Cyclamen.

FOSTITE, for Mildew on Grapes, Vines, Greenhouse Plants and Carnation Cuttings, 25 Cts. per Box, \$2.50 per 100. \$5.00. G. H. JOOSTEN, Importer of Choice Bulbs, 193 Greenwich St., New York. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

CLUCAS & BODDINGTON CO.,

Importers, Exporters and Growers Agents of Plants, Seeds and Bulbs, 501 and 603 W. 13th St., Telephone Call, 403 18th St., NEW YORK CITY.

VAGHA'S BULBS

We are now booking import orders for Florist's Forcing Stock. Write for Prices. VAUGHAN'S SEED STORE, NEW YORK. CHICAGO. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

VEGETABLE PLANTS

Jersey Waxgolds, Early Summer and Red Cabbage, Jersey Wonder, Castle Blue Dutch, Premium Flat Root, to plant out in field. Celery, White Plume and White, 1000 per 1000. J. C. SCINDLITZ & CO., Bristol, Pa.

CELESTINE Plants Now Ready

\$1.40 per 1000. Special Low E. X. Rates Guaranteed. Most Practical Book on Celery Growing, 75 cts. PETER J. SCHUR, Kalamazoo, Mich.

VEGETABLE PLANTS

Sweet Potato Plants, \$1.00 per 1000. Egg Plants, out of 3-inch pots, \$3.00 per 100. CASH WITH ORDER.

SHIVLER & STAGGER, NEWARK, DEL.

VEGETABLE PLANTS

CABBAGE—Henderson's Succession, Early Flat Dutch, Lutzbo, Autumn King, Burpee's Self Sured, Late Flat Dutch, Premium Flat Root and Drumhead Savoy. Field growing: 1000, \$1.00 per 1000; 2000, \$1.00 per 1000.

TOMATO—Royal Red, Stone and Paragon, 10c. per 100; \$1.00 per 1000. CASH WITH ORDER.

CELESTINE—Dwarf Golden Heart, Golden Self Blanching, Giant Pascal, New Rose, White Flamingo and Giant Paragon. 10c. per 100; \$1.00 per 1000; \$5.50 per 1000. We are headquarters for all kinds of Vegetable Plants. Anything you want not here mentioned send for price list. We make liberal discounts on wholesale and celery in 100,000 lots.

Cash with order. W. VINCENT JR. & SON, White Marsh, Md. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

ROSES.

Preparing for Planting.

For the next three or four weeks planting for next winter's cutting will claim our attention...

The first thing we do is to clay or mud the roof; this makes it much more congenial for the workmen under the roof...

The wire stakes are next taken out and tied in bundles; old plants cut off, carried out and burned; old soil removed and the house thoroughly cleaned of all rubbish and washed.

Refrigerating or putting in new benches is the next in order, and is every important to see that they are perfectly level, for it is next to impossible to water properly a table that is not level...

To prevent the soil from falling through the cracks when filling the benches straw is laid over them. The sides of beds are all at an angle...

There are many ways of bringing in soil practiced, probably the most common being by the hand barrow. My experience is that this work is easier and quicker done with a wheelbarrow...

On a retail establishment, at this time of the year, it is very unwise to put our skilled workmen at this work when we can get laborers to do it just as well, if not better, at a much lower cost.

Later a number of growers firm their soil either before or after planting. I used to be a disciple of this plan, but I find it takes the water more uniformly whereas when it was dried and on the dry side, in places it became so hard that it was a very difficult matter to moisten it properly to the bottom.

In one of my previous notes I mentioned the gratifying results I had had through using a different soil for certain varieties. If any grower has been anticipating a trial change now is the time to do it.

BRIDESMAD.

PARENT STOCK still exists in perfect condition at the Springwoods Greenhouses. Have also the Bride, Beauty, Vestout, Carnot, Meteor, Queen, and Perle.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

ROSES, GERANIUMS, COLEUS. Cautionally all plants out of stock will have free stock of field plants in the Fall. Strong 9 inch plants of Bride and Bridesmaid Roses, ready to plant...

GEO. M. EMMANS, Newton, N. J. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

FOR SALE...

Bride and Bridesmaid Roses, In 2 and 2 1/2 inch pots, at \$2.00 per 100, or Will Exchange for La France, Hermosa, Gen. Jacquemont, or Edward Ferris.

RUTTLE BROS., Covington, Ky.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

ROSES, ROSES.

800 American Beauties from 4 in. pots, extra fine, A No. 1 plants, \$12.00 per 100, or the lot for \$9.00. Cash or satisfactory reference must accompany order from unknown correspondents.

Oak Park Nurseries, Patchoygoe, L. I. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

LOOK HERE

The following plants are in A1 condition. ROSES, out of 3 in. pots, Bridesmaid and Bride, \$2.00 per 100; \$1.00 per 1000; Meteor, \$1.00 per 100; \$5.00 per 1000.

C. MERKEL & SON, Mentor, Ohio. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

PERLE ROSES.

3 INCH POTS. \$5.00 per Hundred. Cash. EDWIN A. SEIDWITZ, 36 W. LEXINGTON ST., BALTIMORE, MD.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

TEN DEGREES BELOW ZERO

is the temperature that has been undergone without injury by unprotected yearling plants of the new climbing rose

AGLAI A or YELLOW RAMBLER

In our nurseries the past Winter, thus proving it to be even harder than we had supposed. A Hardy Yellow Climbing Rose in what average has wintered for years and Aglai A, therefore, an immensely important introduction.

150 Blossoms in a Bush. The Yellow Rambler for it has the same manner of blooming in the United States as does the Climbing Rambler to which it is a splendid companion rose and probably related.

We are the Introdusers of this rose in this country, having been so appointed by Mr. Peter Lambert, the originator. We are also prepared to offer plants of any desirable climate.

EUPHROSINE or PINK RAMBLER. Color almost red, otherwise very similar to Aglai A.

THALIA or WHITE RAMBLER. Pure white, like Aglai A.

WE WANT EVERY FLORIST to have the above roses, for the benefit of our customers and of everyone who will do so, agreeing to deposit \$1.00 for this purpose.

WE WILL SEND FREE OF CHARGE a list of the above roses, together with the Aglai A, together with 100 handsome descriptive circulars, if you will send us your address stamped upon them. Send at once.

Price for strong plants from 2 1/2 inch pots, \$15.00 per 100. Send for our Free Lists of other Roses and General Stock.

JACKSON & PERKINS CO., Newark, New York. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Grand Results. Your paper gave grand results from its one last issue. C. E. WELLS, Roslindale, Mass., Sept. 7, '90.

NEW HYBRID TEA ROSE

Souy. du.....

President Carnot

ADMIRE BY EVERYBODY.

Of beautiful shell pink color. Nothing like it among forcing roses. Every one should plant it both for in and out-of-door culture. Strong, healthy plants, out of 2 1/2 inch pots, now ready.

Price, \$3.00 per Doz.; \$15.00 Per 100; \$125.00 Per 1000.

50 at 100 Rates. 500 at 1000 Rates.

\$20.00 per 100 out of 3 inch Pots.

ERNST G. ASMUS, West Hoboken, N. J.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

...NEW ROSE...

SOUV. d PRESIDENT CARROT

Strong, healthy plants, from 2 1/2 inch pots, \$15 per 100; \$125 per 1000. Ready now.

MAGNA CHARTA and LURCH BRUNER

Strong plants, from frame, in 6 inch pots. Will flower last of May or beginning of June. \$20 per 100.

IRISH ROSES.

We are the sole agents in America for Messrs. Alexander Dickson & Sons, of Belfast, Ireland. Their Irish Roses are the best stock imported into this country, and Florists desiring high grade Roses for next Fall delivery should write us for varieties and prices.

ROBERT SCOTT & SON,

19th and Catharine Sts., Phila., Pa.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

THE NEW ROSE

PRESIDENT CARNOT

FROM 2 1-2 INCH POTS. \$15.00 PER 100; \$125.00 PER 1000.

EXTRA FINE STOCK. READY NOW FOR DELIVERY.

Mosella, "Yellow Souper," 2 1/2 inch pots... \$5.00 per 100; \$40.00 per 1000
Pink Souper, 2 1/2 inch pots... 5.00 per 100; 40.00 per 1000
Climbing Wootton, a very vigorous climber, a sport from Wootton, perfectly hardy in this latitude... \$10.00 per 100; \$70.00 per 1000
LIVISTONA ROTUNDIFOLIA, 2 1/2 inch pots, \$10.00 per 100

ROBERT CRAIG, 49th and Market Sts., PHILA., PA.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

ROSES

Fine strong healthy stock, 2 inch and 3 inch plants.

CUT ROSES and CARNATIONS always in stock.

H. DALE, - Brampton, Ont. WHEN WRITING MENTION THE FLORIST'S EXCHANGE

ROSES.

Fine Roses from 2 1/2 inch Pots.

Table with 2 columns: Name, Price. Includes Bride, Bridesmaid, Meteor, Mme. Hoste.

TERMS: Cash with order. CHAS. E. SMITH, Cor. Jefferson and Jackson Aves., YORK, PA.

2000 YOUNG ROSES

- 700 BEAUTY, 4 inch.
1000 'MAID, 2 1/2 inch.
1000 BRIDE, 2 1/2 inch.
500 G. GATE, 2 1/2 inch.
750 LA FRANCE, 2 1/2 inch.

READY FOR SHIPPING. CHEAP IF SOLD AT ONCE.

J. R. FREEMAN, 612 13th Street, WASHINGTON, D. C. WHEN WRITING MENTION THE FLORIST'S EXCHANGE

P. OUWERKERK, 1123 Summit Ave., Jersey City, N. J. Just received from our Holland Nurseries:

- RHODODENDRONS, AZALEAS, SPIRÆA JAPONICA, LILIUUM SPECIOSUM, PÆONIES, BLEEDING HEART, POT GROWN LILACS, HYDRANGEA IN SORTS. CLEMATIS and H. P. ROSES, in the best sorts. PRISES MODERATE. WHEN WRITING MENTION THE FLORIST'S EXCHANGE

PHILADELPHIA ROSES

Strictly first-class, clean stock, in 3 inch pots.

... Beauty, Meteor, Bride, Bridesmaid ...

MYERS & SAMTMAN, Wyndmoor, Chestnut Hill, Phila., Pa.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

50,000 BRIDE and BRIDESMAID! 50,000 EXTRA FINE.

From 2 1/2 inch pots... \$2.50 per 100; \$30.00 per 1000
From 3 1/2 inch pots... \$4.00 per 100; \$50.00 per 1000
Fine large 3 1/2 inch GERANIUMS, ready for 4 inch... \$1.00 per 100

TERMS CASH. THE NATIONAL PLANT CO., Dayton, Ohio.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

ROSES. CARNATIONS.

Table with 2 columns: Name, Price. Includes 1000 Pres. Carnot, 1000 Wm. Scott, 10000 Alaska, 6000 SMILAX, 500 ASPERAGUE, 500 NANA, 500 SWANSONA, 1000 CHRYSANTHEMUMS.

Above stock must be moved at once to close out business. Positively cash with all orders.

WM. C. SMITH, 61st and Market Streets, Philadelphia.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

... YOUNG ROSES ...

Fine stock, ready for immediate planting.

CAROLINE TESTOUT and METEOR, 4 inch pots, \$8.00 per hundred.

CHRYSANTHEMUMS.

The best Commercial varieties, 2 1/2 in. pots, \$3.00 per 100; 3 in. pots, \$4.00 per 100.

ROBERT SIMPSON, Jackson Avenue, The John Reid Estate. JERSEY CITY, N. J.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

REINBERG BROS.

Strong, Healthy ROSES From 2 1/2 inch pots.

GOLDEN GATE, PERLE, BELLE SIEBRICHT, METEOR, BRIDE, BRIDESMAID, KAISERIN, LA FRANCE, TESTOUT, \$2.50 per 100; \$30.00 per 1000. No orders for less than 100 of one variety accepted. We are the largest Rose growers in the United States, and can fill all orders with the very best stock.

Remember our stock took First Prize at the Chicago Flower Show.

... CARNATIONS ...

STORM KING, SILVER SPRAY, WM. SCOTT, LIZIE MCGOWAN, LIZZIE GILBERT, ROSE QUEEN, \$1.00 per 100; \$5.00 per 1000. No orders for less than 100 of one variety accepted. Special Prices on large lots. The above stock is well rooted and true from root.

SMILAX, 2 1/2 inch pots, \$1.50 per hundred. 51 WABASH AVENUE, - - - CHICAGO, ILLS. WHEN WRITING MENTION THE FLORIST'S EXCHANGE

Fine Healthy Stock of Brides, 'Maids, . .

. . Perles, Meteors,

From 2 1/2 inch pots, ready for shipping, \$4.00 per hundred.

JOHN HENDERSON CO. Flushing, N. Y. WHEN WRITING MENTION THE FLORIST'S EXCHANGE

Sterling American Novelty, the

WHITE GOCHET

Is a sport from Maman Cochet, which is considered now the best pink out-of-door rose. It has all the good qualities of its parent; its color is pure white in Winter, outside petals slightly tinged in Summer; and no doubt it will prove the best white out-of-door rose up to date. Price, per dozen, from 3 inch, \$4.00. " " " 100, " 3 " \$3.00.

All Orders Must be Accompanied with Cash.

J. COOK, 318 CHARLES STREET, Baltimore, Md. WHEN WRITING MENTION THE FLORIST'S EXCHANGE

SURPLUS ROSES CHEAP!

Table with 2 columns: Name, Price. Includes 2000 Catherine Mermet, 3000 Bridesmaid, 1000 Perle des Jardins, 500 Kaiserin Augusta Victoria, 300 Mme. Jos. Schwartz, 200 Golden Gate, 200 Jeanne Guillemins, 250 Climbing Perle, 200 Elis Faget, 200 Cornelia Cook, 200 Marie Lambert, 300 Bongers, 200 Mme. Etienne, 200 Mme. Olga, 200 Henry M. Stanley, 200 Agrippina, 200 Apolline, 200 Yellow Bamber, 800 Pink Bamber, 100 Yellow Bamber, 5000 Marechal Niel, 2000 Gloire de Dijon, 500 Soufriere, 500 Lamarque, 800 Fortune's Yellow.

MOSS ROSES. Mousseline, Heart Martin, James Veitch, Capt. Berger, Barcho d'auvre, Lanceli Moss, Mme. Eochelambert, Glory of Mosses, Alice Leroy, Profile on Grass, 3 10

PELYNTHA ROSES.

Mlle. Cecil Brunner, George Perpet, Perle d'Or, Mignonne, Pink Souper, 3 00

NANZ & NEUNER LOUISVILLE, KY. WHEN WRITING MENTION THE FLORIST'S EXCHANGE

SEMPLER'S ASTERS

Pink and White, 3-5 per row. (Pink limited.) Annapolis and Vinca var., 2 1/2 in. pots, 40c per 100. Enchirya Avar var., 1 yr., \$1.50 per doz. ...

Surplus Stock.

3000 Geraniums, 4 in. bud and bloom, leading varieties, fine plants at 40c per 100. 200 Geraniums, 2 1/2 in. bud and bloom, ...

EVENDEN BROS.,

408 East Third St., - Williamsport, Pa. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

DARLIAS Strong, field-grown roots, \$8.00 per 100. HIBISCUS Crimson Eye, strong blooming plants, \$5.00 per 100. VINCA Major variegata, strong, 4 inch, ...

HERE THEY GO.

Red Begonia, 2 1/2 inch pots, 40c per 100. 3 inch pots, 50c per 100. Vinca variegata, 2 1/2 inch pots, 40c per 100. ...

BRENE & UNDERHILL, Watertown, N. Y.

It Will Pay You Well to Buy of GODFREY ASCHMANN, 1012 Ontario St., Bldg 24, BALTIMORE, Md.

WHOLESALE GROWER OF BEDDING PLANTS. Hundreds of thousands of plants for the month of October. The following only \$1.00 per 100, taken from 4 inch pots. ...

CHRYSANTHEMUMS

Strong, healthy stock, in 100 c and pot plants. R. Co. \$2.00 per 100 pot plants. \$1.00 per 100. Mrs. F. Bergmann, Merry Monarch, Autumn Bride, ...

THEO. F. BECKERET, NANTULE ISLAND, GREENFIELD, PA. 9 miles below Pittsburg, Pa.

GERANIUMS A. Nutt. best double varieties; 5 inch Wood Glen grand old ones, 2 in. pots, \$2.00 per 100. VINCA N. variegated; Ivy and Silver Leaf ...

CHRYSANTHEMUMS

Best standard commercial varieties, from pots. Mrs. Bergmann, Merry Monarch, ...

JOHN C. EISELE, 22th & Ontario Streets, PHILADELPHIA, PA.

CHRYSANTHEMUMS

Rooted Cuttings, \$2.00 per 100. Pot plants, \$3.00 per 100. Bergmann, Marquis de Montmort, ...

SAM'L J. BUNTING, Elmwood St., PHILADELPHIA, PA.

CHRYSANTHEMUMS

In Endless Variety. Best Varieties in Quantity at Moderate Prices.

MATHAN SMITH & SON, Adrian, Mich. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

500 EXTRA LONG, HEAVY VINCAS

Out of 4 inch pots, \$2.00 per one. ABUTILON variegated, 3 inch pot at \$5.00 per 100. GERANIUMS Brunant, 4 inch pots, fine ...

FOR SALE. VINCA MAJOR VARIEGATA.

Good stock, from 4 inch pots, \$1.00 per 100. GERANIUMS.

Mrs. Sallor, Mrs. Parker, Miss, Dr. Kirkland, Scarlet King, Double White, E. G. Hill, ...

MME. SALLEROI GERANIUMS,

Fine, bushy plants that will please you! 2 1/2 inch, \$5.00 per 100; 3 inch, \$3.00 per 100. A. & F. B. LEWIN, Newark, Ohio.

50,000 CALIFORNIA VIOLETS

Extra large, double, and single, in all colors. Ampelopsis Veitchii, strong, dormant, one year old plants, 2 1/2 to 3 in. high, \$3.00 per 100.

GLEMATIS MISS BATMAN—one of the best late developed with fine ...

W. H. SALTER, Rochester, N. Y. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

GROW PLANTS IN "Jadoo" Fibre.

WATER THEM WITH "Jadoo" Liquid. JOHN A. DOYLE, Springfield, Ohio.

NEW HYDRANGEA OTAKSA MONSTROSA

This variety is an improvement in all existing sorts and bears flowers of immense size. Nice branching plants in 3 in. pots, \$3.00 per 100.

JOHN A. DOYLE, Springfield, Ohio. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

CROTONS.

Fine plants, mostly large and good sorts, from 3 1/2 and 5 1/2 inch pots, at \$12.00, \$15.00 and \$20.00 per 100.

FOR CARPET BEDDING. Bedon carnea var.; Alternanthera, red and green; ...

EDW. D. DROWN, - Weldon, Pa. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

WYRTHE

5000 Extra Large Clumps of Myrtle. F. A. BOLLES, East 10th St., Lawwood, Brooklyn, N. Y.

AMPELOPSIS VEITCHII

Strong, healthy, young plants, \$1.00 per 100. Celeste Vereschaffli and Golden Brdner, ...

EVERETT INSALL, Hackensack, N. J. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Marie Louise Violets, Rooted Runners

\$4.00 per 1000, cash with order. E. B. SUTTON, Jr., P. O. Address, Babylon, L. I., N. Y.

TOLETS IN SPECIALTY.

On and after March 1st I will be ready to supply, in any quantity, stock of the following varieties: PRINCESS DE GALLES, ...

PRINCESS DE GALLES, LA FAVORITE, LUXONE.

California. All from good plants, rooted runners. Five French Medals; two American Medals; three Diplomas ...

Send in your orders now. Cash with order or satisfactory reference. F. ERD. BOULON, Sea Cliff, L. I., N. Y.

DAISIES

Finest strain, large clumps in bloom, \$1.00 per 100, \$3.00 per 1000.

PANSIES

Unsurpassed for size, color and blooming. Plants in bloom, 25c per 100; \$4 per 1000.

J. C. SCHMIDT & CO., Bristol, Pa. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

GERANIUMS.

4000 Double Gent. Grant, 4 inch pots, all in flower \$1.00 per 100. Asaratum, Regonia Vernon, and Silver Leaf Geraniums, \$5.00 per 100. Cash with order.

Mrs. M. A. KRUSCHKA, Lawrence, L. I., N. Y. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Pansies Worth Raising.

Blooming plants or plants in bud, from \$10.00 per 1000 up. Full value given in every case. Cash with order. All shipments free on local orders.

C. Soltan & Co., 199 Grant Jersey City, N. J. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

BEDDING PLANTS.

\$2.00 per 100. Coleus, Golden Soldier, Red Vereschaffli and Fire Brand. Golden Feverfew.

J. & W. LEACHI, Cor. DeBoise & Ditmars Aves. L. I. City, N. Y.

ALTERNANTHERA.

Strong, pot grown plants, ready for planting; ...

A. J. BALDWIN, Newark, Ohio. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

ROOTED CUTTINGS.

CASH PRICES. Chrysanthemums, standard and new, named roots, ...

39, F. F. Y. 2125, Railroad Ave. and Hill St., BROOKLYN, N. Y. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

GERANIUMS.

out of 4 inch pots, large fine plants. DOUBLE GENT. GRANT, BEAUTY POITEVINE, MONTASQUE, LA FAVORITE, besides many other sorts. \$6.00 per 100. Cash with order.

S. J. REUTER, Westery, I. I. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

May 29, 1897.

# CARNATIONS.

## Experiments with Carnations.

The twentieth annual report of the Experiment Station contains an account of some experiments in carnation culture to ascertain the most economical fertilizer. One plot was filled with common compost, to which was added 29 grams of nitrate of soda, 10 grams of superphosphate and 12.25 grams of dissolved bone black. Another plot was filled with three-fourths of a bushel of fish three per cent. of moist peat and 50 grams of carbonate of lime. Chemical analyses showed as follows: Nitrate of soda, 58 grams; muriate of potash, 29.5 grams; dissolved bone black, 24.2 grams; that being double the quantities applied in the first mentioned plot. Another plot was filled with ordinary

My experience with Jadoo is that all kinds of plants make twice as many roots in it as they do in earth; in fact, I think it would be hard to say what would not grow in it.

I used it last year on some rose plants and so satisfied was I with the results that this year I have used nothing else but Jadoo. It saves a great deal of watering. In using it I find it almost impossible to not to firmly. If the fibre is dry I always dampen it; you can not firm by doing this. I find good drainage to all plants.

It is very good to mix charcoal and sand with it. Give the plants a good watering after potting and subsequently be very careful not to overwater, for if you do the plants will stand still and go back.

If used in a right way and at the right time the liquid will speak for itself. It is a simple article to use, but like many other new things you must understand something about it before you get the best results.

HARRY PAPWORTH

The plants were raised from cuttings taken in January. These were duly potted and in May set in the open ground, where they remained until September, when they were set in five-inch pots and set in the ground for two or three weeks and then removed to an unheated vegetation house. December 14 the plants were transferred to the forcing house plots.

Up to this time all flower buds had been pinched off, but the plants were now allowed to make single blossoms, the extra buds being removed. The plants were of three varieties—Day-break, Lizzie McCowan and Garfield.

The result of the experiments proved that the plants raised in coal ashes and peat, with fertilizer chemical and natural, both the number and the average diameter of the flowers may be considerably greater than in any other soil. The whole of the plant food is supplied by soil or manure. Thus, in one experiment, the number of flowers raised in coal ashes and peat was more than three-eighths larger than that raised on compost, coal ashes alone, or with fertilizer, chemical.

## A Twice-Bearing Strawberry.

We are in receipt of a circular from T. W. Lashburn, of Wesley Heights, Washington, D. C., setting forth the merits of a new French strawberry. Among other qualities mentioned are its enormous size and twice-bearing habit by means of its runners. It is no larger than the Louis Gauthier, and as is known, the berry has not been fruited in this country, but the Revue horticole de Paris writes: "The Louis Gauthier originated with M. L. Gauthier, gardener to the Chateau de Neuville (Cayenne), France. It becomes to maturity on the last of May.

The growth habits of the plant are extremely vigorous. Early in the season the stems remarkably long, leaves medium size, velvety, very round, of a beautiful green above and white beneath, and with profuse nerve webs. The flowers are large and perfect, extending well above the runners, and are of a quiet. The fruit is borne on a long stout fruit stalk. Calyx well developed, with numerous serrations. The seeds are of the fruit, which is large and cone-shaped. Its color is light rose, shagreened seeds pale. The fruit is flavo-alaricaded, perfumed and juicy. This beautiful fruit has been given to me by M. Louis Gauthier and is a cross between the Alpine perpetual, La Belle de Meaux, and the Louis Gauthier. Its dominant qualities are: First, uniform enormous, hundred and sixty berries having been counted on one plant; third, a large size; fourth, a large size, surpassing that of Docteur Moreau."

## Jadoo Fibre and Liquid.

I think I was one of the first to try these substances in America. I have used them on almost every kind of plant that will do so, from geraniums to orchids. Everything potted in the fibre comes fully and very rapidly. The growth is very rapid, the colors in flowering plants being much brighter than those seen in the open soil. Ferns do well in it. They grow very quickly and make very long fronds.

blooms, and the stripes of brown were in some cases a quarter of an inch wide on each of three petals. No such trouble was experienced with the plants in the light which had passed through the pane of glass. The earliest flowers appeared on plants in the naked light, and in this section they lasted the average nine days. Four days later the plants in the section flowered and lasted here nine and a half days. The plants in the unlighted section were nine days later than those in section two in coming into blossom, but the flowers, though slightly smaller lasted seven days and were more robust. The flowers in the lighted sections, like the plants which bore them, were spindling but not unsightly, excepting those which were burned.

A plant with two remarkably evenly developed stems was taken from the unlighted section, and so placed that the curtain could be drawn between them, the one stem being out in the unlighted section, the other among the plants behind the pane of glass in section two. A second twin-stemmed plant was also taken from the unlighted plot and placed in the naked light, but the larger of the two stems was covered each



Sketch Showing Method of Greenhouse Heating without Boiler Cellar.

## L. Harrison and the Electric Light.

At a recent meeting of the Horticulturists' Club, of Cornell University, M. G. Keim presented notes of experiments made with the Easter Lily. As to the effects of the electric light in its cultivation, he said that the bulbs were potted the middle of October, plugged in a solid bed late in December, and the electric light turned on January 15. At each night before the lamp was burned from 5 P. M. until 6 A. M. for the following four months. The bed was divided into three sections. The first was exposed to the full glare of the naked light; in the second, the light passed through a large pane of ice which cut out some of the ultra violet rays, but did not impede the passage of the light; the third section was separated from the light by a black canvas curtain, which was drawn across at 8 A. M. Each night the bed was lighted. When the light was first turned on, the plants were of uniform development, but in six weeks changes appeared in the foliage, which gradually became more pronounced. The plants in the lighted sections grew very tall and spindling, had long peduncles, narrow and shallow leaves, very much curved leaves far apart on the stems. These effects were most apparent under the naked light. The plants in the unlighted section were more robust, had deep, glossy green leaves, and, on the whole, more evenly developed. After the buds were formed these differences did not become more pronounced, but the buds under the naked light began to show a dark brown streak on the surface most exposed to the direct rays from the lamp, and this turn increased as the buds grew and expanded into blossoms. The seared petals were much more curled than is ordinarily the case with healthy

night with a tube of manilla paper to exclude the light entry. In each case the stem in the light blossomed a day before the other stem. Some other plants of various descriptions were mentioned as a part of them removed to the lighted sections, the others being left in section three. The former blossomed seven days before the latter, the last blossom in the former group being three days earlier than the first blossom in the latter group. The blossoms were perfectly healthy and lasted as long as those in the lighted section. From the experiments it is concluded that it will probably pay commercially to use electric light in cultivating Lilium Harrisoni when the buds are an inch long, in order to hasten their expansion, and that the light must pass through glass to avoid burning the petals.—Garden and Forest.

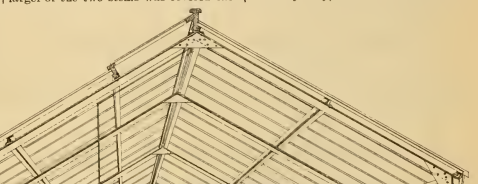
## CHANGES IN BUSINESS.

**Hawley, N. J.**—William Saling, of Harrison, N. J., has sold to his son, John William Saling, the retail portion of his extensive flower trade. The salerooms are at the corner of the rear corner of Harrison and Church streets.

**Essex, N. H.**—George W. Hilliard has admitted into partnership his manager, Hildner Harrison. The style of the new firm will be Hilliard & Harrison. Brown & Warren are building for the new firm four greenhouses, each 22x34 ft. and 14 feet in height. These will be devoted principally to American Beauty and the palm house of 20x100 feet and a brick boiler house will also be erected. Two thirty-horse power Excelsior boilers will heat the entire plant.

## Greenhouse Heating Without Boiler Cellar.

In our mail and the trade papers, we often meet the inquiry how to heat greenhouses in localities where cellars are impossible to build or keep dry, are impossible to build or keep dry, are impossible to build or keep dry. The accompanying sketch will solve the trouble. The boiler is set the depth of its base below grade; the flow pipe rises above head room and ascends to the far end of the house, where it is vented as shown. From this point, the heat pipes descend back to the boiler, in location and number as required. The expansion tank is set in shed above the boiler and connected to flow pipe. This expansion tank will also act as air vent if the flow pipe descends from that point. The flow pipe can be insulated if the overhead heat is objectionable. Valves placed on the pipe will stop or check the flow in all other methods. D. E. HOWARTH, Jersey City, N. J.



## Minneapolis.

E. Nagel & Co. have a nice store and trade in a good locality. Their greenhouses on Lake Street are well filled with good bedding stock, geraniums predominating. A single scarlet, with an immense trunk, called Engineer Cleveland, is grown here quite largely and is particularly good. Our trip took us to the houses of the Lakewood greenhouses, located near the city. These are managed by W. Hartman and were rebuilt and rearranged by his last year. The houses, eight in number, contain about fifteen thousand square feet of glass, are light, clean and airy, and are well heated. These are devoted to growing roses, two to carnations and the balance to general bedding stock. The carnations—some 12,000 in number—are very fine. A new single scarlet, I have forgotten the name of, is a decided acquisition to our list of good bedding varieties, truss very large, stems strong, petals very large and of a pure scarlet color. He also grows S. A. Nutt to perfection and has a fine stock of a double Daybreak pink.

R. J. S. Wessling's range of houses was erected last year. One house, 20x24, is devoted to carnations. Four smaller ones are given up to roses and bedding plants. His Beauty were looking exceptionally fine—some stems being at least four feet in length. At Fair Oaks, Seneca, Washburn's home, we saw some bananas in fruit. The houses are run by Gust, Malmoquist and are well stocked with bedding plants. His strain of single petunias is among the finest ever grown here.

SPRING SEEDING STOCK.

GERANIUMS, all colors, best varieties, 4 inch pots, \$8.00 per 100.

Coleus, Vinca Vines, Alternanthera, Feverfew, Rose Geraniums, Ivy Geraniums, German Ivy, Mme. Salleron Geraniums, Double Alyssum, Myrtle, for graves, Verbenas, all colors, etc.

YOUNG ROSE STOCK.

Bride, Bridesmaid, Perle, Meteor, Belle Siebrecht, at \$3.00 per 100, 2 1/2 inch.

CARNATION CUTTINGS.

STRONG PLANTS, FROM SOIL.

Ivory, Wm. Scott, Rose Queen, Daybreak, Goldfinch, Albertini, Tidal Wave, Garfield, Portia, \$2.00 per 100.

We are HEADQUARTERS for CUT FLOWERS.

SHIPPING TRADE OUR SPECIALTY.

WIRE WORK. GET OUR PRICE LIST AND SAVE MONEY.

HELLS & POLLWORTH, MILWAUKEE, WIS.

BOX 75.

WHEN MENTION THE FLORIST'S EXCHANGE

2c. GERANIUMS 2c.

Nice well foliated plants, from 3/4 in. pots, in splendid shape, the very best varieties.

Per 100 BEGONIA REX, in good assortment \$3 50

COLEUS, best varieties, 2 1/2 inch pots, 1 50

FEVERFEW, Little Gem, 2 1/2 inch pots, 2 00

UMBRELLA PLANT, 2 1/2 inch pots, 2 50

CARNATIONS, well established pot plants in the following: McGowan, Fred Dorner, Mrs. Harrison, Wm. Scott, Elizabeth Revett, Mrs. G. W. Adams, 2 1/2 inch pots, 1 50 per 100.

PANSIES, Strong transplants, grown from selected seed, 75c. per 100 \$6.00 per 1000.

Cash with order.

JOHN A. DOYLE, SPRINGFIELD, OHIO.

WHEN MENTION THE FLORIST'S EXCHANGE

20,000 ASTERS.

Truffant's Perfection, 4 colors.

Victoria Perfection, 4 colors.

Simple's Strain, 4 colors.

Also Yellow Quilted.

Per 100, high 75c.; per 1000, by express, 45c.

JEWEL or BALL ASTER, new, 2 inch pots, \$2.00.

30,000 SMILAX, from 2 inch pots, per 100, \$1.50; per 1000, \$13.50.

Cash with order, please.

GEORGE J. HUGHES, Berlin, N. J.

WHEN MENTION THE FLORIST'S EXCHANGE

Our Latest and Greatest Bargain Offer.

Geraniums, all the best varieties, Fuchsias, Heliotropes, in bloom all named, 2 1/2 and 3 1/2 inch pots at \$2.00 and \$3.00 each. Geranium, blue and white, dwarf, Verbenas, Coleus, Cuphorbia, Daisy, Feverfew, Flowering Begonia, Salicidal Geranium, etc., 2 1/2 in. pots, \$2.00 per 100; Swainsona alba, Geum canadense, 2 1/2 in. pots, Marie Louise Violet, large Clump Iris, \$3.00 per 100; Chrysanthemums, leading varieties, 2 1/2 in. pots, \$2.00 per 100; 1000 English Ivy, rooted cuttings, strong, \$1.75 per 100; French cactus, see next.

BREENE COUNTY FLORAL NURSERY, White Hall, N.Y. WHEN MENTION THE FLORIST'S EXCHANGE

ENGLISH IVY.

2 yr. old, \$8.00 per pair, 1 yr. old, \$5.00 per pair. Strong rooted cuttings, \$3.00 per 100.

VERBENAS.

2 inch pots, \$1.50 per pair.

J. H. DANN & SON, Westfield, N. Y. WHEN MENTION THE FLORIST'S EXCHANGE

CLEMATIS.

In pots, good plants, \$2.50 per doz., \$20.00 per 100. Fine, heavy, home grown plants in twelve choice named varieties, \$2.00 each, \$4.00 per doz., \$20.00 per 100.

SMILAX Strong plants from last year, 2 1/2 in. pots, \$1.25 per 100. Transplanted, \$1.00 per 100, \$1.00 per 1000.

F. A. BALLER, Bloomington, Ill. WHEN MENTION THE FLORIST'S EXCHANGE

Rooted Cuttings

COLEUS—70 varieties, 6 cents per 100 by mail; \$4.00 per 100 by express.

MYOIOSIS—\$2.00 per 100.

GIANT DOUBLE ALYSSUM—70 cents per 100 by mail; \$5.00 per 100 by express.

WM. H. SEARCH, Avondale, Chester Co., Pa. WHEN MENTION THE FLORIST'S EXCHANGE

HEBESUS

Twelve varieties, \$2.25 per 100; \$25.00 per 1000. By mail, 25c. per 100 additional.

TERMS CASH WITH ORDER.

R. H. MURPHEY, Urbana, Ohio.

WHEN MENTION THE FLORIST'S EXCHANGE

GERANIUMS, SMILAX,

BEGONIAS, CHRYSANTHEMUMS.

Good 4 in. Geraniums, 100 \$70.00

" 2 " Begonias, 100 20.00

" 2 " Chrysanthemums, 150 30.00

35,000 Good Smilax, 2 1/2 in. pots, 2.50 15.00

BETSCHER BROS., Canal Dover, O.

WHEN MENTION THE FLORIST'S EXCHANGE

SPRING STOCK—SPECIAL.

Geraniums, single Al varieties, single and double, 2 1/2 inch pots, \$1.00 each. Marie Louise Violet, 2 1/2 inch pots, \$2.00 each. French cactus, 2 1/2 inch pots, \$1.00 each. English Ivy, 2 1/2 inch pots, \$1.00 each. French cactus, 2 1/2 inch pots, \$1.00 each. English Ivy, 2 1/2 inch pots, \$1.00 each. French cactus, 2 1/2 inch pots, \$1.00 each.

ALEX. NICHRIDE, Alpina, N. Y.

WHEN MENTION THE FLORIST'S EXCHANGE

DON'T GET LEFT

But Get Your Orders in for Rooted Cuttings. For 1000 Coleus Verachaffelt and Golden Queen, \$6.00

POTTED PLANTS.

For 1000 Fuchsias in variety, 4 inch pots, \$3.00

J. E. PELTHOUSEN, Schenectady, N. Y. WHEN MENTION THE FLORIST'S EXCHANGE

HEADQUARTERS FOR

AZALEA INDICA. Specially grown for American trade, from 8 to 15 inch diameter, \$15.00 to \$5.00 per 100.

ROYAL NURSERIES, Ghent, Belgium.

WHEN MENTION THE FLORIST'S EXCHANGE

FINE VERBENAS IN BUD

PLANTS IN BUD

Many Fine Varieties added to Our Collections.

Best Hamamoth, per 100, \$2.00; per 1000, \$20.00

Local Collected, 75c.

ROSES.

American Beauty, 2 1/2 inch pots, per 100, \$10.00

and all the best varieties, per 100, \$2.00

Hydrangea, 2 1/2 inch pots, per 100, \$2.00

and all the best varieties, per 100, \$2.00

CHRYSANTHEMUMS.

For Varieties and Prices, see April 24th issue.

STRONG ROOTED CUTTINGS.

Coleus, Verachaffelt, Golden Borden, \$4.00 per 1000

Mrs. Fiever, true, 2 1/2 inch pots, \$2.00 per 100

MISCELLANEOUS PLANTS.

Ready for immediate sale. 100

Alternanthera, all leading varieties, \$2.00

Agrostis, blue and white, \$2.00

Aster, 2 1/2 inch pots, \$2.00

Coleus, leading sort, 2 1/2 in. pots, 2.50

Geraniums, double and single, 2 1/2 in. pots, 4.00

Hellebore, from 4 to 6 inch, 2.00

Ivy, fine variety, 4 inch, 2.00

Hydrangea Quaker, 2 1/2 in. pots, 2.00

Fuchsias, double and single, 2 1/2 in. pots, 2.00

Mock Orange, 2 1/2 in. pots, 2.00

Polegionia, 2 1/2 in. pots, 2.00

and all the best varieties, per 100, \$2.00

Violets, Marie Louise, 2 1/2 in. pots, \$5.00 per 100

and all the best varieties, per 100, \$2.00

New Trade List on Application.

WOOD BROS., Fishkill, N. Y. WHEN MENTION THE FLORIST'S EXCHANGE

GOOD STOCK

Table listing various plants and their prices per 100, including Abutilon, Acalypha, Alyssum, Begonia, Chrysanthemum, Cyclamen, Fuchsia, and Geraniums.

Table listing various plants and their prices per 100, including Geraniums, Honeysuckle, German Ivy, Geraniums, and Strobilanthes.

Table listing various plants and their prices per 100, including Geraniums, Honeysuckle, German Ivy, Geraniums, and Strobilanthes.

Cash with order from unknown customers or C. O. D. Orders amounting to \$5.00 and over, F. O. B., N. Y. City.

SEAWHAK GREENHOUSES OYSTER BAY, QUEENS CO., N. Y.

JAS. C. CLARK, Supt. P. O. BOX 34. WM. L. SWAN, Prop.

WHEN MENTION THE FLORIST'S EXCHANGE





## Exclusively a Trade Paper.

Entered as New York Post Office as Second Class Matter

Published EVERY SATURDAY by

A. T. DE LA MARC, Ptg. and Pub. Co. LTD.,

2, 4, 6, 8 Duane St., New York,  
P. O. Box, 1077. Telephone 2154 COrtland

REGISTERED CABLE ADDRESS  
(Commercial Cable) Florer, New York.

**SUBSCRIPTIONS:**  
\$1.00 per year to United States, Canada and Mexico. \$2.00 per year to foreign countries in postal order. Failure in advance.  
New subscriptions will commence with the number after receipt unless otherwise ordered. Back numbers can be supplied when wanted.  
The name on address label shows when the subscription expires and in the subscriber's receipt. No other receipt is sent.

**ADVERTISEMENTS:**  
Copy must reach this office not later than Thursday in order to secure insertion in issue of the following Saturday.  
Rate, \$3.00 per line. Special positions extra. Discounts on contracts of one month or more.  
Orders from unknown parties must be accompanied by cash or satisfactory references.

## Contents.

BIRTHS, ETC.	538
CARNATIONS	538
CARTOR BEAN PLANT, ANALYSIS OF	636
CATALOGUES RECEIVED	627
CHANGES IN BREVETS	627
CHRYSANTHEMUMS	536
CORRESPONDENCE	626
GREENHOUSE HEATING WITHOUT BOILER	531
GRASSES	627
GVEY MOths, THE	534
JAPANESE LIQUID AND FIBRE	534
LILLIUM HARBISH AND ELECTRIC LIGHT	534
MISS DEWEES, THE	534
MUSCOT BOTALANIC GARDEN	534
OBITUARY	534
Robert Owen	534
PAPER PLANT	534
QUESTION BOX	534
RIGHTS OF PROPERTY OWNERS	624
ROSES	534
TRADE REPORT	627
STRAWBERRY, A TWICE-BEARING	534
TRADE PAPERS AND NOVELTIES	534
TRADERS NOTES	624
Middlesex	534
New York, St. Paul	534
Boston, Philadelphia	534
Cleveland, Pittsburgh	534
St. Louis, Toronto	539
Chicago, Knoxville	540
Baltimore, Cincinnati	545

## For the Busy Man.

Robert Owen, the well-known English chrysanthemum grower, is dead.

Hailstorms visited Tennessee, and Western Pennsylvania, the latter very destructive.

There is talk of organizing a wheelmen's club among the St. Louis rollers.

Lavender-colored roses have been seen in the mountains of Philadelphia.

Outdoor carnations around Cincinnati, owing to incursions of weather, are in bad shape.

A late and light harvest of European seeds is anticipated. Lima beans are having a large sale.

Fewer varieties of roses will be planted by Philadelphia growers this season; Beauty will supply the bulk.

The plan of placing out flowers of precocious outdoor plants, such as geraniums, is meeting with much success in Chicago.

A plant of chrysanthemum, Mme. Bergmann, having a well-developed flower, was introduced into Cincinnati by a Kentucky grower last week.

Brooklyn magistrate has decided that a lot owner has a right to cut the roots of a neighbor's tree which drop into his way (the lot owner's) property.

Large quantities of mildewed roses are arriving in the markets of the principal cities, caused by the very changeable weather now experienced here and there.

The brown-tailed moth, a pest which does much damage to fruit trees, has made its appearance in Massachusetts. Endeavors to exterminate the gypsy moth have already cost the State \$700,000.

A report on the disease of Lilium Herveyi will be issued shortly by the Pathological Institute and the Department of Agriculture. It is believed that means of prevention can be adopted with reasonable hope of success.

## Caution.

DANIEL W. CRANE, formerly of Soldiers' Home, Los Angeles County, Cal., has been appointed as the publisher of this publication, and the publishers will not hold themselves responsible for any claims or demands in settlement of subscriptions or advertising.

## Rights of Property Owners.

A case of considerable interest to contiguous property owners has just been decided in the Brooklyn Police Court by Magistrate Teale. The roots of an alantus tree growing in a Brooklyn back yard, and which had crossed the boundary line of the tree owner's lot and entered that of his immediate neighbor, from these roots a sprout had sprung up which, it was alleged, proved a detriment to the neighbor's flower garden, and he proceeded to sever the roots to the point where they first entered his property. The tree owner called his neighbor of having poured vitriol on the remaining portion of the tree beyond his fence, and that the original tree was dying in consequence; but this was denied. After hearing the evidence, the magistrate ruled that the adjacent property owner had a right to cut off the roots of the root that had come into his lot.

## The Gypsy Moth.

Endeavors to exterminate this pest have, since 1830, cost the Massachusetts State Board of Agriculture \$70,000.

Professor C. H. Fernald, of the board, in an interview, is reported to have said that the cost afforded by the gypsy moth is about two hundred square miles. They are in about twenty towns in Massachusetts, and this territory has been attacked from the outside till about half the area has been cleared of infestation, as estimated by Professor Fernald, would be \$200,000 each year, for five years; \$100,000 yearly for another five years, and about \$15,000 yearly for the third five years. The moth eats everything of a vegetable nature, and it is investigated the matter farther this summer at the Secretary of Agriculture, Washington, and if his report is satisfactory the burden of the work may be taken up by the nation. If pursued carefully, Professor Fernald says, the war against the moth may be completed within the lifetime of the twentieth century, so that nothing but future importation, need be feared.

## Missouri Botanical Garden.

Dr. Trelease has issued a circular letter calling the attention of botanists to the facilities for study afforded by the Missouri Botanical Garden—facilities as regards library, herbarium, etc.—and as regards the facilities for study of other similar institutions in America. These, the doctor says, are freely placed at the disposal of any botanist, amateur and other persons competent to carry on research work of value in botany or agriculture. The only such simple restrictions as are necessary to protect the property of the garden from injury or loss. Persons who wish to make use of them are invited to correspond with Dr. Trelease, at St. Louis, Missouri, for full details as to the outfitting with as much detail as possible, the work they desire to do at the Missouri Botanical Garden. The original work are requested to state their preparation for the investigation they propose to undertake.

## Trade Papers and Novelties.

Our good friend, Mr. Hill, in his generous and patriotic spirit, in last week's issue, page 509, makes some what paradoxical statements. In one breath he compliments the newspaper reports of exhibitions of novelties by placing them on an equal footing with the certificates printed by the International Society experts in the matter of being powerful commercial factors in

promoting the sale of a new variety. While in the most he goes on to state that the average press reports are of no value at all, because in them everything is praised and nothing criticized.

This latter contention exists in Mr. Hill's own mind, and he evidently believes the quotation he cites—that "a party would just as soon offer a good customer a piece of lead as a piece of gold to offend a good advertiser," which quotation, he says, he has seen "in one of our trade papers."

Any trade paper making such an assertion as Mr. Hill quotes must satisfy a customer who is not a little snooty, and without the courage of its own conviction.

Friend Hill, if he concurs in the sentiment of the sentence he quotes, must have a very exalted opinion of the "good advertisers." They must, according to the view expressed, be a petulant class of mortals if adverse and honest criticism of their exhibits will offend them! On the other hand, their integrity must be at a low ebb if they would allow to go unquestioned any printed recommendation of their exhibits. It is a pity that the "good advertiser" will ever object to, or be offended by, honest, adverse criticism.

As far as The Exchange is concerned, we are ready and willing at all times to express fearlessly and openly our views on the merits of a novelty, to affect "good advertisers," just as readily as we would express them on matters of common concern to all "good advertisers, or no advertisers at all; why shouldn't we? No right-thinking, honest advertiser, or "advertiser" will ever object to, or be offended by, honest, adverse criticism.

As far as the Exchange is concerned, we are ready and willing at all times to express fearlessly and openly our views on the merits of a novelty, to affect "good advertisers," just as readily as we would express them on matters of common concern to all "good advertisers, or no advertisers at all; why shouldn't we? No right-thinking, honest advertiser, or "advertiser" will ever object to, or be offended by, honest, adverse criticism.

And while we hope and trust that press reports are, and will continue to be, of great value to us, we do not feel that the trade will look up to the national society as the highest tribunal in determining the value of novelties, and thereby acting as a guide in all their dealings; and it behoves that so far as the trade is concerned, it be relied on that the certified reports of bodies of experts, for the reason that the "introducers" establishments information, in nine cases out of ten, not in the possession of the adjudicators at all.

And while we hope and trust that press reports are, and will continue to be, of great value to us, we do not feel that the trade will look up to the national society as the highest tribunal in determining the value of novelties, and thereby acting as a guide in all their dealings; and it behoves that so far as the trade is concerned, it be relied on that the certified reports of bodies of experts, for the reason that the "introducers" establishments information, in nine cases out of ten, not in the possession of the adjudicators at all.

Meanwhile, The Exchange will continue to do its best to advise our representatives as they see, despite Mr. Hill's implied thrust that the disapproval of a good advertiser will muzzle the press and prevent its speaking the truth; in other words, that advertising purposes will act as a bribe and incentive to the promulgation by the press of false or misleading information.

## OBITUARY.

Robert Owen.

Robert Owen, Maidenhead, England, died while at work in his greenhouse on Sunday, March 27, 1905, at the age of seven years and he had been suffering from heart disease.

Mr. Owen was well known as a chrysanthemum grower. He introduced many new varieties, and was successful and succeeded in raising quite a number of first-class exhibition sorts of roses, and also of the type, and which then Robert Owen, Viscountess Hamilton and Rose Wynne. His nursery was at Maidenhead, and he was wholly devoted to the raising and growing of new varieties.

## New York.

### Wholesale Market.

The depression noted for the past two weeks has been the supply of stock has lightened very considerably, but even that has failed to help matters. From present appearances the improvement now to be expected for Decoration Day; and should the apparent curtailed supply of holding stock in the market, a holiday appointment is in store for such shippers. Matters in the market are in line with the advent of June, as there is a prospect of a considerable number of weddings and other social occasions. Lilac is abundant this week, the largest shipments coming from Newport, R. I. The market commenced shipping to this market Friday.

Peonies are very plentiful, as also are carnations and geraniums.

Some funeral work and a fair proportion of steamer work, comprised the bulk of the week's business.

### The News.

Emil Le Moutl appeared in court this week to testify against a man who has been making a mark of city florists. His motion operandi was to order \$2 to \$3 worth of goods, and to order the man to pay 75c. over the amount, thus obtaining the difference. The checks proved to be forged, and the man was ordered to pay the money of Mr. Le Moutl and the police, was indicted on Wednesday.

A burglar who had a narrow escape from bleeding to death, recently, owing to a hemorrhage, caused by the extraction of a tooth, is now fully recovered, and at work again.

Burglars tried to enter the residence of Mrs. J. H. Hoback last night, but on Monday morning last. The burglar alarms worked properly and opportunely, and Mr. and Mrs. Hoback were quickly on the alert with guns, but the marauders escaped. This is the second attempt made to burglarize the house within a year.

W. H. Siebrecht, Astoria, N. Y., together with his wife and daughter and daughter, Isabelle Siebrecht, sailed on the S. S. Massaud, Saturday, May 15, for a trip to Europe. The party will be accompanied by some beautiful floral pieces were seen here in the names of the departing tourists.

John J. Madae, of the Madae estate takes place before the Chancellor, on Tuesday next, at Jersey City, N. J.

Owing to the holiday (Monday) W. Elliott & Sons will not sell on Tuesday and Friday. The only sale for the week, R. M. Gardner & Co. will also add the same day. The Co. will sell Tuesday and Friday as usual.

A bill was presented at Albany, N. Y., by the Governor, to go into effect June 15, requiring all auctioneers in this city to furnish bonds for \$2000, or more if desired by the Comptroller, also to take out a license from the Mayor at a cost of \$200.

The receiver of the National Waterproof Fibre Company has presented a petition to the court asking for a sale of the property and assets of the company in his hands for \$650, and will on Tuesday, June 13, appear before the Court, at Chancery Chambers, 765 Broad street, Newark, for an order to make the property and assets of the company to be presented at that time.

J. J. Van Waveren, of Hillsdale, Holland, has been successful in securing a patent on June 2. He has had a successful business trip through the United States.

The well-known greenhouse establishment, of the late Mrs. W. Kingdon, N. Y., were in town this week.

The well-known greenhouse establishment, of the late Mrs. W. Kingdon, N. Y., were in town this week.

## St. Paul.

Prots Hinder Outer Work.

The protracted drought has been broken by a long snow and bed-ding-out work is progressing finely. Severe frosts, however, have deterred work by bringing snow, and with the thermometer hovering near the freezing point, cautious planters are not hurrying to get under stock.

For Decoration Day.

Decoration Day trade promises well and shipping is going on very freely. Lilacs and snowballs are about the only outside stock in bloom, and the market is very active. Many have made their appearance and will help out in nice shape. A few sweet peas, and carnations are coming in readily. Roses and carnations are in good supply and of good quality.

Club Festival.

The annual social event of the year at the Boston Gardeners and Florists' Club is the strawberry festival, and this season it bids fair to exceed in...

Around Town.

The concern of Doogue & Co. 288 Boylston Street, Boston, has been retired from the retail cut flower business.

The rhododendrons are coming into bloom and James Conley is said to have a fine show at the Hayes estate in Lexington.

At the special meeting of the Massachusetts Horticultural Society, on Saturday last, it unanimously voted to ratify the action of the Finance Committee in compromising the Hayes estate.

John H. Becker, the genial Cambridge florist, has recently returned from a fourteen months' visit to his home near Mainz, Germany.

Alfred Dimmock, representing Sander & Co., arrived in town Wednesday.

Society's Exhibition.

The good exhibition was presented at Horticultural Hall on Saturday last. Prizes were offered for herbaceous plants in all quantities.

The bowlers met last week and perfected an organization. So far it has numbered twenty-five members.

Prospects for Decoration Day.

Decoration Day prospects seem bright, inasmuch as the weather on Thursday afternoon, the only drawback is the cold, drizzling weather.

Not much has been said of this organization lately, but they are just as much in evidence as ever, holding their Club Shrubs, which is most in demand.

John K. M. Farquhar expects to leave at an early date for a pleasure trip to the Gulf States with his camera with him, and we hope to hear an interesting stereopticon description of his return.

Market Improves.

A slight improvement is noticed in the cut flower market. Prices have not advanced, but flowers are scarcer and the market is cleaned up better than it has been for some weeks.

Carnations, while yet very plentiful, do not sell well, owing to so many poor flowers being sent in. Unless sold the day of arrival they are practically worthless.

While there has been a fair business done in small plants, it has not been up to those to be expected.

The tendency to plant few varieties of roses is more noticeable than ever.

The florists' board of trade, under the leadership of C. S. Loder, secretary of this association, spent several days in this city.

Decorations Day business is very promising, orders having been already placed for large quantities.

Decorations Day business is very promising, orders having been already placed for large quantities.

Decorations Day business is very promising, orders having been already placed for large quantities.

Decorations Day business is very promising, orders having been already placed for large quantities.

Decorations Day business is very promising, orders having been already placed for large quantities.

Decorations Day business is very promising, orders having been already placed for large quantities.

Decorations Day business is very promising, orders having been already placed for large quantities.

Decorations Day business is very promising, orders having been already placed for large quantities.

Decorations Day business is very promising, orders having been already placed for large quantities.

Decorations Day business is very promising, orders having been already placed for large quantities.

Decorations Day business is very promising, orders having been already placed for large quantities.

Decorations Day business is very promising, orders having been already placed for large quantities.

Decorations Day business is very promising, orders having been already placed for large quantities.

Decorations Day business is very promising, orders having been already placed for large quantities.

Decorations Day business is very promising, orders having been already placed for large quantities.

Decorations Day business is very promising, orders having been already placed for large quantities.

Decorations Day business is very promising, orders having been already placed for large quantities.

Decorations Day business is very promising, orders having been already placed for large quantities.

Decorations Day business is very promising, orders having been already placed for large quantities.

Decorations Day business is very promising, orders having been already placed for large quantities.

Decorations Day business is very promising, orders having been already placed for large quantities.

brother as a contributor, and surpassed him in benefits conferred on other things transferring to trustees, for the society's property.

The Pennsylvania Horticultural Society will hold its annual convention on the memory of Miss Schaffer and her husband, on Friday, May 29, at the society upon such a permanent financial basis as will be most advantageous to the interests of horticulture, in which she and her brother were so deeply interested during the life.

DAVID RUST.

Index to Advertisers.

Table listing various advertisers and their contact information, including names like A. H. Beck, J. H. Becker, and various florists and nurseries.

Table listing various florists, nurseries, and suppliers, including names like Flower Post, H. H. Hays, and various horticultural businesses.

**CISSUS DISCOLOR**

2 1/2 inch, \$4.00 per 100.

**BEGONIAS**, Guatemala, Agrostemma Picta, White Variegated and Marie, 2 1/2 inch, at \$2.00 per 100.  
**GERANIUMS**, Mt. Snow, 2 1/2 in., \$3 per 100.  
**REBECCAS**, 2 1/2 inch strong, Southern Belle, Bride, Hiredmaid, Marie Van Houtte, Washington, M. Niel, Duchess Brabant, Marie Jon Schwartz, Narcisse, La France and Mermet, \$5.00 per 100. CASH WITH ORDER.

G. P. DIETERICH & BRO., Maysville, Ky.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

**MAY OFFER!**

1000 Alternanthera, red and yellow..... \$2.00  
 1000 Centaurea Gymnocarpa..... 2.50  
 1000 Geranium, standard var. 2 1/2 inch pots..... 3.00  
 500 Coleus, good var..... 2.00  
 500 Fuchsia, dark colors, gold frames..... 1.00  
 100 Santiax, fine plants ready, 2 1/2 in. pots..... 1.00  
 200 Marquandites (Pink Dicks) 5 in. pots..... 5.00  
 500 Fuchsia, double, 4 in. pots..... 6.00  
 CASH WITH ORDER.

JOS. H. CUNNINGHAM, DELAWARE, OHIO.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

**CHRYSANTHEMUMS.**

*Selecting Varieties.*

The main part of our work now is to select the varieties best to grow and decide upon the purpose for which we want them next fall—whether, first, for cut flowers to be shown at our coming exhibitions; second, for specimen plants for the same purpose; third, for cut flowers for home trade, or to be disposed of by a commission house; fourth, and I think, by far the most important lot for the greatest number of our florists, for market plants.

I think it is unnecessary to name varieties that are suitable for the first purpose, because most of the men in that line are well posted on what they want to grow. There are, among the lately introduced varieties, however, a few of special merit and well worth trying, and these I will name. *Melocite* seems to be the fine show yellow for early exhibitions. Madame Felix Perrin is good, but does not keep well, as it loses its color easily. Mayflower is grand for large vases. Mrs. S. T. Murdoch is a good pink, coming in bloom the same time in November and for the end of November Mrs. Emil Buettner has shown well with me.

For the second section the number of varieties is very limited. I consider the best ones are Ivory, La Canning and L'Enfant des deux Mondes; best pink, Fred Wals, Glory of the Pacific and the Pink Ivory; best yellow, Harry L. Sunderbruch, W. H. Lincoln, Minerva and Major Bonaffon. Dean Holl is fine in its color. The best red yet is George W. Childs, and Georgienne Branchhall is a fine straw color. This is the cream of good flowers for specimens and all are easily brought into good shape. I will have in (nearly) Louis Le Soukher or agents of dark pink; it does not take too much tending material.

And here I would like to call the attention of our hybridizers to the fact that in this section of the market the improvements wanted. Men who will give us say about a dozen varieties of sturdy growth with fine bloom and which are able to stand without artificial support will get the everlasting thanks of our florists. I hope that the exhibitors to draw good parents in line for that purpose. THEO. BOCK.

**QUESTIONS.**

OPEN TO ALL. . . . FREE TO ALL

Answers Solicited from Those Who Know.

(104) **Piping a Greenhouse**.—How many 1 1/2-inch return pipes will a two-inch pipe of the length of 100 feet supply a house 250 feet long, pipe connected direct with the boiler?—H. TDENN.  
 A two-inch steam supply pipe in a house of the length of 100 feet will furnish from three to five 1 1/2-inch returns, according to the pressure and the temperature maintained. For a house as long as this it will be better to use a 2 1/2-inch supply than to put in an additional 100 feet should it be necessary.—L. R. TAFT.

(105) **Greenhouse Heating**.—Albert F. Esch.—From the plan and data furnished I learn that there are two houses, each 80x16 feet, with board sides four feet high and eight feet and six inches to the ridge. One house is for roses to be kept at 35 degrees, and the other for palms at 60 degrees, with the temperature outside at zero. In order to heat the system under the pressure I would recommend the use of the so-called box coil of the heating pipe in each tier are connected by return bends and the water is forced to pass through all of them, which makes a real circuit of the heater. If in an open system it will be better to connect the ends of the pipes by means of manifolds, to pull up from tees and nipples, so that the water will have to pass back the same length of pipe as that which will secure the best returns from the fuel, not less than forty two-inch pipe in each tier, and in each tier I should also use two-inch pipe. If this size is selected about ten runs will be needed to heat a house of 1000 square feet of radiating surface. It will be best to use three overhead flows and seven runs in each tier in each house, although two flows and eight returns would answer. L. R. TAFT.

(106) **Cut-Worms on Carnations**.—R. A.—Greatest success will result from hand-picking at night. Dry poisoned bait, made of bran and middlings mixed with Paris green, at the rate of thirty pounds to the tonner or one of the latter, and this sweetened with a little sugar, has proven a good remedy. See that no other animal gets at the poison.  
 (107) **Carnations in Texas in Summer**.—I should like some carnation grower to tell why carnations fail to grow successfully in this soil to climate in the summer. They do all right in the winter, but in warm weather they are so much injured. In two or three days the plants rot off at the surface of the ground and I see no sign of life.  
 —Winter in Houston, Texas, has nearly the same climate as the soil as the soil is rich, deep, black, unctuous; the summer heat, however, is not very tropical, with very moist air. After summer showers the sun scalds the plants, the soil dries, and drier soil. We find no difficulty in growing carnations through summer, better than any other part of the State. WM. LOMAS, Dallas.

(108) **Decorative Asparagus (Cont'd)**.—One string per plant. It is usual, if the crowns are in good shape, to leave the shoot to take and retain it. The plant and the balance become weakened. That is, the plant should be further attention is given them. Should a chance lead breaking away it is better to cut it off, than to try to keep it. Fronds for home use can be obtained from shorts, or the base of stronger pieces, where they can be spared.  
 A Sprenger is being generally grown in pots on pedestals.

**GERANIUMS**  
 . . . . J. L. DILLON, Bloomsburg, Pa. . . .

**OUR NEW LIST OF SEASONABLE PLANTING STOCK**

INCLUDING  
**ROOTED CUTTINGS** of CHRYSANTHEMUMS, CARNATIONS, COLEUS, Etc.  
**PLANTING STOCK** in ROSES, SMILAX, BULBS, Etc.

Now ready. Best stock. Low prices. Address:  
**DAN'L B. LONG,** Jobbing Florist and Growers' Agent, Buffalo, N. Y.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

**LOW PRICES.**

Alternanthera, per major.....	Per 100	Per 1000
" " aurea nana.....	1.50	15.00
Aster, 4 varieties, strong.....	1.00	10.00
Cobaea scandens, extra strong.....	15.00	10.00
Zinnia, double, mixed.....	1.25	10.00
Geranium, double Grand.....	2.00	20.00
" " 2 1/2 inch pots.....	3.00	
Petunia, double, 3 1/2 inch pots.....	2.00	18.00
Coleus, best varieties, 2 1/2 inch pots.....	2.00	20.00
" " 3 inch pots.....	3.00	
Liatris Borbonica, 2 1/2 inch pots.....	4.00	25.00
" " 6 inch, 75 cents to \$1.00 each.....		
Kentia Belmoreana.....	8.00	75.00
Areca Lutescens, 3 plants, 2 1/2 inch pots.....	10.00	
Pandanus Ulmus, strong, 2 1/2 inch pot.....	1.00	
" Veitchii, fine large plants, from \$2.00 to \$5.00 each.		

Mushroom Spawn is we use ourselves.  
**JOHN SCOTT, KEAP STREET GREENHOUSES, BROOKLYN, N. Y.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

**EVERY LIST**

SHOULD ADD THE FOLLOWING PLANTS  
 TO HIS STOCK. AT PRICES QUOTED . . .

25 varieties of magnificent **REX BEGONIAS** new and old, from 4 inch pots, at \$2.50, 100 in the assortment, 2 inch pots, at \$1.00. We have the largest collection in the world.  
 The two new **GIANT SEMPERLORENS BEGONIAS**, \$5.00 per doz.  
 100 **FLOWERING BEGONIAS**, in 20 different sorts, new and old, 2 1/2 inch pots, \$4.00.  
 Splendid (top-cuttings) **FIGUS ELASTICA BELGICA**, established in 4 inch pots, \$15.00 per 100.  
 6000 **FIGUS**, from single eye cuttings, \$15.00 per 100.  
**HYDRANGEAS**, strong plants, from 2 1/2 inch pots, of Otakisa and Kamis Pictis, \$3.00 per 100.  
 500 plants of **RAMIS PICTIS**, "Red Branched," 4 and 5 inch pots, 2 ft. high, \$7.00 per 100.  
 20 varieties of the finest **IVY GERANIUMS**, five of a kind, 2 1/2 inch pots, at \$4.00 per 100.  
**CANNAS**, Danmann's novelties, 12 varieties of '96 for \$25.00. Send us a trial order for Cannas. We will send you 100 newer Cannas for \$12.00. All extra choice sorts.  
**PANAOUS UTILIS**, strong young plants, \$5.00 per 100.  
**CHRYSANTHEMUMS**, the largest, finest and most complete assortment in the United States. New and old. Send us a list of your wants and we will quote you satisfactory prices for fine varieties.  
**CYCAS REVOLUTA** bulbs, direct from Japan, arrived to-day, in fine condition, \$1.00 per 100 lbs. Order quick as they are going fast.

**E. G. HILL & Co., Richmond, Ind.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE.

**Analysis of Castor Bean Plant.**

I had occasion some time since to make a number of analyses of different parts of the castor bean plant, which is grown here as a farm crop, and is frequently used in many places, for decorative purposes. These analyses may be of interest to your readers as a contribution to our knowledge of the food requirements of decorative plants. The following table represents the average of the analyses made of each part of the plant, together with the analyses of the leaves, and of the stalks (which were about equal in weight).

	In 100 lbs. Fresh Substance.	Nitrogen.	Phosphorus.	Potassium.
Leaves and small branches.....	0.71	0.68	0.17	
Stalks and roots.....	0.18	0.50	0.07	
Average.....	0.45	0.59	0.12	
Ripe Beans.....	3.45	0.66	1.37	
Seed pods.....	2.23	5.97	0.10	

Since, for decorative purposes, foliage is most desired, the average for leaves and small branches will approximate the amount of plant food required by this plant. A vigorous, well-developed plant weighs about 100 lbs. and will be sufficient to furnish a quantity comparable plant food equal to the amounts in the average for the foliage part of the leaves, and of the stalks. The relatively high proportion of nitrogen and potash would suggest that wood ashes and stable manure should be an effective fertilizer for use in this connection. Sullwater, Oklahoma. JOHN FIELDS.

**LORD & BURNHAM CO.,**  
**HORTICULTURAL ARCHITECTS AND BUILDERS,**  
**STEAM AND HOT WATER HEATING ENGINEERS.**

Plans and Estimates furnished on application.



Largest Builders of Greenhouse Structures. Six Highest Awards at the World's Fairs. Send four cents postage for Illustrated Catalogue.

**LORD & BURNHAM CO.,**  
 ARCHITECTURAL OFFICE, 160 FIFTH AVE. COR. 21st STREET, NEW YORK.  
 Factories: Irvington-on-Hudson, New York. Mention paper

**PIPE VALVES**  
 Wrought Iron Pipe, Valves, Cooks, Fittings, etc., for Steam and Hot Water; Rubber Hoses, Pumps and Well Points.  
**WM. H. KAY, 42 Day St., New York.**

**GLASS** FOR GREENHOUSES, CONSERVATORIES, GRAPERIES, HOTBEDS AND FLORISTS' USE GENERALLY, AT LOWEST RATES.  
**L. HARRIS & SON,**  
 497 W. BROADWAY, NEW YORK, 89 LIBERTY ST., NEW YORK.  
 Sole, Boston and Newberk Etc.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**GLASS!** For Greenhouses, Conservatories, Graperies, Hotbeds and all other purposes, at Lowest Rates.  
**N. COWEN'S SON 392 & 394 West Broadway, New York.**  
 Foremost 154 and 156 So. Fifth Avenue. Estimates Freely Given.  
 Get our Figures before buying Glass.



**THE VAN REYPER**  
**PERFECT GLAZIERS' POINTS**  
 No rights or lefts. Price per box of 1000, 60c. by mail, 75c.; in lots of 5000 by ex., 50c. per 1000  
**HENRY A. DREER, 714 Chestnut St., Phila., Pa.**

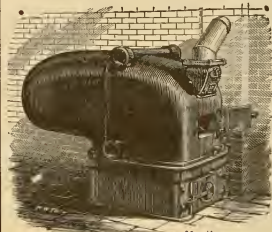
**GLASS** FOR GREENHOUSES, CONSERVATORIES, GRAPERIES, HOTHOUSES AND HOTBEDS.  
**GLASS**  
**VANHORNE GRIFFEN & CO.**  
 Agents for CHAMBERS & McKEE CO. Jeannette Brands American Glass.  
 40 to 48 VESTRY STREET, Cor. Greenwich Street, NEW YORK.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**GREENHOUSE GLASS.**  
 THE WOOD GLASS COMPANY  
 226 N. SALINA ST. SYRACUSE, N.Y.

**CALIFORNIA RED CEDAR**  
 Never Decays.  
**A. DIETSCHE & CO. 619 Sheffield Avenue, CHICAGO.**  
 MANUFACTURERS OF RED CEDAR AND CYPRESS GREENHOUSE MATERIAL.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

SEND FOR OUR NEW CATALOGUE, WHICH SHOWS  
**The New Automatic Cable Ventilator**  
 As it is put up in the house complete. We also give you prices with a guarantee that each machine sent out will operate your house successfully. Soil machines now made in two sizes.  
**A. Q. WOLF & BRO., Dayton, Ohio.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**GREENHOUSE HEATING AND VENTILATING,**  
 Horticultural Architecture and Building.



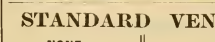
**Pitchings & Co**

ESTABLISHED 1844.  
 233 Mercer Street, NEW YORK

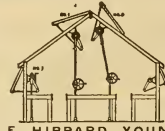
**FIVE PATTERNS OF BOILERS.**  
 NINETEEN SIZES.  
 Perfect Sash Raising Apparatus.  
 Rascoshes, Greenhouses, Etc., of Iron Frame Construction erected complete or the Structural Iron Work shipped ready for erection.  
 Iron Frame Benches with the "Perfect Drainage Bench Tile" or Slate Tops.

MENTION PAPER. SEND 4c. POSTAGE FOR ILLUSTRATED CATALOGUE.

**JOHN H. JACKSON, Successor to JACKSON BROS.**  
 NEW YORK STATE GREEN TILE and PIPE WORKS. Sole Office, 11 THURSDAY ST., NEW YORK, N.Y.  
 Manufacturer of and Dealer in Agricultural Drain Tile, Salt Glazed Sewer Pipe, Best French Pipes, Water Colors, Fire Brick, Green Tile, Chimney and Blue Lining, Chimney Tops and Clay, Roof Tiles, Portland Cement, Lime, Plaster, etc.  
 Established 1852.



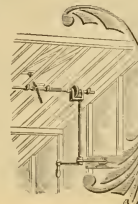
**STANDARD VENTILATING MACHINE.**  
 NONE EQUAL IT IN Strength AND Durability.  
 NOTHING Flimsy OR Complicated about it.  
**E. HIPPARD, YOUNGSTOWN, OHIO.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE



**TRADE GREENHOUSES.**  
 THE BEST MADE.  
 "Florists" Get Your Plans and Estimate from  
**PLENTY'S HORTICULTURAL WORKS,**  
 148-156 Randolph Ave., JERSEY CITY, N. J.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**MASTICA**  
 FOR GLAZING GREENHOUSES. SUPERIOR TO PUTTY IN EVERY WAY.  
 Is not hardened by the extreme heat or cold that a greenhouse is constantly subjected to both inside and out. Mastica is adhesive and remains permanently elastic so that it is not forced out of place by expansion and contraction of the woodwork. Houses glazed with Mastica do not need re-glazing, thus saving time and expense. With Mastica can "bed-in" or set on the outside, but with a machine only.  
 Mastica and Mastica Glazing Machines were given  
**HIGHEST AWARD OF SOCIETY OF AMERICAN FLORISTS AT PITTSBURGH, 1895.**  
 Put up in gallons, \$1.00. Half gallons, 60c. Quarter gallons, 35c. Mastical Glazing Machines, \$1.00 each.  
 Send for full descriptive circular and testimonials. Agents in all the principal cities.  
**F. O. PIERCE CO., Sole Manufacturers, 170 Fulton St., New York.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Ochsby Ventilating System**  
**F. O. Ochsby**  
 71 Sumner St.  
**MELROSE, MASS.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE



SITUATIONS WANTED.

Railroad... Cash with order... This race applies only to situations wanted... Who letters are addressed to our care add 10 cents to cover expenses of forwarding.

SITUATION wanted by a German, 12 years' experience... locates an arborist man, well up in propagating plants and care of them... willing to accept of any position.

GERMAN arborist, 25 years' experience, competent in all branches, capable to take charge of any position. Gardener, P. O., Flatbush, L. I. N. Y.

STEADY situation wanted by an experienced florist and planter, single, age 20 years, first-class references from most florists willing. Address G. D., care Florists' Exchange.

WANTED a position by a good plant and cut flower grower... to take entire charge of retail or wholesale establishment... Address, L. care of Florists' Exchange.

WANTED situation with a seed company as a traveling salesman... has 14 years' experience in all branches of the business... Address, Seedman, care Florists' Exchange.

A GOOD grower of cut flowers, with long experience in the management of retail and wholesale places and familiar with every detail of the business, wants position; is up to date in every respect... Particulars and references, by address, Pennsylvania, care Florists' Exchange.

HELP WANTED.

WANTED - An experienced able Gardener to do so in an arborist. Must be steady and sober, on so to an florist if preferred. Address, A. M., Florists' Exchange.

WANTED.

A boy about 17 years old who understands care of horses and is acquainted with the work in a florists store. Apply by letter to 199 Court St., BROOKLYN, N. Y.

STOCK WANTED.

Small Stock Wanted

Of Orifics, Acacia Paradoxa and Genista. State price, varieties, age and size. Also small Ferns and Palms.

W. B. JOBES, Florist, Bordentown, N. J.

WANTED

200 Strong and Healthy Plants of Kaiserin Augusta Victoria

Must be fine.

W. B. JOBES, Florist, Bordentown, N. J.

BUSINESS OPPORTUNITIES

TO LET.

Small two cottages with two acres of ground, and Asparagus beds, etc., on easy terms. Inquire about particulars, R. J., Florists' Exchange.

FOR SALE CHEAP - 18000 feet of a well stocked, convenient to N. Y. City two story dwelling, 4 rooms, all heated by steam. Good barn and dwelling for foreman. Particulars and references, by letter, to 140 Courtland. Electric car pass the door. It health the best for selling. For further particulars address, R. J., Florists' Exchange.

GREENHOUSES TO RENT.

Five houses containing 3000 square feet, well built and airy throughout. All boilers, roof, lead, plenty of water and good land. Good outside, large fruit trees and 10 acres of land. 14 miles from Boston on the B. & A. R. R. Will let at a low price for business. For further particulars address, R. J., Florists' Exchange.

FOR SALE AT A BARGAIN.

First-class greenhouse doing profit at Spring Lake, N. J., fully stocked and doing good business. For particulars apply to

MILAN ROSS, Agency, Aubury Park, N. J.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

BUSINESS OPPORTUNITIES

FOR SALE.

A Cut Flower Establishment, consisting of about fifty thousand square feet of glass, with an established tenant. A rare chance for an experienced cut flower grower with capital. For further particulars, address Florist 5, care of Florists' Exchange.

FOR RENT

The well-known greenhouses recently owned and operated by T. H. Spaulding, at Orange, N. J. For all particulars apply to

AMUND JOHNSON, 114 West 34th Street, NEW YORK.

An Opportunity To Lease A HOTHOUSE PLANT WITH A WELL ESTABLISHED BUSINESS.

Two houses 20x130. Two houses 10x100. Dwelling house 5 rooms.

P. O. Box 466, - WEST TROY, N. Y.

Greenhouse Appliances.

FOR SALE CHEAP - 12x14 and 12x20, B. K. Baris, Glass, also heated and shaded. THE RED GLASS AND PAINT CO., 436 West Broadway, New York.

FOR SALE.

1 Shipman Engine, 1 H. P., in perfect condition, suitable for power, or for use as a pump for selling, have city water now. Will sell for \$30.00, cost \$100.00. Come and see it; if you will allow me to show for 100 miles. R. T. Habib, Cornwall-on-Hudson, N. Y.

FOR SALE.

One Hitchings Boiler, No. 15, in good condition. \$45.00. F. O. B.

ENOS H. DALY,

P. O. Box 321, Rahway, N. J.

FOR SALE - One Second-Hand Fire and Return Tubular Leg BOILER.

11 feet long, 7 feet diameter, tested 90 lbs. steam and 100 lbs. water. Suitable for hot-house. Apply to

W. E. BERNARD, Pier 76, North Wharves, PHILADELPHIA, PA.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

NOTICE.

B. K. BARIS, Jacksonville, Fla., has opened a Seed Store, and would like Wholesale Catalogues and Price Lists.

Births, Marriages, Deaths

We will publish, free of charge, notices of all births, marriages, and deaths occurring in families connected with the trade. If you are kindly furnish full particulars in each case.

BIRTH.

TROY - At 645 Carlton Avenue, Brooklyn, on Saturday, May 23, the wife of J. H. Harting, of the Rocky, New York, of a son.

DEATH.

WILSON - At Mechanicsville, Pa., on Sunday, May 23, Samuel Wilson, seedman, in the 73d year of his age.

Pittsburg.

Market Notes. The market conditions have not changed for the better since my last notes, and from various reports have been evened out. The market for cut flowers are plentiful enough, but for the winter continues as cool as it has been. The market for cut flowers will be any to most stock if Decoration Day trade should be heavy. Outdoor stock, particularly B. roses and geraniums, will hardly be in bloom unless the weather gets much warmer, which is not at all likely, as frosts were predicted last night, and to-night, May 25, the indications are for a promise of heavy rain. In West and Middle States heavy rain and hailstorms did much damage to fruit and growing crops, the ground being covered with hail. Western Pennsylvania has been getting its share of the last few years, after escaping for so long a time, and it can be counted in the belt now for a certainty.

Bedding plant trade was never worse than this season up to date. Only a few more days until Decoration Day and houses are pretty well stocked up yet, but as very little planting out has been done, and the weather is so hot, at about the same quality as usual and prices generally drop after the end of May. The bedding plant stock is on about the same quality as usual and prices generally drop after the end of May. The bedding plant stock is on about the same quality as usual and prices generally drop after the end of May.

The New York. An employe of Miss Anna Klopfer, the florist of Allegheny City, left the greenhouses one morning last week with a wagon load of stock for market and has not been heard of since. A reward has been offered for his return to the Philadelphia, was a visitor during the week of the exhibition.

M. Renkauf, of Bayersdorfer & Co., Philadelphia, was a visitor during the week of the exhibition.

Cleveland.

Late Sprays. The weather continues cool, with occasional rains; three nights within the past week have been very rainy, and the destruction of small fruit and tender growing stock.

Not indications pointed toward an early Spring, but continued cool weather has held vegetation back, and steady rains preventing much progress with the stock on heavy soils, the outlook is most discouraging in some sections. Such unfavorable conditions have certainly had a depressing effect upon the florists' business.

Not only has it been felt by storekeepers in cut flower and plant lines, but by the numerous smaller growers who depend so largely on outdoor spring work, such as beds, porch boxes, hanging baskets, etc.

Store trade for the past week has been good, a great improvement over the two previous weeks, and stock of some things is closely used up. Numerous decorations for the coming competitions and banquets, held within the last fortnight were handled by our florists, and such work demands a very considerable, created considerable movement in that class of flowers, and caused a scarcity of such things, as sweet peas, geranium auratum, roses and snailax. Among the most notable of these functions were the banquet of the Ohio State Horticultural Commerce, and also that of the Ohio State Horticultural Association, both of which were handled by our florists. Jas. Eddie had a large decoration at the Ella Russell musical concert.

Prices. A slight advance in prices is looked for within the next few days, and a good demand for all kinds of plants and flowers for Decoration.

Roses are now selling at 75c to 81 per dozen, in the best; sweet peas, 15c. per dozen; Lilium auratum, 81 per dozen. Outdoor valley is plentiful. Some prices are as follows: Sweet peas, 15c. per dozen. Outdoor valley is plentiful. Some prices are as follows: Sweet peas, 15c. per dozen.

General. Mrs M. WINTERFIELD has opened a general retail store at 300 Erie street. It is a fine roomy store, with a large stock of window. The whole establishment is under the management of Mrs. W. A. G. T.

Recent visitors in town were: W. Warner, representing Van Heemstra & Co., Sassenheim, Holland; W. R. Bosch, representing J. S. Rice Co., Cambridge, G. A. T.

MRS. THEODOSSIA B. SHEPHERD, Hybridizer and grower of Novelties, offers for sale a quantity of some New Florida geraniums, New Abutilons, and a New Dwarf Double Fuchsia. Correspondence solicited. Address, 1009 Broadway, New York, California.

ASTER PLANTS - Simple's Branch, Market, Perfection, and Comet, ready to plant out, by mail, 50c per doz; 10c per doz by express.

J. C. SCHMIDT & CO., Bristol, Pa. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

1000 GERANIUMS, 4 inch pots, fine plants, of leading bedding sorts, \$1.00 per doz.

1000 COLEUS VESPAFFELTII, 2 inch pots, at \$1.25 per 100.

500 COLEUS GOLDEN BEDDER, 2 inch pots, at \$1.75 per 100.

W. F. BRINTON, Christiansburg, Pa. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

ALTERNANTHERA

F. MAJOR, bright red, \$2.00 per doz; \$1.00 per doz.

A. NANA, yellow, \$2.00 per doz; \$1.00 per doz.

These are very good colored and strong pot grown plants. Cash with order.

FABER & STAHLHUT, New Lots, Brooklyn, N. Y. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

ECHEVERIA \$35.00 per 1000.

GUSTAV OTTO, 91 Sherman Place, JERSEY CITY, N. J. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

BEGONIA YERON, plants from 2 and 2 1/2 inch pots, \$2.00 per 100, or \$1.25 per 100, in separate colors of white, large flowers, 10c, 5c, or red, or in mixed colors.

Also about 50 LARSENIA and FICUS, stock plants, from 4 to 8 ft. high, all out stock and brucy, nice for propagation. Prices on application.

J. V. VONDERAAR, 675 1/2 Broadway, NEW YORK, N. Y. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

ORCHIDS FOR CUTTING.

The Largest and Finest Stock in the World.

F. SANDER & CO., (St. Albans, England, Belgium.)

Agent, A. DIMMOCK, care of Webster & Don, Seaside, 114 Chambers St., N. Y. City. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

JUST RECEIVED A FINE COLLECTION OF

ORCHIDEA LABATA

Which has arrived in splendid and fresh looking condition. It is a very fine and valuable home in early spring, its flowering season under cultivation may be easily rendered permanent.

Also fine established plants of CYPRIPEDIUM INSIGNE

In 8 inch pots. Prices upon application, and references required for unknown parties. Orders booked for Crutney & Mosses.

ADOLF A. SAGHE, (Estate Forstersterman.)

Newtown, L. I., N. Y. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

ROSES

Carefully grown forcing stock, 2 1/2 inch, strong.

Meteor . . . . . \$3.00 \$23.00

W. La France . . . . . 3.00 25.00

The Bride . . . . . 3.00 25.00

Perle des Jardins . . . . . 4.00 35.00

Abigella, THE PEARL, \$2.00 per 100.

SWAINSONA SPLENDENS Only true pink color, 1000 per 100 \$4.00 per 100

Cash, or first-class bank references must accompany all orders.

J. B. BEISS, 116 So. Main St., Dayton, O. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Tonto.

Club News. The May meeting of the Gardeners and Florists' Association was held on Tuesday, May 18, very few members...

Bedding-out in this locality is very late this spring. The wet season and cold nights being the principal causes of this. Tulips and spring flowering plants...

Tree Planting Ceremony. Quite a number of trees were planted in our parks and also in private places on May 26 to mark the anniversary of the birth of Her Majesty Queen Victoria.

Market News. St. Lawrence market was crowded on Saturday with bedding plants of almost every description, and considerable stock was disposed of...

St. Louis. There was quite a shortening up of the supply of roses here last week...

Market Report. There was quite a shortening up of the supply of roses here last week...

seems impossible to effect clear sales at the low price of 20c per 100. Cuties are in steady supply, but owing to absence of funeral work...

A trip to Middle Market early last Saturday afternoon resulted in an activity in trade in bouquets put up by hucksters that surprised me. They were wonderfully made in all sizes and forms...

I report with regret the death of Mrs. Charles Holzborn. F. C. Weber's handsome new store and palm house, at Olive Street and Boyle Avenue, is rapidly nearing completion.

There is some talk of organizing a wheelman's club among the florists here. The movement is in the hands of Messrs. Charles E. Schoenle, William Lingenbrink and Charles G. Fleckenstein. Some of your attractions boys. Harmony is what we want, not discord.

Springfield, Mo. The summer meeting of the Missouri State Horticultural Society will be held in St. Louis, Mo., June 2, 9, and 10 next.

Newtown, L. I. Adolph Sachse has just received a consignment of Cattleya labiata in splendid condition. Owing to the fierce perniciosa, a tropical fever, as malignant as yellow fever, which almost decimated the population of the district...

Hail. C. HUMFELD, Clay Center, Kan., writes as telling of the advantages of being insured in the Florists' Hat Association and compliments that body on its promptitude in paying his claim.

GERANIUMS. BRUNST, agent, \$6.00 per 100; \$20.00 per 1000. Brunst, \$3.00 per 100; \$12.00 per 1000. Mixed bed vars., \$5.00 per 100. Heliotrope, 7/8 per 100; \$2.00 per 1000. Cash for orders.

ALTERNANTHERA. A. AMABILIS and A. NANA, (red and green) good strong plants, \$5.00 per 100; \$15.00 per 1000. Cash with order. CHAS. T. PARLING, Empire Brook, L. I., N. Y.

FINE PLANTS—LOW PRICES. 10,000 Double Geraniums, 2 1/2 inch pots, \$1.00 per 100; \$5.00 per 1000. 5000 Double Geraniums, 2 1/2 inch pots, \$1.00 per 100; \$5.00 per 1000. 500 Sward Ferns, 2 1/2 inch pots, \$1.00 per 100; \$5.00 per 1000. NICHOLAS AMOS, Crestline, Ohio.

HYDRANGEA CUTTINGS. \$1.00 per 100; \$10.00 per 1000. \$2.00 per 100; \$20.00 per 1000. \$3.00 per 100; \$30.00 per 1000. \$4.00 per 100; \$40.00 per 1000. \$5.00 per 100; \$50.00 per 1000. \$6.00 per 100; \$60.00 per 1000. \$7.00 per 100; \$70.00 per 1000. \$8.00 per 100; \$80.00 per 1000. \$9.00 per 100; \$90.00 per 1000. \$10.00 per 100; \$100.00 per 1000.

A MISAKE, to delay your orders for MINNIE COOK. Price should be \$3.00 per 100; \$25.00 per 1000. MEADOW VIEW GREENHOUSES, PARSIPPANY, N. Y.

Carnations, Etc. HIGH GRADE ROOTED CUTTINGS. Write for price list.

H. WEBER & SONS, P. O. Box 57, OAKLAND, Md. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

MOORE'S The New Scarlet. From soil.

HOPP & LEMKE, East Grand Rapids, Mich. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

GRALLERT & CO. CARNATION GROWERS COLMA, SAN MATEO CO., CAL. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

DAZZLE The brightest and most productive scarlet carnation yet introduced. Strong plants, \$4.00 per 100. Rooted cuttings, \$3.00 per 100. Stand for complete list of 100 carnation plants and rooted cuttings in 30 packets. Ready for immediate shipment.

B. C. HANCOCK & SON, Grand Haven, Mich. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

CARNATIONS Daybreak, Scatt, Tidal, Xmas, S. Spruce, McGowan, Viana, \$1.50 per 100; \$12.00 per 1000. Phos. Cardledge, Kambler, Rose Queen, Prince of Edinburgh, \$2.00 per 100; \$15.00 per 1000. Ludy Campbell, \$1.50 per 100. L. Young, \$2.00 per 100; \$15.00 per 1000. A. Central Avelia, \$1.00 per 100.

JOSEPH RENARD, Unionville, Chester Pa. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

CARNATIONS F. DORNER & SONS CO., La Fayette, Ind. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

CARNATIONS Rooted cuttings all sold except Opedia. Thos. Cardledge, Rose Queen, Arctic, Opedia, \$1.50 per 100; \$12.00 per 1000. Wm. Scott, \$1.50 per 100; \$12.00 per 1000. Lizzie McGowan, \$1.00 per 100; \$8.00 per 1000.

ALBERT M. HERB, L. B. 96, Lancaster, Pa. One of the Family. I consider the Florists' Exchange one of the most satisfactory returns in my experience and have my name refunded you.

ALBERT M. HERB, L. B. 96, Lancaster, Pa. One of the Family. I consider the Florists' Exchange one of the most satisfactory returns in my experience and have my name refunded you.

ALBERT M. HERB, L. B. 96, Lancaster, Pa. One of the Family. I consider the Florists' Exchange one of the most satisfactory returns in my experience and have my name refunded you.

ALBERT M. HERB, L. B. 96, Lancaster, Pa. One of the Family. I consider the Florists' Exchange one of the most satisfactory returns in my experience and have my name refunded you.

ALBERT M. HERB, L. B. 96, Lancaster, Pa. One of the Family. I consider the Florists' Exchange one of the most satisfactory returns in my experience and have my name refunded you.

ALBERT M. HERB, L. B. 96, Lancaster, Pa. One of the Family. I consider the Florists' Exchange one of the most satisfactory returns in my experience and have my name refunded you.

ALBERT M. HERB, L. B. 96, Lancaster, Pa. One of the Family. I consider the Florists' Exchange one of the most satisfactory returns in my experience and have my name refunded you.

ALBERT M. HERB, L. B. 96, Lancaster, Pa. One of the Family. I consider the Florists' Exchange one of the most satisfactory returns in my experience and have my name refunded you.

ALBERT M. HERB, L. B. 96, Lancaster, Pa. One of the Family. I consider the Florists' Exchange one of the most satisfactory returns in my experience and have my name refunded you.

ALBERT M. HERB, L. B. 96, Lancaster, Pa. One of the Family. I consider the Florists' Exchange one of the most satisfactory returns in my experience and have my name refunded you.

ALBERT M. HERB, L. B. 96, Lancaster, Pa. One of the Family. I consider the Florists' Exchange one of the most satisfactory returns in my experience and have my name refunded you.

ALBERT M. HERB, L. B. 96, Lancaster, Pa. One of the Family. I consider the Florists' Exchange one of the most satisfactory returns in my experience and have my name refunded you.

ALBERT M. HERB, L. B. 96, Lancaster, Pa. One of the Family. I consider the Florists' Exchange one of the most satisfactory returns in my experience and have my name refunded you.

ALBERT M. HERB, L. B. 96, Lancaster, Pa. One of the Family. I consider the Florists' Exchange one of the most satisfactory returns in my experience and have my name refunded you.

ALBERT M. HERB, L. B. 96, Lancaster, Pa. One of the Family. I consider the Florists' Exchange one of the most satisfactory returns in my experience and have my name refunded you.

ALBERT M. HERB, L. B. 96, Lancaster, Pa. One of the Family. I consider the Florists' Exchange one of the most satisfactory returns in my experience and have my name refunded you.

ALBERT M. HERB, L. B. 96, Lancaster, Pa. One of the Family. I consider the Florists' Exchange one of the most satisfactory returns in my experience and have my name refunded you.

CHAS. SIEBERT THE FLEETEST AND BLESSEST FLORIST OF PITTSBURGH, PA. GROWS SELLERS CARNATIONS THAT PAY.

Carnation Cuttings

Strong and well rooted, of the following varieties: Jubilee, Triumph, Armandy, Alaska, Bridemaid, Dean Hole, Goldfish, Lizzie McGowan, Wm. Albertini, Meteor, Peachbloss, Rose Queen, Silver Sprig, Wm. Scott, Uncle John.

PRIMULAS, 2 1/2 inch, \$2.00 per 100. Seed for list and prices on large lots. Logan Ave. Greenhouses, Danville, Ill. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

ROOTED CUTTINGS. CARNATIONS. Per 100 Per 1000 WM. SCOTT . . . \$1.00 \$7.50 LIZZIE MCGOWAN . 1.00 8.00

Other varieties all sold out. EDW. J. TAYLOR, Wholesale Carnation Grower, Cash or Reference. BATHFORD, CONN. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

HERR'S CARNATIONS. 1000 100 Alaska and Cardledge . . . \$7.50 \$1.00 Bridemaid and Borneo . . . 1.00 1.25 Abundance . . . 20.00 2.50 Triumph and Armandy . . . 30.00 3.50 Jubilee . . . 40.00 5.00 SHILAX . . . 5.00 1.00

Cash with the order. Everything guaranteed; not satisfactory no return in my experience and have my name refunded you.

ALBERT M. HERB, L. B. 96, Lancaster, Pa. One of the Family. I consider the Florists' Exchange one of the most satisfactory returns in my experience and have my name refunded you.

ALBERT M. HERB, L. B. 96, Lancaster, Pa. One of the Family. I consider the Florists' Exchange one of the most satisfactory returns in my experience and have my name refunded you.

ALBERT M. HERB, L. B. 96, Lancaster, Pa. One of the Family. I consider the Florists' Exchange one of the most satisfactory returns in my experience and have my name refunded you.

ALBERT M. HERB, L. B. 96, Lancaster, Pa. One of the Family. I consider the Florists' Exchange one of the most satisfactory returns in my experience and have my name refunded you.

ALBERT M. HERB, L. B. 96, Lancaster, Pa. One of the Family. I consider the Florists' Exchange one of the most satisfactory returns in my experience and have my name refunded you.

ALBERT M. HERB, L. B. 96, Lancaster, Pa. One of the Family. I consider the Florists' Exchange one of the most satisfactory returns in my experience and have my name refunded you.

ALBERT M. HERB, L. B. 96, Lancaster, Pa. One of the Family. I consider the Florists' Exchange one of the most satisfactory returns in my experience and have my name refunded you.

ALBERT M. HERB, L. B. 96, Lancaster, Pa. One of the Family. I consider the Florists' Exchange one of the most satisfactory returns in my experience and have my name refunded you.

ALBERT M. HERB, L. B. 96, Lancaster, Pa. One of the Family. I consider the Florists' Exchange one of the most satisfactory returns in my experience and have my name refunded you.

ALBERT M. HERB, L. B. 96, Lancaster, Pa. One of the Family. I consider the Florists' Exchange one of the most satisfactory returns in my experience and have my name refunded you.

ALBERT M. HERB, L. B. 96, Lancaster, Pa. One of the Family. I consider the Florists' Exchange one of the most satisfactory returns in my experience and have my name refunded you.

ALBERT M. HERB, L. B. 96, Lancaster, Pa. One of the Family. I consider the Florists' Exchange one of the most satisfactory returns in my experience and have my name refunded you.

ALBERT M. HERB, L. B. 96, Lancaster, Pa. One of the Family. I consider the Florists' Exchange one of the most satisfactory returns in my experience and have my name refunded you.

ALBERT M. HERB, L. B. 96, Lancaster, Pa. One of the Family. I consider the Florists' Exchange one of the most satisfactory returns in my experience and have my name refunded you.

ALBERT M. HERB, L. B. 96, Lancaster, Pa. One of the Family. I consider the Florists' Exchange one of the most satisfactory returns in my experience and have my name refunded you.

ALBERT M. HERB, L. B. 96, Lancaster, Pa. One of the Family. I consider the Florists' Exchange one of the most satisfactory returns in my experience and have my name refunded you.

ALBERT M. HERB, L. B. 96, Lancaster, Pa. One of the Family. I consider the Florists' Exchange one of the most satisfactory returns in my experience and have my name refunded you.

ALBERT M. HERB, L. B. 96, Lancaster, Pa. One of the Family. I consider the Florists' Exchange one of the most satisfactory returns in my experience and have my name refunded you.

ALBERT M. HERB, L. B. 96, Lancaster, Pa. One of the Family. I consider the Florists' Exchange one of the most satisfactory returns in my experience and have my name refunded you.

ALBERT M. HERB, L. B. 96, Lancaster, Pa. One of the Family. I consider the Florists' Exchange one of the most satisfactory returns in my experience and have my name refunded you.

ALBERT M. HERB, L. B. 96, Lancaster, Pa. One of the Family. I consider the Florists' Exchange one of the most satisfactory returns in my experience and have my name refunded you.

**JOHN CONLEY & SON,**  
MANUFACTURERS OF  
**TIN FOIL**  
2 and 4 Dominican Street,  
NEW YORK.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE  
**CHOCOLATE COOLER CO.,**  
GRAND RAPIDS, MICH.

Manufacturers of  
**FLORIST'S REFRIGERATORS.**  
Send for Circular.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE  
BY MAKING SPECIALTIES  
of the following articles I can supply them  
in excellent quality at reasonable prices.

**PAPER, PAPER BAGS, TOOTHPICKS,  
WAXED and TISSUE PAPERS, TWINE**  
Send a list of your wants for estimate.  
**H. A. SOHL, 147 E. 42d St., N. Y.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**M. RICE & CO.,**  
Importers and Manufacturers of  
**Florists' Supplies,**  
25 N. 4th St., Philadelphia, Pa.  
NEW FALL CATALOGUE NOW READY  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**WELCH BROTHERS,**  
DEALERS IN  
**FLORISTS' SUPPLIES,**  
15 Province Street, BOSTON.  
Wine Designs, What Shearers, Baskets, Im-  
portants, Caps Flowers, Cut Flowers, Bases,  
and all other supplies, at prices to meet com-  
petition.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**WELCH BROTHERS,**  
DEALERS IN  
**FLORISTS' SUPPLIES,**  
15 Province Street, BOSTON.  
Wine Designs, What Shearers, Baskets, Im-  
portants, Caps Flowers, Cut Flowers, Bases,  
and all other supplies, at prices to meet com-  
petition.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

MANUFACTURERS OF  
**WIRE DESIGNER**  
NEW YORK

TELEPHONE 1782 18TH ST.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE  
**MEYER GREEN SILKALINE.**  
Used for Decorating LILIES and APPARATUS.

**SILKALINE**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Will not fade, or roll like other colors. Many also in fancy  
colors for tying purposes. Send for samples and prices.  
**JOHN C. MONINGER & CO.,**  
87 Summer Street, BOSTON, MASS., U. S. A.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Boston Florist Letter Co.**  
Manufacturers of  
**FLORISTS' LETTERS.**  
Illustration of a letter product.

This wooden box nicely stained and varnished, 6x10  
1/2 size in two sections, one for each side letter, open  
away from first one of 600 letters.  
JONES, 132 E. 12th Street, per 100, \$2.00  
Send Letter, \$4.00  
Delivered with each letter or word.  
Used by leading florists everywhere and for sale by all  
wholesale florists and supply dealers.  
**N. F. McCARTHY, Treas. & Manager.**  
205 BRIDGE ST. BOSTON, MASS., U. S. A.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Knoxville, Tenn.

A very heavy hailstorm visited us on the 20th. Fortunately for florists, the storm was not general, its path being about one-half a mile wide. The hailstones were very large—about two inches in diameter—and the ground was completely covered. Many of the market gardeners experienced heavy losses. Strawberries and other fruit was completely covered and growing crops suffered severely. The same day two inches of snow fell on the mountains in North Carolina, and from our business, palms, etc. The leading geranium has been double Grand Grant, and the supply is hardly equal to the demand.

The bedding-out season is virtually over, and, take it all in all, has been a very good one, indeed. There has been a noticeable increase in the demand for a better class of plants, particularly pot roses, climatic, tuberous rooted begonias, palms, etc. The leading geranium has been double Grand Grant, and the supply is hardly equal to the demand.

The Southern Railroad has just had planted a very fine bed, thirty feet in diameter, near the station, which has proved quite an attraction, and has been so satisfactory that much more work of a similar nature will be done next year.

C. W. Crouch has pulled down three of his rose houses and will rebuild at once—new ones that will be up-to-date in every particular.

C. Baum has had some remarkably fine carnation blooms from time to time.

All have their winter stock out, and from the way it has taken hold promises to make grand plants by fall—H.

**Chicago.**

**Business Slow.**  
Complaints of limited business among florists are not new, especially among those who are unable, or unwilling, to do anything in the plant trade line. Considering the slack trade, as a whole the present condition caps the climax and causes a good deal of misgiving regarding the future.

Of course, those who cater to the plant trade as well should now be active, but low prices also rule with them, and a good deal of business has to be done for very little money. Just now there is no doubt, however, that those growers who are near enough to the market to get their plants to go back to the plant trade, instead of roses and carnations, are feeling better, even if low prices than those who have to depend upon cut flowers alone.

In an endeavor to augment their incomes some of the downtown florists are trying the fakir and department store low-price methods.

The past week there was lots of stock in the market, and with such poor home demand cut prices was again the rule. The beginning of this week shows quite a falling off in roses, caused no doubt by several cold, chilly days. It will help matters somewhat in keeping up prices, perhaps to Decoration Day. We hope to be able to give a little better report in our next.

The asking figures are now: Beauties, 12¢; Double Red, 12¢; Bride, 12¢; Marquet, Meteor, 23¢; Perle, Niphetos, \$1.50; 23¢; carnations, mixed, 75¢; 48¢; standard, 11¢; 50¢; ranunculus, 25¢; 25¢; tulips and narcissus, 25¢; 24¢; these will end this week. Lilies and callas are up to \$1.00 again. Saxifrage brings \$1.00. Peonias are now much in evidence and realize \$2.45. Home-grown stock promises to be scarce possibly the double red; but an enormous quantity, Southern grown, is in cold storage, so that there will be plentiful enough. A plethora of double and single Poet's narcissus and iris are also traded in the same way.

Some growers have now the storage method down to a fine point as regards geraniums. The blooms are cut before opening, tied in bunches, each bunch being wrapped in paper. Probably no other flower comes out of cold storage in better condition. The growers are making money by the system.

It is supposed that from 25 to 50 per cent. advance on the rates given will be the price for Decoration Day on roses and carnations.

Quantities of jasmines are in and selling at \$1 per 100, sometimes below that figure. Durand of Texas, is selling in very fine long-stemmed jasmines, \$1.00 per 100, easier than do the common blooms at \$1.

The weather is not as favorable for

**Cypress Greenhouse Material.**

We are the pioneers in Clear Cypress Greenhouse Material. We discovered that Cypress is better than any other wood for greenhouses from top of posts up and we introduced it, and fought for it against many prejudices, and finally succeeded in bringing it into general use.

Others have attempted to follow where we lead, others are trying to repeat what we sowed, but we have the experience and are recognized as experts in greenhouse construction.

Write for Circulars or Estimates.  
**Lockland Lumber Co.**  
LOCKLAND, OHIO.

the plant trade and prices are low, with business, so far, sluggish.

Charles Fraufenfelder, formerly of the Garfield Park Rose Co., is now building, on his own lot, at 1602 West Madison Street, a fancy flower store, with greenhouses at the rear of the lot. He will grow palms and decorative stock, mostly.

The Art Floral Co. has removed from Michigan Avenue to 155 Twenty-second Street.  
C. E. Chase has removed to 131 Twenty-second Street, a few numbers east of his old stand.  
J. E. Killen, of C. H. Joosten, New York, was in the city the past week, as also J. F. Wilcox, of Council Bluffs, Iowa.  
EDGAR SANDERS.

**SUMMER IN WINTER**

By Using  
**Standard Greenhouse Boilers**

One cent gets our Catalogue,  
**GIBLIN & Co., - Utica, N. Y.**

Chadborn's Automatic Ventilator  
**CHADBORN, KENNEDY & CO.**  
NEWBURGH, N. Y.

IF YOU WANT  
**A GOOD SASH LIFT**  
For a Very Little Money Get

THE NEW DEPARTURE  
VENTILATING APPLIANCE  
FOR DESCRIPTIVE CATALOGUE SEND TO  
**J. D. CARMODY, Evansville, Ind.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**IMPROVED GLAZING.**

**J. M. GASSER'S PATENT ZINC JOINTS**  
For Putting Glass Without Laps.  
Makes a Roof Air and Water Tight. Saves Fuel. No Breakage from Frost or Medium Sized Hail. Manufactured by  
**J. M. GASSER, GREENLAND, Ohio.**  
Wholesale and Retail Florists.  
Write for Prices and Circulars.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Evans' Improved Challenge.**  
Roller bearing, self-oiling device, automatic to run, solid link chain makes the IMPROVED CHALLENGER the most perfect apparatus in the market.  
Write for catalogue and price before placing your orders also.  
**Quaker City Machine Co., RICHMOND, IND.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE  
**VALVES, FITTINGS AND VENTILATING APPARATUS.**  
**COLDWELL WILCOX CO.,**  
Newburgh, N. Y.  
Mention paper.

**CYPRESS**  
IS MUCH MORE DURABLE THAN PINE.  
**CYPRESS SASH BARS**  
UP TO 32 FEET IN LENGTH ON LONGER.  
**GREENHOUSE AND OTHER BUILDING MATERIAL.**  
Send for our Illustrated Book "CYPRESS LUMBER AND ITS USES." Send for Circular Greenhouse Circular.  
**THE A. T. STEARNS Lumber Co.,**  
Neponset, Boston, Mass.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE  
**CYPRESS GREENHOUSE MATERIAL OF THE MONINGER TYPE.**  
**JOHN C. MONINGER CO.**  
412 to 422 HATHORNE AV. CHICAGO, ILL.

# A GOOD GREENHOUSE HOSE

We are having a hose manufactured from the best material in the market that will give satisfaction to all who try it. We can furnish it in 25 ft., 40 ft. and 50 ft. lengths, at 10 cts. per foot with connections complete. References required from unknown parties.

Address J. G. & A. ESLER, Saddle River, N. J.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**HAVE YOUR COLLECTIONS MADE THROUGH THE NATIONAL FLORISTS' BOARD OF TRADE,**  
271 BROADWAY, NEW YORK.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**SNIPS** Then the best for florists, florists, etc., etc. **Kelly's Florists' Shears** and **Flower Cutters**, Regular line of **FLORISTS' SHEARS** etc. **Freemans' White.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**EVERY FLORIST OUGHT TO INSURE HIS GLASS AGAINST FIRE.**  
For particulars address **JOHN G. ESLER, Sec'y, Saddle River, N. J.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**THE BEST** **SAVE THE BLOOMS! NIKOTEN** DOES NOT INJURE SENSITIVE PLANTS. USE FOR FUMIGATION OR SPRAYING, INDOORS OR OUT. 200 POUNDS BOTTLED IN ONE PINT MOTTLED. **Price \$1.50. ALL SEEDSMEN.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**SHEEP FERTILIZER!**  
PULVERIZED, COMPRESSED.

A Quick Germinator and Crop Fencer. NATURAL. CHEERLESS. CLEAN TO HANDLE.  
**JOHN J. PETERS CO.,** Long Island City, N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**THE BEST FOR ALL Florists.** **ROSE LEAF INSECTICIDE** FOR SALE BY Seed Stores. For Free Pamphlet, write to **LOUISVILLE SPIRIT CURED TOBACCO CO.,** Louisville, Ky.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**The Strength of a Child** pushes the "Simplex" Hose Mender into place. No tools required.

**The Strength of a Horse** cannot pull it out. 1/2-inch or 3/4-inch by mail, 10 cts. Complete set 25 cts. per set.

**ELECTRIC HOSE** can be bent double, twisted into any shape, and run over by teams without injury. Send for sample.

**A GOOD LAWN SPRINKLER,** By mail, \$1.00.  
**KING & KNIGHT, 35 E. Wendell Street, Boston.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Neponset Flower Pots** of Waterproof Paper, are sold as follows:

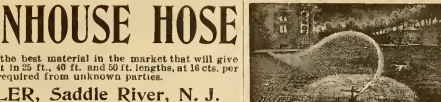
Size	Packed in Crates of	Gross Weight per 1000 pots	Per 100 Per 1000
2 1/2 inch	100	about 20 lbs.	\$2.50
3 1/4	100	25	2.50
4	100	34	3.50
5	100	45	4.50
6	100	57	5.70
8	100	75	7.50
10	100	100	10.00
12	100	130	13.00

Standards Pot Measure.  
Less quantities than full crates at 100 rates.

**F. W. BIRD & SONS, Manufacturers.**  
Address orders to our General Agents,

**August Röiker & Sons**  
New York, P. O. Station E.

or **D. B. FARBER & CO., Boston, Mass. Eastern Agent.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE



## Standard Flower Pots.

Send for our new Price List with extra discounts. All our Pots from 7 in. and upwards, have our Patent Elevator Bottom, which is a great advantage, as it insures perfect drainage.

A FULL LINE OF BULB PANS.  
**THE WHILLDIN POTTERY CO., 713 to 719 Wharton Street, PHILADELPHIA.**

BRANCH HOUSES: Kenner and Winton Aves., Jersey City, N.J.; Jackson Ave. and Pearson St., Long Island City, N.Y.

**INDIAN BRAND.** **NO ADULTERATION BONE FLOUR NO AID**  
References: **Fred. Dörner & Sons Co.,** La Fayette, Ind.; **John H. Taylor,** Rapids, I. N. Y.; **E. H. Hill & Co.,** St. Richmond, Ind.; **E. L. May & Co.,** St. Paul, Minn.

**GEO. S. BARTLETT, 1255-1257 West 67 St., CINCINNATI, O.**  
SUCCESSOR TO **CINCINNATI DESICCATING CO.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# FLOWER POTS

We are Manufacturing a Full Line of **STANDARD FLOWER POTS and HANGING BASKETS** OF THE BEST QUALITY.

Shipping Facilities First-Class, thereby Securing Lowest Freight Rates. Our goods are well packed, and breakage is nominal. Give us a trial. Send for Price List. Address **THE SYRACUSE POTTERY CO., 403 N. SALINA ST., SYRACUSE, N. Y.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# "JADOO" FIBRE

NEW POTTING MATERIAL, A Perfect Substitute for Earth.

## Concentrated "Jadoo" Liquid

Both Meat and Drink to Plants. Revives Drooping Plants, strengthens the weak and nourishes the strong; above all, it increases the size, causes greater profusion of bloom, and heightens the Color of all Flowers. **Simply Invaluable in Pot Culture.**

One gallon makes 48 gallons of strength for using. **THE CHEAPEST Fertilizer that can be bought.**

**NEW YORK OFFICE,** NEWPORT, R. I., BRANCH, UNITED STATES TROPICAL NURSERIES, 409 Fifth Avenue, Bellevue Avenue, Trinidad, West Indies. **TELEPHONE 1742 36TH ST.**



**ROSE HILL NURSERIES.**

**SIEBRECHT & SON,** WHOLESALE AND IMPORTING FLORISTS AND NURSEMREN,  
TELEPHONE 151 NEW ROCHELLE.  
**New Rochelle, N. Y., May 18th, 1897.**

**AMERICAN JADOO CO.** Gentlemen:—We have just received the last shipment of Jadoo. We must say without doubt it is the grandest material for Potting Palms, Orchids and Stove Plants ever introduced. We have tried everything in the market and have failed to find its equal. We notice the difference in the growth of everything. Broader foliage, strong growth, and of a beautiful dark green foliage.

Yours very truly,  
(Signed) **SIEBRECHT & SON,**  
Largest Horticultural Establishment in America. **Rose Hill Nurseries.**

Testimonials and Prices furnished on application to

# THE AMERICAN JADOO CO.,

811 Fairmount Avenue, PHILADELPHIA, PENNA.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

The **TWIN COMET (Stationary)** \$5.00  
The **LITTLE GIANT (Traveller)** 15.00  
**LAWN SPRINKLERS.**  
Best Sprinklers made for Florists and Nurserymen's use. Will save labor of one man, do for them a time greater area than any other.  
**E. STEBBINS MFG. CO.**  
Made for **J. B. FELLOWS & CO.,** SPRINGFIELD, MASS.  
49 Warren St., N. Y. City. Will send catalogue free. Agents Wanted. Can make big money.

## STANDARD FLOWERS' POTS.

We are now ready to supply a superior quality of Pots in unlimited quantities. Catalogues and price lists furnished on application.

**A. H. HEWS & CO.,** NORTH CAMBRIDGE, - MASS.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## STANDARD FLOWER POTS

In any quantity, and of the best quality. Get my price list before ordering elsewhere.

**W. H. ERNEST,** Station M, N. E., WASHINGTON, D. C.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## HILFINGER BROS. STANDARD FLOWER POTS.

We manufacture a full line of Standard Flower Pots, Glass, Clay, Glazed, and unglazed. **1 1/2 inch Vases and Hanging Vases, White and Red** 100 each; **2 1/2 inch Vases, 12 1/2 inch, 14 1/2 inch, 16 1/2 inch, 18 1/2 inch, 20 1/2 inch, 22 1/2 inch, 24 1/2 inch, 26 1/2 inch, 28 1/2 inch, 30 1/2 inch, 32 1/2 inch, 34 1/2 inch, 36 1/2 inch, 38 1/2 inch, 40 1/2 inch, 42 1/2 inch, 44 1/2 inch, 46 1/2 inch, 48 1/2 inch, 50 1/2 inch, 52 1/2 inch, 54 1/2 inch, 56 1/2 inch, 58 1/2 inch, 60 1/2 inch, 62 1/2 inch, 64 1/2 inch, 66 1/2 inch, 68 1/2 inch, 70 1/2 inch, 72 1/2 inch, 74 1/2 inch, 76 1/2 inch, 78 1/2 inch, 80 1/2 inch, 82 1/2 inch, 84 1/2 inch, 86 1/2 inch, 88 1/2 inch, 90 1/2 inch, 92 1/2 inch, 94 1/2 inch, 96 1/2 inch, 98 1/2 inch, 100 1/2 inch.**

Send for Price List for other sizes before ordering elsewhere. A. 050000.

**HILFINGER BROS.,** Fort Edward, N. Y. or **ALTON BOKER & SONS,** 135 & 138 W. 24th St., N. Y. City.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## SCOLLAY'S IMPROVED PUTTY BULB

For Glazing Sash, Etc., also for PATENT PLANT SPRINKLER

For sale by your Seedman or sent, postpaid for \$1.00.  
**JOHN A. SCOLLAY,** 71 & 73 Myrtle Ave., BROOKLYN, N. Y.  
SEND STAMP FOR CATALOGUE.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# FOSTITE

For MILDEW ON ROSES, GRAPEs and CARNATION BUST, 25 lbs., \$4.00; 50 lbs., \$5.50.  
**JOOSTEN'S MAGAZINE BELLows** \$1.50. The best for applying Fostite, Sulphur, etc.

For Summer and Fall Delivery, French and Dutch Bulbs, Azalea Indica, Berlin Lily of the Valley, Lilium Harrisoni, Longflower, etc. **BROOKLYN, N. Y.**

**G. H. JOOSTEN, Importer,** 193 Greenwich St., NEW YORK.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**SPRAY** **YOUR FRUIT**  
WITH THE "INCORPARABLE" **BORDEAUX NOZZLE**  
used on "World's Best" Spraying Outfit made only by **THE DENING CO., Salem, Ohio.** Request Prices for All Purposes. Get your dealer for Hanging Sprayers. **HENRY & J. B. DENING, General Wholesale Agents, 120 Broadway, New York, N. Y.** Also **Johnston, Chicago, Ill.** Valuable literature in connection with spraying, free. Also illustrated in our Bulletin, and recommended by leading horticulturists and experiment stations.



**Wholesale Florists** **JOBBER'S IN**  
ALWAYS ON HAND:  
 CARNATIONS,  
 GERANIUMS,  
 ROSES,  
 VIOLETS.

**F. W. Bartholomew** **FLORIST'S**  
**SUPPLIES.**  
 Horticultural Auctioneer,  
**FLORISTS' VASES.**  
 84 HAWLEY STREET, - BOSTON.

**GEO. A. SUTHERLAND,**  
 SUCCESSOR TO WM. J. STEWART,  
**CUT FLOWERS and FLORISTS' SUPPLIES**  
**WHOLESALE.**  
 67 Bromfield St., Boston, Mass.

**City Hall Cut Flower Market**  
**WELCH BROS., Props.**  
 Regular Consignors Given Space Free of Charge. Space let to growers wishing to sell their own goods.  
 Flowers Shipped to All Points.  
**SEND FOR PRICE LIST.**

**W. Y. ELLISON,**  
**Wholesale Cut Flowers,**  
 Floral Supplies. Wire Designs.  
 2744 Franklin Ave., ST. LOUIS, MO.

**CHAS. G. FLECKENSTEIN,**  
**Wholesale Flowers,**  
 1323 Pine Street,  
 ...ST. LOUIS, MO.

**C. A. KUEHN,**  
**WHOLESALE FLORIST,**  
 1122 Pine St., St. Louis, Mo.  
 A COMPLETE LINE OF WIRE DESIGNS.

**C. W. WORS,**  
**Wholesale Florist,**  
 313 N. LEFFINGWELL AVENUE,  
 ST. LOUIS, MO.  
 FINE ROSES—Shipped carefully to all parts of the country.

**ROGERS PARK FLORAL CO.,**  
**Wholesale Growers of Cut Flowers**  
 OFFICE and SALESROOM,  
 41 WABASH AVE., CHICAGO.  
 Headquarters for AMERICAN BEAUTIES.

**Buffalo Cut Flower Exchange,**  
**WHOLESALE COMMISSION,**  
 431 WASHINGTON ST., BUFFALO, N. Y.  
 Telephone, Seneca 1366.

**HEADQUARTERS** In Western New York. Try us  
**ROSES, CARNATIONS AND ALL SEASONAL FLOWERS.**  
**WM. F. KASTING,** Wholesale Commission Florist  
 495 Washington Street,  
 Buffalo, N. Y.  
 Also Dealer in Florists' Supplies & Wire Designs

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Baltimore.**  
**Market News.**  
 There are so many conflicting reports that it is a difficult matter to get facts in regard to the true condition of the trade. Some say it is very, very bad, others are ready to govern their opinion by one day's good business. One thing, however, is true—money is very difficult to obtain for the sales that have been made. This is the height of planting season; what does not sell now in a few weeks will be dead stock.  
**Club Meeting.**  
 The club is in a flourishing condition, under the presidency of James Penland; next meeting will be a smoker, at which time our secretary will read a paper.

**A Law Suit.**  
 An interesting case was settled in court the other day. A tree agent sold a bill of goods to a party for \$77. After the goods had been received and paid for by check the party discovered that he had been humbugged and stopped payment of the check. The tree agent brought suit to recover. In the testimony it was proven that a grape myrtle was sold and a ground myrtle sent, at the cost of \$150. The stock otherwise was grossly over-valued and misrepresented. Expert testimony was heard for both sides, but the jury brought in a verdict granting the plaintiff \$30, or the cost of the suit. This amount had been offered by the purchaser before the case went to trial, but was refused.

**Settings.**  
 Nearly all the cut roses coming to this market are badly mildewed. A very little new glass will go up this in this locality.  
 Plants disposed of at the auction sales recently have brought good prices. E. A. SEIDEDWITZ.

**Cincinnati.**  
**Trade Better.**  
 Business during the past week assumed a little greater activity, but for stock of all grades and quality was very low; it was hard work to get over three cents for the very choicest roses, and most of the stock sold at 1 1/2 cts. Carnations, ordinary, brought 50c. per 100; medium, 75c., and fancy, \$1 per 100; valley, 3/4c., with stock limited. Sweet peas went begging at 25c. per 100 for choice stock. Callas and Hartsii lilies sold at 50c. per dozen. Marguerites went for 25c. per 100.  
 The latter part of the week, owing to Decoration Day, prices will advance. Notwithstanding the fact that the Morien death notice stated "positively no flowers," pine hacks were required to move the designs and bunches to the cemetery. The Hoffmeister Floral had the family order, which was quite a large one, and consisted of designs made of orchids and other choice flowers.

**Early Chrysanthemums.**  
 J. G. Fine, of Dayton, Ky., brought the writer the past week a well-grown plant of Mme. Bergmann chrysanthemum, in full bloom, having fourteen well-developed flowers. Mr. Fine says he has fifty such plants that will be in bloom for Decoration Day. New fancy Western forms are coming in fine condition and sell at 15c. per 100, 65c. in 500 lots, \$1.25 per 1,000.

**In the Market.**  
 The market Saturday was quiet. There was nothing worthy of special mention except that 10c. per dozen was the ruling retail price for carnations. This week prices will stiffen up somewhat, I hope.

**Out-door Carnations in Bad Shape.**  
 Carnations planted in the field are looking bad, owing to cold and rainy weather. I have heard of only one grower who says his plants are doing well, and he attributes his success to the fact that he subsided heavily when breaking the ground. By this method he claims that the ground dries readily and at the same time retains moisture during dry weather. I shall try and watch this patch during the season and report on the progress of the plants.

**About Roses.**  
 J. A. Peterson is cutting some choice K. A. Victoria roses, stems not long, but blooms excellent. White La France seems to do well with him also. President Carnot still holds its own.

**TOBACCO DUST**  
 TO BURN, \$3.00 per bbl., 180 lbs.  
 TO SPRINKLE, \$4.00 per case, 450 lbs.  
 CORRECT KIND, 311 Madison Ave., N. Y. C.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

E. G. Hill & Co. are sending these to market. Were this variety only a little more double, it would be much better. As a summer or warm-weather rose, it is not a success, opening too quickly; but for winter and cool weather it is certainly grand, being greatly admired by the ladies. I believe it has come to stay and will fetch a good price.  
 E. G. GILLETT.

**Decorat. Ill.**  
 John P. Amer, who at one time carried on the business of florist and gardener, died here on Monday, May 20, aged 79 years. He was born in Bavaria and came to America in 1846, locating near Baltimore. He came to Decatur in 1866.

**E. G. HILL & CO.,**  
**Wholesale Florists,**  
**RICHMOND, INDIANA.**

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CAPE JESSAMINES.** Buds cut with long stems, \$1.00 per 100 by mail. Also fine stocky plants, 3 to 2 1/2 inches, 80 cts. per doz.; \$2.00 per 100.  
**JOHN MONKHOUSE, Caddo Nur. Jawalla, La.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**FLORISTS and CUT FLOWER DEALERS** order your **CAPE and GRANDIFLORA JASMINE** buds from us, 25c. per 100. Write for special prices by thousand. Excellent shipper.  
**Southern Fruit Co., Dallas, Texas.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CUT SMILAX.**  
 12c. per string, heavy, 8 to 15 strands.  
**A. J. BALDWIN, Newark, O.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Galax Leaves.**  
 CHAS. H. RICKSECKER, Linville, N. C.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

... FOR FINEST ...  
**Galax Leaves and Leucothoe Sprays,**  
 ALWAYS WRITE THE INTRODUCERS.  
 Highlands Nursery, Kawana, N. C.

**Fine Smilax**  
 7 to 8 feet long,  
**\$15 per 100 strings.**  
 Cash with order, please.  
**WM. KEIR, Pikesville, Md.**

**CUT SMILAX**  
 Choice 5 foot strings, \$20.00 per 100. Annual-cut only, 50.00 strings.  
**ADIANTUM CUNEATUM** Extra fine material, \$1.00 per 100. No attention will be paid to orders not accompanied by the cash.  
**GUSTAVE SCRADER,** Cut Flower Exchange, and Hoffman Brothers, New York, N. Y.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CUT SMILAX**  
 12 cents per string.  
**THE NATIONAL PLANT CO.,** Dayton, Ohio.  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**...ONE..**  
**...EDINGS**  
 ARE INCOMPLETE WITHOUT

**Asparagus Plumosus Nanus**

The only perfect decorative green known to the Florists' art. Its keeping qualities are remarkable. It does not wilt in warm weather, and, if necessary, can be arranged several days before the occasion.  
 Cut strings, 12 feet long, 50 cents. This is only

**12 1/2 CENTS PER YARD**  
 Extra long strings can be supplied at special prices.  
 Can furnish strings by the thousand at all times.

**W. H. ELLIOTT, Brighton, Mass.**  
 WHEN WRITING MENTION THE FLORISTS' EXCHANGE

LARGEST AND BEST STOCK OF  
**PREPARED CYCAS LEAVES**

TO BE FOUND ANYWHERE

Metal Floral Designs, Sheaves, Doves, Baskets, Moss Wreaths, Wheat, Milkweeds, Cape Flowers, Wire Work, and all Florists' Supplies.  
Write for catalogue. Free to the trade.

**A. HERRMANN, 404-412 East 34th Street (Near Ferry), New York,**  
Manufacturer of METAL FLORAL DESIGNS, Impairer and Dealer in FLORISTS' SUPPLIES.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**ORCHIDS and GREENHOUSE PLANTS  
FOR SALE.**

Address P. O. Box 665. ALBANY, N. Y.  
Having disposed of several of my Greenhouses and the remainder being over crowded, I have decided to offer for sale the excess, consisting of the greater portion and the choicest specimens of my collection for the past 20 years, either singly or in quantities. They are all well established, in fine condition, and many cannot be obtained in any other collection in America. A printed list sent on application. Sales made at reasonable prices.

**E. CORNING.**

**PALMS, FERNS,  
.. NEW CANNAS ..  
BAY TREES, DRACÆNAS  
SIEBRECHT & SON,  
Rose Hill Nurseries, NEW ROCHELLE, N. Y.**

**CHRYSANTHEMUMS** All the best standard, from \$1.00 per 100. Mrs. H. Robinson, \$1.00 per 100.  
**BOUVARDIAS** Double white, single pink, red and white. From 2 in. pots, \$2.50 per 100.

**VIOLETS** California, Marie Louise, single white, from 2 1/2 inch pots, \$3.00 per 100. Lady H. Campbell, clumps, \$4.00 per 100.  
**C. EISELE, 11th & Jefferson Streets, Philadelphia, Pa.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE



**PALMS**

AND OTHER  
**DECORATIVE PLANTS**  
At Greatly Reduced Prices.  
Stock large and in fine condition.  
Send for new Wholesale list special prices on large orders. Send it list of your wants  
**W. J. BESSER,**  
Plattsburgh, Neb.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE



**PALMS  
AND  
FERNS.**

THE LARGEST STOCK in the West.  
**Geo. Wittbold, 1708 N. Halsted St., CHICAGO.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**POPULAR MEMORIAL DECORATIONS**

ARE NOT COMPLETE WITHOUT  
**MOSS WREATHS**, all sizes. **CYCAS LEAVES**, fresh lot just in, all sizes.  
**IMMORTELES**, all colors.  
**CAPE FLOWERS**, finest in the market. Strictly pure white. **CALAX LEAVES**, green and bronze.  
**H. BAYERSDORFER & CO., 56 N. Fourth St., PHILADELPHIA, PA.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Nephrolepis Exaltata Bostoniensis.**

In large and small quantities from \$40.00 to \$80.00 per 1000.  
**MINE IS THE GENUINE STOCK.**  
**FRED. C. BECKER, - - - 1730 Cambridge Street, CAMBRIDGE, MASS.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CYCAS LEAVES and FUNERAL SHEAVES  
BASKETS AND SUPPLIES,  
SEEDS and SPRING BULBS.**  
At wholesale only; apply for lists. Address  
**AUGUST ROLKER & SONS, NEW YORK,**  
136 and 138 West 24th Street. P. O. Station E.

**NEPHROLEPIS EXALTATA BOSTONIENSIS.  
THE BOSTON DROoping FERN.**

All sold out of small size plants for the present. Orders still booked for June to August delivery. **NOW READY**—splendid plants at \$65, \$50 and \$100 per 1000; \$8, \$10 and \$5 per 100; 50 at 100, 250 at 1000 rate, from bench. Elegant plants in 4, 5, 6, 7 and 8 in. pots, from \$4 per dozen to \$3 each. Excellent Stock of Bedding Plants.  
**L. H. FOSTER, 45 King Street, DORCHESTER, MASS.**  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**EXTRAORDINARY CLEARING OUT SALE  
AT AUCTION**

**PALMS, FIGUS, FERNS, ORCHIDS and CANNAS.**



Also the appurtenances for growing them, consisting of houses, boilers, piping, pots, horses, harness, wagons, implements, etc., etc., also dwelling house, belonging to

**JAMES DEAN, of Bay Ridge, N. Y.**

who is retiring from business, having sold the ground to the city of Brooklyn for the city's use, necessitating his immediate removal. The stock is in excellent condition. The new tariff will have a tendency to make this class of goods much higher this fall.

**IT WILL BE A GRAND OPPORTUNITY FOR FLORISTS TO STOCK UP AND IT WILL PAY EVERYONE TO ATTEND THE SALE.**

Premises can be reached by boat, via South Brooklyn, or Bridge and Fifth Ave. Elevated. Catalogues on application.



**WEDNESDAY and THURSDAY, JUNE 9th and 10th, at 10 O'CLOCK.**  
**WILLIAM ELLIOTT & SONS, Auctioneers, NEW YORK.**

# LIFE FLORISTS' EXCHANGE

We are a straight shoot and aim to grow into a vigorous plant.

A WEEKLY MEDIUM OF INTERCHANGE FOR FLORISTS, NURSERYMEN, SEEDSMEN AND THE TRADE IN GENERAL.

VOL. IX. No. 23.

NEW YORK, JUNE 3, 1897.

One Dollar Per Year.

## VINCA MAJOR VARIEGATA.

Fine, strong plants, with good vines, 4 inch pots; excellent for vases,

\$10.00 per 100.

## CHRYSANTHEMUMS.

### INTRODUCTIONS OF 1896.

Along, Henry Hurrell, Indiana, Infatuation, L'na-wee, Marion Cleveland, Miss L. Magee, Malajo, Mrs. Harry Toler, Mrs. H. H. Biddis, Mrs. Perrin, Mrs. Wm. C. Egan, Mrs. W. P. Raynor, Nanshon, Pluto, Riverside, Yanoa. \$4 Per 100.

### STANDARD VARIETIES.

Louis Bahmar, Major Bonaston, Mrs. J. B. Crane, Eugene Dallesdonze, Miss Agnes Louise Diskov, W. B. Dinsmore, Mrs. A. J. Drexel, L'Enfant des Deux Mondes, Erminda, Mrs. Alphonse Hardy, Marian Henderson, Mrs. Higginbotham, Mrs. E. G. Hill, Deau Hole, Ivory, J. E. Leger, L'Etat Fad, Mrs. George J. Magee, Marie Louise, Misereva, Mrs. S. F. Murdoch, Mattie Noyes, Nanshon, Nivens, Miss Georgianna Pitcher, Miss Florence Pullman, Mrs. Geo. M. Pullman, The Queen, H. W. R. man, Mrs. Henry Robinson, Dorothy Toler, J. H. Troy, Mrs. H. M. K. Trumbly, Viviani-Morel, Mrs. Geo. West, Yellow Queen. \$3 Per 100.

### HARDY POMPON CHRYSANTHEMUMS.

These Chrysanthemums, though in no way new, have not received in past years the attention they deserve, especially for planting in private gardens, where many of the large-flowered varieties do not mature their flowers before the cold weather sets in. We have made extensive trials during the winter that could be found in Europe, Japan and this country, and offer them at \$3 Per 100.

## PITCHER & MANDA, Short Hills, N. J.

JOHN N. MAY, Receiver.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# CANNAS.

Fine, strong, potgrown plants, 3 1/2 to 4 inch pots, with fine tops, ready for immediate bedding.

We offer the following **WORLD'S FAIR BRONZE MEDAL SORTS** at \$8.00 per 100.

Florence Vaughan,	Egandale,
Mme. Crozy,	Chas. Henderson,
Alphonse Bouvier,	Paul Marquand,
Pres. Carnot,	
Also <b>Robusta</b> , the finest of all the dark-leaved Cannas for foliage effects.	

We offer, also, the following **CHOICEST SORTS OF RECENT INTRODUCTION** at \$12.00 per 100.

Eldorado,	Chicago,
Son de Antoine Crozy,	Queen Charlotte,
F. R. Pierson,	

Also the following **NOVELTIES** at annexed prices, viz.:

Pierson's Premier,	\$3.00 per doz.; \$30.00 per 100.
Papa,	5.00 " "
Anitra,	2.50 " "
Italia,	5.00 " "
Burbank,	75c each, 7.50 per 100.

**ABYSSINIAN BANANA.** Strong plants, 3 1/2 inch pots, \$2.50 per doz., \$15.00 per 100.

**CALADIUM ESCULENTUM.** Strong, potgrown plants, 5 inch pots, \$2.00 per doz., \$15.00 per 100.

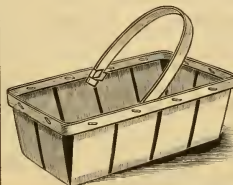
We would also call attention to our **DRACENA INDIVISA**. These are fine specimen stock of extra size plants of which we have so well known. We can offer you these as follows: large plants, 3 to 3 1/2 ft. high, \$3.00 each; extra large plants, 3 1/2 to 4 ft. high, \$5.00 each.

We have an exceptionally fine stock of large **Arcaea**, **Nephtrolepis Exaltata**, **Polystichum**, **Pandanus Veitchii**, **Araucarias**, etc. Will be glad to send our Wholesale Price List, giving list of sizes and prices, on receipt of application.

**F. R. PIERSON CO.,**  
TARRYTOWN-ON-HUDSON, NEW YORK.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

## HIGH GRADE SEEDS AND BULBS



### Smilax String.

The best string in the market for this purpose. 75c per box of 6 spools, 200 yards each. Special price for large lots.

## Verbena Baskets.

Strong, well made, with handles,

\$2.25 per 100. Special prices for large lots.



## IRON BOUQUET HOLDERS.

Tulip shape, No. 4, 20 cts.; No. 5, 25 cts.; No. 1, 35 cts. each.  
Tulip shape, galvanized, No. 4, 20 cts.; No. 5, 25 cts.; No. 1, 45 cts. each.  
Lily shape, No. 0, 20 cts.; No. 6, 30 cts. each.  
Lily shape, galvanized, No. 0, 30 cts.; No. 6, 50 cts. each.

**F. E. McALLISTER CO.** Seed and Bulb Merchants, 69 Cortlandt St. N. Y.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

# Cannas

Fine Started Plants.

**Burbank,** the grand yellow, each, 75c; 6 for \$4.00.

**Italia,** grand scarlet and yellow, each, 50c; 6 for \$2.50.

Florence Vaughan,	Alphonse Bouvier,
Eldorado,	Madam Crozy,
Sophie Buchner,	Secretary Stewart,
Exploretaur Crampel,	Chas. Henderson.

And all the leaders in 3 inch pots, at 4c. to 10c. each.  
Per 100, well assorted, our selection, \$6.00.

**Rose Yellow Rambler,** 2 1/2 inch. Per 100, \$15.00; doz., \$2.50.

**Roses,** PERLES, BRIDES and BRIDESMAIDS, fine, 2 1/2 inch pots, \$4.00.

## Import Bulb Price List Ready.

14 Barclay St. **VUGHAN'S SEED STORE** 84-86 Randolph St. N. Y. CITY. CHICAGO.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

SEASONABLE SEEDS!

BUY FROM THE GROWERS DIRECT

ALL BULBS AND PLANTS

For Summer and Fall Delivery, Quoted at Very Low Rates.

FREE ON BOARD CARS OR BOATS NEW YORK CITY.

HULSEBOSCH BROS., Englewood, N. J.

When Writing Mention Florists' Exchange



PRIMULA FIMBRIATA

(Chinese Primrose). Rubra (Red), Alba (White), Alba Magnifica, Rubra Violacea, Chavick Red, Meteor, Village Maid or Chice Mixed.

Trade Packages, 50c. and \$1.00.

CINERARIA

Hybrida Grandiflora choice mixed, Extra Fine Dwarf Mixed, Grandiflora Kermesina, Dbl. Flowering.

Trade Packages, 50c. and \$1.00.

CALECOLARIA

Hybrida Grandiflora, choice mixed. Trade Packages, 50c. and \$1.00.

WM. ELLIOTT & SONS

NEW YORK, When Writing Mention Florists' Exchange

BURPEE'S SEEDS PHILADELPHIA WHOLESALE PRICE LIST FOR FLORISTS AND MARKET GARDENERS When Writing Mention Florists' Exchange

CANNAS, WATER LILIES AND ROSES

For Immediate Effect.

CANNAS.

Plants from 3/4 in. pots, in flower or coming in bloom. 100 Chas. Henderson, Chevalier Besson, Flamboyant. \$3.00 100 Alphonse Bantier, Comte H. de Chaulant, Paul Braunt, Paul Harcourt, secretary Stewart, Wm. Elliott. 3.50 100 Florence Vaughan, F. H. Pierson, Rue Sarah Hill. 3.00 100 Sambans. 3.00

WATER PLANTS.

Nymphea alba candidissima. 20.00 N. odorata rosea (Cape Cod Water Lily). 12.00 Nymphea ornata alphurea (Golden Water Lily). 15.00 Nymphea maritima chomatella. 15.00 Ferns's Father (Myriophyllum proserpiqueoides). 2.50 Water Hyacinth (Eichornia crassipes major). 3.50

LARGE ROSES.

All are in bud and bloom. 800 Bon Silver, 3/8 and 4 in. pots. 8.00 800 Brides, 3/8 and 4 in. pots. 8.00 400 Cln. Superb, 3/8 and 4 in. pots. 8.00 800 Sanchiras, 3/8 and 4 in. pots. 8.00 300 Queen's Pearl, 3/8 to 4 in. pots. 7.00 400 Tri De Pearl-Pere, 4 in. pots. 8.00 300 Kaleria Ace, Victoria, 5 in. pots. 10.00

THE LOVETT COMPANY

Little Silver, New Jersey. When Writing Mention Florists' Exchange

The Florists' Exchange continue all the time to be indispensable to a florist's business, especially for its advertisement. ARTHUR BOYLE, Santa Fe, New Mexico, Jan. 7, '97.

Indispensable. CLUGAS & BODDINGTON CO., Importers, Exporters and Growers' Agents of Plants, Seeds and Bulbs, 501 and 503 W. 13th St., Telephone Call, 403 15th St. NEW YORK CITY. When Writing Mention Florists' Exchange

PRIMULA SINENSIS SEED

The Wm. Scott strain (grown by Wm. Scott, Buffalo), includes: Our "GREAT SCOTT MIXTURE," from assortment of 10 varieties. Also 4 SEPARATE COLORS, Single White, Pink, Red and Double Red.

Sold only in sealed Trade Packets, at each, 60 cts. Liberal reductions on larger orders as per Free Priced Circular List, for which apply to Sales Agent.

DAN'L B. LONG, Jobbing Florist and Growers' Agent. NEW YORK CITY.

LILIUM LONGIFLORUM.

...JAPAN CROWN... CONTRACTS for small and large quantities closed now. Crop is going to be short. Prices to meet competition. Don't overlook this, but write at once to

F. W. O. SCHMITZ, Importer and Exporter of ONLY superior quality of Florists' supplies. JERSEY CITY, N. J. When Writing Mention Florists' Exchange

BULBS AND ROOTS CLOSING OUT AT CASH BARGAINS.

Table listing various bulb types and prices, including Excelsior Dwarf Pearl Tuberoses, Gladiolus, and others.

FOSTITE, for Mildew on Grapes, Roses, Gooseberries, Potatoes and Carnation Rust, 25 lbs., \$2.00. 50 lbs., \$2.50.

G. H. JOOSTEN, IMPORTER OF PLANTS, BULBS AND SEEDS, 193 Greenwich St., New York. When Writing Mention Florists' Exchange

LOOK! LOOK! LOOK!

Up to JUNE 15th only we look for June-July Delivery.

FREESIA REFRACTA ALBA.



GOOD FLOWERING BULBS. 300 1000 3000 1 1/4 inch diameter... \$0.25 \$2.00 \$8.00 3/4 1/2 inch diameter... 40 2.50 10.00 3/8 inch diameter... 80 2.50 15.00 Mammoth 3/4 inch and up... 1 100 3.25 20.00 Prices include prepayment of Mail or Express Charges.

Extra Offer in Palm Seeds up to June 15th.

Table listing palm seeds and prices: Corypha australis, Phoenix dactylifera, Phoenix canariensis.

Improved LITTLE GEM CALLA.

Smallest size bulbs produce flowers. 3 1/4 inch diameter... \$2.00 per 10; \$15.00 per 100. 1 inch to 1 1/4 inch, per 10, \$2.00.

H. H. BERGER & CO., San Francisco, Cal. When Writing Mention Florists' Exchange

SUMMER FLOWERING BULBS.

CHAS. H. ALLEN, Floral Park, N. Y. When Writing Mention Florists' Exchange

SEEDS for Profit Sweet Peas

Wholesale Catalogue on application. WEEBER & DON, 11 Chambers St., New York City.

BULBS.

Gladiolus, choice mixed... 40 \$5 100 40 \$10 1000 40 \$100 1000. H. G. FAUST & CO., Philadelphia, Pa.

THE JENNINC'S STRAIN

PANSY SEED

NEW CROP. Ready June 15th. E. B. JENNINGS, Southport, Conn. BROWER OF THE FINEST PANSIES.

Fresh Seeds—Callia Bulbs.

Apix Geranium (true), 25 cts. pkt. \$1.00 per 100 seeds; \$1.50 per 1000 seeds. Mrs. Theodosia B. Shepherd, Ventura-by-the-Sea, Cal.

HEADQUARTERS FOR

Cattias and Freesia Bulbs

PAMPAS PALMS, Palm, California Tree and Flower Seeds.

Please let us book your orders for BULBS at once. ASK FOR SPECIAL PRICES.

GERMAIN FRUIT CO. Los Angeles, Cal.

When Writing Mention Florists' Exchange

PALM Seed. FRESH ON HAND. Arzon Intensec, Champerno Elegance, Lantia Barbent, Phoenix canariensis, Phoenix dactylifera, Phoenix canariensis (true), Phoenix dactylifera (true).

SEED TO BE REPORT.

Points and information from seedsmen, and all material in the Address.

Cleveland. This district has seldom grown cold weather seedlings...

Reviewing the seed trade in Cleveland for this season, early indications pointed toward an early spring...

Seed-Growing in California. Mr. Albee Burpee, of Philadelphia, who is now in California...

It is wonderful what California is doing in vegetables. All the beans grown in America, and in fact, all the pole beans...

Mr. Burpee is looking up new strains of flowers and will visit Edward Graff of Alhambra, who has a new cross of large-flowered gladiolus...

European Notes.

Uperipoleis Weather Conditions. The element of ice is still unpropitious, and as a consequence our prospects do not improve...

Just what has set the clerk of the Weather Bureau against the culture of nasturtiums he has not vouchsafed to tell us...

although the west and south appear to have had the worst of it up to now. In Italy cold and unseasonable weather continues.

The German crops are so far removed from the sea that beyond being retarded in their development by the absence of heat...

EUROPEAN SEEDS. GANNAS Austria, Italy, John White, in four inch pots...

IF INTERESTED IN BULBS For Late Summer and Fall Delivery...

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Prize-Winning DAHLIAS AN UNPRECEDENTED RECORD. 23 First Prizes, Certificate of Merit, 2 Diplomas...

W. P. PEACOCK, Dahlia Specialist, ATCO, N. J.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

Pure White Dahlia, BRUCANTII is without question the best payer for Florists.

ALBERT KNAPPER, Frankford, Phila., Pa.

Plants at Auction! THURSDAY, JUNE 10th, 1897, beginning at 10 A. M.

All the Johnson Stock of the late JOHN SAUL, COMPRISING LARGE COLLECTION OF Orchids, Palms, Crotons, Anthuriums...

GREENHOUSES, Hightwood Ave., WASHINGTON, D. C. MARY C. SAUL, WILLIAM J. SAUL, Auctioneer, Executors.

ROSE HILL NURSERIES.

THE LARGEST AND FINEST STOCK IN AMERICA. SPECIALTIES—Palms, Dracaenas, and other Plants Suitable for Vases.

ITALIA, 4 in. pots, \$1 per doz. AUSTRIA, 4 in. pots, \$3 per doz. Queen Charlotte, Columbia, Crozy, \$12.00, 4 inch pots.

SIEBRECHT & SON, Telephone, 151—New Rochelle. When Writing Mention Florists' Exchange

ROEMER'S SUPERB PRIZE PANSIES. The best in the world. Introducing and Grower of all the leading Novelties...

10,000 POTGROWN DAHLIA. Plants (2 1/2 in. pots) in good variety, labeled true, \$3.00 per 100; \$25.00 per 1000.

QUEEN CHARLOTTE CANNAS

ALPHONSE BOUVIER, MME. CROZY, CHAS. HENDERSON. From 4 inch pots, at \$5.00 per 100.

THE ELIZABETH NURSERY COMPANY, Elizabeth, N. J. When Writing Mention Florists' Exchange

SPECIAL OFFER OF A FINE BEECH CANNAS

We offer the following fine varieties, as long as stock lasts, at prices annexed. These are well established plants in 3 and 4 inch pots.

Table listing various cannas with prices: 200 Antoine Riviere, red, \$4.00; 200 Ami Pichon, crimson, 4.00; 200 Ami Jules, bright pink, 15.00; 200 Anstrin, yellow, new, 15.00; 200 Ardenne, red, 15.00; 200 Baronne de Polilly, orange-salmon, new, 4.00; 250 Basselet, red, double, 4.00; 100 Camille Bernardin, salmon, 4.00; 100 Col. Doda, rose salmon, 4.00; 300 C. Reunig, ray carmine, bronze foliage, 4.00; 150 Dent de St. Grey, orange-carlet, bronze foliage, 4.00; 150 Dent de St. Grey, orange-carlet, bronze foliage, 4.00; 150 F. Neuvast, orange foliage, 4.00; 100 Francois Billard, carmine, new, 10.00; 100 Furst Bismarck, large crimson, new, 10.00; 500 Geoffrey M. Hiltre, orange-red, bronze foliage, 4.00; 175 Gloire de Lyonnette, yellow, red blotched, 15.00; 100 Hortense Barbereau, cherry-red, new, 4.00; 100 Eugenerie Alphaud, reddish carmine, bronze foliage, 4.00; 100 Hilda, orange-carlet and yellow, new, 4.00; 150 J. W. Elliott, vermillion, 4.00; 250 J. Thibaut, orange bronze foliage, 4.00; 800 Kaiser Wilhelm, bright red, 4.00; 1700 Melcor, orange-carlet, 10.00; 250 Mme. Thibaut, rose, new, 4.00; 225 Maurice Massy, vermillion, 4.00; 100 Mlle. F. H., crimson, 4.00; 170 Mme. H. Rigaud, cherry-carmine, new, 10.00; 75 Mme. Pichon, lemon, striped, new, 4.00; 250 Paul Lorenz, blood red, 5.00; 150 Papa Treve, orange-carmine, 4.00; 200 Paul Marquis, salmon, 4.00; 200 Progression, yellow, dotted maroon, 4.00; 200 Perfect, orange-carlet, 4.00; 200 Princess Lusignan, orange, 4.00; 200 Princess Louise, yellow, orange-carlet, 4.00; 100 Paul Brunet, orange-carlet, 4.00; 400 Paul Radcliff, crimson, 4.00; 200 Pauline, white, 4.00; 150 Senator Montefiore, yellow striped, 4.00; 200 Seneca, yellow, 4.00; 200 Tendre, crimson-salmon, 4.00; 200 V. de Pres, lizet, cherry-red, new, 15.00.

We offer 30 distinct Varieties, all Correctly Labeled, for \$3.00. HENRY A. DREER, 714 Chestnut St., Phila. WHEN WRITING MENTION THE FLORIST'S EXCHANGE



**SAVE THE BLOOMS!**  
**NIKOTEEN**  
DOES NOT INJURE SENSITIVE  
PLANTS USED FOR FUMIGATION  
OR SPRAYING, INDOORS OR OUT.  
200 POUNDS BRANDED IN ONE PINT BOTTLE  
Price \$1.50. ALL SEEDSMEN.

## STANDARD - POTS.

We are now ready to supply a superior quality of Pots in unlimited quantity. Catalogues and price lists furnished on application.

**A. H. HEWS & CO.,**  
407 NORTH CAMBRIDGE, - MASS.

## STANDARD FLOWER POTS

In any quantity, and of the best quality. Get my price list before ordering elsewhere.

**W. H. ERNEST,**  
Station M, N. E., WASHINGTON, D. C.

**HILFINGER BROS.**

## STANDARD FLOWER POTS.

We manufacture a full line of Standard Flower Pots, Cylinders, glazed and unglazed. Lava Yaws and Hanging Baskets. Which have large, heavy, Lava Yaws, 17 1/2 inch high, 11.00 each; 18 1/2 inch high, 11.25 each. Extra Heavy, 12 inch high, 10.00 each; 10.00 1/2 inch pots, at \$1.00 per 100; 6.00 1/2 inch pots, at \$1.00 per 100.

Send for Price List for other sizes before ordering. Address:  
**HILFINGER BROS.,** Fort Edward, N. Y.  
or **ALBERT BOKER & SONS,**  
136 & 138 W. 24th St., N. Y. City.

## IMPROVED GLAZING.

**J. M. GASSER'S**  
**PATENT ZINC JOINTS**

For Butting Glass Without Laps.  
Makes a Roof Air and Water Tight. Saves Fuel. No Breakage from Frost or Medium Sized Hail. Manufactured by

**J. M. GASSER,**  
101 Euclid Avenue, CLEVELAND, OHIO.  
Wholesale and Retail Florists.

Write for Prices and Circulars,  
When Writing Mention Florists' Exchange

## Standard Flower Pots.

Send for our New Price List with extra discounts. All our Pots, from 7 in. and upwards, have our Patent Elastic Rubber Gaskets, which is a great advantage, as it leaves perfect drainage.

A FULL LINE OF BULBS FANS.  
**THE WHILLDIN POTTERY CO., 713 to 719 Wharton Street, PHILADELPHIA.**

BRANCH HOUSES: 1 Jackson Ave. and Pearson St. Jersey Island City, N. Y.

## FLOWER POTS

We are Manufacturing a Full Line of  
**STANDARD FLOWER POTS AND HANGING BASKETS**

of Superior Quality of THE BEST MATERIALS.

Our Shipping Facilities First-Class, thereby Securing Lowest Freight Rates.  
Goods are well packed, and breakage is nominal. Give us a trial. Send for Price List.

Address **THE SYRACUSE POTTERY CO., 403 N. SALINA ST., SYRACUSE, N. Y.**  
When Writing Mention Florists' Exchange



Made of Cypress,  
Cheap  
and Durable.

**Columbia Plant Tubs,**  
Manufactured by  
**Home Rattan Co., Chicago, Ill.**

When Writing Mention Florists' Exchange

## Hot-Bed

# Sash

Tenons white-leaded. Corners secured with iron dovetails. Every detail of construction perfect. Made of Clear Cypress Lumber.

### Quick Shipments.

We have in stock and can ship immediately:

3 ft. x 6 ft., 3 Rows 10 in. glass.  
3 ft. 6 in. x 6 ft., 4 " 8 in.  
4 ft. x 6 ft., 5 " 8 in.

Not glazed, 1 1/2 in. thick.

### Delivered Prices

Quoted on application. State size and quantity wanted. No order too small to receive careful attention, and none too large for our facilities.

**LOCKLAND LUMBER CO.,**  
Lockland, Ohio.

When Writing Mention Florists' Exchange

## CHOCOLATE COOLER CO.,

GRAND RAPIDS, MICH.  
Manufacturers of

## FLORIST'S REFRIGERATORS.

Send for Circular.  
When Writing Mention Florists' Exchange

## The Strength of a Child

pushes the "Simplex" Hose Mender into place. No tools required.

## The Strength of a Horse

cannot pull it out.  
1/2 inch or 3/4 inch by mail, 10 cts.  
No tools required. No set.

**ELECTRIC HOSE**  
can be bent double, twisted into any shape, or run over by teams without injury. Send for sample.

**A GOOD LEAF SPRINKLER,**  
By mail, \$1.00.  
**KING & KNIGHT, 35 E. Wendell Street, Boston.**  
When Writing Mention Florists' Exchange

## Standard Flower Pots.

Send for our New Price List with extra discounts. All our Pots, from 7 in. and upwards, have our Patent Elastic Rubber Gaskets, which is a great advantage, as it leaves perfect drainage.

A FULL LINE OF BULBS FANS.  
**THE WHILLDIN POTTERY CO., 713 to 719 Wharton Street, PHILADELPHIA.**

BRANCH HOUSES: 1 Jackson Ave. and Pearson St. Jersey Island City, N. Y.

## FLOWER POTS

We are Manufacturing a Full Line of  
**STANDARD FLOWER POTS AND HANGING BASKETS**

of Superior Quality of THE BEST MATERIALS.

Our Shipping Facilities First-Class, thereby Securing Lowest Freight Rates.  
Goods are well packed, and breakage is nominal. Give us a trial. Send for Price List.

Address **THE SYRACUSE POTTERY CO., 403 N. SALINA ST., SYRACUSE, N. Y.**  
When Writing Mention Florists' Exchange



Made of Cypress,  
Cheap  
and Durable.

**Columbia Plant Tubs,**  
Manufactured by  
**Home Rattan Co., Chicago, Ill.**

When Writing Mention Florists' Exchange

## CORRESPONDENCE.

Insertion will be given to this column to all communications, free from animosity, but the opinions expressed do not necessarily rest our own.

## Winter-Blooming Nymphs.

Editor Florist's Exchange:

Mr. Tricker uses a rather tricky method of bolstering up his "misgivings" by quoting just what he writes in his notes and leaving out the parts which make my meaning plain. He quotes (p. 552) "I am of the opinion that nymphs would pay all right," and, "no florist who has his wits about him is in danger of being so occupied." What I did say was (p. 487): "The probabilities are that nymphs flowers would pay all right if the winter treatment of the plants was thoroughly understood." Again, to quiet his fears on reading the above, that there would be a general cleaning out of rose and carnation houses in favor of nymphs (p. 487) he writes: "The florist who has his wits about him is in little danger of floundering into winter work with the nymphs." This has been demonstrated clearly that it would be advisable so to do."

Now, I am yet inclining to the belief, notwithstanding Mr. Tricker's "clear figuring," that we have more to learn on the subject, and it is yet too early to say that the growing of winter-blooming nymphs for profit is out of the question. I, of course, do not advocate the growing of the plants on a large scale right away without any further knowledge of their requirements. I am already of the opinion that Mr. Tricker seems to think I do; sorry, but I can't see why he does. What he says is, "I do not know of testing and experimenting, as has been done already with every other class of flower," "nymphs of houses" (my friend will go to extremes) and in the usual quiet but effective way.

Mr. Tricker (p. 471) states that an objection to the use of these flowers is that they do not sleep; that is, do not close before they can be used. That difficulty was overcome some time ago, and the night-blooming cereus will now awake in the daytime and the day-bloomers likewise in the night. He writes and an interesting description of how to do it in the London Gardeners' Chronicle (No. 428, p. 303). In the same editorial there is a list of the most profitable varieties which have been tested under glass for the growing of blooms for cutting purposes.

Mr. Tricker asks for a list of the best winter-blooming nymphs for the benefit of the Florists' Exchange and says such information is necessary in the cultivation of roses, carnations, and chrysanthemums. I have said nothing about any of them since they need not and I do not intend to. Will Mr. Tricker give lists of the best roses, carnations and chrysanthemums? I may, but no cultivator would give a paycheque for them. An intelligent grower will quickly ascertain which roses, carnations and chrysanthemums are his bread-winners; picking them out for other people is another matter; and so with nymphs. Among the species and forms I have named as doing well with me there is enough material to grow with.

By the way, in the Gardeners' Chronicle (No. 428, p. 266), there is an interesting account of a large experiment having been started for the wholesale cultivation of tropical nymphs under glass, solely for the flowers. The Messrs. Harster, of Speyer. It is there stated that their cultivation is proceeding in grand style.

Mr. Tricker disclaims having made any reference to the temperature of the atmosphere when he says a temperature of from 75 to 80 degrees is dangerous. It looks to me quite evident that

atmospheric temperature was what he referred to when he talks about a "high, close temperature." Isn't this a new way of stating the condition of water, Mr. Tricker? In gardening phraseology I would suppose the above to be descriptive of the condition of the atmosphere. Again, same page, he mentions that "growth made the high close temperature produces a fungoid growth on the leaves." Can he wonder at it? The wonder is that he has not experienced any leaves at all under the conditions he describes, and which he now seeks to disavow. Too thin, Mr. Tricker, try again!

## Watering Plants in Sunshine.

This question opens up the much-discussed and broad subject of watering and the small number of answers must be left to the good judgment, experience and facilities of the individual. Watering during sunshine may be done in such a manner as to be harmful and also in such a manner as to be beneficial. I think, however, that when under proper conditions watering operations may be carried on at all times in the sunshine, without injury to the plants, and am positive that plants in pots, boxes, tubs, etc., may, at any time of the day, and, indeed, should be whenever dry. But I am of the opinion that the plants that are growing in a high temperature, I consider that would be injured, and that the water applied to the roots or foliage.

This is a point upon which the late Peter Henderson and George Nicholson do not agree. Peter Henderson, in his Handbook of Plants, says, he "rarely waters a plant at a higher temperature than 45 degrees, and in twenty-five years' experience saw no bad plants." George Nicholson, in the Dictionary of Gardening, says: "Water should not be applied to plants at a higher temperature than 45 degrees, and if they are at the time subjected. Particularly does this apply to such as are grown in pots."

I agree with George Nicholson, because my practical experience has shown that if plants have made it possible to follow his practice) have always been, and will be, successful. I need no bad results consequent on such practice; but on the other hand I have seen many plants that have died, the consequence of using cold water upon the foliage (this had been used from necessity) and I have seen many plants in a palm house at a temperature of 80 degrees does it appear reasonable that the water applied to the water can, say twice a day, be applied to the roots, thus lowering the temperature of the root and its surroundings by 30 or 40 degrees? And then twice a day, with a hose pipe, applying to the foliage the water at a temperature greater than the temperature of the house?

Can we be surprised if the stomata of plants shut and refuse to perform necessary functions under such treatment as this? If it were a human body we should expect to get a severe cold or rheumatic fever. Such treatment is likely to bring spot upon palms, milium and sprout on roses, and lead upon grape vines and cucumbers. I am of the opinion that these fungoid growths are the result of the stomata being surcharged with water, which, because of the sudden lowering of the temperature from the application of cold water, have closed, and so transpiration has, for the time, stopped. The result is, of course, the result being a diseased plant.

All horticultural establishments, be they greenhouses or open beds, are amply provided with facilities for warming water for watering purposes. Even grape and peach borders, where the forcing is practiced, need warmed water. In England few good establishments ever stop watering inside fruit borders, except with water at a temperature of at least 50 degrees, while pine stores would get the water at 70 degrees, the temperature of the bottom heat.

With facilities for applying warm water watering operations may be carried on during sunshine, or even at a high temperature is kept up under glass, at any time of the day. The application of water to foliage, too, in sunshine, is not injurious, but highly beneficial, and is generally practiced in good establishments. The houses being closed after such opera-

**THE ROSE EXTRACT**  
**FOR ALL TOBACCO FLORISTS.**

FOR SALE BY  
Sole Agents,  
For Free Pamphlet, Write to  
L. C. BROWN, 1511  
SPRUIT CREEK  
TOBACCO CO.  
LOUISVILLE, KY.

When Writing Mention Florists' Exchange

tion and run up to a high temperature. Were cold water used under these circumstances the results would be highly injurious to the plants.

The same reasoning applies to outside watering on a hot day, under a bright sun. With water at or near the temperature of the atmosphere, watering could be done without fear; but, except in cases of necessity, or under proper conditions, few care to do it, for unless very large quantities of water are used the plants would derive small benefit from the treatment. For naturally, falling upon a hot, parched earth, in full sunshine, nearer noon than either end of the day, the water would quickly vaporize and pass off into the atmosphere. And so much labor and water would be wasted.

Trees and shrubs that need watering may be watered at all times of the day; done it could not be accomplished by watering mornings and evenings only. If the shrubs are growing on a steep hillside I thrust in a fork behind the plant, then give the fork a pull forward. This leaves an opening for the water to get down. In some cases a spadeful of soil is taken out from behind the plant, leaving a hole for the water to be poured into. All trees and shrubs in the soil around them opens with a fork before being watered, thus insuring the water getting down to the roots. If mulched afterwards one watering will serve for a long time, depending, of course, upon the holding nature of the soil, and no matter how hot the sun may be, if the watering be carried out in this manner there is little loss from evaporation.

For watering ordinary crops in the vegetable garden or flower beds, I prefer the evening, although by mulching and frequent stirring of the soil I try to avoid watering as much as possible. If I commenced it is necessary to continue the operation; and unless an adequate supply of water is assured for this purpose, it is better not to commence at all.—WALLACE G. GOMBERG-SALL, N. Y., in American Gardening.

**American Association of Nurserymen.**

At the annual convention of this association, to be held in St. Louis June 9 and 10, the following papers will be read and discussed:

- "Piece Roots vs. Whole Roots," E. J. Holman, Leavenworth, Kan.
- "Sending Trade Lists to Planters," C. L. Watrous, Des Moines, Iowa.
- "American Law, State or National; Which Shall It Be?" Hon. N. H. Albaugh, Tadmor, Ohio.
- "The Nurseryman as an Educator," Professor Fred W. Card, of the University of Nebraska.
- "Relation in Relation to Suppression of San Jose Scale," and "Treatment of Nursery Stock by Hydrocyanic Acid Gas Process," by Professor W. B. Alwood, Virginia Agricultural Experiment Station, Blacksburg.

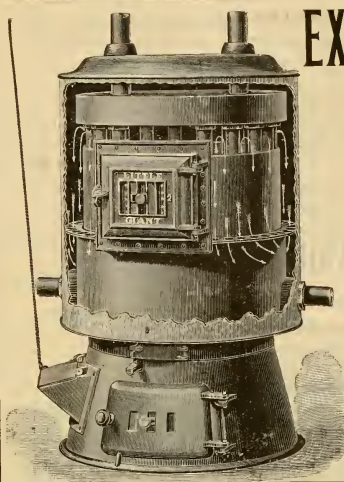
Meetings of protective associations will be held Wednesday evening. Many of the members will, of course, visit the exhibition in botanical gardens, and this, with the unusual number of important matters to be considered, makes it necessary continuing Thursday's session into Friday.

**Exhibitions.**

**Louisville, Ky.**—The advances preliminary list of the sixth Kentucky Horticultural show and floral festival, to be given by the Kentucky Society of Florists has been published. The exhibition will be held November 10-13 inclusive. Secretary, F. C. Haupt, 241 West Jefferson Street, Louisville, Ky.

**Their One Consolation.**

I can scarcely imagine any industry which has done as much for mankind in the whole country at large, and produced so few millionaires. Most nurserymen die comfortably poor in the estimation of the masses look upon wealth, but rich in the satisfaction of knowing that as business men they are a national standpoint they have done much to benefit mankind, and made this country more desirable for home builders.—Seattle Post.



**EXPERIENCE TALKS**

**FOLLY BELIEVED**

all things and WISE men will learn by the experience of others how to avoid

have been telling that we make a good boiler; that it will do good work and save fuel. Admiring as it may seem, many Florists have

our statements and have bought our boilers and profited thereby. Others have not believed them and have kept right along using

**"ANY OLD THING"**

that wastes their time and money, imperils their stock and wears their patience. To this large class we would say, DON'T believe us, but BELIEVE persons who have had experience with the boilers and note what they say.

For instance:

**M. S. WORDEN, North Adams, Mass.**  
Writing me recently about my No. 12 Little Giant Hot Water Boiler, and it is a "Giant" indeed. It heats so much that I am thinking of building another one. I now have, and feel confident it will take care of the whole lot right. You need not hesitate at my trial if any one wants to know about the boiler, to which we will write me.

Our catalogue is **FREE** and our prices are **ENTICING**. **GIBLIN & CO. Utica, N. Y.**

When Writing Mention Florists' Exchange

**Will the Interested Readers of the**



Kindly notice on page 559 a form that will save them much time, and aid in my giving a direct answer as to cost on their work, also please state when houses will be ready to be fitted up, and oblige

**E. A. ORMSBY,**  
Melrose, Mass.

When Writing Mention Florists' Exchange

**SEND FOR OUR NEW CATALOGUE, WHICH SHOWS**

**The New Automatic Cable Ventilator**

As it is put up in the house complete. We also give you prices with a guarantee that each machine sent out will operate your house successfully. Sell machines now made in two sizes.

**A. Q. WOLF & BRO., Dayton, Ohio.**

When Writing Mention Florists' Exchange

**STANDARD VENTILATING MACHINE.**

**EQUAL IT IN Strength AND Durability**

**NOTHING Flimsy OR Complicated about it.**

Send for Catalogue. **E. HIPPARD, YOUNGSTOWN, OHIO.**

When Writing Mention Florists' Exchange

**TRADE GREENHOUSES.**

**THE BEST MADE.**

"Florists" Get Your Plans and Estimate from

**PLENTY'S HORTICULTURAL WORKS,**

148-156 Randolph Ave., **Jersey City, N. J.**

When Writing Mention Florists' Exchange

**GROW PLANTS IN "Jadoo" Fibre. WATER THEM WITH "Jadoo" Liquid.**

When Writing Mention Florists' Exchange

**VALVES, FITTINGS AND APPARATUS.**

**COLDWELL WILCOX CO.,**  
Newburgh, N. Y.  
Mention paper.

**Chadborn's Automatic Ventilator**

**CHADBORN, KENNEDY & CO.**  
NEWBURGH, N. Y.

When Writing Mention Florists' Exchange

**Evans' Improved Challenge.**

Roller bearing, self-acting device, automatic stop, solid tin chain, makes the most perfect application in the market. Write for catalogue and prices before placing your orders elsewhere. **Quaker City Machine Co.,** RICHMOND, IND.

When Writing Mention Florists' Exchange

**IF YOU WANT A GOOD SASH LIFT**  
For a Very Little Money Get

**THE NEW DEPARTURE VENTILATING APPLIANCE.**

For Descriptive Catalogue Send to **J. D. CARMODY, Evansville, Ind.**  
When Writing Mention Florists' Exchange



The Hamburg Exposition.

Regarding the Hamburg International Horticultural Exhibition, which opened on May 1, the Gardeners' Magazine, speaking of the exhibition, says: "The exhibition after its opening."

"The exhibition is the most important that has been held in Europe in every way worthy of that enterprising city, and cannot fail to afford satisfaction to those visiting the city for the first time. In the past two years, have given so freely of their time and talent to making the needful arrangements, that the committee are fortunate in securing for the purposes of the exhibition an ideal site, covering an area of about thirty acres. It affords abundant space for both exhibits and visitors; highly picturesque, it has given full opportunity for the display of the landscape gardeners' art; and situate within a short distance of the centre of the city, and nearly surrounded by tram lines, it can be readily reached from every part of the city. The site, which forms part of the moat that originally surrounded the city, is one of its most important open spaces, and the public spirit evinced by the citizens is worthy of imitation. They not only have not only readily surrendered their rights for a garden, but also provided the means for erecting the necessary grounds and the erection of the necessary buildings.

The permanent exhibition, which will be continued until the end of September, includes collections of evergreen, deciduous and coniferous trees and shrubs, and is arranged with due regard to general effect; and in the beds and borders, a large collection of highly bulbous and perennial plants to be in due course supplemented by tender plants. The horticultural exhibition of the flower garden during the summer. Just now the tulips, of which many of the borders are planted, are coming freely into flower, and should form a feature of more or less interest upon the mind and eye of the visitor. Freesia has been and still is given the water lilies at night by means of canals, and the flowers of the fountain in the centre of the margin of the water garden are provided for the accommodation of the plants, cut flowers, fruits and vegetables contributing to the appearance of the display, and, as so strikingly exemplified by the inaugural show now being held, admirably adapted for the purpose.

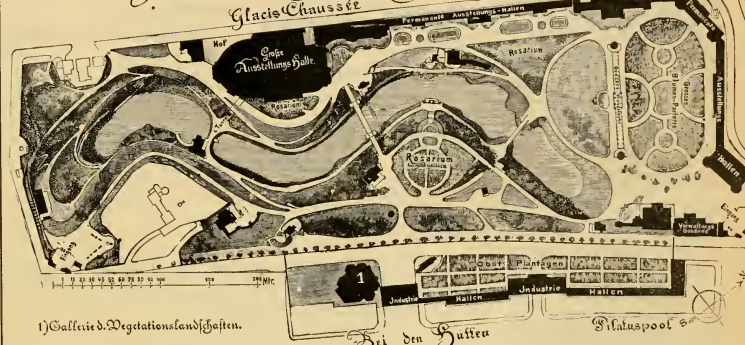
"The structures provided for these special shows form a continuous line of upwards of two thousand feet, and they are so designed as to form a series of handsome buildings culminating in the great hall. This is unquestionably the most magnificent structure that has yet been provided in Europe for the purpose of horticultural exhibitions, and in admiring its stately proportions it is impossible to restrain a feeling of regret that the art of horticulture is not in our position occupied by horticulture in the United Kingdom, no such hall could be erected in this country. The products of the garden. The special show now being held has, like the other horticultural exhibitions, and some weak features, but these are more than counterbalanced by strong ones, and the arrangement of both the living and ornamental-leaved plants, are of an immense value. Our German friends have many plants that which finds their way into this country, and we would like to follow their example, and break away from the flatness and rigidity which have characterized some of the groups presented to public notice at our exhibitions.

"We had a considerable number of classes provided for them, and as the competition is keen, and the whole of the arrangements are so magnificent, they constitute a magnificent feature. These are all arranged in the great exhibition hall, which is a broad terrace with a wide border next the wall, and at the end of the terrace is a large open space, and a winding stream which in the centre widens into a miniature lake, and is a very attractive feature.

at present occupied chiefly by Indian azaelas, and on the central portion of the turf are grouped flowering coniferae plants of various descriptions. In some cases they are placed in circular groups, and in others they are arranged in irregular groups or dotted about on the grass. Ornamental-leaved and flowering plants are balanced with great judgment, and the colors of the general schemes are so well harmonized as to produce an effect at once rich and effective. Immediately below the balustrade of the main aisle, a large bank of azaleas comprising one hundred finely-flowered specimens, beyond is the great bank of its beds and groups of plants and miniature lake, and rising as it were from the turf is a semi-circular bank of its beds and groups of one hundred feet across, flanked by rhododendrons and fine foliage plants, this bank of plants being so carried up as to appear to merge into the plants with which the orchestra is so lavishly and tastefully decorated.

"The principal groups for effect are arranged on the borders that skirt the

Allgemeine Gartenbau-Ausstellung Hamburg 1897



1) Gulleried, 2) Vegetationsland, 3) Garten.

Plan Showing Arrangement of International Horticultural Grounds and Buildings, Hamburg.

terraces; and as the terraces are five or six feet above the general level of the hall, and the majority of the plants employed of the largest size, many of the palms employed rising to a height of fifteen or sixteen feet, they produce an effect which for boldness is seldom approached at exhibitions at home, and, indeed, could not be equalled at gatherings at which the plants are arranged in such a manner as to form a mass of foliage and flowers, extending the whole length of both of the terraces, one group on each side immensely to the general effect within the great hall.

"The most remarkable contribution of palms to the exhibition is that from L. Winter, Bordighera. He has provided this a house about one hundred feet by twenty-five feet, with huge specimens of a variety of species, and some fully twenty feet high, and all perfect in development. The species most strongly represented are Ficus, Ficus, of which, in addition to those within the building, there are two groups of specimens, comprising some dozen specimens outside flanking the entrance, and giving the visitors a glimpse of the plants as they display within the structure. It was interesting to observe that the pots and tubs employed for the plants are of a size large enough to receive the stem, and consequently boxes in which plants of this size are grown are only eight or ten inches in diameter are growing are only eighteen inches square. The same exhibitor has also outside, and not far from his palms, a superb collection of agaves, opuntias and plants of a similar character, which, by reason of their large size and splendid condition of the individual plants, is especially attractive.

St. Louis.

Business Poor.

The business of the past week was the poorest experienced here for a long time. Daily receipts were surprisingly light, but proved more than ample to fill all demands. As is usually the case when trade is dull, the fakers were numerous. They were supplied with good flowers—carnations mostly—and sold them at 20 cents a dozen. One of our progressive retailers profited by the task by administering to the fakers a dose of their own medicine, and the drastic measures adopted by him says were warm and the nights so cool that failure on the part of growers to keep up fires

decoration at a farewell dinner given by his colleagues to Mr. Nugent prior to his departure to his castle in Wales. The body of the whale was made of by red carnations. The whale attracts the attention of every passerby, and the committee passed upon it are gratifying to Manager John Kuntz.

Mr. Koenig sails for Europe.

Julius Koenig and Mrs. Koenig left last Wednesday for New York, whence they will sail, on June 10, by steamer Barbarossa, for Bremen, on a visit to Germany. C. G. P.

Pittsburg.

Market Slow.

Trade for the past week was rather slow, but picked up the day before Memorial Day, which was observed in our vicinity on Saturday. The florists all report good business for Friday and Saturday up to noon; after that most of the stores were closed, and stock was used up. The weather still being too cold for the season, not many

caused an increase in the number of mildew roses, a defect was in best demand and if there was a shortage at any time it was in that variety. Perle was not so abundant as Friedemann, Bride and Kaiserin. The last two varieties showed great staying qualities. Funeral work was very scarce and purchasers of white roses were restricted to counter trade. La France and Testout sold fairly well, but only those with good foliage and stiff stems were wanted.

"Orders arrived in great quantities. Fancy stock sold well at \$1, but standard quality dragged at 50 cents per 100. Callas was plentiful and sold well at 6 cents. Daybreak, when good, found ready sale, but this variety was scarce more from heat than any other. Red and white were a drug. The prices were abundant and sold at \$2 to \$4 a 100; sweet peas were a glut and hard to sell clean at 20 cents per 100. Daybreak was plentiful and sold well at 6 cents. Callas are held at 6 cents; carnations at 50 cents per 100; and some of the other varieties at 100. Satisfactory and light demand at \$10 per 100.

"Memorial Day Trade was a disappointment. The business was scattered over a few days, but the sales did not aggregate to much as those of the corresponding day last year. There was a light trade, but local demand was light. The veterans in parade all carried baskets filled with cut flowers. At the Grand Monument there were several handsome devices, but most of the flowers placed there were outdoor roses. Still the effect was very beautiful and Colonel North deserves credit for the arrangement. Jordan has a "whale" in his window, rose part of a unique table

plants were to be had in bloom, and this no doubt helped the sale of cut flowers considerably. Prices advanced quite a distance from 35 cents to 50 cents per dozen. Sweet peas are in fair demand; 50 cents per hundred is the growers' figure. Harriell lilies are quite abundant again.

"The bedding plant trade, up to Decoration Day, was the worst ever known and is now very quiet. If no improvement takes place some many plants will be left unsold. The condition of most of the stock offered was a sufficient reason for slow sales, as plants were not far enough in bloom to tempt purchasers to take them. But this was not all. The weather was so much below the low temperature and cloudy weather during May kept the plants back.

"This, the first day of June, finds no improvement in the weather, and it looks as if a frost may appear on the morning of the 3d.

"The prospects for a fair trade in cut flowers look very promising from now on. The first day of June, finds no improvement in the weather, and it looks as if a frost may appear on the morning of the 3d.

"Jottings.

C. T. Siebert has vacated the store on Federal Street, Allegheny, as it was rather inconvenient for him to attend to it properly; besides his East End office is gaining trade right along, and with it and the Pittsburg market stand he will find trade enough for the sale of most of his stock.

W. J. Boas, representing Edwards & Decker, of Philadelphia, was in the city. E. E. FOSTERMAN.



# INTERNATIONAL HORTICULTURAL EXHIBITION, AT HAMBURG, 1897.

When Writing Mention Florists' Exchange

FROM MAY TILL OCTOBER.

grow very strong and produce fine flowers during summer. Meteor is an extremely hardy rose, standing the severest frosts without any protection whatever. Late next fall I intend taking up quite a number to put them and bring in bloom for Easter.

I would advise those who have some Beauty wood left in July, and have some of the best stock on hand, to double-bud a few; that is, put two buds on each stock, and in the fall put one or two stocks together in a six-inch pot. If placed in a cellar or cold house until they are needed to be started into growth and given the proper treatment, such as is extended to pot hybrids, each will develop a stem about eighteen inches in length, with a grand flower, making an ideal pot plant which sells very readily.—H. H.

**PLANTING THEM.**  
For cut flowers for home trade, in pink, we have for ear y a good one in Glory of the West, and also Miss Agnes Louise Dalskov. (Pink Ivory is very pretty, but not lasting in color. Mme. Felix Perle is best, and also Merveille, according to their merits, as placed by Glory of the Pacific, pink; Mme. Ferd. Bergmann, white; Ivory, white; Pink Ivory, Miss M. Johnson, Minerva and H. L. Sunderbush, yellow; Louis Boehmer, pink; L'Enfant des Deux Mondes, white; Mutual Friend, white; G. W. Childs, red; and for later varieties, W. H. Lincoln, Major Bonaffon, yellow; L. Canning and Mrs. Jerome Jones for white, and Dean Hole shapes, up to size, and can be had in the early part of November. I hope that this set soon will be improved by seedling.

By this time, the things begin to show empty places, and houses ought to be well filled up, so that time we will be able to begin our preparations for planting, which subject will be treated on in my next.  
—Tito, Bock.

**PLANTING THEM.**  
For cut flowers for home trade, in pink, we have for ear y a good one in Glory of the West, and also Miss Agnes Louise Dalskov. (Pink Ivory is very pretty, but not lasting in color. Mme. Felix Perle is best, and also Merveille, according to their merits, as placed by Glory of the Pacific, pink; Mme. Ferd. Bergmann, white; Ivory, white; Pink Ivory, Miss M. Johnson, Minerva and H. L. Sunderbush, yellow; Louis Boehmer, pink; L'Enfant des Deux Mondes, white; Mutual Friend, white; G. W. Childs, red; and for later varieties, W. H. Lincoln, Major Bonaffon, yellow; L. Canning and Mrs. Jerome Jones for white, and Dean Hole shapes, up to size, and can be had in the early part of November. I hope that this set soon will be improved by seedling.

Chas. Davis, Col. Wm. B. Smith, for bronze; John Shrimpton, red; West, red, 31 no color; Miss George's Bramhall, light straw color. White Swan is a fine pure white lady variety.

The number of varieties can be extended at will, but the ones named are good breed-winners.

For pot plants, I will simply name such kinds as will make shapely plants without much staking. This list is headed by Fairy King, pink; followed according to their merits, as placed, by Glory of the Pacific, pink; Mme. Ferd. Bergmann, white; Ivory, white; Pink Ivory, Miss M. Johnson, Minerva and H. L. Sunderbush, yellow; Louis Boehmer, pink; L'Enfant des Deux Mondes, white; Mutual Friend, white; G. W. Childs, red; and for later varieties, W. H. Lincoln, Major Bonaffon, yellow; L. Canning and Mrs. Jerome Jones for white, and Dean Hole shapes, up to size, and can be had in the early part of November. I hope that this set soon will be improved by seedling.

By this time, the things begin to show empty places, and houses ought to be well filled up, so that time we will be able to begin our preparations for planting, which subject will be treated on in my next.  
—Tito, Bock.

**CUT ROSES AND CARNATIONS always in stock.**  
**H. DALE, Brampton, Ont.**  
When Writing Mention Florists' Exchange

**PERLE ROSES. ROSES. LOOK HERE**  
3 INCH POTS.  
\$5.00 per Hundred. Cash.  
**EDWIN A. SEIDEWITZ,**  
36 W. LEXINGTON ST., BALTIMORE, MD.  
When Writing Mention Florists' Exchange

**ROSES. WHITE COCKET**  
Sterling American Novelty, the  
Finest Rose from 2 1/2 inch Pots.  
Per 100 \$25.00  
Per 50 \$12.50  
**Bride**..... \$3.00 \$25.00  
**Bridesmaid**..... 3.00 25.00  
**Mermel**..... 3.00 25.00  
**Meteor**..... 3.00 25.00  
**Mme. Hosh**..... 3.00 25.00  
TERMS: Cash with order.

**CHAS. E. SMITH,**  
Cor. Jefferson and Jackson Aves., YORK, PA.  
When Writing Mention Florists' Exchange

**J. COOK, 310 CHARLES STREET, Baltimore, Md.**  
When Writing Mention Florists' Exchange

**40,000 FIRST QUALITY FORCING ROSES** Ready for immediate planting.  
Fully equal to those sent out the last four years, first-class and perfectly healthy in every respect.  
**WOOTTON, LA FRANCE, AMERICAN BEAUTY, BELLE SIBERICH, METEOR, KAISERIN A. V., SUNSET, BON SILENE, NERMET, PERLE, NIPHETOS, BRIDESMAID, SAERANG.**  
3 inch pots, \$7.00 per 100. 4 inch pots, \$10.00 per 100.  
Mention this paper. **J. L. DILLON, HUNTSBURG, Pa.**

**PHILADELPHIA ROSES**  
Strictly first-class, clean stock, in 3 inch pots.  
... Beauty, Meteor, Bride, Bridesmaid ...  
**MYERS & SAMTMAN, Wyndmoor, Chestnut Hill, Phila., Pa.**  
When Writing Mention Florists' Exchange

**50,000 BRIDE AND BRIDESMAID! 50,000** Extra Fine.  
From 2 1/2 inch pots..... \$2.50 per 100; \$20.00 per 1000  
From 3 inch pots..... \$4.00 per 100; \$40.00 per 1000  
From large 3 1/2 inch pots..... \$5.00 per 100; \$50.00 per 1000  
Limited amount of **Goutier, Niphelos, and Wootton**, 2 1/2 in. pots, at \$3.00 per 100.  
**CUM SIBILANT**, cents per string.  
**TERMS CASH.** **THE NATIONAL PLANT CO., Dayton, Ohio.**  
When Writing Mention Florists' Exchange

**REINBERG BROS. ROSES** From 2 1/2 in. pots.  
Golden Gate, Perle, Belle Siberich, Meteor, Bride, Bridesmaid, Kaiserin, La France, Feasts, \$2.50 per 100; \$20.00 per 1000. No orders for less than 100 of any variety accepted. Special prices on large lots. The above stock is **remember our stock took first prize at the Chicago Flower Show.**  
**CARNATIONS.**  
Stern King, Lizzie Gilbert, Rose Queen, \$1.00 per 100; \$5.00 per 1000. **Wm. Scott and Lizzie Metwain**, \$1.00 per 100; \$7.00 per 1000. Also Metwain, out of date, \$1.00 per 1000. No orders for less than 100 of any variety accepted. **Special prices on large lots.** The above stock is well rooted and free from rot.  
**SMILAX, \$1.50 per 100. 51 WABASH AVENUE, CHICAGO, ILLS.**  
When Writing Mention Florists' Exchange

**ROSES. CARNATIONS.**  
400 Fern, Carnet, 3 1/2 in. pots..... \$12.50  
1000 Bride, 3 in. pots..... 40 \$30.00  
2000 " 2 in. pots..... 3.00 20.00  
1000 Bridesmaid, 2 1/2 in. pots..... 3.00 20.00  
500 Kaiserin, 2 1/2 in. pots..... 3.00  
500 La France, 2 1/2 in. pots..... 3.00  
100 Pierpont, 2 1/2 in. pots..... 2.50  
100 Pierpont Morgan, 2 1/2 in. pots..... 2.50  
4000 McGowan..... \$2.00 \$10.00  
4000 Wm. Scott..... 2.00 10.00  
1000 Amphipol..... 2.00 10.00  
5000 BELLA..... 10.00  
500 S A P A R A G U S P L U M O S A  
Moss, 2 1/2 in. pots..... 2.50  
SVA INSKA, 2 1/2 in. pots, \$2.00 per 100.  
CUM SIBILANT, best varieties, \$2.00 per 100.  
Above stock must be moved at once to close out business. Positively cash with all orders.  
**WM. C. SMITH, 61st and Market Streets, Philadelphia.**  
When Writing Mention Florists' Exchange

**LOOK HERE**  
The following plants are in all condition.  
10000 set of 2 in. pots. Bridesmaid and Bride, \$3.00 per 100; \$30.00 per 1000; Meteor, \$3.00 per 100; \$30.00 per 1000.  
Asters, out of 2 1/2 inch pots, \$2.00 per 100.  
7000 set of 2 in. pots. Bridesmaid and Bride, \$3.00 per 100; \$30.00 per 1000.  
Major Louise Victoria, rooted runners, 50c per 1000.  
C. MERKEL & SON, Mentor, Ohio.  
When Writing Mention Florists' Exchange

**ROSES, GERANIUMS, COLEUS.**  
Carnations all planted out and sold; will have rootstock of held plants in the Fall.  
Strong 3 inch plants of Bride and Bridesmaid Roses, ready to plant, \$3.00 per 100.  
Geraniums 2 in. pots, \$2.00 per 100; 3 in. pots, \$4.00 per 100. Alternifloras, red and yellow, 2 in. pots, \$1.00 per 100. (Colors, no matter how Verbenaceous and Golden Bieder, rooted runners, 75c per 1000; 2 in. pots, \$2.00 per 100. Cash or satisfactory reference.)  
**QEO. M. EMMANS, Newton, N. J.**  
When Writing Mention Florists' Exchange

**Fine Healthy Stock of Brides, 'Maids, . . . Perles, Meteors,**  
From 2 1/2 inch pots, ready for shifting, \$4.00 per hundred.  
**JOHN HENDERSON CO.**  
Flushing, N. Y.  
When Writing Mention Florists' Exchange

**ROSES**  
American Beauty 4 in. pots, \$10.00 per 100  
111 Kirch Brunner 2 " 20 " 1000  
Magna Charta 2 " 30 " 60  
Jaqu. 2 " 30 " 60  
California and Lady Campbell Violets 8 " 60  
All these plants are large and healthy; have been tested for over one year, but have few thousand to spare.  
**Maiden Hair** a specialty.  
**THE LA ROGHE & STAHL FLOWER CO., Ltd.**  
Collingdale, Del. Co., Pa.  
When Writing Mention Florists' Exchange

**SHIPPING ROSES CHEAP!**  
3000 Catherine Mermel..... \$2.00  
2000 Bridesmaid..... 2.50  
1000 Perle des Jardins..... 4.00  
500 Kaiserin Augusta Victoria..... 4.00  
300 Miss. Jos. Schwartz..... 2.50  
300 Golden Gate..... 3.00  
200 Joanne Guillaum..... 2.50  
400 Climbing..... 4.00  
200 Elias Engel..... 2.50  
300 Angeline..... 2.50  
200 Marie Lambert..... 2.50  
200 Marie Lambert..... 2.50  
300 Mrs. Edienne..... 2.50  
300 Mrs. Edienne..... 2.50  
300 Mrs. Edienne..... 2.50  
300 Agrippina..... 2.50  
300 Agrippina..... 2.50  
300 Agrippina..... 2.50  
100 Yellow Hammer..... 5.00  
200 Yellow Hammer..... 5.00  
500 White Hamble..... 10.00  
200 Yellow Hammer..... 5.00  
300 White de Dijon..... 2.50  
500 Solitaire..... 2.50  
600 Solitaire..... 2.50  
300 Fortune's Yellow..... 2.50

**MOSS ROSES.**  
Moss, 2 1/2 in. pots, \$2.00 per 100; 3 in. pots, \$3.00 per 100.  
Cath. Harguer, Bianche double, Lunell Moss, Miss. Goussier, 2 in. pots, \$2.00 per 100.  
Miss. Alice Leroy, Profidore Gratia, 3 in. pots, \$3.00 per 100.  
**POLYANTHUS ROSES.**  
Milo, Cath. Brunner, George Fernet, Perle d'Or, Mignonette, Pink Souvenir..... 3.00  
Address  
**NANZ & NEUNER**  
LOUISVILLE, KY.  
When Writing Mention Florists' Exchange



Exclusively a Trade Paper.  
Entered at New York Post Office as Second Class Matter

Published EVERY SATURDAY BY  
N. T. DE LAMAR PTC. AND PUB. CO., LTD.,  
2, 4, 6, 8 Duane St., New York.  
P. O. Box, 1697. Telephone 2164 Cortlandt

REGISTERED CABLE ADDRESS  
(Commercial Cable) Flores, New York.

**SUBSCRIPTIONS:**  
\$1.00 per year to United States, Canada and Mexico. \$2.00 per year to foreign countries in postal union. Payable in advance. New subscriptions will commence with the first number after receipt unless otherwise ordered. Back numbers can be supplied when wanted. The date on address label shows when the subscription expires and is the subscriber's receipt. No other receipt is sent.

**ADVERTISEMENTS:**  
Copy must reach this office not later than Thursday in order to secure insertion in issue of the following Saturday.  
Rate, \$1.00 per line. Special positions and discounts on contracts of one month or longer.  
Orders from unknown parties must be accompanied by cash or satisfactory references.

**Subscribers**  
Should give notice to the publishers at the end of their time if they do not wish to continue taking paper, otherwise it is continued and payment expected.

### Contents.

AMERICAN ASSOCIATION OF NURSERYMEN	549
AMERICAN INSECTICIDE FAIR	554
Business Rec.	554
CARNATIONS	554
CHANGES IN BUSINESS	558
CHRYSANTHEMUMS	553
Correspondence	554
EXHIBITIONS	549
EXPERIMENT STATIONS	553
HAMBURG EXPOSITION	551
Obituary	554
Robert Douglas	554
ROSES	554
SEED TRADE REPORT	547
THEE AND SARDIUMS	550
TRADE NOTES:	550
Brooklyn	550
Pittsburg, St. Louis	551
New York, Philadelphia	551
Boston, Buffalo, Cleveland	555
Chicago, Springfield, St. Paul	558
Washington	559
London, Montreal, Syracuse, N. Y.	560
WATERING PLANTS IN NURSERY	559

### For the Busy Man.

Robert Douglas, the veteran nurseryman, is dead.

A floral "white" (without Jonah) is St. Louis' latest representation of Boral art.

Fredrick E. Young, nurseryman, Rochester, N. Y., is reported to have made an assignment.

A St. Louis florist is making up and disposing of bouquets a a street take, and finds it pays him.

James Dean's auction sale takes place Thursday and Thursday next, June 9 and 10, at Bay Ridge, N. Y.

Henry A. Clinkbeary has been awarded the grand medal of the Massachusetts Horticultural Society for a display of new orchids.

The American Seed Trade Association meets in Burlington, at the American Association of Nurserymen in St. Louis, next week.

Very unreasonable weather is being experienced in Europe; in France the maturing crop was killed by a frost which occurred on May 12.

There will be a grand auction sale of orchids by Henry C. O. Pickett & Mandl's Shop, Hills, N. J., on Wednesday and Thursday, June 10 and 11.

The American Institute will hold a horticultural exhibition in Madison Square Garden, New York, from September 27 to October 25, next, inclusive.

Decoration Day trade reports from all over the West indicate that the demand was not so great a requirement as in former years. Many quantities of cut flowers were used, as well as numerous bedding plants.

### American Institute Fair.

The schedule of premiums for the sixty-sixth fair of the American Institute, so far as it applies to plants, flowers, fruits, vegetables, etc., has been issued. The exhibition will be held in the Madison Square Garden, New York, from September 27 to October 25, 1897, inclusive. No entrance fee is required for plants, flowers, fruits or vegetables.

The first week of the fair, from September 27 to October 2, will be devoted to exhibits of dahlias, gladiolus, sweet peas, miscellaneous cut flowers, excluding roses and carnations, and to wild flowers. In the dahlia competition classes are provided for commercial and amateur growers respectively, and suitable prizes will be awarded. A grand staircase decoration competition will be somewhat of a novelty. For this prizes of \$100 and \$75 are offered. This decoration must be kept in good condition from the day of opening till October 31.

During the week from October 4 to 9 exhibits are called for cacti, flowers and stove and green-house plants. An innovation in the horticultural world will take place on Wednesday, October 6, in the form of exhibits of hand and aerial bouquets. The Horticultural employes only. In this competition prizes and diplomas will be awarded.

From October 10 to October 16, will be devoted to cyclamens, geraniums, lily of the valley and cut roses.

From October 17 to October 24, fourth week, there will be displays of chrysanthemum plants and cut flowers, cut roses, carnations, and floral designs, the latter to include table centre-pieces. Prizes in the classes for chrysanthemum plants, cut flowers, carnations, cut roses and roses being also very liberal.

The committee of the Chrysanthemum Society, of America, of which Eugene Dailleux, of Flatbush, is chairman, will meet during the progress of the fair, in the Madison Square Garden, Saturday at 2 P. M., to select award seedlings for this society.

It is stated that the Institute's medals, diplomas or certificates will be awarded for new or rare specimens exhibited during the fair.

There will also be interesting exhibits of fruits, comprising grapes, peaches, apples, pears, etc., and of vegetables and farm crops.

The display of flowers and plants will be in charge of James W. Withers; that of fruits will be looked after by E. G. Fowler, and of vegetables by C. E. Allen. The show of farm crops will be in charge of Dr. Robert Taylor.

Persons or societies intending to exhibit at the fair should apply to the department are requested to give notice as early as possible to the chairman, Committee of Arrangements, 100 Cortlandt, Dr. P. M. Hexamer, No. 52 Lafayette Place, New York.

### Making It Easy For The Show Manager.

Mr. Richard Lewis, secretary of the Annandale Rose Show, says of the system of exhibition stationery, which we have brought out for the benefit of show managers, that "Last year the system worked most satisfactorily; the secretary of the exhibition finished the necessary work on the day before the exhibition and on the day set for the exhibition all he had to do was to sit down before the entrance door and give the exhibitors their envelopes."

The system above alluded to is the most satisfactory and desirable one that we have had the honor to issue, and who have to do with the management of shows should give it their careful attention if they wish to save time and trouble.

Full particulars sent upon application to T. P. de Mare, Printing and Publishing Co., Limited, P. O. Box 1,697, New York City.

### OBITUARY.

Robert Douglas.

This pioneer nurseryman died suddenly at his home, Waukegan, Ill., on Tuesday, June 1, aged 75 years.

Mr. Douglas has been aptly named the "father of forest planting in America." He brought the Norway spruce to this country, on April 29, 1818, and came to this country in 1839, locating permanently at Waukegan, in 1842.

He was the first to raise evergreens from seed in the open air here. Up to that time all of the foreign evergreens were imported from Europe at two or three years old.

Mr. Douglas had seen the seedlings growing in the north of England without shade, and at the close of the year he bought seeds in quantities and sowed them by the acre. They came up as freely as they had over there, but he did not raise a plant, as they all lopped off or scorched off before autumn. The next year he used frames covered with coffee sacks, and they did well, and were no great trouble, as the soil was so dry that they did not need watering; but the coffee sacks soon rotted. After that he made hutch frames, such as are in common use. But for the past twenty years he had grown them under tall arbors. Mr. Douglas was the first to raise trees for artificial forests in America and on the largest scale as any have been mentioned here.

After the Catalpa speciosa became noted he grew millions of this tree. Many were sold here, but the time of this and other trees, which were all planted by this enterprising man. An objection has been made that his cultivation is the blue spruce, some magnificent specimens of which may still be seen in his garden.

Robert Douglas's name is associated with all the early efforts of founding horticultural societies in America, including the American Association of Nurserymen. He was a genial, modest, unassuming man, of a most honorable and upright in all his business dealings. He had rendered grand and noble service to the cause of horticulture during the past half century. The writer first made his acquaintance in 1850, when he came down to the Horticultural Exposition, N. Y. E. S. S.

### New York.

Florists' Exhibition.

The next meeting of the club, June 14, the following exhibition and competition, open to all, will take place:

(1) Best display of herbaceous flowers; (2) best collection and display of fruit, any section; (3) best display and collection of peonies; (4) best display of hardy roses; (5) best display of plants and flowers not enumerated above.

The club's silver medal and certificate will be awarded to the best and second best exhibits respectively. The exhibitors, when such exhibits are, in the opinion of the judges, considered worthy of said medals, will receive certificates and medals. Exhibits to be ready for the judges by 3 o'clock in the afternoon of June 13. Intending exhibitors will kindly notify the secretary, James W. Withers, Box 1,697, City, on or before Saturday, June 12, of the amount of space desired.

Shows at American Institute.  
The horticulture section will hold a general exhibition on Tuesday, June 8, at their rooms, 111 West Thirty-third Street, New York. The horticulture on-Hudson will speak on strawberries and John N. May on hardy roses. The meeting of the Horticultural Association will continue from that hour till 7 P. M. Exhibits of strawberries, iris, peonias and carnations will be shown. Hothouse fruits will also be represented.

Flower & Seed's Affairs.  
At a second hearing of the creditors of this corporation held in the Chamber of Commerce, in Jersey City, on Tuesday, June 1, before the Hon. Henry C. Pitney, Vice-Chancellor, the various representation of creditors who had claims aggregating \$8,000, the total claims being \$65,000. These claims were divided in favor of the corporation, and against the stock. The Chancellor heard arguments on both sides and decided that

it would be to the best interests of the creditors to continue the business, disposing of the stock at private sale, rather than set it at auction, and ordered the receiver to act accordingly. The sale of the orchids will take place on Tuesday, June 15, as previously ordered. Market Improvements.

There has been an improvement in business during the week, stock of cut flowers has been sold at a profit. This has been the case for some time. This, with the lighter supply, has improved the market. The market for cut flowers in price is the result, especially for clean and extra stock. Saturday and Sunday trade was light. Monday morning was heavy in the market, and a slump on arrivals, most of the stock going into the ice boxes to be sold Tuesday. Anything it would bring Wednesday there was a moderately good demand. Thursday and Friday trade was light.

Out-of-town trade evidently is picking up, for shipping orders have increased. Orders for cut flowers under a brisk demand for valley. Prices ruled from \$2 to \$3 per 100. Good lilies also sold at a profit. The market for cut flowers as taking prices. White orchids were also in demand. Peonias are now very abundant. This week is morning the average 50 cents per dozen for these. Gladiol averaged about \$6 per 100 spikes. Sweet peas are in the market, but out-door-grown stock, and prices are falling. Lilacs is now practically over the market. Yellow and orange and move slowly; yellows can hardly be sold at any price.

Cut Flower Exchange, 31th St.

Trade for Decoration Day at this time was quite brisk and has been fairly good during the week. The market for cut flowers has had an effect on Tuesday, the hour now being 6 A. M. It is a little premature to say that this week is morning the loss of one of its larger growers—C. Schneider, of Train's Meadow Grove, Woodside. This week is morning a brief illness, beginning with a cold, followed by pneumonia, which developed into bronchitis, and he died on Wednesday. The funeral took place on Wednesday and was largely attended by growers and friends. He was buried in St. Michael's Cemetery, Astoria. The floral pieces were numerous, several of them being of a grand and imposing nature. He leaves a widow and three children.

Auction Sales.  
Contrary to expectation, business has been better than anticipated. Many clear sales are numerous. Tuesday next (Thursday) the following will be sold: Clear & Co. sell palms, etc., from Philadelphia growers; Wednesday and Thursday William Elliott & Son sell out the entire stock belonging to James Woodside, with cuttings, and on Friday Clear & Co. will sell, at Short Hills, the entire stock of orchids belonging to Pickett & Mandl's.

Retail Trade.  
The slight increase of business has been well distributed over the city. The market for cut flowers is better. Warrendorf, Broadway, had the Gilroy wedding on Thursday. The church was crowded with cut flowers, and a large quantity of Viburnum plicatum and V. opulus, peonias, etc. The house was decorated with cut flowers, and the roses. The bride carried white orchids.

James Dean has bought a small farm near Bay Ridge, N. Y., and will live there after he leaves Bay Ridge. A large attendance is expected at the sale on Wednesday. The stock to be auctioned is in excellent condition.

H. C. Steinhoff has gone on a trip to Europe. Wakefield Reed succeeds Peter McDonald at Siegel-Cooper's in the cut flower and plant department.

### Philadelphia.

Business Improves.  
The market has been quite an increase in business the past week; a number of prominent weddings have taken place and the market has been very distributed over the city. There have also been several school conventions, which has had a large quantity of flowers. Then the city has a constant stream of dinners and receptions for the wives of civil and military officials. McKimley and the conveyors of the Medical Association, the largest

affair being the dinner to the President... The decorations were done by J. P. ...

Decorations Day Trade. Decorations Day business is reported good all around. There was more cut flower business than usual...

Market Notes. First-class flowers are now very scarce. Good roses have been in demand...

Club Notes. The meeting on Tuesday last was well attended. Edward Campbell read an interesting paper...

Jado Fibre. The American Jado Co. are much excited at the success they are meeting with...

Cox reports a large increase in business at Second and Bristol Streets. Three new houses are now in progress...

Boston

Decorations Day Trade. The floral business in Boston was one of the best with the florists on record. The weather was unfavorable for the holiday...

The Flower Market. Business since Monday has held up fairly well in most directions and good stock finds ready sale...

At a recent meeting, being announced, and this feature will doubtless offer its usual amount of encouragement to the various departments...

N. F. McCarthy & Co. will auction on Saturday the collection of plants grown by W. H. Elliott. This is a fine lot, including Bride, Bridesmaid, Perle and Constance.

Jottings. John Gibson, of Newport, was a visitor to the Exchange... Weich Bros. are receiving from Carl Jurgens, of Newport, some fine K. A. Rhododendron Show.

The annual rhododendron show of the Centre table was entirely filled by James Comley, gardener to the F. B. Hayes estate, with an effectively arranged collection of rhododendrons, azaleas and a large variety of hardy flowering and fancy foliaged shrubs...

James Eadie is erecting three new houses each 23x30 feet. Besides many orders for commencement work, our florists have some very nice orders booked for numerous weddings that will occur this month.

Asparagus. Ellor & Co. exhibited a fine specimen of azalea mollis. Hughess & Co. exhibited a fine specimen of azalea mollis.

A grand exhibit of cut orchids was made by Henry Clinkaber, gardener to the Hon. J. C. Eaton, N. J., which included many varieties of cypripediums, cattleyas and dayas, many of the most distinguished honor of a gold medal.

On this table was a fine display of rhododendrons from Mrs. B. F. French (John Barr, gardener).

Collections of iris were shown by John W. Gardner and W. H. B. Co. Mr. Cowing also exhibited some grand oriental poppies, type and varieties of carnations, and a collection of iris types and hybrids, of aquilegia. F. S. Davis showed a fine collection of aquatic plants, including a display of cut flowers, including ten or twelve varieties of good carnations.

T. C. Thurlow made a large and interesting display of hardy flowering and foliage, also a collection of hardy azaleas and Azalea mollis, and a fine collection of hardy varieties of azaleas. Mrs. E. M. Gill and Miss Hattie F. Winter arranged vases of flowers for the table.

Dr. C. G. Weld (Kenneth Finlayson, gardener) showed some fine specimens of rhododendrons and a collection of hardy flowering plants, including azaleas and geraniums, and a fine specimen of a geranium, and a fine specimen of a geranium.

Decorations Day Trade. Decorations Day had a temporary invigorating effect on the florist trade, and in spite of the depressing weather...

Decorations Day. Decorations Day had a temporary invigorating effect on the florist trade, and in spite of the depressing weather...

Immense quantities of stock were at hand, and while most of it was of fair quality, very little extra good was obtainable. Everything was used up and prices realized were better than average for several seasons past.

James Eadie is erecting three new houses each 23x30 feet. Besides many orders for commencement work, our florists have some very nice orders booked for numerous weddings that will occur this month.

Index to Advertisers.

Table listing various florists and their locations, including Advertiser, Address, and Phone Number. Includes entries for A. J. Adams, A. J. Adams, A. J. Adams, etc.

Table listing various florists and their locations, including Advertiser, Address, and Phone Number. Includes entries for A. J. Adams, A. J. Adams, A. J. Adams, etc.

MARIE LOUISE VIOLETS, 3/8 inch pots. Good stock from frames, \$2.50 per 100.

H. MORRIS, 115 Broadway, N. J. When Writing Mention Florists' Exchange

50,000 CALIFORNIA VIOLETS Extra Strong (Female Yacht), 1/2 inch pots, one year old plants, \$2.50 to 3.75, high, \$3.00 per 100.

CANNAS Inlaid, \$4.00 per doz. A. HUBBS, \$3.00 per doz.

BENJAMIN CONNELL, Floral, West Grove, Pa. When Writing Mention Florists' Exchange

VIOLETS MY SPECIALTY!

Princess de Galles..... Per 100, 1000. \$5.00 \$45.00
Asteron..... \$5.00 \$45.00
California..... 75 60.00
All from good plants, rooted runners. Send for order now. Cash with order. See factory prices.

F. EDD, 101 N. 2nd St. Phila., Pa. When Writing Mention Florists' Exchange

ASTER PLANTS Simple's Branching, Queen of the Market, Princes and Comet, ready to plant out in 25c per doz. per 100. J. C. SCHMIDT & CO., Bristol, Pa. When Writing Mention Florists' Exchange

SEMPLE'S ASTERS Pink and White, \$4.50 per 1000. (Pink limited.)

Ampelis and Vincen var., 2 1/2 inch pots, 40c per doz.
Kathyrans Aurea var., 1 year, \$2.50 per 100.
Achillea, the Pearl, \$1.50 per 100 plants.

A. G. ROSBACK, Fairview, N. J. When Writing Mention Florists' Exchange

Pansies World Raising.

Blooming plants of plants in bud, from \$1.00 per 1000 up. Full value given in every case. Cash with order. All shipments free on board of express.

C. Soltau & Co., 159 Grand Jersey City, N. J. When Writing Mention Florists' Exchange

West Islip Greenhouses.

Marie Louise Violets, Rooted Runners

\$4.00 per 1000, cash with order.

E. B. PUTTON, Jr., 7 P. O. Address, Babylon, L. I., N. Y. When Writing Mention Florists' Exchange

Our Latest and Greatest Bargain Offer.

Geraniums, all the best varieties, Fuchsias, Heliotropes, in bloom all named, 3 1/2 and 3 1/2 inch pots at \$2.00 and \$3.00 per 100. A. Geraniums, white and white, Dutch, Verbena, Cosmos, Capispa, Daisy, Feverfew, Flowering Begonia, Salter's Geranium, etc., 2 1/2 inch pots, \$2.00 per 100. Swallowtail alba, Goniata canariensis, 2 1/2 inch pots, Marie Louise Violets, large plants, \$3.00 per 100; Chrysanthemums, leading varieties, 2 1/2 inch pots, \$2.50 per 100. English Ivy, rooted cuttings, strong, \$1.75 per 1000 cuttings.

BREENE COUNTY FLORAL NURSERY, White Hall, Ill. When Writing Mention Florists' Exchange

20, ASTERS

Truffaut's Perfection, 4 colors.

Victoria Perfection, 4 colors.

Simple's Strain, 4 colors.

Also Yellow Quilled.

Per 100, by mail, 75c; per 1000, by express, \$5.

JEWEL, of BALL ASTER, new, 2 1/2 inch pots, \$4.00.

30,000 SHELIA, 1 1/2 inch pots, 25c per 100, \$1.50; per 1000, \$12.50.

Cash with order, please.

GEORGE J. HUGHES, Berlin, N. J. When Writing Mention Florists' Exchange

CARNATIONS—Rooted cuttings all sold except Wm. Scott, Thos. Cartledge, Optelia and Rose Queen, \$1.00 per 100; \$8.00 per 1000.

CHRYSANTHEMUMS

HYDRANGEA OTAKSA, fine plants from pots, \$3.00 per 100. Cash with order, please.

JOHN HACKETT & CO., 62d St., near Elmwood Ave., PHILADELPHIA, PA. When Writing Mention Florists' Exchange

EDW. J. TAYLOR, Wholesale Carnation Grower, SOUTHPORT, CONN. When Writing Mention Florists' Exchange

Harrison's white CARNATION. New Carnation, sport from Wm. Scott.

JOHN HARRISON, 739 Bergen Ave., Jersey City, N. J. When Writing Mention Florists' Exchange

GERANIUMS The best double varieties: S. Wood, Gen. Grant, J. B. Surr, L. Yorvor, Bishop King, \$1.50 per 100. VINCIGA, variegated Ivy and Silver Leaf Geraniums, 3 1/2 inch pots, \$3.00 per 100.

CHRYSANTHEMUMS Stock out of 2 1/2 inch pots, \$2.00 per 100. Queen, Bonanza, Mrs. Jerome Jones, and other good varieties, rooted in 2 1/2 inch pots, \$1.00 per 100.

GEORGE H. BENEDETT, Yorkville, N. Y. When Writing Mention Florists' Exchange

CHRYSANTHEMUMS. Best standard commercial varieties, from pots. Mrs. Hergemo, Major Bonanza, Philadelphia, Mood Besta, Pink Ivory, W. Wamaker, L. Canby, L. Dillies, L. Bonner, Mrs. W. The Queen, B. Bailey, W. H. Lincoln, Ivory, Iora, at \$1.50 per 100. G. Child, Golden Wedding, John Frazer, M. Henderson, at \$1.00 per 100. Cash with order.

JOHN C. EISEL, PHILADELPHIA, PA. When Writing Mention Florists' Exchange

CHRYSANTHEMUMS Rooted cuttings, \$2.00 per 100. Pat plants, \$3.00 per 100 of the following varieties.

Bersemum, Marquis, Mrs. M. Minerva, Marion Henderson, Wm. Simpson, Mrs. H. Robinson, Marie Louise, Philadelphia, Queen, Mrs. Wm. Flower, Wamaker, Dillies, Bonanza, Mrs. C. Lippincott, Vivand, 1000.

Hydrangea Otaksa, 2 1/2 inch pots, \$1.00 per 100. Double pot, \$1.50 per 100; \$15.00 per 1000. Cash with order.

SAM'L J. BUNTING, Elmwood Ave. and 58th St., PHILADELPHIA. When Writing Mention Florists' Exchange

OUR ASSORTMENTS In Endless Variety.

Best Varieties in Quantity at Moderate Prices.

NATHAN SMITH & SON, Adrian, Mich. When Writing Mention Florists' Exchange

Surplus Stock.

3000 Geraniums, 4 in. in bud and bloom, the common, fine plants \$1 per 100.

200 Geraniums, 4 in. in bud and bloom, at \$1 per 100.

2000 Roses, monthly, 3 in., \$5 per 100.

200 Geraniums, Mice, Pollock, 2 1/2 inch pots, \$1.50 per 100.

2000 Verbenas, in bud and bloom, 2 1/2 inch pots, \$1.50 per 100.

300 Hydrangeas, fine plants, 5 in. in bud and bloom, at 25c.

2000 Hydrangeas, 6 in., bud and bloom, at 40c.

1000 Cannas, La Grande Rosa, red foliage, 4 in., \$2 per 100.

EVENDEN BROS., 408 East Third St., - Williamsport, Pa. When Writing Mention Florists' Exchange

15,000 in pots now, of the best new and old varieties, at \$2.50 per 100. Send for price list.

ALBERT M. HERR, L. B. 436, Lancaster, Pa. When Writing Mention Florists' Exchange

CROPPERS.

Regarding Croppers.

A correspondent writes me that after cutting his first crop of flowers from Daybreak in the fall, after the plants were taken to the field to the field to the house, there is a period of intermission during which time he is able to cut very few flowers. When they start blooming again the trouble disappears, and they flower continuously. He asks if I know the same remedy, or if I know of a remedy.

Of late years our trouble in this line has been with the slow-growing varieties like Albertini, Bridgmaid, etc., and then only when we failed to propagate our next season's stock early enough.

Varieties like those I have mentioned have the natural tendency to produce their flowers in crops. This may be averted to a large extent when the cuttings are made in the fall, during the second week in January. These partake of the nature of the hardy garden carnation in their tendency to require two seasons to attain sufficient size to bloom. From this it can easily be seen that unless this situation on their part to require two seasons in order to fully develop, the result will be a small early crop of flowers, but the chances are that there will only be one worth speaking of, and by the time the second crop of flowers comes, the weather will be on, thus making it more difficult for the plants to produce another crop. It is particularly true in view of the fact that at this time the carnation is more or less neglected, particularly in the matter of manurement.

It is quite possible to obtain very good results, and with scarcely any intermission in the blooming period of these slow-growing varieties, by cutting back only once before planting in the field. For these slow high cuttings, it is necessary to cut them back and in the house; for it must be remembered that we are practically compelling them to produce one season, that which they are inclined to demand two seasons to accomplish.

By the latter part of the summer the shoots or branches will be well developed, and they will be ready to cut back, just far enough to stop the growth. If the remaining half show signs of becoming dormant, and if the house, no harm will come of it if the transfer is properly made, and all will make good flowers. By the time they are all cut, the next growth from the shoots which had been cut back in the field will be well under way; plenty of nourishment and an abundance of air to keep the growth firm will help it to grow. With this care, there will be no long period of intermission between crops. After the first intermission in this class, as it is neither slow grower nor a late bloomer. Indeed, some of the very best plants we have had in our business have been cuttings, planted in the field direct from the sand. Most of our stock of this sort for the coming season will be planted in this way; some of it is still in the sand, and will be set out at the first opportunity, \$1.00 per 100. This writing too dry.

My correspondent may, perhaps, be in the habit of pinching his plants too often in the field in order to get round, bushy plants, which at one time he has been told are best adapted to have them in at housing time. This is an error, and should no longer be practiced when one is endeavoring to pinch back I have done after the manner that I have mentioned above. I believe this to be the correct method at any rate it removes, to a large extent, the inconvenience arising from varieties which are poor croppers when treated in the usual way.

H. WEBER.

A MISTAKE,

to delay your orders for MINNIE COOK.

Price should be \$3.00 per 100; \$25.00 per 1000.

MEADOW VIEW GREENHOUSES, PARSIPPANY, N. Y. When Writing Mention Florists' Exchange

Carnations, Etc. HIGH GRADE ROOTED CUTTINGS.

Write for price list.

H. WEBER & SONS, P. O. Box 67, OAKLAND, Md. When Writing Mention Florists' Exchange

MORELLO The New Scarlet. From soil.

HOPP & LEMKE, East Grand Rapids, Mich. When Writing Mention Florists' Exchange

GALLERT & CO. CARNATION GROWERS

COLMA SAN MATEO CAL. When Writing Mention Florists' Exchange

DAZZLE

The brightest and most productive scarlet carnation yet introduced. \$1.00 per 100. Strong plants, \$1.00 per 100. Rooted cuttings, \$1.00 per 100. Seed for complete list of 100,000 carnation plants and rooted cuttings in 20 varieties. Ready for immediate shipment.

GEO. HANGOCK & SON, Grand Haven, Mich. When Writing Mention Florists' Exchange

CARNATIONS

Daybreak, Scott, \$1.50 per 100. \$15.00 per 1000. McGowan, Parlin, \$1.50 per 100. \$15.00 per 1000.

Thos. Cartledge, Kohlsaar, Rose Queen, Bride of Erlensee, \$1.50 per 100. \$15.00 per 1000.

BRIDESMAID, \$1.50 per 100. \$15.00 per 1000. LUXURANCE, \$1.50 per 100. \$15.00 per 1000. \$15.00 per 1000.

JOSEPH RENARD, Unionville, Chester Pa. When Writing Mention Florists' Exchange

CARNATIONS

F. DORNER & SONS CO., La Fayette, Ind. When Writing Mention Florists' Exchange

Carnation Cuttings

Strong and well rooted, of the following varieties: Jubilee, Triumph, Armasindy, Alaska, Bridesmaid, Dent Hole, Goldfish, McGowan, Mimi, Albertini, Mieser, Peachbloss, Rose Queen, Silver Spray, Wm. Scott, Uncle Jack.

Primulas, 2 1/2 inch, \$2.00 per 100. Send for list and prices on large lots.

Logan Ave. Greenhouses, - Danville, Ill. When Writing Mention Florists' Exchange

HERR'S CARNATIONS.

Alaska and Cartledge..... \$7.50 100

Bridgmaid and Dorner..... 10 100

Abundance..... 20 250

Triumph and Armasindy..... 30 350

Jubilee..... 40 500

SHELAN..... 5 100

Cash with the order. Every thing guaranteed. If not satisfactory you can return it to my expense and have your money refunded you.

ALBERT M. HERR, L. B. 436, Lancaster, Pa. When Writing Mention Florists' Exchange

# GRAND AUCTION SALE OF ORCHIDS

The Entire Collection of **PITCHER & MANDA,**

Embracing many choice varieties which cannot be purchased anywhere else in this country, will be **SOLD AT AUCTION WITHOUT RESERVE,** on the premises at

**SHORT HILLS, NEW JERSEY,**

## On Wednesday, June 16, and Thursday, June 17,

COMMENCING EACH DAY AT 11 A. M.

Trains leave foot of Barclay Street and foot of Christopher Street, New York, at 8.30, 8.50 and 10.10 A. M.

**CLEARY & CO., Auctioneers, 60 Vesey Street, New York City.**

**JOHN N. MAY, Receiver.**

When Writing Mention Florists' Exchange

## HIBISCUS

Twelve varieties, \$2.25 per 100; \$25.00 per 1000. By mail, 25c. per 100 additional.

TERMS CASH WITH ORDER.

**R. H. MURPHEY, Urbana, Ohio.**

When Writing Mention Florists' Exchange

## General Catalogue & Garden Guide FOR THE SOUTH.

Comprising Summary Description, Degrees of Hardiness, Hints to Cultivator of 1500 Sorts of Plants. New Enlarged Edition, 93 pages. Free by mail.

Southern California Acclimatizing Association, SANTA BARBARA, CAL.

When Writing Mention Florists' Exchange

## AMPELOPSIS VEITCHII

Strong, healthy, young plants, \$3.00 per 100.

Colosa Verschaffeltii and Golden Buzzer, 2 inch pots.

Double Grand Geraniata, 3 inch pots, ready for immediate shipment, 500 Small, 4 inch pots, \$2.00 per 100.

EVERITT & INSALL, Hackettstown, N. J.

When Writing Mention Florists' Exchange

## FOR SALE. VINCA MAJOR VARIEGATA.

Good stock, from 4 inch pots, \$10.00 per 100.

## CERANIUMS.

Miss Sallerol, Mrs. Parker, Blou, Dr. Kirkland, scarlet King, Double White, E. Hill, Emile de Jirsalin, Queen of the West, from 4 in. pots, 60c. per doz., and a beautiful Yellow Zonale with double scarlet flowers and a most profuse bloomer, an exceptional, 4 in. pots, grand stock, 75c. per doz.

Cash with order please.

**ISAAC HUSBANDS, Bellevue, Huron Co., O.**

When Writing Mention Florists' Exchange

## P. OUWERKERK,

1123 Summit Ave., Jersey City, N. J.

Just received from our Holland

Nursaries:

RHODODENDRONS, AZALEAS,

SPIRÆA JAPONICA, LILIUM SPECIOSUM,

PÆONIES, BLEEDING HEART,

POT GROWN LILACS, HYDRANGEA IN SORTS.

CLEMATIS and H. P. ROSES, in the best sorts

PRICES MODERATE.

When Writing Mention Florists' Exchange

## Nephrolepis Exaltata Bostoniensis.

In large and small quantities from \$40.00 to \$80.00 per 1000.

IS THE GENUINE STOCK.

**FRED. C. BECKER, - - - 1730 Cambridge Street, CAMBRIDGE, MASS.**

When Writing Mention Florists' Exchange

## ENGLISH IVY.

2 yr. old, \$1.00 per 100. 1 yr. old, 50c. per 100.

Strong rooted cuttings, \$4.00 per 100.

## VERBANAS.

2 inch pots, \$1.50 per 100.

**J. H. DANN & SON, Westfield, N. Y.**

When Writing Mention Florists' Exchange

## 500 LATANIA

We offer our own grown stock of LATANIA BORONICA, having 6 to 8 leaves. 1st size, \$15.00 per doz.; 2d size, \$12.00 per doz.

**JORDAN FLORAL CO., 222 Olive Street, St. Louis, Mo.**

When Writing Mention Florists' Exchange

## CLEMATIS.

In pots; good plants, \$2.00 per doz., \$20.00 per 100. Fine, heavy, home grown plants, in twelve choice named varieties, \$1.00; 50c. each; \$4.00 per 100.

**SMILAX** for strong plants from last year, 2c. in pots, \$2.00 per 100. Transplants, \$1.00 per 100.

**F. A. BALLER, Bloomington, Ill.**

When Writing Mention Florists' Exchange

## FERNS

Plants Semata, 4c. each; 40c. per 100. Magnific, Aspidium Tennessense, 4c. each; 40c. per 100. Oenochilus Japonica, 4c. each; 40c. per 100.

**\$3.50 PER 100. CASH WITH ORDER.**

**CHAS. F. BAKER, Utica, N. Y.**

When Writing Mention Florists' Exchange

## AND OTHER DECORATIVE PLANTS

At Specialty Reduced Prices. Stock large and in fine condition.

Special price for new Wholesale list. Special price on large orders. Sent in lot or your wants.

**W. J. HESSER, Plattsmouth, Neb.**

When Writing Mention Florists' Exchange

## NEW FERNS!

75 cents per 1000. ARDY CUT FERNS.

We have FIRST quality, fancy or glasse. Try us. We are sure to please you.

**LAUREL ROPING** 4c. each, per 100. All orders by mail or dispatch promptly attended to.

**CROWL FERN CO., Millington, Mass.**

When Writing Mention Florists' Exchange

## VICTORIA REGIA AND RANDI

We have now ready for shipment a fine lot of Victoria in various sizes. Where artificially heated tanks are used, they should be planted at once, but in both here and planting should be delayed until the weather becomes thoroughly settled and warm. We can also still supply a full line of all other choice and rare varieties.

**HENRY A. DREER, 714 Chestnut St., Philadelphia.**

When Writing Mention Florists' Exchange

## FINE STOCK OF PALMS

ARCA LUTESCENS, 4 in. pots, each 25c. Vanigated, \$7.50 per 1000. BEGGONIA, 2 1/2 inch - separate colors.

1 in. and 1 1/2 in. diameter, \$8 and \$10 per 1000. 2 in. and 2 1/2 in. diameter, \$12 and \$14 per 1000. 3 in. and 3 1/2 in. diameter, \$16 and \$18 per 1000.

1 in. and 1 1/2 in. diameter, \$7 and \$8 per 1000. CLOVEYIA RECTA (Hortia), 4 to 6 inch, \$10.00, 1 inch and more, \$18.00 per 1000.

CABELLIANS, H. O. P. D. B. D. B. N. S. L. A. T. S. and all other Nursery Stock, grown in quantities.

From unknown correspondents. Cash, with Packing Free.

**ROYAL NURSERY**

**LOUIS VAN NOUTTE PÈRE**

Ghent, Belgium.

When Writing Mention Florists' Exchange

**JULIUS ROEHR'S,**  
Headquarters for  
**Palms and Decorative Plants,**  
RUTHERFORD, N. J.  
P. O. Address: Carlisle Hill, N. J.

## ORCHIDS and GREENHOUSE PLANTS FOR SALE.

Address P. O. Box 665. ALHANY, N. Y.

Having disposed of several of my Greenhouses and the remainder being over crowded, I have decided to offer for sale the excess, consisting of the greater portion and the choicest specimens of my collection for the past 20 years, either singly or in quantities. They are all well established, in fine condition, and may cannot be obtained in any other collection in America. A printed list sent on application. Sales made at reasonable prices.

**E. CORNING,**

When Writing Mention Florists' Exchange

## HEADQUARTERS FOR

**AZALEA INDICA.**

Specialty grown for American trade, from 8 to 15 inch diameters, \$10.00 to \$35.00 per 100.

**KENTIA BELMORIANA.**

With 4 and 6 character leaves, from 1 1/2 to 3 ft. high, \$30.00 to \$30.00 per 100.

**KENTIA FORSTERIANA.**

With 4 and 6 character leaves, from 1 1/2 to 3 ft. high, \$30.00 to \$125.00 per 100.

**LATANIA BORONICA.**

From 1 1/2 to 5 ft. high, \$25.00 to 100.00 per 100.

**COCOS VEDDELIANA.**

From 1 1/2 to 10 ft. high, \$10.00 and upwards per 100.

**ARECA LUTESCENS.**

From 1 1/2 to 10 ft. high, \$10.00 to \$150.00 per 100.

**SWEET BAYS.**

Franklin standards, fine shaped trees, from \$1.00 to \$15.00 per couple.

**AND OTHERS IN KIND.**

Green leaved, \$20.00 per 1000 leaves. Vanigated, \$7.50 per 1000 leaves.



**GEO. WITTBOLD, 1709 N. Halsted St. CHICAGO**

When Writing Mention Florists' Exchange

**JOHN BADER, Allegheny City, Pa.**

When Writing Mention Florists' Exchange

## SITUATIONS WANTED.

Rate, 10 cents per line (8 words), each insertion. Cash with order. Will refer to situation wanted advertisement and when sent without delay. Will advertise as desired in one card and 10 cents to cover expense of forwarding.

SITUATION wanted by an experienced sales agent. Will not fail. New York City, A. H. care of Florists' Exchange.

SITUATION wanted by American van, motor, bicycle repairer. Address M. L. care of Florists' Exchange.

SITUATION wanted. Young man would like to be connected with florists' business. Has a good understanding greenhouse building, private construction, and floral arrangements. Address, Constantin, care of Florists' Exchange.

GARDENER, Protestant, wants a situation, 10 to 15 cents per hour. Has extensive knowledge of house and outside work. Private place preferred. Telephone No. 1111. Good references. Address, 2 Beacon st., care of Julius A. Sinn, Boston, Mass.

SITUATION wanted by a foreman, in a first-class greenhouse. Has had extensive experience in all branches of the business, especially cut flower growing. Best of references from well-known florists. Please address Foreman, in care of Florists' Exchange.

A GOOD practical grower of cut flowers, with long practical experience in management of large commercial place, and familiar with all details of the business. Wants position to go to work in any respect and can produce A stock. Full particulars and references, address, Florist Hall, 123 Magnolia ave., Jersey City, N. J.

## HELP WANTED.

## WANTED.

A bright respectable young man who has had some experience in florists' business, commencing greenhouse. Wages \$15 per month and board. Mark all letters J. C. A. COWE'S, Meadowdale Nurseries, Berlin, N. Y.

## WANTED.

An energetic single young man who can grow and make-up. Must come well recommended as to ability, honesty, sobriety, and willingness to work as required. A good place and steady employment. Address

COMMERCIAL, care Florists' Exchange.

WANTED four or five competent traveling salesmen to represent us in our wholesale Seed Department. Must be men of experience. When applying give reference, salary wanted, etc. L. L. MAY & CO., Seedsman, St. Paul, Minn.

## STOCK WANTED.

100 Cactations, in color, except pink and white. Also 100 Pinks and 100 Geraniums, extra specimens only. Also color and price. Also high priced Pansy Seed. FRANKLIN & GROSSY, - Brooklyn, Conn.

## WANTED.

WANTED - 600 Peonies, strong, 3/4 in. pots - 1000 Hydrangeas, 3/4 in. pots - 1000 Geraniums, 3/4 in. pots. Make offer of how you wish to trade and send seed boxes. E. S. NIXON, Chattanooga, Tenn.

## GREENHOUSES WANTED.

WANTED TO RENT About 6000 sq. ft. of glass in running order. Must be convenient to St. Ct. Flower Market. Address F. G. 14, Metropolitan, L. L. N. Y.

## WANTED TO RENT

In vicinity of New York, about 5 or 6 thousand feet of glass, with dwelling house and land preferred. Give full particulars. Address "H," Englewood, N. J.

## SECOND-HAND MATERIAL

FOR SALE CHEAP.

Extra good second-hand 3 and 4 inch pipe for hot water heating.

W. H. SALTER, Rochester, N. Y.

## FOR SALE

One Second-Hand Flue and Boiler Tubular Leg.

11 feet long, 1 foot diameter; tested 80 lbs. steam and paint, grates, and valves complete. Suitable for full particulars.

W. E. BERNARD, 716 North Warpas, PHILADELPHIA, PA.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

## BUSINESS OPPORTUNITIES

FOR SALE. Five greenhouses in New York City, very desirable, in excellent condition. Present owners retiring. For particulars, address Francis Suples, 829 Park Ave., N. Y. City.

FOR SALE OR TO RENT. New greenhouse, 1000 feet, 2 1/2 stories, 7 feet or 8 feet high, propagating house, potting room and office, the best home in this section of country; 8 hours from New York; possession given July 1. W. M. HASKELL, Graham, N. J., Florists' Exchange.

FOR SALE CHEAP. 18000 feet glass, well lighted, 2 1/2 stories, 7 feet or 8 feet high, 9 rooms, all heated by steam. Monday, Tuesday, Wednesday, Friday, Saturday established, six acres of choice soil, with a large amount of stock on hand for sale. For further particulars address, J. J. Florists' Exchange.

## FOR SALE

On the tip of the New York, New Haven and Hartford R. R. City of New York, 12 greenhouses, all stocked, and a nine 10 room dwelling, all improvements, built within three years. Reason for selling, sickle. Would take a partner with some cash.

Address L. V., care Florists' Exchange.

## FOR SALE AT A BARGAIN.

First-class greenhouse property at Spring Lake, N. J., fully stocked and doing good business. For particulars apply to

## MILAN ROSS, Agency,

Abney Park, N. J. WHEN WRITING MENTION THE FLORIST'S EXCHANGE

## FOR SALE.

Florist store, well stocked, good fixtures, and doing good business. Satisfactory reason for selling. Bargain for little money. Apply

STANLEY, 889 Gates Ave., Brooklyn.

## FOR SALE.

Four new greenhouses, together with the stock on them, situated 4 miles from Philadelphia, in a good neighborhood, with a nice dwelling house. Can be leased for term of years.

AUG. KEMP, Merchantsville, N. J.

## FOR RENT OR SALE.

An established greenhouse property, opposite the entrance of three cemeteries and in immediate neighborhood of New York City. For particulars address

K. L. 5, Care Florists' Exchange.

## FOR SALE.

A Cut Flower Establishment, consisting of about fifty thousand square feet of glass, with an established custom. A rare chance for expansion of business. For full particulars apply for further particulars address Florist 6, care of Florists' Exchange.

## FOR RENT

The well-known greenhouses recently owned and occupied by H. Spaulding, at Orange, N. J. For all particulars apply to

ARTHUR JOHNSON, 114 West 34th Street, NEW YORK.

## GREENHOUSES FOR SALE CHEAP

## AT RAMSEYS, N. J.

The W. J. Thurston range, consisting of two houses 183 1/2 feet, one house 130 1/2 feet, one house 109 1/2 feet, one house 120 1/2 feet, one one-half house, 56 1/2 feet, all heated with water. Also 1000 feet of 4 inch pipe, all fittings, and in addition to the above, the heating apparatus, consisting of two No. 17 boilers and copper water fittings. One house 183 1/2 feet and one house 130 1/2 feet. There are two potting sheds, one on each place which consists of about two acres of land and is situated at Ramsey, N. J. The above property will be sold cheap to close the estate. Apply to W. J. Thurston, on the premises, or Bargain, care of Florists' Exchange.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

## A Good Paper.

Yours is a good paper to advertise in for our business. HENRY S. RUFF & SONS, Shrewsbury, Pa., June 1, 1906.

## Chicago.

## Memorial Day Trade.

Decoration Day was a more than usually busy one with our florists, owing, no doubt to the holiday. The trade was very good Monday afternoon, falling on Sunday. In addition to that the school authorities decided that Friday's exercises should partake of a patriotic character, and Monday afternoon, falling on Sunday, over the city this was an undoubted factor; for though hosts of flowers were being ordered, the quantity of large quantities also were purchased.

The increased demand began on the 29th of May, and by the 31st of May the florists were concerned, and did not let up until Decoration Day. In the midst of the week most of the day seemed to sell, as at that time preparations were being made for shipping orders.

Carnations were in fair supply, going at \$2.50 to \$3. Short Beauty brought \$1 to \$1.50; some fine figures, and all were cleared off.

The cool May has tended to keep back outdoor flowers, which probably held the demand for indoor-grown stock. First-class open peonias sold at 75 cents per dozen. Monday's market prices down. Quite a number of boxes arrived in a heated condition. Some very pretty varieties, such as the Tartarian honeysuckle, Ilacs, snowballs, spiraea, etc. Outdoor valley was never better than this year. This material, each succeeding year, is seen in increasing quantity; the best sold at \$1.

Gaias were in brisk demand. There was a fair supply of Harrisil and long-floriums, which brought \$1 to \$1.50. Trade at the wholesale houses Monday morning last was still fair, but, as might be expected, stock was abundant.

Trade at the wholesale houses Monday morning last was still fair, but, as might be expected, stock was abundant. Monday's market prices down. Quite a number of boxes arrived in a heated condition. Some very pretty varieties, such as the Tartarian honeysuckle, Ilacs, snowballs, spiraea, etc. Outdoor valley was never better than this year. This material, each succeeding year, is seen in increasing quantity; the best sold at \$1.

Gaias were in brisk demand. There was a fair supply of Harrisil and long-floriums, which brought \$1 to \$1.50. Trade at the wholesale houses Monday morning last was still fair, but, as might be expected, stock was abundant.

Monday's market prices down. Quite a number of boxes arrived in a heated condition. Some very pretty varieties, such as the Tartarian honeysuckle, Ilacs, snowballs, spiraea, etc. Outdoor valley was never better than this year. This material, each succeeding year, is seen in increasing quantity; the best sold at \$1.

The Central Floral Co. had an elaborate Jewish wedding order on Tuesday. It was for a large number of flowers. The groom being a son of Nelson Morris, the bride sat under a canopy of Bride strings. In the dining room had a centre piece of choice flowers. The table was set with a canopy of Bride strings. In the dining room had a centre piece of choice flowers.

The bride sat under a canopy of Bride strings. In the dining room had a centre piece of choice flowers. The table was set with a canopy of Bride strings. In the dining room had a centre piece of choice flowers.

The bride sat under a canopy of Bride strings. In the dining room had a centre piece of choice flowers. The table was set with a canopy of Bride strings. In the dining room had a centre piece of choice flowers.

The bride sat under a canopy of Bride strings. In the dining room had a centre piece of choice flowers. The table was set with a canopy of Bride strings. In the dining room had a centre piece of choice flowers.

The bride sat under a canopy of Bride strings. In the dining room had a centre piece of choice flowers. The table was set with a canopy of Bride strings. In the dining room had a centre piece of choice flowers.

The bride sat under a canopy of Bride strings. In the dining room had a centre piece of choice flowers. The table was set with a canopy of Bride strings. In the dining room had a centre piece of choice flowers.

The bride sat under a canopy of Bride strings. In the dining room had a centre piece of choice flowers. The table was set with a canopy of Bride strings. In the dining room had a centre piece of choice flowers.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

## Springfield, Mass.

## Trade for Memorial Day.

Memorial Day passed off with more interest than for florists were concerned, than usual, Sunday giving them an opportunity to make up the order books for the week. The exercises on Monday. Flowers were abundant and reasonable in price. One dozen carnations at 10 cents, 1000 carnations at popular prices—10,000 carnations at 25 cents a dozen—which gave a good selling for the day. The exercises on Monday. Flowers were abundant and reasonable in price. One dozen carnations at 10 cents, 1000 carnations at popular prices—10,000 carnations at 25 cents a dozen—which gave a good selling for the day. The exercises on Monday. Flowers were abundant and reasonable in price. One dozen carnations at 10 cents, 1000 carnations at popular prices—10,000 carnations at 25 cents a dozen—which gave a good selling for the day.

Plant sales are not very satisfactory; cutting prices has resulted and profits have vanished.

The wedding season opened with a number on the first, to be followed by several more already announced, including one of the craft.

The unusual low temperature of June 2 has had the effect of checking the supply of flowers locally, requiring some of our florists to call on the wholesale market.

A. Mielze has brought in the finest valley ever offered in this market, he has had a very good success.

The German Iris beds of O. H. Dickinson, at Brightwood Farm, near the Iris station, have produced a very good crop of Iris delights in W. F. G.

## St. Paul.

## Trade Good.

The weather continues cool and planting has been done accordingly. Trade has been good, both in cut flowers and bedding plants, the latter being in demand along a very good business in the latter.

Memorial Day was observed here on Saturday. Trade for the floral decorations at the cemeteries were not elaborate, they were quite profuse. Snowballs, Geraniums, and other cut flowers were used quite extensively in making bouquets. A great many plants were being planted on the graves. A few of the weather class had set pieces made.

Plant Trade here. The weather continues cool and planting has been done accordingly. Trade has been good, both in cut flowers and bedding plants, the latter being in demand along a very good business in the latter.

Memorial Day was observed here on Saturday. Trade for the floral decorations at the cemeteries were not elaborate, they were quite profuse. Snowballs, Geraniums, and other cut flowers were used quite extensively in making bouquets. A great many plants were being planted on the graves. A few of the weather class had set pieces made.

Plant Trade here. The weather continues cool and planting has been done accordingly. Trade has been good, both in cut flowers and bedding plants, the latter being in demand along a very good business in the latter.

Memorial Day was observed here on Saturday. Trade for the floral decorations at the cemeteries were not elaborate, they were quite profuse. Snowballs, Geraniums, and other cut flowers were used quite extensively in making bouquets. A great many plants were being planted on the graves. A few of the weather class had set pieces made.

Plant Trade here. The weather continues cool and planting has been done accordingly. Trade has been good, both in cut flowers and bedding plants, the latter being in demand along a very good business in the latter.

Memorial Day was observed here on Saturday. Trade for the floral decorations at the cemeteries were not elaborate, they were quite profuse. Snowballs, Geraniums, and other cut flowers were used quite extensively in making bouquets. A great many plants were being planted on the graves. A few of the weather class had set pieces made.

Plant Trade here. The weather continues cool and planting has been done accordingly. Trade has been good, both in cut flowers and bedding plants, the latter being in demand along a very good business in the latter.

Memorial Day was observed here on Saturday. Trade for the floral decorations at the cemeteries were not elaborate, they were quite profuse. Snowballs, Geraniums, and other cut flowers were used quite extensively in making bouquets. A great many plants were being planted on the graves. A few of the weather class had set pieces made.

Plant Trade here. The weather continues cool and planting has been done accordingly. Trade has been good, both in cut flowers and bedding plants, the latter being in demand along a very good business in the latter.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE

## FOR RENT.

On the Most Favorable Terms. Nine houses modern construction, in first-class order, heated by hot water, as follows:

Two houses, 100 x 160 feet. One house, 100 x 200 feet. One house, 100 x 250 feet. One house, 100 x 300 feet. One ten-to, about 400 x 60 feet.

This range embraces the houses made vacant by the late Mrs. O. G. Curran, and is situated and separate from the range now occupied by the United States Nurseries, the most desirable property for a florist party. For full particulars apply to

JAS. R. ORRER, 124 Grand Ave., New York.

WHEN WRITING MENTION THE FLORIST'S EXCHANGE



## GREEN-HOUSE CONSTRUCTION.

This has been a specialty with us for many years and to us is due the credit for many of the great improvements that have been made in the construction of wooden green-houses. To those that buy our

### Clear Cypress Building Material

we furnish, free of cost, complete detail drawings from which any intelligent workman can put up the material correctly. We have plenty of time to write letters ABOUT OUR BUSINESS, and we will be glad to hear from those contemplating building.

Write for Circulars  
or Estimates.

**LOCKLAND LUMBER Co.**

LOCKLAND, OHIO.

When Writing Mention Florists' Exchange

**HAVE YOUR COLLECTIONS MADE**  
THROUGH THE  
**NATIONAL FLORISTS' BOARD OF TRADE,**  
271 BROADWAY, NEW YORK.

When Writing Mention Florists' Exchange

**EVERY FLORIST OUGHT TO**  
**INSURE HIS GLASS AGAINST**  
**THEFT.**

For particulars address

**JOHN G. ESLER, Sec'y, Saddle River, N. J.**

When Writing Mention Florists' Exchange



NO ADULTERATION  
BRAND

**BONE FLORA NO AID**  
References: Fred. Dornier & Son Co.,  
John H. Taylor,  
E. J. Hill & Co.,  
F. J. May & Co.,  
La Fayette, Ind.  
Bayville, N. J. N. Y.  
Richmond, Ind.  
St. Paul, Minn.

**GEO. S. BARTLETT, 1256-1257 WEST 6TH ST., CINCINNATI, O.**  
SUCCESSOR TO  
**CINCINNATI DESICCATING CO.**  
When Writing Mention Florists' Exchange

# "JADOO" FIBRE

NEW POTTING MATERIAL,

A Perfect Substitute for Earth.

## Concentrated "Jadoo" Liquid

Both Meat and Drink to Plants.

Revives Drooping Plants, strengthens the weak and nourishes the strong; above all, it increases the size, causes greater profusion of bloom, and heightens the Color of all Flowers.

Simply Invaluable in Pot Culture.

One gallon makes 48 gallons of strength for using. The CHEAPEST Fertilizer that can be bought.

NEW YORK OFFICE,  
409 Fifth Avenue.

NEWPORT, R. I., BRANCH,  
Bellevue Avenue.

UNITED STATES TROPICAL NURSERIES,  
Trinidad, West Indies.



Flowers Delivered by Telegraph in any  
part of the Civilized World.

AMERICAN JADOO CO.

Gentlemen:—We have just received the last shipment of Jadoo. We must say without doubt it is the grandest material for Potting Palms, Orchids and Stove Plants ever introduced. We have tried everything in the market and have failed to find its equal. We notice the difference in the growth of everything. Broader foliage, strong growth, and of a beautiful dark green foliage."

Yours very truly,

(Signed) **SIEBRECHT & SON,**

Largest Horticultural Establishment in America. Rose Hill Nurseries.

## SIEBRECHT & SON,

WHOLESALE AND IMPORTING  
FLORISTS AND NURSEYMEN,

TELEPHONE 151 NEW BOWLEE.

New Rochelle, N. Y., May 18th, 1897.

## Cincinnati.

Business Good.

Trade during the past week was very satisfactory. It started off a little quiet, but toward the latter part took a lead and steadily advanced. Friday and Saturday everything in sight at the commission houses was carried up at advanced prices, special decorations and private school commencing being the cause of this. Decoration day trade cuts no large figure here.

Outdoor flowers of all kinds were scarce, peonias being about the only ones available, and they sold at 4 cents each. Ten-week stock brought 2 cents, and up at advanced prices, and the supply is not equal to the demand. Roses are getting scarce, especially double. Sweet peas are most plentiful and sell at 25 cents to 50 cents per 100.

A Steamer Decoration.

On Thursday Huntman & Co. elaborately decorated the steamer *Island Queen*. The saloon cabin is one hundred and seventy-six feet in length and twenty-five feet in width. In this decoration were used ten thousand snowballs, five thousand spruce, one thousand blue iris, five thousand white daisies, five hundred red and white peonias and five hundred red violets. The tables of the cabin, eighteen in number, were decorated with parasurgus, fancy carnations and roses. Funeral work has also been quite a factor the past week.

On June 14th annual high school commencement takes place at Springer Hall. I understand the faculty has decided to allow the use of flowers.

News of the Week.

R. A. Kelly was in Cleveland during the week.

W. J. Gray had an auction sale of plants Tuesday; some baskets sold well, while others only brought a small figure. B. P. Critchell's sons have also been having similar sales and in that way disposed of many plants at good figures.

James Allen is receiving the congratulations of his friends; it's a ten-pound boy.

On Decoration Day the florists of Cincinnati who have stands in the Jabez Elliott Flower Market decorated the grave of Mrs. Mary E. Holroyd, the donor of the market. Critchell's Sons did the work. E. G. GILLET.

## Syracuse, N. Y.

A Cold Month.

The month of May has been a succession of cold, wet days, with little sunshine, and there appears no prospect of any improvement, as at midday to-day, June 1, the mercury is no higher than 56 degrees, with a decided feeling of snow in the air.

With scarcely any outdoor stock, the florists were besieged for cut flowers for Decoration Day trade. Everything in the shape of a hot water was used, even to geraniums and begonias, and then many orders were reluctantly refused.

The trade in bedding plants hung fire on account of the weather, but is now coming in strong, and the indications are for a clean sale all around.

A Floral Steamboat.

It is not often a steamer order is placed so far inland, but L. L. Wasserduse filed one this week in the shape of a model of the St. Louis, presented by L. C. Smith, a wealthy resident of this city, to a friend who sails to Europe on that vessel. The boat was composed of white canvas, with a hull of the same color in pink. The funnels were of blue argenteum. Smilax composed the mainmast and rigging, and the base was of lily of the valley, which, arranged in its own foliage, made a good representation of a mast.

Henry Morris is now East Greenwich in his store in Bath Greenese street. G. BARSON.

**JOHN CONLEY & SON,**  
MANUFACTURERS OF  
**TIN FOIL**  
2 and 4 Dominick Street,  
**NEW YORK.**

When Writing Mention Florists' Exchange

**SHEEP FERTILIZER!**  
PULVERIZED. COMPRESSED.

A Quick Germinator and Crop Forcer.  
NATURAL. COOLERS. CLEAN TO HANDLE.

**JOHN J. PETERS CO.,** Long Island City, N. Y.

**M. RICE & CO.,**  
Importers and Manufacturers of  
**FLORISTS' SUPPLIES.**

25 N. 4th St., Philadelphia, Pa.

NEW FALL CATALOGUE NOW READY

**WELCH BROTHERS,**  
DEALERS IN  
**FLORISTS' SUPPLIES,**

15 Province Street, BOSTON.

9 Crampton Place, BOSTON.

Wire Design, Flower Shaves, Baskets, Im-mortelles, Cape Flowers, Cut Flowers, Boxes, and all other supplies, at prices to meet competition.



TELEPHONE 1782 18TH ST.

**MEYER GREEN SILKALINE.**

Used for Stringing 200' LX and 450' X 200.



Will not fade, or rot like other colors. Made also in fancy colors for tying purposes. Send for samples and prices.

**JOHN C. MEYER & CO.,**  
87 Summer Street, BOSTON, MASS., U. S. A.

**Boston Florist Letter Co.**



This wooden box nicely stained and varnished, 16x20  
in. made in two sections, one for each side letter, and  
open with first order of 500 letters.

Block Letters, 1 1/2 x 1 1/2 inch, 100, \$2.00

Script Letters, \$4.00

Estimate with each letter or word.

Used by leading florists everywhere and for sale by all  
wholesale florists and supply dealers.

**N. F. MCCARTHY, Treas. & Manager.**

100 N. BOSTON, MASS., or 100 N. BOSTON.

When Writing Mention Florists' Exchange

Testimonials and Prices furnished on application to

# THE AMERICAN JADOO CO.,

811 Fairmount Avenue,

PHILADELPHIA, PENNA.

When Writing Mention Florists' Exchange

**Steffens** SUCCESSOR TO  
N. STEFFENS  
FLORISTS' SUPPLIES  
**WIRE DESIGNS**  
AND SUPPLIES  
EAST 21 ST. STREET, NEW YORK CITY.

When Writing Mention Florists' Exchange

**LORD & BURNHAM CO.,**  
**HORTICULTURAL ARCHITECTS AND BUILDERS,**  
 STEAM AND HOT WATER HEATING ENGINEERS.

Plans and Estimates furnished on application.



Largest Builders of Greenhouse Structures. Six Highest Awards at the World's Fair. Send four cents postage for Illustrated Catalogue.

**LORD & BURNHAM CO.,**  
 ARCHITECTURAL OFFICE, 166 FIFTH AVE., COR. 21st STREET, NEW YORK.  
 Factory: Irvington-on-Hudson, New York. Mention paper

**CYPRESS**  
 IS MUCH MORE DURABLE THAN PINE.

**CYPRESS SASH BARS**  
 UP TO 32 FEET IN LENGTH OR LONGER.

**GREENHOUSE AND OTHER BUILDING MATERIAL.**

Send for our Illustrated Book "CYPRESS LUMBER AND ITS USES." Send for our Special Greenhouse Circular.

**THE A. T. STEARNS LUMBER CO.,**  
 NEWPORT, BOSTON, MASS.

When Writing Mention Florists' Exchange

**CYPRESS GREENHOUSE MATERIAL**

**JOHN C. MONINGER CO.**  
 412 to 422 HAWTHORNE AV. CHICAGO, ILL.

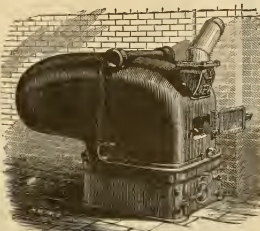
OF ANY DESCRIPTION.

SEND FOR CATALOGUE. When Writing Mention Florists' Exchange

London's Flower Bill.

It is estimated that Londoners annually spend in cut flowers considerably over £1,000,000 sterling.

**GREENHOUSE HEATING AND VENTILATING,**  
 Horticultural Architecture and Building.



Mention paper.

SEND 4c. POSTAGE FOR ILLUSTRATED CATALOGUE.

**Hitchings & Co**

ESTABLISHED 1844.  
 233 Mercer Street, NEW YORK

**FIVE PATTERNS OF BOILERS.**  
 NINETEEN SIZES.  
 Perfect Sash Raising Apparatus.  
 Rosehouses, Etc., of Iron Frame Construction erected complete or the Structural Iron Work shipped ready for erection.  
 Iron Frame Benches with the "Perfect Drainage Bench Tile" or Sash Taps.

**GLASS**

FOR GREENHOUSES, CONSERVATORIES, GRAPERIES, HOTBEDS AND FLORISTS' USE GENERALLY, AT LOWEST RATES.

**L. H. FERIS & SON,**  
 497 W. BROADWAY, NEW YORK, 40 LIBERTY ST., NEW YORK  
 261, Nassau and Bleeker Sts. 36, Broadway and Church St.

When Writing Mention Florists' Exchange

**GLASS!** For Greenhouses, Conservatories, Graperies, Hotbeds and all other purposes, at Lowest Rates. **GLASS!**

**N. COWEN'S SON** 392 & 394 West Broadway, New York.  
 Formerly 154 and 156 No. Fifth Avenue. Estimates Freely Given.  
 Get our Figures before buying Glass.

**GLASS** For GREENHOUSES, CONSERVATORIES, GRAPERIES, HOTHOUSES AND HOTBEDS. **GLASS**

**VANHORNE GRIFFEN & CO.**  
 Agents for **CHAMBERS & McKEE CO.** Jeannette Brands American Glass.  
 40 to 48 VESTRY STREET, Cor. Greenwich Street, NEW YORK.  
 Importers of French Glass. When Writing Mention Florists' Exchange

**GREENHOUSE GLASS.**  
 THE WOOD GLASS COMPANY,  
 226 N. SALINA ST., SYRACUSE, N. Y.

**MASTICA**  
 FOR GLAZING GREENHOUSES. SUPERIOR TO PUTTY IN EVERY WAY.

It is not hardened by the extreme heat or cold that a greenhouse is constantly subjected to both inside and out. Mastic is adhesive and remains permanently elastic so that it is not forced out of place by expansion and contraction of the wood-work. Hopes glazed with Mastic do not need re-glazing, thus saving time and expense. With Mastic cut "bed" for use on the outside, but with a machine only.

Mastic and Mastic Glazing Machine were given **HIGHEST AWARD OF SOCIETY OF AMERICAN FLORISTS AT PITTSBURGH, 1895.**

Put up in gallons, \$1.00. Half gallons, 60 cts. Quarter gallons, 35 cts. Mastic Glazing Machines, \$1.00 each.

Send for full descriptive circular and testimonials. Agents in all the principal cities.

**F. O. PIERCE CO.,** Sole Manufacturers, 170 Fulton St., New York.  
 When Writing Mention Florists' Exchange

**CALIFORNIA RED CEDAR**  
 Never Decays.  
**A. DIETSCH & CO.** 619 Sheffield Avenue, CHICAGO.  
 MANUFACTURERS OF RED CEDAR AND CYPRESS GREENHOUSE MATERIAL.  
 When Writing Mention Florists' Exchange

**THE VAN REYPER PERFECT GLAZIERS' POINTS**

No rights or lefts. Price per box of 1000, 60c. by mail, 75c. in lots of 5000 by ex., 55c. per 1000.

**HENRY A. DREER,** 714 Chestnut St., Phila., Pa.  
 When Writing Mention Florists' Exchange

**A GOOD GREENHOUSE HOSE**

We are having a hose manufactured from the best material in the market that will give satisfaction to all who try it. We can furnish it in 25 ft., 40 ft. and 60 ft. lengths at 10 cts. per foot with connections complete. References required from unknown parties.

**Address J. G. & A. ESLER, Saddle River, N. J.**  
 When Writing Mention Florists' Exchange

**FURMAN BOILERS**  
 especially adapted to **Greenhouse Heating.**  
 200 Styles and Sizes. Steam and Hot Water. SAFE, SUBSTANTIAL, SIMPLE, ECONOMICAL. Portable or Brick Set.

**GREAT COAL Saver.**  
 Send for catalogue. Estimates Free.

**THE HERDEEN MFC. CO.,**  
 Home Office: 12 Fay St., Geneva, N. Y.  
 BRANCH OFFICES:  
 Boston, 54 Oliver St.; Philadelphia, 1019 Betz Bldg.; New York, 39 Cornland St.; Milwaukee, 135 2d St.

When Writing Mention Florists' Exchange

**ATTENTION, FLORISTS!**

It will be to your advantage to look into the merits of the Scollay "Invincible" Hot Water Boiler. It is all that its name implies, and don't forget it.

Cuts and full information mailed on application.

**JOHN A. SCOLLAY,**  
 74 & 76 MYRTLE AVE.,  
**BROOKLYN, NEW YORK.**  
 When Writing Mention Florists' Exchange

J. K. ALLEN, Wholesale Commission Dealer in CUT FLOWERS, 57 W. 29th St., New York.

W. S. ALLEN, 17 West 28th St., New York.

FITZGERALD & HAMMOND, Wholesale Commission Dealers in CUT FLOWERS, 115 West 30th Street, Consignments Solicited. NEW YORK.

FORD BROS. WHOLESALE FLORISTS, 111 West 30th Street, NEW YORK.

WM. H. CUNTER, Wholesale Florist, VIOLETS and CARNATIONS A SPECIALTY. 30 West 20th St., New York.

MICHAEL A. HART, Wholesale & Commission Florist, 113 W. 30th St., New York.

H. A. HOFFMANN, Wholesale Florist, 44 W. 29th St., NEW YORK.

EDWARD C. HORAN, WHOLESALE & FLORIST, No. 34 W. 29th St., New York.

JULIUS LANG, Wholesale Florist, 53 WEST 30th ST. NEW YORK.

MILLANG & CO., Wholesale Commission Florists, 501 Sixth Avenue, CORNER 30th Street, NEW YORK.

W. E. LYNCH, Wholesale Dealer in Cut Flowers. We are Headquarters for finest Carnations and Roses, Violets, Valley, Romans, Smilax...

CHAS. W. MCKELLAR, WHOLESALE COMMISSION FLORIST. Largest and best market in Chicago. Constant supply of all seasonable flowers.

WHOLESALE FLORISTS' EXCHANGE. A decorative graphic with floral motifs.

Table with columns: NAMES AND VARIETIES, NEW YORK (June 4, 1897), BOSTON (June 2, 1897), PHILADELPHIA (June 2, 1897), CHICAGO (June 1, 1897), ST. LOUIS (May 26, 1897).

For Prices of Fancy and Special Stock see our Correspondence Columns. Prices are for quantities of one hundred unless otherwise noted.

REINBERG BROS., Wholesale Growers of Cut Flowers. We can fill all orders on short notice with all leading varieties of ROSES and CARNATIONS. SALESROOM 51 Wabash Avenue, CHICAGO, Ill.

Illinois Cut Flower Co., Wholesale Commission Florists, 61 Wabash Ave., Chicago. KENNICOTT BROS. COMPANY, Wholesale & Cut Flowers, 88 Wabash Avenue, CHICAGO, ILL.

FRANK MILLANG, Wholesale Commission Dealer in Cut Flowers. 408 East 34th St., New York City.

THE NEW YORK CUT FLOWER CO. 119-121 West 23d Street, 112-114 West 24th Street, Telephone 733, 123 B. B. NEW YORK.

PURDY & BLAUVELT, Wholesale and Commission Dealers in CUT FLOWERS. MAIDS' HAIR FERN FLOWERS A SPECIALTY.

A. & F. ROLKER, Wholesale Dealers in CUT FLOWERS, 53 West 25th St., New York.

W. F. SHERIDAN, Wholesale Commission Dealer in CUT FLOWERS, 59 West 25th St., New York.

TRENDLY & SCHENCK, Wholesale Florists, 38 W. 28th St., and CUT FLOWER EXCHANGE, NEW YORK.

JOHN YOUNG, Wholesale Florist, 51 WEST 28th ST., NEW YORK.

W.M. J. BAKER, Wholesale Florist, 1432 So. Penn Square, Philadelphia, Pa.

DUPLICATE & CO., WHOLESALE FLORISTS, CARNATIONS A SPECIALTY, No. 1305 Filbert St., Philadelphia.

EDWARD REID, Wholesale Florist - FINEST VARIETIES - ROSES, CARNATIONS, No. 40 South Sixteenth Street, Local and Long Distance Philadelphia.

**Wholesale Florists**  
AMAZONIA OR HARDY: CAMELIAS, GARDENIAS, ROSES.  
**FLORISTS' SUPPLIES.**  
**FLORISTS' VASES.**  
 Horticultural Architects,  
 84 HAWLEY STREET, - BOSTON.

**GEO. A. SUTHERLAND,**  
 SUCCESSOR TO WM. J. STEWART,  
**CUT FLOWERS and FLORISTS' SUPPLIES**  
**WHOLESALE.**  
 67 Bromfield St., Boston, Mass.

**City Hall Cut Flower Market**  
**WELCH BROS., Props.**  
 Regular Consignors Given Space Free of Charge. Space let to growers wishing to sell their own goods.  
 Flowers Shipped to all Points.  
**...SEND FOR PRICE LIST...**

**W. ELLISON,**  
**Wholesale Cut Flowers,**  
 Floral Supplies. Wire Designs.  
 2744 Franklin Ave., ST. LOUIS, MO.

**CHAS. G. FLECKENSTEIN,**  
**Wholesale Flowers,**  
 1323 PINE STREET,  
 ...ST. LOUIS, MO.

**C. A. KUEHN,**  
**WHOLESALE FLORIST,**  
 1122 Pine St., St. Louis, Mo.  
 A COMPLETE LINE OF WIRE DESIGNS.

**C. W. WORS,**  
**Wholesale Florist,**  
 313 N. LEFFINGWELL AVENUE,  
 ST. LOUIS, MO.  
 FINE ROSES—Shipped carefully to all parts of the country.

**ROGERS PARK FLOWER CO.,**  
**Wholesale Growers of Cut Flowers**  
 OFFICE AND SALESROOM,  
 41 WABASH AVE., CHICAGO.  
 Headquarters for AMERICAN BEAUTIES.

**Buffalo Cut Flower Exchange,**  
**WHOLESALE COMMISSION,**  
 431 WASHINGTON ST., BUFFALO, N. Y.  
 Telephone, Seneca 1366.

**HEADQUARTERS** in Western New York. Try us  
**ALL SEASONABLE FLOWERS.**  
**WM F. KASTING,** Wholesale  
 Florist  
 495 Washington Street,  
 BUFFALO, N. Y.  
 Also Dealer in Florists' Supplies & Wire Designs

**St. Louis**  
**Cut Flower Co.**  
**WHOLESALE FLORISTS.**  
 1620 Olive St.,  
 ST. LOUIS, MO.  
 When Writing Mention Florists' Exchange.

**E. G. HILL & CO.,**  
**Wholesale Florists,**  
**RICHMOND, INDIANA.**  
 When Writing Mention Florists' Exchange.

*San Francisco*  
 Henry Meade and John Reynolds, proprietors of the California Chemical Works, because acids from the chemical works destroyed the plants in the nursery close by. He demands \$10,000 damages. The case was called for trial April 23, but the defendant made no appearance and Justice Hart awarded the full amount of damages on the showing made by the plaintiff.

**THE EXPERIMENT STATIONS.**  
**RASPBERRY ANTRACNOSE.** Bulletin 124, same station.  
**MASSACHUSETTS AGRICULTURAL COLLEGE.**—Thirty-fourth annual Report.  
**THE RAPE CROP.** Bulletin 53, University of Wisconsin Experiment Station, Madison, Wis.  
**PETRIAL INSECT ENEMY OF THE APPLE.** Bulletin 22, same station. Tellabor to combat the Petal Case Bearer.  
**THE CRABAPPLE.** Bulletin 35, Maine State College Agricultural Experiment Station, Orono, Me. This bulletin gives a popular description of the life history, habits, and way of fighting this pest.

**SPRAY MIXTURES AND THEIR APPLICATION.** Bulletin 121, same station. This pamphlet gives in detail the formulae for the different spraying mixtures, together with a list of apparatuses for applying same.  
**NOZZLE TYPES.** Bulletin by Professors B. M. Duggar and L. B. Bailey. Bulletin 132, Cornell, Ithaca, N. Y. This bulletin, which is profusely illustrated, contains discussions on the ear tip and late blight of celery; late blight in the storage house, with suggested remedies; remarks about the construction of strangle burials, and experiments with venturers to celery.

**NOZZE TYPES PLANS FOR WESTERN NEW YORK.** By S. D. Willard and Professor Bailey. Bulletin 131, Cornell University Agr. Exp. Station, Ithaca, N. Y. This bulletin, which is profusely illustrated, contains an interesting description of the types of nozzles, remarks on plumb growth, insects and diseases, and notes on varietes. Professor Bailey says: "Amongst the plumes which can be most confidently recommended for market in Western New York are the following: Ford, Broadbent, Cambridge, Troy, Hudson River Purple Egg, Italian Prune, Emory, Grand Duke, Arch Duke, Mouchy, Giani, Peter's Yellow Egg, Reine Claude, and Coppee. Amongst the nozzles, the Red and the Farleigh are perhaps the best. Of the Japanese plums, the only ones which would be a recommendation for plant in Western New York at present are the Red June, Abundance, Burtan, and Chango. The Red and the Abundance to be the best very early market plum for this region which I know. The far as concerns the domestic and Japanese plums are self-fertile, but it is always the safest course to plant varietes of alternate rows."  
**Mr. Willard's notes on varietes will be found of immense value to those interested in the subject.**

**THE DOWNY MILDEW OF THE CUCUMBER AND ITS TREATMENT.** Bulletin 115, New York Agricultural Experiment Station, Geneva, N. Y. Spraying with Bordeaux mixture (1 to 5 formalin) is recommended as a preventive. To cure the Downy mildew of this strength will require six pounds of copper sulphate, about four pounds of fresh lime, and fifty gallons of water. Dissolve the crystals of sulphate in half the water by suspending them in it in a crock, and add a wooden vessel. Sink the lime in part of the water and dilute it to make a thin solution. To the sulphate is fully dissolved add the whitewash to form an emulsion, thoroughly mix and test the mixture occasionally with a few drops of potassium ferrioxalate solution. If enough lime has not been added, the drops of ferrioxalate as they touch the mixture will become dark reddish brown. Add lime until no such reaction appears on applying the test and then put in a few more to be sure to get a good reaction. An excess of sulphate will "burn" the leaves, but an excess of lime is harmless. The quantity of Bordeaux mixture required will vary with the size of the plants and the amount of rainfall. Enough should be applied each time to leave upon every leaf one-half inch of solution. The potassium sulphate that the spores can touch no point of the plant should be protective. If it rains wash off the coating; it will be necessary to spray again. The remedy should be applied early, constantly and thoroughly.

**TOBACCO DUST**  
**TO BURN,** \$3.00 per bbl., 180 lbs.  
**TO SPRINKLE,** \$6 per case, 450 lbs.  
**CORRECT KIND,** 315 Madison Ave., N. Y. C.  
 When Writing Mention Florists' Exchange

**..JUNE..**  
**WEDDINGS**

ARE INCOMPLETE WITHOUT  
**Asparagus Plumosus Nanus**

The only perfect decorative green known to the Florists' art. Its keeping qualities are remarkable. It does not wilt in warm weather, and, if necessary, can be arranged several days before the occasion. Cut strings, 12 feet long, 50 cents. This is only

**12 1/2 CENTS PER YARD**  
 Extra long strings can be supplied at special prices. Can furnish strings by the thousand at all times.

**W. H. ELLIOTT, Brighton, Mass.**  
 When Writing Mention Florists' Exchange

**CUT SMILAX.** ...THE COMPLETE...  
 12c. per string, heavy, 6 to 15 strands.  
**A. J. BALDWIN, Newark, O.**  
 When Writing Mention Florists' Exchange

**Galax Leaves.** ...BOOK CATALOGUE.  
**CHAS. H. RICKSECKER, Linville, N. C.**  
 When Writing Mention Florists' Exchange  
 ...FOR FINEST...  
**Galax Leaves and Leucothoic Sprays**  
 ALWAYS WRITE THE INTRODUCERS.  
**Highlands Nursery, Kawana, N. C.**  
 When Writing Mention Florists' Exchange

**Fine Smilax** to 6 feet long.  
**\$15 per 100 strings.**  
 Cash with order, please.  
**Address:**  
**WM. KEIR, Pikesville, Md.**  
 When Writing Mention Florists' Exchange

**CUT SMILAX**  
 Choice 5 foot strings, \$10.00 per 100. Annual supply, 50,000 strings.  
**ADIANTUM CUNEATUM**  
 Extra fine strands, \$1.00 per 100. No attention will be paid to orders not accompanied by the cash.  
**CUSTAVE SCRADER,**  
 Cut Flower Exchange and Hoffman Nurseries, New York.  
 When Writing Mention Florists' Exchange

We have just issued the most Select and Complete Catalogue of Books on Horticulture and Allied Subjects, ever published. The catalogues of the various book publishers of this country as well as of Europe, have been carefully gone through and such works taken therefrom as were considered suitable for our patrons.  
 This catalogue contains 96 pages, and embraces  
**...BOOKS for**  
 The Florist  
 The Market Gardener  
 The Nurseryman  
 The Fruit Grower  
 The Seedsmen  
 The Student of Botany, Entomology and Ornithology  
 The Poultry Keeper  
 The Farmer  
 The Lover of Plants and Flowers  
 and the Student of Nature in general, in fact  
**BOOKS FOR EVERYBODY**  
 interested in the science and practice of rural economy.  
 A select clubbing list of periodicals, home and foreign, is also furnished, from which a considerable saving may be effected in their purchase.  
 This handy catalogue will be sent on application, accompanied by a two-cent stamp. Address  
**A. T. DE LA WARE PTE. and PUB. CO. Ltd.**  
 P. O. Box 1697, New York.

When Writing Mention Florists' Exchange

LARGEST AND BEST STOCK OF  
**PREPARED CYCAS LEAVES**

TO BE FOUND ANYWHERE

Metal Floral Designs, Sheaves, Doves, Baskets, Moss Wreaths, Wheat, Milkweeds, Cape Flowers, Wire Work, and all Florists' Supplies.

Write for catalogue. Free to the trade.

**A. HERRMANN, 404-412 East 34th Street (Near Ferry), New York,**

Manufacturer of METAL FLORAL DESIGNS, Importer and Dealer in FLORISTS' SUPPLIES.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**CYCAS LEAVES AND FUNERAL SHEAVES**

BASKETS AND SUPPLIES,

SEEDS AND SPRING BULBS.

At wholesale only; apply for lists. Address

**AUGUST ROLKER & SONS, NEW YORK,**

136 and 138 West 24th Street. P. O. Station E.

WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**GERANIUMS.**

All colors, best varieties, 4 inch, \$8.00 per 100.

VERBENAS, ALTERNANTHERA, LOBELIA, VINCA VINES, Etc. Send for list of Spring Stock.

**YOUNG ROSE STOCK.**

Bride, Bridesmaid, Meteor, Perle, 2 1/2 inch, \$3.00 per 100.

YOUNG SMILAX PLANTS, 2 1/2 inch, strong plants, \$2.00 per 100.

CUT FLOWERS, WIRE WORK, and all Supplies. BASKETS for Commencement exercises. Send for Catalogue.

**ELLIS & POLLWORTH, Box 75, Milwaukee, Wis.**

When Writing Mention Florists' Exchange

**BASKETS** . . . FOR . . . COMMENCEMENTS

A large assortment of all the most popular shapes and sizes.

**WHEAT SHEAVES** of extra quality and weight. **CAPE FLOWERS.** Extra quality, strictly pure white. Prices on application.

**CYCAS LEAVES** in all sizes.

SEND FOR OUR ILLUSTRATED WHOLESALE CATALOGUE.

**H. BAYERSDORFER & CO., 56 N. Fourth St., PHILADELPHIA, PA.**

When Writing Mention Florists' Exchange

**VEGETABLE PLANTS.**

Vegety Wakefield, Early Summer and Red Cabbage, \$1.00 per 100. Cauliflower (Snowball) \$1.50 per 100, ready to plant. Cut in lot. Celery, White Flame and Golden Self-Blanching, \$1.00 per 100.

J. C. SCHMIDT & CO., Baitel, Pa.

When Writing Mention Florists' Exchange

**CELERY** Plants Now Ready

\$1.40 per 1000.

Special Low Ex. Rates Guaranteed.

Most Practical Book on Celery Growing, 50 cts.

**PETER J. SCHUUR, Kalamazoo, Mich.**

**VEGETABLE PLANTS**

**CABBAGE**—Henderson's Succession, Early Flat Dutch, London, Autumn King, Burpee's Sure Head, Late Flat Dutch, Premium Flat Dutch, Late Drumhead, Mammoth Rock Red and Drumhead Savoy. Field grown: 15c. per 100; \$1.00 per 1000; \$8.50 per 10,000.

**TOMATO**—Royal Red, Stone and Paragon, 15c. per 100; \$1.00 per 1000.

**EGG PEPPER AND SNOWBALL CATTLEFLOWER** plants, 25c. per 100; \$2.00 per 1000.

**CELERY**—Dwarf Golden Heart, Golden Self-Blanching, Giant Pascal, New Rose, White Flame and Giant Paragon Celery, 15c. per 100; \$1.00 per 1000; \$8.00 per 10,000.

We are headquarters for all kinds of Vegetable Plants. Anything you want not here mentioned send for price list. We make liberal reductions on cabbage and celery in 10,000 lots.

Cash with order.

**R. VINCENT JR. & SON, White Marsh, Md.**

When Writing Mention Florists' Exchange

**ECHEVERIA!**

\$35.00 per 1000.

**GUSTAV OTTO,**

91 Sherman Place. JERSEY CITY, N. J.

**CHRYSANTHEMUMS** and varieties, from pots \$2.00 per 100. Mrs. H. Robinson, \$3.00 per 100. **VIOLETS** California, Marie Louise, single \$1.00. **VIOLETS** white, from 2 1/2 inch pots, \$3.00 per 100. **Lady H. Campbell**, single, \$1.00 per 100.

**MOONVINES** A 1/2 inch lot, 3 in. pots, \$6.00 per 100.

**AMPELOPSIS VEITCHII** 3 inch pots, \$2.00 per 100.

**C. EISELE, 11th & Jefferson Streets, Philadelphia, Pa.**

**VEGETABLE PLANTS**

All strong, well rooted plants, of standard varieties.

Sweet Potato Plants	100	1000
Cabbage	\$0.15	\$1.00
Tomato	15	1.00
Broccoli, White Cape	25	
Zucchini	15	1.00
Celery, blanching	15	1.00
Pepper	25	2.00
Cauliflower, Snowball	35	3.00

TRADE PRICE LIST PRICE.

Send Stamp for Samples. **E. C. HARGADINE, Felton, Del.**

**EXTRAORDINARY CLEARING OUT SALE**

**AT AUCTION**

OF A HIGH CLASS OF

**PALMS, FIGUS, FERNS, ORCHIDS and CANNAS.**



Also the appurtenances for growing them, consisting of houses, boilers, piping, pots, horses, harness, wagons, implements, etc., etc., also dwelling house, belonging to

**JAMES DEAN, of Bay Ridge, N.Y.**

who is retiring from business, has sold the ground to the city of Brooklyn for improvement, necessitating his immediate removal. The stock is in excellent condition. The new tariff will have a tendency to make the goods much higher this fall.

IT WILL BE A GRAND OPPORTUNITY FOR FLORISTS TO STOCK UP AND IT WILL PAY EVERYONE TO ATTEND THE SALE.

Premises can be reached by boat, via South Brooklyn, or Bridge and Fifth Ave. Elevated. Catalogues on application.

**WEDNESDAY and THURSDAY, JUNE 9th and 10th, at 10 O'CLOCK.**

**WILLIAM ELLIOTT & SONS, Auctioneers, NEW YORK.**

# THE FLORIST'S EXCHANGE

We are a straight shoot and aim to grow into a vigorous plant.

A WEEKLY MEDIUM OF INTERCHANGE FOR FLORISTS, NURSERYMEN, SEEDSMEN AND THE TRADE IN GENERAL.

VOL. IX. NO. 24.

NEW YORK, JUNE 12, 1897.

One Dollar Per Year.

## ..PALMS..

### ARECA LUTESCENS.

4 inch pots, 15-18 inches high, 3 plants in a pot.....\$4.50 per dozen; \$35.00 per 100  
 5 inch pots, 21-24 inches high, 3 plants in a pot.....\$5.00 per dozen; \$38.00 per 100  
 6 inch pots, 25-30 inches high, 3 plants in a pot.....\$12.00 per dozen; \$100.00 per 100

### COCOS WEDDELIANA.

3 inch pots .....\$3.00 per dozen; \$25.00 per 100

### KENTIA BELMOREANA.

3 inch pots, 8-12 inches high, 4-5 leaves .....\$3.10 per dozen; \$21.00 per 100  
 4 inch pots, 12-15 inches high, 4-6 leaves .....\$3.50 per dozen; \$29.00 per 100  
 5 inch pots, 15-20 inches high, 6-7 leaves, stocky .....\$5.00 per dozen; \$35.00 per 100  
 6 inch pots, 21-24 inches high, 6-7 leaves, stocky .....\$12.00 per dozen; \$100.00 per 100

### KENTIA FORSTERIANA.

3 inch pots, 12-15 inches high.....\$1.50 per 100  
 4 inch pots, 15-18 inches high.....\$1.50 per dozen; \$85.00 per 100

### LATANIA BORBONICA.

2 inch pots.....\$2.00 per 100; \$25.00 per 1000  
 3 inch pots.....\$3.00 per 100; \$30.00 per 1000  
 4 inch pots, 12-15 inches high.....\$3.00 per dozen; \$25.00 per 100  
 5 inch pots, 15-18 inches high.....\$4.00 per dozen; \$30.00 per 100  
 6 inch pots, 18-20 inches high, stocky plants.....\$9.00 per dozen; \$75.00 per 100

### LIVISTONA HOOGENDORPII.

4 inch pots, 10-12 inches high, 7 leaves.....\$4.50 per dozen; \$35.00 per 100

### LIVISTONA ROTUNDFOLIA.

5 inch pots, 12-15 inches high, 7-8 leaves, strong plants.....\$1.50 each; \$18.00 per dozen

### PHŒNIX RECLINATA.

5 inch pots, 15-18 inches high.....\$6.00 per dozen; \$45.00 per 100

## PITCHER & MANDA, Short Hills, N. J.

JOHN N. MAY, Receiver.

When Writing Mention Florists' Exchange

## WINTER FLOWERING ROSES.

Our stock of these is very large, and in exceptionally fine shape. We offer all the leading varieties, strong plants in 2 1/2 in. pots, as follows:

**PERLE, BRIDESMAID, METEOR, BRIDE and MME. CUSIN.**  
 \$5.00 per 100; \$10.00 per 1000.

**MME. CAROLINE TESTOUT and MRS. PIERPONT MORGAN.**  
 \$6.00 per 100; \$50.00 per 1000.

**AMERICAN BEAUTY,**  
 \$10.00 per 100; \$80.00 per 1000.

**PRESIDENT CARNOT,**  
 \$15.00 per 100; \$125.00 per 1000.

We have a fine stock, also, of the new climbing **YELLOW RAMBLER ROSE** The only hardy yellow climbing rose yet introduced. A worthy companion to the wonderful Crimson Rambler. Strong plants, 2 1/2 in. pots, \$3.00 per doz; \$10.00 per 100.  
 Strong plants, 3 1/2 in. pots, \$5.00 per doz; \$20.00 per 100.



The above Rose Stock is in perfect shape and will please the most fastidious. Samples sent free desired. We invite inspection of stock.

## DOUBLE TUBEROUS BEGONIAS

In order to close out stock remaining on hand of **DOUBLE TUBEROUS BEGONIAS** we offer what stock we have as long as unsold at \$3.00 per 100; \$25.00 per 1000. This is only the price of ordinary Single Begonias, and considerably below cost. We offer at this nominal price only in order to close out stock we have left.

We have a sur- **TUBEROSE PEARL** Extra quality bulbs, 4-5 inches in circumference, perfect shape, \$66. per 100; \$4.00 per 1000. **SPeAK QUICK IF YOU WANT THESE BARGAINS.**

Our Whole ale List of Palms, Decorative Plants, etc., will be sent free on application.

## F. R. PIERSON CO.,

TARRYTOWN-ON-HUDSON, NEW YORK.

When Writing Mention Florists' Exchange

## INSECTICIDES

PUT UP IN ATTRACTIVE SALABLE  
 . . PACKAGES FOR RETAILING . .

**HELLEBORE**..... 1/4 lb. packages, \$0 90 per doz.  
 "..... 1/2 lb. " 1 40 "  
**WHALE OIL SOAP**..... small size " 1 00 "  
**STOTT'S FIR TREE OIL SOAP**..... 2 50 "  
**WHALE OIL SOAP**..... in 1 lb. bars 1 20 "  
**PARIS GREEN**..... put up in 1 lb. boxes 2 00 "  
**SLUG SHOT**..... in 5 lb. packages 2 75 "  
**TOBACCO SOAP**..... in 1 lb. and 1/2 lb. " 4 00 per 12 lbs.

Protect your FRUIT and SHADE TREES against the ravages of Caterpillars, Borers and other noxious insects by using **ERMISCH'S CATERPILLAR LIME**.  
 Price, per 5 lb. can, \$1.00.

A Complete Line of **BELLOWS and BRASS SYRINGES** always on hand. Prices on application.

**DON'T FORGET TO GET OUR SPECIAL BULB PRICE LIST, NOW READY.**

## F. E. McALLISTER CO.

SEED and BULB MERCHANTS,

69 CORTLANDT ST., NEW YORK.

When Writing Mention Florists' Exchange

## CANNAS.

FINE STRONG STOCK.

Started plants, \$4.00 per 100. Plants from pots, \$5.00 per 100. **Mme. Crozy, Chas. Henderson, A. Bouvier, Sunbeams, Egandale, Star of '91, St. Hillaire, Ami Pichon, Pres. Carnot.**

### BURBANK. Each 75 cts.; 6 for \$4.00.

Austria, and Souv. de Antoine Crozy, \$10.00 per 100.  
 Chas. Henderson, A. Bouvier, Sunbeams, Count H. de Choiseul, dormant, at \$2.00 per 100. F. R. Pierson, \$3.00 per 100.  
 Mme. Crozy, dormant, \$5.00 per 100.

**GERANIUMS.** A few thousand, 2 1/4 inch stock, at \$25.00 per 1000.

**IVY GERANIUM.** 100 Jean d'Arc, at \$2.00.

**BEGONIA VERNON.** Fine 2 inch stock, \$2.50 per 100; \$20.00 per 1000.

**CHRYSANTHEMUMS.** \$2.50 per 100, Ivory, Pink Ivory, Mrs. Perrin, The Queen, Nanshon, Marion Henderson, Mrs. Egau, Wm. Simpson, Marquis de Moutmorin, Mrs. Jerome Jones, Erinilda, Niveus, Gladys Spaulding, V. Morel, Philadelphia, Daydawn, Mrs. Robinson, Miss Johnson, Bergmann.  
 \$1.00 per 100, H. W. Rieuan, Liberty, Invincible, Pluto, Fitzwygram, Lenawee, Autumn Bride, Sibyl Kaye, Indiana, Yanoma, F. R. Hayes, Mrs. Murdoch, Mrs. B. Crawford, Pride of Castledow, Volensent, Riverside, Rinaldo, &c.

**CARNATIONS.** From Soil. Tinnie Cook, \$2.50; Mrs. Chas. Duhme, \$10.00; Mrs. G. T. Bradt, \$10.00 per 100.

## THE COTTAGE GARDENS

QUEENS, L. I.

When Writing Mention Florists' Exchange

SEASONABLE SEEDS!

Fresh Seeds—Calla Bulbs.

**Apple Geranium** (true), 25 cts. pkts.; \$1.00 per 100 seeds; \$1.20 per 1000 seeds.  
**Musa Ensiset.** 70 cts. per 100 seeds; \$6.00 per 1000 seeds.  
**Scarfthalia Elegans**, 40 cts. per 100 seeds; \$2.50 per 1000 seeds.  
**Cyperus Alternifolius**, 25 cts. per pkt.; \$1.00 per oz.  
**Rhorizanth Tenax**, 25 cts. per 100 seeds; \$1.00 per 1000 seeds.  
**P. Penns. Variegata**, 50 cts. per 100 seeds; \$2.50 per 1000 seeds.  
**Alsophila A. Australis** (Trocen Fern), 50 cts. 1/2 oz.  
 Send for prices on Calla Lilies, August and September delivery. Send for Trade List of Novelties and Specialties for Autumn delivery.

**MRS THEODOSIA E. SHEPHERD**  
 Venture-by-the-Sea, Cal.  
 When Writing Mention Florists' Exchange

TO BUYERS OF NARCISSUS AND DAFFODILS FOR FORCING.

Do not place your orders for the above before writing for our Trade List which will be mailed free to wholesale buyers. Special through rates arranged with the American Bisc from **Guerens** to following American cities.  
 per ton of 4 cubic feet  
**Guerens to Phila.**.....\$6. Net per ton of 40 cubic ft.  
**Guerens to Boston**.....\$6. Net per ton of 40 cubic ft.  
**Guerens to Toronto**.....\$6. Net per ton of 40 cubic ft.  
**Guerens to Montreal**.....\$6. Net per ton of 40 cubic ft.  
**Guerens to St. Louis**.....\$6. Net per ton of 40 cubic ft.  
**Guerens to Wash. D.C.**.....\$6. Net per ton of 40 cubic ft.  
**Guerens to New York**.....\$6. Net per ton of 40 cubic ft.  
 Special Through Rates arranged to other parts by request. Best attention will be given to the packing of all goods to secure economy of space in transit.

**HUBERT & MAUGEY**, Sole Agents, **Guerens, Eng.**  
 When Writing Mention Florists' Exchange

THE JENNING'S STRAIN of Finest American Grass

PANSY SEED

NEW CROP. Ready June 15th.  
**E. B. JENNING'S**, Lock Box 52, Southport, Conn.  
 GROWER OF THE FINEST PANSIES.

When Writing Mention Florists' Exchange

SUMMER FLOWERING BULBS.

**GHAS. H. ALLIN**, Floral Park, N. Y.  
 When Writing Mention Florists' Exchange

ROEMER'S SUPERB PRIZE PANSIES.

The finest strain of Pansies in the World.  
 Introducer and Grower of all the leading Novelties  
 In best Award, International Exhibition  
 1898, BOSTON. Guaranteed free on application.  
**FRED. ROEMER**, Seed Grower,  
 Queudlinburg, Germany.  
 When Writing Mention Florists' Exchange

SEEDS for Profit Sweet Peas

Wholesale Catalogue on application.  
**WEBER & DOH**, Seed Merchants  
 114 Chambers St., New York City.  
 When Writing Mention Florists' Exchange

**BURPEE'S SEEDS**  
 PHILADELPHIA  
 WHOLESALE PRICE LIST FOR FLORISTS AND RETAIL GROWERS  
 When Writing Mention Florists' Exchange

BUY FROM THE GROWERS DIRECT

ALL BULBS AND PLANTS  
 For Summer and Fall Delivery, Quoted at Very Low Rates.  
 FREE ON BOARD CARS OR BOATS  
 NEW YORK CITY.  
**HULSEBOSCH BROS.**, Englewood, N. J.  
 When Writing Mention Florists' Exchange

**10,000 POTCROWN DAHLIA**  
 Plants (2 1/2 in. pots) in good variety, labeled true, \$2.00 per 100; \$25.00 per 1000.  
 If you need Dahlias, write us.  
**A. B. DAVIS & SON**, Purcellville, Va.  
 (NEAR WASHINGTON, D.C.)  
 When Writing Mention Florists' Exchange

Prize-Winning DAHLIAS

AN UNPRECEDENTED RECORD.  
 23 First Prizes, Certificate of Merit, 2 Diplomas, and highest mention everywhere.  
 If you want the Very best Dahlias that bloom, send for our 1897 descriptive trade list now ready. Address  
**W. P. PEACOCK**,  
 Dahlia Specialist, ATCO, N. J.  
 When Writing Mention Florists' Exchange

Valuable Paper.  
 Am well satisfied with results obtained on securing your valuable paper.  
**JOHN A. DOYLE**,  
 Springfield, Ohio, July 30, 1896.



PRIMULA FIMBRIATA

(Chinese Primrose).  
**Rubra** (R.), Alba (Wh.), Alba Magnifica, Rubra Violacea, Chalcid, Red, Melior, Village Maid, or Choice Mixed.  
 Trade Packages, 50c. and \$1.00.

CINERARIA

Hybrid Grandiflora choice mixed, Extra Fine Dwarf Mixed, Grandiflora Kermesina, Dbl. Flowering.  
 Trade Packages, 50c. and \$1.00.

CALECOLARIA

Hybrid Grandiflora, choice mixed.  
 Trade Packages, 50c. and \$1.00.

WM. ELLIOTT & SONS

NEW YORK.  
 When Writing Mention Florists' Exchange

PALM

Seed. FRESH ON HAND  
 Per 100 1000 5000  
**Kentia Helmsmann**..... \$1.25 \$10.00 \$27.50  
**Forsteriana**..... 1.00 7.50 21.00  
**Pandanus utilis**..... 1.50 12.50 35.00  
**Saguarum plumosum** mixed..... 1.50 12.50 35.00  
 All Chamberlapp, "Panic" and many other varieties now in stock.  
**J. L. SCHILLER**, Rutherford, N. J.  
 When Writing Mention Florists' Exchange

HEADQUARTERS FOR

Callas and Freesia Bulbs

**PAMPAS PLUMES**,  
 Palm, Callaria Tree and Flower Seeds.

Please let us book your orders for BULBS at once.  
 ASK FOR SPECIAL PRICES.

**GERMAN FRUIT CO.** Los Angeles, Cal.  
 When Writing Mention Florists' Exchange

FORGING BULBS

Special Import Price List Ready.

CANNAS

BURBANK - - 75c. ITALIA - - - 40c.  
 YEL. GAZDO - \$1.50 AUSTRIA - - - 20c.  
 All Standard and New at Market Price.

VAUGHAN'S SEED STORE,

NEW YORK, CHICAGO,  
 14 Barclay St. 84-86 Randolph St.  
 When Writing Mention Florists' Exchange

PRICES ON

BULBS, ROOTS, and DECORATIVE PLANTS,

For Fall Delivery, Now Ready. Send for Catalogue.  
**F. W. O. SCHMITZ**, JERSEY CITY, N. J.  
 When Writing Mention Florists' Exchange

PRIMULA SINENSIS SEED

The Wm. Scott strain (grown by Wm. Scott, Buffalo), includes: Our "GREAT SCOTT MIXTURE", from assortment of 10 varieties. Also 4 SEPARATE COLORS, Single White, Pink, Red and Double Red.

Sold only in sealed Trade Packets, at each, 60 cts. Liberal reductions on larger orders as per Free Priced Circular List, for which apply to Sales Agent.

**DAN'L B. LONG**, Jobbing Florist and Fruwery Agent, **Buffalo, N. Y.**  
 When Writing Mention Florists' Exchange

LOOK! LOOK! LOOK!

Up to June 15th only we book for June-July Delivery.  
**FREESIA REFRACTA ALBA.**

GOOD FLOWERING BULBS.

	100	1000	5000
3/8, 1/2 inch diameter.....	\$0.25	\$2.00	\$8.00
3/4, 1 inch diameter.....	.40	2.50	10.00
1, 1 1/2 inch diameter.....	.60	4.00	18.00
Mammoth, 3/4 inch and up.....	1.00	5.25	25.00

Prices include prepayment of Mail or Express Charges.

Extra Offer in Palm Seeds up to June 15th.

	100	1000	5000
Corypha australis.....	.40	\$3.00	\$15.00
Scarfthalia elegans.....	.60	3.50	15.00
Phoenix esquamatus.....	.40	2.25	10.00

Smallest size bulbs generate flowers.  
 1 1/4-1 1/2 inch diameter..... \$2.00 per 100; \$15.00 per 1000.  
 1-1 1/4 inch diameter..... 4.00 " " 35.00 "

PRICE INCLUDES DELIVERY. 5 Per Cent. Discount allowed on orders with Cash. Send for new Price List of Calla Longisthorum, and all other Callaria, Japan, French and Dutch import Bulbs for Summer and Fall delivery. Address

**H. H. BERGER & CO.**, San Francisco, Cal.  
 When Writing Mention Florists' Exchange

Printing of Any and Every Description.

In short, Job Printing—which term covers every variety and species of printed matter known, from the printer's proverbial "business card to a poster, book or newspaper." Here, again, we are at your service, and we can truthfully say that our facilities for this class of work are unsurpassed. To parties at a distance we would advise an estimate covering not less than \$5.00 to \$10.00 on account of express rates.

A. T. DELA MARE PTG. and PUB. CO., Ltd.  
 P. O. Box 1097, New York.

SEED TRADE REPORT

Points of information from seedsmen, as all interested in this column, collected. Advt. as Editor Seed Trade, care of Florists' Exchange, P. O. Box 1897, New York.

American Seed Trade Association.

The fifteenth annual meeting of this association was held in the Ebbitt House, Washington, June 8, 9 and 10.

The attendance. Among those present were representatives of the following firms: C. L. Allen, Floral Park, N. Y.; J. Bolzano, Baltimore; T. W. Bolzano, Washington; F. Buckbee, Rockford, Ill.; H. Earl, of W. Atlee Burpee, Philadelphia; E. E. Clark and H. A. Clark, Milford, Conn.; Mr. Willard, of Connecticut Ferre & Co., Westfield, Conn.; E. F. Fennell, Philadelphia; C. Crosby, New York City; Mr. Hefron, of Albert Dickinson Co., Chicago, Ill.; W. H. Green, Philadelphia; Messrs. N. A. Rodgers, of Illinois Seed Co., Chicago, Ill.; C. E. Kendall, Cleveland, O.; J. C. Ketchum, of Robert Layton's Sons, Columbus, O.; Mandeville & King, Rochester, N. Y.; L. M. May, St. Paul; Albert McCullough and J. Charles McCullough, Cincinnati, O.; Morrison & Westfall, Troy, N. Y.; Charles E. Fowley, St. Louis, Mo.; Jerome B. Rice, Cambridge, N. Y.; Otto Schwill, Memphis, Tenn.; Mr. George, of Sears & Harris, Co., Philadelphia, O.; T. W. Wood, Richmond, Va., and D. D. Woodruff, Orange, Conn., and Secretary, of Weber & Don.

Visitors at the open meeting were C. L. Allen, Floral Park; Gilbert H. Rice, Seed Investigator, Department of Agriculture, Washington; E. Harden, government purchasing agent, Washington; W. D. Burt, of S. W. Allen Co., Philadelphia.

Resolutions. The association presented the following resolution regarding tariff matters, which was forwarded to the Finance Committee of the Senate.

WHEREAS, The House of Representatives having passed the Tariff bill known as the Dingley Bill, in which the duty on flower seeds is placed at 40 per cent.

AND WHEREAS, The Senate Committee, in its various amendments to that bill, reduces the duty on garden seeds to 25 per cent, and placed seed of best, radish and spinach upon the free list.

RESOLVED, That the American Seed Trade Association, assembled in Washington this 8th day of June, 1897, put on record its protest against the passage of the report of the Senate Committee reducing the proposed duty on garden seeds as a serious blow to an agricultural industry of most advanced character, particularly seed raising, and that the same be pursued on \$5,000 a year, until a tariff is levied on seeds every day from cheap labor of Europe.

Resolved, That the Association put on record its claim for the protection of the lands, investments and labor of the seed-raising industry, and that a list, to be returned to the garden seeds to 40 per cent, best radish and spinach upon the free list, be made dutiable at 40 per cent. Also that the duty on radish and spinach flower seeds, and a duty of 30 per cent on the other bulbs, as provided in the Dingley Bill.

Also that peas and beans remain as provided for in the Dingley Bill, and that the duty on flower seeds take effect in June.

Directors of Officers. The following officers were elected for the ensuing year: President Jerome B. Rice, of Cambridge, N. Y.; Secretary, E. F. Fennell, of Philadelphia, Pa.; first vice-president, C. L. Allen, Milford, Conn.; second vice-president, J. Bolzano, Baltimore; secretary and treasurer, E. F. Willard, of Philadelphia, Pa.; assistant secretary, C. E. Kendall, of Cleveland, O.; Executive Committee, Messrs. N. A. Rodgers, of Chicago, Ill.; T. W. Wood, Richmond, Va.; S. F. Leonard, of Chicago, Ill.; J. C. Ketchum, of New York; Albert McCullough, Cincinnati, and W. Atlee Burpee, Philadelphia.

The meeting was a very successful one. On Thursday the members of the association inspected the seed-testing experiment being carried on by the Department of Agriculture, and were greatly interested in same.

Rochester, N. Y.—The case of Henry B. Hathaway, assignee of Crosman Bros., seedsmen, against Alexander M. Holden, Frank P. Jones and Edward F. Dibble, directors of the Edward F. Dibble Seed Co. in 1894, was argued in Supreme Court yesterday. After hearing the evidence for the plaintiff, Judge Dutwin granted the defendants' motion for a non-suit.

The defendant's motion went into effect on the 6th of the receiver July 23 last. No annual report was filed by its directors in 1896. The receiver and the plaintiff sought to hold them personally responsible for a \$240 bill because of the neglect.

European Notes.

The Weather. The conditions at present existing entirely belie the promise suggested by the mildness of the past winter, which led us to look forward with confidence to an early harvest. The continuance of cold, dry winds retards the development of both annuals and biennials at present we are nearly a month behind. As the harvest will be late, it is safe to assume that there will be sown with good weather, seeing that up to the present the supplies of that article have been meagre in the extreme.

Early Turnips. Early turnips will probably be an exception to the general rule, especially those growing on high lands in dry situations. A plentiful supply of moisture is absolutely essential for the development of the growing portion of the plants, without it the stems become woody, the sap ceases to rise, the plant dries up prematurely, and the limited quantity of seed that has been formed is thin and of very poor quality. The conditions at present existing in this country are such that good plump seeds in a pod we find only eight or ten, and fully one-third of these will often be empty.

Turnipage and some of the large field turnips develop more slowly, and it is not until late in the season that they start. Beets and mangolds love the dry weather when the nights are warm; at present they are lying low.

Good Supply of Peas. Peas have come up well, thanks to the splendid condition in which they were harvested last year. With a little rain it is probable that Europe will be able to furnish a liberal share of the requisite supplies. This is especially the case in England, where an extra large acreage has been sown in anticipation of a high price during the forthcoming jubilee festivities.

If, as seems probable, the supply should exceed the demand, the surplus will be left for seed, and as they have been sown on some of the most high quality of lands, the surplus spondingly large.

A Bean Year. This may fairly be termed the "bean year," rarely has the trade been so good. Even now an occasional order comes in for Windsor or Long-keeper, but the price for these is the first quite a drop in the market are rising in value every day. Vegetable growers in this country, the bush varieties, have also had a phenomenal sale.

Good Prices for Onions. Onion bulbs that in February could hardly be given away now command a very good price; this will doubtless cause a good demand for the variety which the farmers in Europe are ready, and this will in turn help up the price of the seed. As the acreage of these in all other kinds in Europe is so very much less than usual, we are not likely to see prices so ridiculously high as they were last season.

Market Seeds. No change of any importance has arisen in connection with market seeds, the prices of Lucerne, mustard and rape; the available stock of the former is in the hands of the farmers just now. Cold Effects Dutch Bulbs. Dutch bulbs, owing to the continued cold, do not appear to have recovered from the disaster which befell them on your side are more sanguine than their European confreres there will be a good go round.

EUROPEAN SEEDS.

50,000 CALIFORNIA VIOLETS Extra Strong. Amelopsis Velutina, strong, dormant, one doz. \$1.00. 50,000 CALIFORNIA VIOLETS, 50,000 doz. \$5.00. CANNA Austria, \$1.00 per doz. BENJAMIN CROSS, Flowering Gro. Va., When Writing Mention Florists' Exchange

GANNA Austria, Italia, John White, in four inch pots, 25 cents; three for 60 cents by express. Price list of seed free.

CLOCAS & BODDINGTON CO., Importers, Exporters and Growers' Agents of Plants, Seeds and Bulbs, 501 and 503 W. 13th St., Telephone Call, 403 18th St., NEW YORK CITY. When Writing Mention Florists' Exchange

SERPUS.

1000 CANNA ROBUSTA, from this, ready for sale \$1.00. 1000 CANNA ROBUSTA, in this \$1.00. 1000 CANNA ROBUSTA, in this \$1.00. 1000 CANNA ROBUSTA, in this \$1.00. 1000 CANNA ROBUSTA, in this \$1.00. T. C. AUSTIN & SONS, Suffield, Conn. When Writing Mention Florists' Exchange

QUEEN CHARLOTTE

ALPHEME BOUVIER, MME. CROZY, CHAS. HENDERSON, From 4 inch pots, at \$3.00 per 100. From 1/2 inch pots, at \$5.00 per 100.

VARECATED VINCAS.

THE ELIZABETH NURSERY COMPANY, Elizabeth, N. J. When Writing Mention Florists' Exchange

SPECIAL OFFER OF

VARIEGATED CANNAS

We offer the following fine varieties, as long as stock lasts, at prices annexed. These are well established plants in 3 and 4 inch pots.

Table listing various plant varieties and their prices per 100. Includes items like Antoine Riviere, Ami Fichon, Austria, Harrold de Polisy, Canale Bernardini, Col. Boddy, C. Chateau, Dent de St. Grey, Hortus, Explozator Crampell, Francois Billard, Gure Bismarck, Hortus, Ingelieur Alphonse, J. W. Elliott, Mme. H. Bignard, Mlle. Chateaux, Papi Lorenz, Papi Treve, Paul Siget, Progression, Princess Eugénie, Paul Braunt, Paolo Radach, Paul Siget, Senator Montefiore, Senatore, Scrodero, Vica-Fresca.

We offer 30 Distinct Varieties, all Correctly Labeled, for \$3.00.

HENRY A. DREER, 714 Chestnut St., Phila. WHEN WRITING MENTION THE FLORIST'S EXCHANGE

500 CANNAS

From 5 Inch Pots, at \$4.00 per 100. Florence Vaughan, Alphonse Bouvier, Jules Bouvier, Chas. Henderson, Steub. de Antoine Cr., Young Charlott. Columbia, Paul Pigeon, Fleming, 2500 or more would be directed. Cash with order. MAX E. KRAUS, 230 Davenport Ave., New Haven Conn. When Writing Mention Florists' Exchange

P. OUWERKERK,

1123 Summit Ave., Jersey City, N. J.

Just received from our Holland Nurseries: RHODODENDRONS, AZALEAS, SPIRÆA JAPONICA, LILIUM SPECIOSUM, PÆONIES, BLEEDING HEART, POT GROWN LILACS, HYDRANGEA IN SORTS. CLEMATIS and H. P. ROSES, to the best sort PRIORS MODERATE. When Writing Mention Florists' Exchange

Thanks. Yellow Marguerite all sold that are recorded. Write to HENRY NIERBERG, Goutznerstr. N. Y., Feb. 3, 1897.

QUEEN CHARLOTTE

ALPHEME BOUVIER, MME. CROZY, CHAS. HENDERSON, From 4 inch pots, at \$3.00 per 100. From 1/2 inch pots, at \$5.00 per 100.

VARECATED VINCAS.

THE ELIZABETH NURSERY COMPANY, Elizabeth, N. J. When Writing Mention Florists' Exchange

SPECIAL OFFER OF

VARIEGATED CANNAS

We offer the following fine varieties, as long as stock lasts, at prices annexed. These are well established plants in 3 and 4 inch pots.

Table listing various plant varieties and their prices per 100. Includes items like Antoine Riviere, Ami Fichon, Austria, Harrold de Polisy, Canale Bernardini, Col. Boddy, C. Chateau, Dent de St. Grey, Hortus, Explozator Crampell, Francois Billard, Gure Bismarck, Hortus, Ingelieur Alphonse, J. W. Elliott, Mme. H. Bignard, Mlle. Chateaux, Papi Lorenz, Papi Treve, Paul Siget, Progression, Princess Eugénie, Paul Braunt, Paolo Radach, Paul Siget, Senator Montefiore, Senatore, Scrodero, Vica-Fresca.

We offer 30 Distinct Varieties, all Correctly Labeled, for \$3.00.

HENRY A. DREER, 714 Chestnut St., Phila. WHEN WRITING MENTION THE FLORIST'S EXCHANGE

**CARNATIONS** Rooted cuttings of the following to discount. Silver Sprays, White Queen, Rose Queen, Perla, Lizzie McGowan, Royal Wave and Torino. Cuttings, \$1.25 per 100; \$1.00 per 1000.

**VIOLETS** Fine runners of Lida Campbell and Callierais, 80c. per 100; \$8.00 per 1000. Also Swainsona alba, rooted cuttings, \$1.00 per 100; \$10.00 per 1000.

**JOSEPH RENARD, Unionville, Chester Pa.**  
When Writing Mention Florists' Exchange

**A MISTAKE,**  
to delay your orders for  
**MINNIE COOK,**

Price should be \$3.00 per 100; \$25.00 per 1000.  
**MEADOW VIEW GREENHOUSES,**  
PARISFANY, N. Y.

When Writing Mention Florists' Exchange

**Carnations, Etc.**  
HIGH GRADE ROOTED CUTTINGS.

Write for price list.  
**H. WEBER & SONS,**  
P. O. Box 67, OAKLAND, Md.

When Writing Mention Florists' Exchange

**MORELLO**  
The New Scarlet.

From soil.  
**HOPP & LEMKE,** East Grand Rapids, Mich.

When Writing Mention Florists' Exchange

**GALLERT & CO.**  
**CARNATION GROWERS**

COLMA, SAN MATEO CAL.  
When Writing Mention Florists' Exchange

**DAZZLE**  
The brightest and most productive scarlet carnation yet introduced.

Strong plants, \$1.00 per 100; \$10.00 per 1000.  
Rooted cuttings, \$1.00 per 100; \$10.00 per 1000.  
Send for complete list of 100,000 carnation plants and rooted cuttings in 20 varieties. List for immediate shipment.

**GEO. HANCOCK & SON, Grand Haven, Mich.**  
When Writing Mention Florists' Exchange

**Harrison's White CARNATION.**

New Carnation, sport from Wm. Scott.  
**JOHN HARRISON,**  
739 Bergen Ave., Jersey City, N. J.

When Writing Mention Florists' Exchange

**HEAR'S CARNATIONS.**

Alaska and Cartridge, \$7.00 per 100; \$70.00 per 1000.  
Bridesmaid and Dornier, 10.00 125.  
Abundance, 20.00 250.  
Triumph and Armandy, 30.00 350.  
Jubilant, 40.00 400.  
SMILAX, 5.00 1.00

Cash with the order. Everything guaranteed; if not satisfactory you can return it as my expense and have your money refunded.

**ALBERT M. HEAR, L. B. 496, Lancaster, Pa.**  
When Writing Mention Florists' Exchange

**CARNATIONS**—Rooted cuttings all sold except Wm. Scott, Torino, Callierais, Opelia and Rose Queen, \$1.00 per 100; \$8.00 per 1000.

**CHRYSANTHEMUMS**

**HYDRANGEA OTAKAS,** one plants from pots, \$3.00 per 100. Cash with order, please.  
**JOHN HACKETT & CO 62d St., near Elmwood Ave., PHILADELPHIA, PA.**

When Writing Mention Florists' Exchange

**CHRYSANTHEMUMS**

The following commercial varieties, in strong plants, 2 1/2 inch pots, \$1.00 per 100; \$10.00 per 1000, order as follows:  
White—Mae, J. Bergmann, Mrs. H. Robinson, Pink—Gloria, The Pacific, Pink Ivory, T. Morel, Wm. Simpson, Miss F. Perle, Naad Heine.

Yellow—H. L. Sunderbush, Yellow Queen, Glop. (strong), Yellow Beauty, The Pacific, Yellow Queen, Mrs. F. H. Hestner, Golden Wedding.

Yellow Beauty, 75c. per dozen; \$5.00 per 100.  
**F. R. QUHAR VIOLETS,** from 2 1/2 inch pots, 50c. per dozen; \$5.00 per 100.

CASH WITH ORDER.  
**THEO. F. BECKERT,**  
Neville Bldg., 1000 Pine Ave., Pittsburg, Pa. GLENFIELD, Pa.

When Writing Mention Florists' Exchange

**CHRYSANTHEMUMS and VINCA VINES.**  
VERY FINE PLANTS, FOR CASH.

Ivory, from soil, very fine, \$2.00 per 100  
Vince, ver., 4 in. pots, \$1.00 per 100  
1 1/2 in. pots, \$1.00 per 100

**JOSEPH F. SMITH, BURLINGTON, N. J.**  
When Writing Mention Florists' Exchange

**CHRYSANTHEMUMS,**

Best standard commercial varieties, from pots. Mrs. Bergmann, Marie Louise, Philadelphia, Mrs. Hestner, The Pacific, Wm. Simpson, E. D. Halliwell, L. Bohmer, Novara, The Queen, H. Hestner, W. H. Lambert, very fine, \$1.00 per 100. G. Childs, Golden Wedding, Ida Fraze, M. Henderson, \$4.00 per 100.

**JOHN C. EISEL,**  
20th & Ontario Sts., PHILADELPHIA, Pa.

When Writing Mention Florists' Exchange

**CHRYSANTHEMUMS**  
Rooted Cuttings, \$2.00 per 100. 2 1/2 inch plants, \$5.00 per 100 of the following varieties:

Bergmann, Marquis de Montmore, Mispere, Wm. Henderson, Wm. Simpson, Mrs. H. Robinson, Marie Louise, Philadelphia, Queen, Vivian, Excelsior, Massachusetts, Golden Bonanza, Mrs. C. Lippincott, Vivian-Maud, Maud Dean, and Irmadina.

Hydrangea Otakas, 2 1/2 in. pots, \$5.00 per 100.  
Smilax from soil, \$2.00 per 100; \$18.00 per 1000.

**SAM'L J. BUNTING,**  
Elmwood Ave. and 58th St., PHILADELPHIA

When Writing Mention Florists' Exchange

**CHRYSANTHEMUMS**  
In Endless Variety.

Best Varieties in Quantity at Moderate Prices.

**NATHAN SMITH & SON, Adrian, Mich.**  
When Writing Mention Florists' Exchange

**CHRYSANTHEMUMS**  
ROOTED CUTTINGS READY JUNE 20

From Specially Grown Stock.  
Glory of the Pacific, Lida Fitzwygram, Marquis de Montmore, Marion Henderson, \$2.00 per 100.

Yellow Queen, Mrs. S. T. Murdoch, Mrs. H. Robinson, Mrs. Jerome Jones, Miss M. Wauke, Ivory, Wm. Simpson, Maud Dean and Philadelphia, \$1.00 per 100.

**JOHN LANG, Chicago, Ills.,**  
Corner Melrose and Robey Sts.

When Writing Mention Florists' Exchange

A CHANGE of air is often as necessary as a change of food or change of diet, and for the same reason—to keep trade and body healthy.

ABOVE ALL, have your advertisements reasonable. To be reasonable they must be changed often.

**CARNATIONS.**

*Nitrate of Soda.*

A correspondent of the State of Georgia asks me what effect a weak solution of nitrate of soda would have on carnations when syringed overhead. The house is shaded and the plants are healthy and doing well.

I have never used nitrate in this way and therefore can't tell just what the results would be. However, I do not think the effect would be injurious if the solution is not made too strong. That is about the most I can say in favor of applying nitrate in this way.

Not only is the principle of applying it in this manner quite wrong, but a large portion of it must necessarily evaporate, and, therefore, become wasted. A better way would be to apply the solution directly to the soil.

The correct principle of applying water or stimulants lies in a thorough saturating of the soil. This I can assure you from this method we may rest assured that we are moving backward instead of forward. In applying water or stimulants we must bear in mind that unless all the roots of a plant can assist in taking the nourishment from the soil, perfect development is impossible. Viewing the matter in this light, the impracticability of obtaining the best results by this method is apparent.

During the summer months the carnation can stand light syringings and be watered by the roots. It is also injurious to the plants. If we could always keep the atmosphere in just the proper condition, the plants would never need a drop of water. But since this is quite beyond our reach, in the growing season we must resort to light syringings to help offset the dry, parched atmosphere of the greenhouse. This, however, is not a moisture-loving plant and we must treat it accordingly.

It would be wise to consider to use good liquid manure, the making of which has been described many times before in the columns of the Exchange. I do not advocate the use of highly-concentrated fertilizers, as their use never be attended by the best results unless handled by a person who knows exactly the nature of the stuff being applied. It is better to use plants actually need or can stand. Those who are so situated as to make it difficult or impracticable to obtain

liquid manure in the ordinary way will have to resort to other means, and much greater care will have to be exercised in the making and using of it.

Nitrate of soda, in its pure form and cannot be especially recommended as being a properly balanced fertilizer. It is not a fertilizer in its pure form and cannot be especially recommended to give the carnation a well-balanced manure. In fact, its pure stable manure does not contain enough in proportion to the nitrogen present, much of the nitrogen being in the form of unleached wood ashes is much the best; in the absence of this a little muriate of potash, or a little sulphuric acid are the other two ingredients, and should be present in about half the strength of the potash. The latter gives structure to the plant and color to the foliage and flower; for this reason the plant requires more of it than any other ingredient. Nitrogen makes foliage and keeps the plant growing; it is present in abundance in liquid from stable manure. Phosphoric acid is the main factor in producing flowers large, firm, thrifty plants which are not crowded for room, and which produce but a scant supply of flowers can stand in their non-blooming to a lack of this item. Stable manure does not contain it in sufficient quantity to be of any benefit in this way.

This can best be done in preparing the soil for the carnation. It is best intended for use in the greenhouse for the following year. A good, liberal amount of phosphate is recommended with the soil about six or eight weeks before the soil is to be used will be most beneficial. Phosphate is one of the principal reasons why our carnations bloom profusely during summer months. H. WEBER.

**Cincinnati.**  
**Trade Correspondence Good.**

Very little news regarding cut flowers to report, except that in comparing with other lines of business we should not complain; the market remains unchanged; Brides and Maids, 2 cents to 3 cents; Meteor, 3 cents to 4 cents; Perles, 5 cents to 6 cents; Perles, 2 cents. Carnations, 50 cents to 1 1/2 per 100, and fairly good stock of plants to suit all tastes. We have a decorative and funeral work, which helped bring up the weekly average, while transient sales boys and florists who attend school commencements are now making themselves felt and will help sales for the coming week.

Marie & George are still cutting some handsome lily of the valley, which would sell well.  
Pansies sell at 2 cents to 3 cents; sweet peas are an over-stock and 25 cents to 50 cent limit.  
The growers in the market were complaining of dull trade Saturday.

**Trade News.**  
Tom Fitzmorris, salesman for Julius Rehr, picked up on the street a Big Four calling card, which he returned same to owners and received \$1.

Superintendent Warder is having his hands full driving tramps out of the parks and keeping vandals from stealing the flowers.  
William Murphy is now turning his attention to his strawberries. He expects to pick at least one more bush; they are now retailing in his store at 5 cents per quart.  
Milton Kennerly, of Excelsior Station, was called last week. George Johnston, the 265-pound tin-fall man, from St. Louis, is here.  
Our Writing Committee is having a hard time deciding on a location this year, but we will finally settle on Philadelphia for July 23.

R. A. Murphy was tackled by a couple of "ignominious" conductors and returned home from market last Wednesday. They allowed Robert to take the flowers home with him when he attempted to reach his wagon to drive on they held him up and took back his money. F. M. McGowan, Miss Albertini, Meteor, Peachbloss, Rose Queen, Silver Spray, Wm. Scott, Uncle John.

E. P. Critchell has been enjoying the busy box for the last ten days.  
George S. Bartlett starts on a bicycle tour through the country, leaving the Exchange and taking their orders for bone drier. E. G. GILLETT.

**EDW. J. TAYLOR,**  
Wholesale

**Carnation Grower,**  
SOUTHPORT, CONN.

When Writing Mention Florists' Exchange

**CARNATIONS**

**F. DORNER & SONS CO.,**  
La Fayette, Ind.

When Writing Mention Florists' Exchange

**Carnation Cuttings**

Strong and well rooted, of the following varieties: Jubilee, Triumph, Armandy, Alaska, Excelsior, Debut, Meteor, Lida McGowan, Mme. Albertini, Meteor, Peachbloss, Rose Queen, Silver Spray, Wm. Scott, Uncle John.

**PRIMULAS,** 2 1/2 inch, \$2.00 per 100.  
Send for list and prices on large lots.  
**Legan Ave. Greenhouses, Danville, Ill.**

When Writing Mention Florists' Exchange

Flushing L. I.

At the extensive range of the John Henderson Co., George W. Hillman, manager, a hurried look through the houses revealed active operations in progress for the coming fall and winter. Bridesmaid and Bride are grown to the exclusion of nearly all other varieties, these three, with American Beauty, being, in Mr. Hillman's opinion, the best four commercial kinds available. Several houses of whom we have just been talking, while Bridesmaid, from two to four years old, on the benches, was being put in shape to be again carried over the ensuing season. Bridesmaid plants seven years old were quoted by Mr. Hillman as having in one establishment yielded more prolific returns last winter than any of the preceding seasons; in other words, by careful pruning and attention, plants of this favorite, it would appear, can be profitably carried on the benches without removal, as yet an undetermined number of seasons.

Mr. A. C. Thorne, Colden Street, corner Hillside Avenue, had erectd by Hitchings & Co., of New York, six iron houses, three-quarter span, which, in their details of construction, embrace the most modern ideas of these celebrated builders. The structure embraces 900 feet of running glass, twenty feet wide. The first two houses are to the right and to the left the shed between them and stand some distance apart, one from the other, while the last two houses (practically one) run the entire width of the range, 316 feet. In the details of the construction in this range, we noticed the use of continuous rafters from the ridge pole to the ground, and the side sash 3 1/2 inches out of plumb to carry off the drip of rain or snow; the glass used is placed in the upward curve, in the center on the outside, and to impart much additional strength and to greatly lessen danger from hail. Hitchings' water table has two No. 19's and two 57's, which do the heating very easily. Bridesmaid and Meteor, in equal quantities, are being grown. Mr. Williams, formerly foreman for Mr. Hillman, is in charge.

Grand Rapids, Mich.

Club Meeting. At the Florists' Club meeting, held here, there was a discussion on "Prospects of Spring Trade." There is a plentiful supply of bedding stock in this vicinity and a good demand is expected as soon as the weather will permit. The Committee on Chrysantheum reports that the best exhibitions under consideration, but asked further time to decide definitely. Mrs. Emma & Cunningham exhibited carnations. The club will not meet again till September.

Business Changes. William Cunningham, of the Grand Rapids Floral Co., has withdrawn his partnership in that concern, and bought the stock of Schmidt Bros., also retiring his greenhouses.

Michigan, N. J. A. V. D. Snyder is erecting a seed and fertilizer warehouse near his greenhouse on the Paterson road.

A Potent Factor. THE FLORISTS' EXCHANGE is the most potent factor in the floriculture of the country. W. H. DUBVEA, 1000 Broadway, New York. Mattuck, L. J., June 8, '97.

FOR SALE . . .

Bride and Bridesmaid Roses, in 2 and 2 1/2 in. pots, at \$2.00 per 100, or Will Exchange for La France, Hermosa, Can Jeany, or any other variety.

RUTTLE BROS., Covington, Ky. When Writing Mention Florists' Exchange

SURPLUS STOCK OF ROSES

BRIDE, BRIDESMAID, PERLE. 2 1/2 and 3 inch pots, \$5.00 to \$1.00 per 100.

E. VOLMER,

80 Pallade Ave., West Hoboken, N. J. When Writing Mention Florists' Exchange

Large Two Year Old Roses

In 150 varieties. Fine plants from 4 inch pots, \$5.00 PER 100; \$45.00 PER 1000.

THE C. A. REESER CO., 17th and 10th Sts., New York. When Writing Mention Florists' Exchange

ROSES.

Strong 2 1/2 inch plants in splendid shape. Yellow Hamamel Aglala, \$1.00 per doz; \$8.00 per 100. Climbing Wootton, 75 cts. per doz; \$8.00 per 100. Cash with order.

JOHN A. DOYLE, - Springfield, Ohio. When Writing Mention Florists' Exchange

JACKSON & PERKINS CO., NEWARK, N. J. Will have to offer for season of 1897-'98, a choice assortment of

Field Garden Roses, new and old varieties, Climatic, Ornamental Shrubs, and Trees, Fruit Trees and Small Fruit Plants.

Price List ready in July. Write for it. When Writing Mention Florists' Exchange

LOOK HERE

The following plants are in all condition. ROSES, cut off 2 1/2 pots, Bridesmaid and Bride, \$1.00 per 100; Meteor, \$1.00 per 100; \$25.00 per 1000. American Beauty, 2 1/2 inch pots, \$5.00 per 100. \*Minor prices on application. Marble Leader roses, noted numbers, 50c. per 100; \$5.00 per 1000. Terms Cash or C. O. D.

C. MERKEL & SON, Mentor, Ohio. When Writing Mention Florists' Exchange

ROSES, GERANIUMS, COLEUS.

Carnations all planted out and sold; will have first stock of field plants in the Fall. Strong 3 inch plants of Bride and Bridesmaid Roses, ready to plant, \$1.00 per 100. Geraniums - 1 in. pots, \$2.00 per 100; 3 in. pots, \$1.00 per 100. Alternanthera, red and yellow, 2 1/2 in. pots, \$2.00 per 100. Coleus, no nearly new, Variegated and solid colors, 2 1/2 in. pots, \$2.00 per 100. Cash or satisfactory returns.

CEO. M. EMMANS Newton, N. J. When Writing Mention Florists' Exchange

Fine Healthy Stock of Brides, 'Maids, . . .

Perles, Meteors, From 2 1/2 inch pots, ready for shifting, \$4.00 per hundred.

JOHN HENDERSON CO., Flushing, N. Y. When Writing Mention Florists' Exchange

Sterling American Novelty, the WHITE COCHET

Is a sport from Maman Cochet, which is considered one of the best pink cut-out-of-white roses. It has all the good qualities of its parent; its color is pure white in bright sun, and it is very hardy in winter. In summer, and no doubt it will prove the best white cut-out-of-rose up to date.

Price, per dozen, from 3 inch, \$4.00. 100, 3, \$40.00. All Orders Must be Accompanied with Cash.

J. COOK, 318 CHARLES Baltimore, Md. When Writing Mention Florists' Exchange

ROSES.

Fine Roses from 2 1/2 inch Pots. Per 100 Per 1000 Bride..... \$3.00 \$25.00 Bridesmaid..... 3.00 25.00 Mermet..... 3.00 25.00 Meteor..... 3.00 25.00 Mme. Hoste..... 3.00 25.00

TERMS: Cash with order.

CHAS. E. SMITH, Cur. Jefferson and Jackson Aves., YORK, PA. When Writing Mention Florists' Exchange

ROSES

Strong, Healthy Stock. BRIDE and BRIDESMAID. 3 1/2 inch pots, \$4.00 per 100; \$35.00 per 1000. 2 1/2 " " \$2.50 " \$20.00

LANDIS & CO., Lancaster, Pa. When Writing Mention Florists' Exchange

ROSES

Carefully grown Facing Stock, 2 1/2 inch, Strong. Per 100 Per 1000 Meteor..... \$3.00 \$25.00 W. La France..... 3.00 25.00 The Bride..... 3.00 25.00 Perle des Jardins..... 4.00 35.00

ADHILLE, the pearl, only true pink. SWAINSONA SPLENDENS, only true pink. \$1.00 per 100. Cash, or first-class bank references must accompany all orders.

J. B. HEISS, 116 So. Main St., Dayton, O. When Writing Mention Florists' Exchange

ROSES

American Beauty 4 in. pots, \$10.00 per 100 Irish Bruener 3 " " 30.00 " 100 Magna Charia 3 " " 30.00 " 100 Jacqu 3 " " 30.00 " 100 Fine Large Ferns 2 1/2 " 25.00 " 100 California and Lady Campbell Violets 8 00 " 100

All these plants are large and healthy; have been grown for our own use, but we have a few thousand to spare.

W. W. HARRIS, a specialty. THE LA ROCHE & STAL FLOWER CO., Ltd. Collingdale, Del. Co., Pa. When Writing Mention Florists' Exchange

40,000 FIRST QUALITY FORCING ROSES

Ready for Immediate Planting. Fully equal to those sent out the last four years, first-class and perfectly healthy in every respect. Only selected growth from flower sprigs shoots used in propagating.

WOOTTON, LA FRANCE, AMERICAN BEAUTY, BELLE STRECHT, 1 inch pots, \$1.00 per 100.

METEOR, KAISERIN A. V., SNEET, HIS SILENCE, MERMET, PERLE, NEW YORK, BRIDE, BRIDESMAID, SARRANO. 3 inch pots, \$7.00 per 100. 1 inch pots, \$10.00 per 100.

Mention this paper. J. L. DILLON, Bloomsburg, Pa.

PHILADELPHIA ROSES

Strictly first-class, clean stock, in 3 inch pots. . . . Beauty, Meteor, Bride, Bridesmaid . . .

MYERS & SAMTAN, Wyndmore, Chestnut Hill, Phila., Pa. When Writing Mention Florists' Exchange

50,000 BRIDE AND BRIDESMAID! 50,000 Extra Fine.

From 2 1/2 inch pots..... \$2.00 per 100; \$30.00 per 1000. From 2 1/2 inch pots..... \$4.00 per 100; \$35.00 per 1000. Fine large 3 1/2 inch GERANIUMS, ready for 4 inch pots, \$5.00 per 100. Largest amount of GARDEN STRIPES, 2 1/2 inch pots, \$2.00 per 100. CUT SMILAX, 12 cents per string.

TERMS CASH. THE NATIONAL PLANT CO., Dayton, Ohio. When Writing Mention Florists' Exchange

RENBREW BROS.

Strong, Healthy ROSES From 2 1/2 in. pots. Golden Gate, Perle, Belle Strecht, Meteor, Bride, Bridesmaid, Kaiserin, La France, Teuton, \$5.00 per 100; \$30.00 per 1000. No orders for less than 100 of one variety unless otherwise specified. Special prices on large lots. Remember our stock took First Prize at the Chicago Flower Show.

CARNATIONS.

Storm King, Lizzie Gilbert, Rose Queen, Wm. Scott and Lizzie McQuinn, \$1.00 per 100. Also Meteor, out of stock, but in good condition. No orders for less than 100 of any variety accepted. Special prices on large lots. The above stock is well rooted and free from rust.

SMILAX 2 1/2 inch pots, \$1.50 per 100. 51 WABASH AVENUE, CHICAGO, ILLS. When Writing Mention Florists' Exchange

The Vicissitudes and Trials of the Seed Trade.

From a paper read by G. L. Allen, Floral Park, N. Y., before the Florists' Exchange Association, at Washington, D. C., June 9, 1897.

The growing of seeds and the selling of them are two of the industries between which there ever has been and ever will be an irrepressible conflict; the one wants to raise and to sell as cheaply as he can, consistent with a first-class article. While the two trades are merged into one the conflict becomes doubly great, because the factor of the power--on the one hand, is to sell cheap, to secure the wholesale trade, and, on the other, he is anxious for the largest retail prices, which, trying to ride two horses in opposite directions, at the same time.

In the selling of seeds there are two distinct classes of dealers--the wholesaler and the retailer. United there are two separate interests, all of which we see here, in friendly battle array. We see here also the three in one, and the conflicting interests. If the grower can avoid himself of the retailer's profits, as he frequently does, no matter how. But if he expects to supply the wholesaler he must not offer the retailer his stocks at the same price as he offers to the consumer seeds at any less figure than the responsible retailer would do, for the largest retail prices, which the grower is eager and uncompromising.

The seed trade is as aggressive as any other here; it is not a passive one. In seemingly large, under ordinary circumstances, they are not in reality so; while the retailer is, when, as a necessity, the grower should protect him, so far as is not offering to him, the price for the same article to him. He had results from this practice are more serious than generally supposed. It is not a matter of loss of profit, on the part of the trade, as it is in the loss of quality in the seeds at the same price. It does not know the intrinsic value of the seeds, as well as the seedsmen for whom he is growing, and as he is not a grower becomes a seedsmen he begins to seek large crops instead of choice ones, in order to make room for the large prices invariably lead to low quality; they are cause and effect. If the grower or dealer does not offer a less price than a good article can be produced, the inference is that, like all the cheap goods we see every where, come down with the price. This may not necessarily be so, but it is a very strong case of circumstantial evidence. To the conservative mind bargain offers scattered broadcast over the land are not only perilous but detract from the dignity of the seed trade, which has ever been one of its distinguishing features.

The greatest peril to the seed trade comes from the man who wants to do more than a good article in the three branches of the industry. He is not unlike some of our modern statesmen, who are only too ready to follow what they want it coined. His conflict is the most bitter of all, because each of his business interests is weak. If he is a grower--he is fighting himself. He is a financial "felo de se;" at the same time he is fighting himself with the retailer. In the lottery of trade. The conflict of trade, the competition which is everywhere in the various articles of the seed trade, the cause of low prices--it is the parent of over-production, and, as prices are low, the supply is great, the demand, over-production means low prices, and competition means low quality of the article.

Go into any or every seed house in the country and inquire about trade. You will find the price of seed is not enough--more than ever before--but there is no money in it; prices are so low that no expert grower can get a margin of profit is very, very narrow indeed." All admit this; all regret it; all desire to get rid of it. "What is to do? And there is no answer. But there is one thing as certain as the rising and falling of the tide, and that is, that seeds will not get a higher price for his stocks until he asks for it. Constantly in the seed trade, the grower, as over-production, or as a means to an end--the end being the building up of the seed trade, and a means to a prosperous business; it is tearing down rather than building up. The question is, how to hold on, how shall, or how can, we make our bus-

ness more profitable? The first step taken by business men of all denominations, in times of business depression, is to reduce expenses, which is done by cutting off all useless expenditures, by reducing the number of employes, and by lessening the wages of those employed. The seed trade is doing this very generally, and having done this the next thought is, How can we get better prices? The best and shortest way to advance prices, however, is to sell. And this is not so difficult a matter as is generally supposed.

But where shall we commence; or rather, how shall we commence? We answer by saying imitate the methods pursued by all other tradesmen; separate the conflicting interests, so that each may be governed by the laws adapted to its necessities. As we have before said, there are three distinct sections in all trades--the producer, the wholesaler and the retail dealer. While their interests are mutual, so far as the advancement of business is concerned, the one very naturally conflicts with the other; and herein lies the difficulty of conducting the three in one. The grower's business is, or should be, ex-

cept, and could not find a sale for it, consequently they must find new customers or be ruined. This is one of the perils of the seed trade.

The grower is not always wholly at fault, in this matter, particularly where the jobber has an unbounded zeal to do it all, and is not a seedsmen in the comprehensive sense of the term, goes direct to the farmers and places his contracts, in order to be able to offer better inducements than his competitor. Unfortunately, this practice is limited to but few houses, and they have not found it so profitable as expected.

Many in the retail trade have come to the conclusion that the wholesale department of their business is not a paying one, and, in fact, is a loss. When competition has brought down prices below a living profit, as it must do here, the expense attending it is as great as it is in all large cities. More than that, the wholesale department weakens the retail by bringing down prices, as many seeds are sold at a discount that would not need to be if there were no wholesale department.

There is no disputing the fact that the wholesaler finds it very easy to

others, but they have a clientele which stands by them--the vicissitudes of trade, to the benefit of the grower.

Sutton & Co., of Reading, England, have one of the best regulated seed houses in the world. Their business has been a retail establishment, and its success has been due to the fact that they choose only the best seed to sell. Like Veitch, of London, they have given to the trade dignity and character by their seed being the best. Asparagus, and their trade is held intact simply because they deserve it. It is no wonder that the grower has built up a reputation for the best quality that is the seedsmen's talisman. It is no wonder that the grower has built up the one who sells the highest, because of reliability, that wins the prize in every kind of business. But what has caused the present depression? has to be asked. Overproduction, we think, one of the main troubles; but there are others. Young America in the seed trade has proved a serious element to prosperity. He rushed headlong into things; after securing a nucleus of trade he grew ten times more than he needed, and he became hopelessly overstocked and goes to E with his surplus after filling A's orders, offering some of the latter's money to buy. To sell cheap--very cheap--his object is to sell. If successful he goes in deeper the next year, and goes on until he goes under. Fortunate is the wholesaler if he is not carried under with him.

One of our old-fashioned plain planters bitterly of dull trade. But trade has not been dull. Profits have been small, but there has been some good seed. More vegetable seeds have been sold and planted than the present year. There is a very important fact bearing on this question that has quite generally been overlooked; it is the fact that the seedsmen ten times more engaged in the seed business than were ten years ago. Every little town has its seedsmen, many of whom are visited often by the traveling salesman, and if but a pond of any given variety is required, he will usually be found coming by mail. While many of the old houses say truly trade has fallen since we last saw it, truly business has not fallen off; but it is being done through more hands; there are just as many seeds sold in a month as at the same time are more men selling them.

We noticed a new phase in the seed trade this season. A grower, who was very anxious some in the trade are to extend their business. On going through the street in a village a few miles from New York, I was accosted by a man--a florist in a small way--whom I had not seen for twenty years, and found him a full-fledged seedsmen. His place was conspicuous for its large, high-colored snow cards of a well-known firm. Upon inquiring as to the state of trade he replied, "It is very good; we have done well this season, and this spring and do not run any risk. We sell on commission and our instructions are not to let any one undersell us."

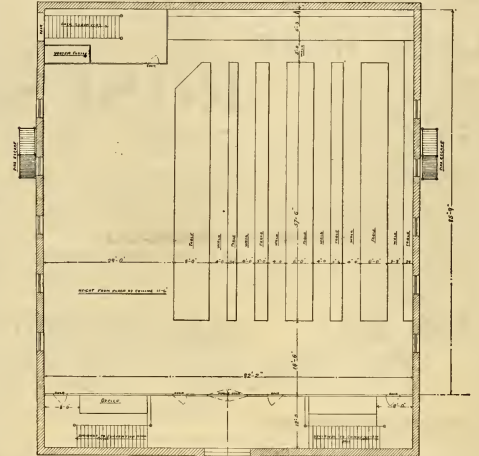
This man said considerably more that will not repeat, but it is quite a question whether the firm that furnished the signs and the seeds, after the manner of the great growers, did not find they have built up a trade for some one else.

It is a very clearly known as the mail trade has suffered badly the past two years from the general business depression. But there has been some depression in all agricultural industries. The farmers' wives have not had the same good fortune. They have not the beautiful, therefore the trade in plants and flower seeds has been very light. Those who do not buy plants, but who have not bought vegetable seeds, but have planted such as they saved over from the past season, at the seed almshouse at Washington.

Catalogues and Advertisements.

The new catalogues of trade comes from the methods employed in building it up. Superstructures of enormous size have been built up on weak foundations--sads, that would put the literature of our country to shame. They are wonderful in description than the thousand and one tales of the oriental tale.

There is a vast amount of the sensational in the craft--men who bait for the crowd, and who have no other outlook for novelties, the merits of which are of but little importance. They are not so successful in the trade as they would be if they were reduced cheaply, and will sell it." There



clusively with the wholesale dealer, as has the spirit of trade; they are not only making from ten to fifteen per cent. on their sales, those for whom they grow are making from fifty to one hundred per cent. gross profits; their palms itch for a share of these supposed great profits. They do not count the cost of selling or the loss arising from failures, and from kept-over stocks; and they embark in trade, at first slowly, and then more and more, and not infrequently at less prices than they had contracted for prior to their regular customers. This is because, when they had taken a contract to grow a thousand pounds, or a thousand bushels, they had grown double the quantities, with the wholesaler's profit in

shade prices, rather than miss a sale, which would be a loss to him. He swims. The city merchant cannot do it and compete with the country dealer, whose expenses are not half as great. On the other hand, the retail dealer has every inducement to keep up prices; he simply fixes them and maintains them. His reputation once established, the question of price is rarely raised. When the market gardeners and seedsmen's best friend, because of the quality he buys, makes price a secondary consideration, quality must be every time and the price will not be questioned.

The private gardener and the florist invariably run away from low prices; they know the best is none too good, and that it costs more, and they are anxious to pay the price, rather than incur a risk because of cheapness. We find almost everywhere that success attends the retail dealers. Of course, it is to be understood we mean those who do not and will not allow themselves to be overthrown. There is an anxiety to pay the price, rather than incur a risk because of cheapness. We find almost everywhere that success attends the retail dealers. Of course, it is to be understood we mean those who do not and will not allow themselves to be overthrown. There is an anxiety to pay the price, rather than incur a risk because of cheapness. We find almost everywhere that success attends the retail dealers. Of course, it is to be understood we mean those who do not and will not allow themselves to be overthrown. There is an anxiety to pay the price, rather than incur a risk because of cheapness.

is so much said in these ads. that is not true that truth itself is not recognized; and honest advertisers are suffering for the sins of a few who are not. The results of these misleading ads. have been that many of the many and many purchasers, have become disgusted with all ads. and do not read any of the advertisements.

The so-called Free Seed Distribution is a peril to the seed trade, but there is one thing that is sure. The Free Seed Distribution is a great evil. The Free Seed Distribution is a great evil. The Free Seed Distribution is a great evil.

Those seeds were retained at less than one-fifth of the regular retail rates, as they might, when bought at five dollars per thousand packets.

Of course, the dealer who supplies these flowers makes more money, but how is the retailer affected? While one seedman makes money by the operation, the retailers are great losers. The same rule applies here, as with the government seed store, the man that makes the money has the same plea: "Am I my brother's keeper?"

**S. A. F. Convention.**

William E. Chappell, of Providence, R. I., has been appointed superintendent and manager of the trade exhibit has completed the planning of the exhibit and the site of the exhibit is a considerable portion of the space. The present indications are that the display will be one of the best ever held. The accompanying plan will afford an excellent idea of the proposed layout of the hall.

Music Hall, wherein the exhibition is to be held, is one of the largest and most commodious halls in the city. The purpose proposed, and has many special advantages over other halls that led to its selection. It is centrally located on the south side of Westminster Street, the principal business street of the city. It is centrally located on the south side of Westminster Street, the principal business street of the city. It is centrally located on the south side of Westminster Street, the principal business street of the city.

Entrance to the hall is by a broad stairway of easy ascent into a wide lobby, from which four large doors open directly into the spacious hall. This is practically square, well lighted and provided with ample fire escapes. The convention meetings will be held in the hall above the exhibit.

W. H. MASON.

**Obituary.**

**Richard Vincent.**

Richard Vincent died on June 7, at Ocean City, Mich., in his 84th year. Mr. Vincent, who lived in Baltimore, about a month ago, went to Michigan, thinking it was a grand old country. He had for several years been suffering from an affection of the heart. He was born in England, coming to this country in 1836. He went to work as manager for M. H. Vincent, who was then in charge of the nursery and greenhouses of Richard Cromwell Vincent, in Anne Arundel County. He left there about twenty-five years ago to enter the florist business in Baltimore. Mr. Vincent had two sons, three daughters and two sons; the sons are Richard and Thomas Vincent, of Baltimore; both are engaged in the florist business.

**Robert Williams.**

Robert Williams, the well-known market-gardener and florist, died at his home at Batavia, N. Y., Thursday, June 3, of heart disease, aged 82 years. He was born on June 1, 1815, at Batavia, N. Y., and came to Batavia in 1840. He had been in ill health for about two months.

**The James Dean Auction Sale.**

With this week has closed the business of an establishment of a grower whose name and fame is known to all men in the craft. Auction sales are of common occurrence and proceed from a multiplicity of causes. It is reserved mainly to the florist business, which enjoys some what of a monopoly in this line—that forced sales arise often from the march of improvement rendering land originally purchased for a moderate figure in the outskirts of village, town or city, valuable as building lots or needed by the corporation. In Mr. Dean's case his property has been taken almost entirely by the Borough of Brooklyn, it being directly in the route of the great boulevard, which, when completed, will enable one to drive over grand boulevards and through delightfully diversified scenery, from Coney Island, along the shoreward of the Outer and Inner Bays of New York, through Prospect Park, to the farthest ends of Long Island.

**The Palms.**

It is somewhat refreshing, after the long siege of slow sales and low prices of this stock, to be able to report a really first-class sale. Kentia Belmoreana sold briskly at top-notch prices; other palms following closely. Among buyers of this stock were L. Seton, Astoria; J. Bader, Pittsburg; Robert Craig, and John Westcott, of Philadelphia; the Boole Floral Co., Ithaca; J. H. Troy, of the Iosary; G. Stumpff, Altoona; J. Cunningham and Charles Dards, of New York; C. H. Sutton, of Babylon; J. M. Keller, Bay Ridge, and W. Griffin, of New York.

**General Stock.**

General greenhouse stock sold well, including ferns, ficus, caladiums, azaleas, etc. Two plants of Nepenthes were knocked down to J. Lovelace, of Lenox, for \$12.50 each. Julius Roehrs, Carlton Hill, was also a buyer of this fern in smaller sizes. Other buyers for the first-named lists were H. G. Eyles, of Albany; Namm, of

N. J.; J. H. Zachorna, Brooklyn; N. Stewart, Tuxedo Park; S. C. Nash, Clinton; J. B. Kolbe, Vermont; J. J. Spaulding, John Scott, Brooklyn; McGovern, G. Matthews, Koffmann, W. L. White, of New York; J. A. Rose and John Nicol, of Jersey City; C. Besold, Mineola, L. I. Besides the general grower of importance or his representative from the various Boroughs of Greater New York was present. The names of the purchasers from out-of-town, whose names were unable to obtain.

W. L. White, the veterans of the business, who established himself in Brooklyn in the year 1841, was an interested onlooker.



The work next in order is to clean up those houses in which you desire to raise cut flowers. Everything in them in the way of plants must be removed; then give the houses a thorough cleaning, carefully weeping off the benches. All rubbish accumulations of the past winter must be removed, and in case floors or walks show a green scum scrape it off with the hoe, then lay on a coat of clean gravel, leveling it neatly off. Under the benches I prefer coarse gravel, as it takes up surplus water freely. Coal ashes make a good substitute.

Examining your benches. Should any of them need renewing and strengthening this is the time to do it, and be careful to see that you have one inch of open space between each board, while, if your benches should be solid, give them a drill holes through them, say at least every six inches—solid closer will be yet better—so that water will interfere with a proper drainage, which is imperative, especially at the latter end of the season, as plants in bloom will not stand too much moisture at the roots.

Some growers set up side-boards and use old lumber for a false bottom, laid flat on the ground; others plant in open border in the house; the latter way is the best of the two. Neither method will come up to benches culture, the blooms on the latter always being of better finish and firmer build.

After my benches are ready I give them a stiff lime wash, if productive of nothing else it pays well through the saving of lumber and keeps the soil sweet during the season.

First plant the side benches; be certain to have four feet of head room over your side benches, so that you can reach the glass nor have the free circulation of air necessary; if they come too close to the soil the plants will suffer from dampness, a serious detriment to the production of fine flowers. Cut away the soil between the benches in charcoal dust and bone dust, as stated in a former letter, and place on the benches the way it comes. Do not sit it through the open spaces cover these with rougher pieces, or with a little soil and grass, or anything at that line; level off even with your sides, which, with me are five inches deep. After planting and watering this will sink to not much over four inches, leaving ample room for a good top dressing later in the season. My benches are lined with six-inch lumber, one inch of which is used in nailing them to the bottoms, thus leaving me five inches clear.

For my side benches I select only low-growing varieties, such as Mrs. F. Bergmann, Ivory, Pink Ivory, Fred Walz and Minerva, none of which grow over three feet in the season. My varieties if possible, well-established plants in three-inch pots, and the plants are set in the benches at a distance equivalent to that. All side benches should be planted by the 15th of June, and the plants should be in the taller to make sufficient stems. The initial growing plants will handle later.

THOMAS W. C. C.

**The Late Robert Douglas.**

We present herewith a reproduction of one of Mr. Douglas' latest photographs, which, we have no doubt, will be welcomed by all who knew him personally, as well as by those of whom he was known by reputation.

The first day's sale—Wednesday, June 9—was started on the third of a series of remarkable rainy days, but notwithstanding the chilly atmosphere and downpour, the weather discomforts were without effect on the attendance, which was large and representative and enthusiastic; and the esteem in which Mr. Dean is held as a grower was best attested by the fact that the Brooklyn contingent were among the heaviest buyers.

The stock offered was all of it in the pink of perfection, clean, healthy and robust, and many of the specimens as they lay in the hollow which gives it considerable protection from the wind on three sides, and lying so open to the general influences of old soil—when he shows himself.

At 10.30 on Wednesday morning the packing shed of the old landmark was crowded with over a hundred buyers, for the inclement weather had ruled the idler and curiosity seeker. A few minutes later the auctioneer, Mr. Williams Elliot, opened the sale with the contents of house No. 1, the first stock offered being lycopodiums, and the first purchaser, Mr. H. C. Steinkoff, West Hoboken, N. J.; T. J. Totten, Saratoga, N. Y.; W. C. Egger, Schenectady, N. Y.; J. C. Williams, Montclair,

Brooklyn; James Weir, Jr., Mrs. Meissner and H. A. Molatsch.

**Orchids.**

The bulk of the mixed plants, such as Cattleyas, etc., went to Plainfield, N. J., L. Borsum being the buyer; others to Lenox. The entire batch of Cypripedium insignis was purchased by Daildozou Bros., the 32 plants realizing close over \$500. Aracanthas and Pandanus brought out some lively bidding. M. Keenan, of Brooklyn; L. Hart, of New York, and J. H. Troy being among the largest purchasers.

**Cannas.**

These were offered in quantities, but buyers were soon satisfied, and prices fell very low, averaging from \$2 to \$6 per dozen. Austria, however, averaged from \$5 to \$10 and Italia \$2 per dozen. G. Atkinson, of Orange, was the largest buyer.

**Greenhouse Structures.**

These went at prices varying from \$15 to \$50 each. The buyers were Messrs. Kemper, Kalfur, Zeiner, Welmar, Lenker, Mellis, Zeller, Shanley and Kierschner. Boilers varied in selling price from \$1 to \$15.

**Visitors at the Sale.**

At the sale, many of whom were purchasers to some extent, were J. McDonough, Newark; H. C. Steinkoff, West Hoboken, N. J.; T. J. Totten, Saratoga, N. Y.; W. C. Egger, Schenectady, N. Y.; J. C. Williams, Montclair,

## The American Toad.

The toad has been very appropriately named the "gardener's friend"; and while many gardeners are cognizant of the aid it renders in the extermination of noxious insects, but few are aware of the extent of its voraciousness in this direction. A most interesting bulletin (No. 46 of the Hatch Experiment Station of the Massachusetts Agricultural College at Amesbury, Mass.), prepared by P. ofessor A. H. Kirkland, assistant entomologist to the Gypsy Moth committee, has just been issued, in which the habits, food and economic value of this batrachian are treated upon.

Particular attention has been given to the nature of the food of the toad; and an examination made of the contents of the stomachs of several revealed the fact that though the animal does devour some insects that are useful to man, this depredation is greatly offset by the number and variety of those that are harmful to vegetation, of which the toad also makes a meal. The following summary shows the toad's predilection in the matter of diet:

Of the beneficial insects (1) it destroys carabid beetles, insects of a highly beneficial character; (2) it devours an occasional ichneumon fly and "lady bird"; (3) it feeds to a small extent on spiders, generally considered to be valuable as insect destroyers; (4) it devours carrion beetles, insects indirectly helpful to man.

Of injurious insects (1) it feeds on worms, snails and sow bugs, common greenhouse pests; (2) it devours a large number of myriapods which damage greenhouse and garden plants; (3) it feeds to some extent on grasshoppers and crickets; (4) it destroys large quantities of ants, insects often injurious and usually obnoxious; (5) it consumes a considerable quantity of may beetles, rose chafers, "click beetles," potato beetles, cucumber beetles and weevils, all more or less injurious to crops of various kinds; (6) it feeds on tent caterpillars, gipsy moths and other fruit tree pests, and (7) it is a prime destroyer of cut worms and army worms, common cut worms which often cause great damage.

To recapitulate, eleven per cent. of the toad's food is composed of insects and spiders beneficial or indirectly helpful to man; eighty per cent. of insects and other animals directly injurious to cultivated crops or in other ways obnoxious to man. Further comment upon the valuable services of the toad would seem unnecessary.

As demonstrating the variety and quantity of food elements found in the stomach of a toad which was killed at P. M. on May 11, 1898, the following is interesting. In the stomach's contents were recognized:

Nine ants (*Camponotus pennsylvanicus*);

six cutworms; six myriapods (*Julius* sp.); six sow bugs (*Porcellio* sp.); one weevil (*Hydrotus* sp.); one carabid beetle (*Pterostichus* sp.).

In twenty four hours the toad consumes an amount of food sufficient to fill its stomach four times. A toad feeding at this rate upon the same kinds of food and in these proportions would consume 398 beneficial insects and 1069 injurious insects, myriapods, etc.

A properly estimated (but an equivalent of the damage and annoyance that might be caused by a toad) would be a difficult and unsatisfactory task, since data for the calculation must be of an arbitrary nature. To give our own contribution to but one element of the food, the cutworms, we reach some very interesting results. If we assume that ten per cent. of these insects, eaten by a toad feeding under the given conditions, would have been killed by the carabid beetle which the toad also devours, we still have the destruction of 198 cutworms to place to the toad's credit. If the damage the cutworms would have caused be estimated at one cent per worm, a figure which gardeners and tobacco growers will probably consider ridiculously low, we find that in one season a toad might destroy cutworms which otherwise would have damaged crops to the extent of \$19.88.

Gardeners and greenhouse owners may make this animal of especial value. Every gardener should aim to keep a colony of toads among his growing crops, and the practice of collecting and transferring them to the gardens is a commendable one. While the sense of localities is strong in this batrachian and it will often return over considerable distances to its original haunts, yet it may be induced to remain in new quarters if there is a sufficient food supply. Many provide toads with artificial shelters made by digging shallow holes in the ground and partially covering them with a bit of board or flat stone. In such places toads will often remain for many days, sallying forth at night to seek food.

In greenhouses the toad may be made of particular value as a destroyer of snails and sow bugs, myriapods, cutworms and weevils. According to Dr. Fitzmaurice, in the research garden attached to the Rouen entomological laboratory, the snails were entirely exterminated in 1891 as a result of introducing 100 toads and ninety frogs. In a greenhouse at Malde, Massachusetts, a number of valuable orchids were nearly ruined through the attacks of myriapods and sow bugs. The gardener introduced a number of toads, and in a few weeks the pests had nearly disappeared and all damage from that source ceased. A common pest in rosehouses and one that

## Halesia tetrapeta.

## Decorative Value of Flowering Shrubs.

During the past spring there has been a very noticeable increase in the use of all kinds of flowering shrubs, in choice and large decorations, especially in New York City; and suburban towns have been following suit. The average run of city and country decorators, up to the present time, have seemingly overlooked the decorative value of this class of stock; but now fashion and popular taste demand that they give it attention.

Society happenings during the winter months have had their gorgeous decorations of roses and carnations, so much so that when spring came people tired of these flowers and selected for decorations at this time invariably spring blossoms. Thus has the fashion been created and some charming effects have been the result.

In New York City the past spring, and even now in June, so far, the large decorations consist mostly of outdoor flowering shrubs, or as fashion is pleased to name them, "spring flowers."

At a wedding decoration a short time ago three large rooms and the entrance were absolutely covered with *Cornus florida*, apple blossoms, *Malus communis*, *M. floribunda*, *Spiraea prunifolia*, *Fuchsia japonica*, etc. Three truck loads of these were utilized, and it is said that the cost was more than if roses had been used; so that the selection of these flowers was not a question of expense. The sprays of blossoms were hung on the walls by the use of ordinary picture hanging hooks and wires attached to the headings. The bride carried orange blossoms and gardenias; also been noticed in which the above and other flowers of our native nature have been used.

Our illustrations show flowering

branches of four of the most useful and popular shrubs of this season. Perhaps first of all can be mentioned the apple blossom—*P. communis*. The double white apple possesses very considerable merit, its large white flowers rendering the sprays available for almost any kind of work. *P. M. coronarium* is a large double pink of great beauty. *P. M. floribunda* is a single pink flower, rather smaller than the two first named, but owing to its great floriferousness and compact habit it is of great value to the decorator. But in *P. M. Parkmanii* we have perhaps the gem of the genus, its vivid pink, good habit and great keeping qualities all contributing to make it one of the grandest spring flowering shrubs.

*Halesia tetrapeta*, commonly called Snowdrop tree, is well described by its common name, flowering, as it does, like so many large snowdrop blooms, regularly distributed over all the branches.

*Cornus florida* has been largely introduced into wall decorations this season, the subject of our illustration, its var. *rubra*, makes a pleasing change from the white.

*Azalea amona* ranks easily among the grandest of hardy azaleas, and is becoming more popular every season. Its keeping qualities, when cut for decoration, are remarkable, remaining, in water, in good condition one week.

## Chrysanthemum Mrs. E. G. Hill.

The Berno Floral Co., of Mansfield, Ohio, writes us as follows:

"We have been cutting Mrs. E. G. Hill chrysanthemum since January 1 from plants we had cut back last fall for stock. The blooms are very fine and measure from 7 to 8 inches in diameter. We sold a full dozen flowers of this variety on Decoration Day. Plants were cut without any special care or attention."

## The Garden or Love.

They were talking of figures of speech.

"Have you ever noticed," said one, "how fond people are of figures of speech when they are dealing with a woman? Her cheeks are 'roses'; her eyes are 'blue diamonds'; her 'lily hands'; her mouth is a 'rose bud'; her complexion is like a 'peach'; and her breath is 'fragrant of honey-suckle.'"

"You have forgotten one," said the cynic.

"What's that?"

"Her tongue. It is a scarlet runner."

"Pick-me-up."



Azalea amoma.

is increasing in spread and damage, is Fuller's rose beetle (*Armagus Fulleri*). While this species has never been identified in the stomachs examined, yet from the common occurrence of other weevils in the stomachs there can be no doubt, but that toads confined in rosebushes would render material aid in destroying this insect. It would be necessary to jar the beetles from the bushes at intervals when the toads would doubtless devour the greater part of the weevils falling to the ground. The bulletin is profusely illustrated, showing specimens of the insects upon which the toad delights to feed.

**The Tulp Disease.**

At the tulip conference held in London, England, recently, E. Kregelag of Holland, stated that the tulip disease (a fungus) was now undergoing investigation by a committee of experts, but a definite conclusion had not been arrived at yet. They had found, however, that the disease was confined to particular areas, and had attributed it to exhaustion of the soil in those parts, calcium being the lacking element of plant food.

**Blue Point, N. Y.**

George T. Schmeeman, the violet specialist, sails for Europe on S. S. Patria to-day (June 12). He will attend the Hamburg exhibition and visit several principal cities, returning in about eight weeks.

**CORRESPONDENCE.**

*Insertion will be given in this column to all communications free from animus; but the opinions expressed do not necessarily reflect our own.*

**Aquatics.**

*Editor Florists' Exchange:*  
The discussion between the two gentlemen, Messrs. Oliver and Tricker, upon the subject of aquatics is, to say the least, interesting if not edifying; for while both tell us much we do not know, there is considerable that the average florist is familiar with and which reads like an old story, to wit: the so-called secret of keeping open the nymphæa blooms that will go to sleep just when they are most needed to be awake. If it is the intention of Mr. Oliver to least the cultivation of aquatics it is a laudable one, and will, perhaps, be as successful as was the free advertising so lately given at the Boston fern. Mr. Tricker certainly has had considerable commercial experience and his opinion, from a commercial standpoint, is of value. It is unfortunate that in such instances as these an outpouring of personal nature should be indulged in, especially when the writers are, I believe, unknown to each other save by repute. It looks as though, because one chooses to differ from the other in points where perhaps neither is entirely correct, language, not altogether polite must be indulged in, to the detriment of the subject in dispute, and the use of which may cause younger readers to often question whether one grows wiser as one grows older. Let a more harmonious feeling prevail—the reverse is altogether out of keeping with the profession; we are looking for information and eagerly welcome the expression of mature experience. M.

**ROSES.**

*Watering.*

Success in growing roses depends in a great measure on how they are watered. Although I have watered plants for more than twenty years, almost daily, my conviction is that I still have much to learn about the work. This may seem a strange statement to those who water a plant indiscriminately, or on a Saturday, if it be wet or dry, give it a dose in the afternoon to tide it over Sunday.

Roses, when overwatered, most generally show it by a soft growth with yellow, mottled foliage, and when not enough water has been given them they assume a grayish color, with small foliage and corresponding thickness of stem.

It is not a hard matter to keep between these bounds, however, but how much water should be given to derive the best results from the different varieties is where the art comes in; and it is only by exercising the utmost care that we can, to a degree, come near to it. We should always have an object in view in regard to watering, its beneficial or detrimental results—not to-day, but in the future. Going to nature we find roses growing in the open ground very luxuriantly, when the season has been favorable to them. True outside conditions are far from those which we can maintain with impunity inside, still, much can be learned therefrom. I believe there are as many roses not brought to their fullest perfection by insufficient watering, as there are others injured by overwatering. As our soils differ very materially as regards evaporation, the best course to pursue is to make careful trials, allowing a part of a bench to get on the dry side, then giving it a thorough watering, keeping another part moist all the time, and so on. This can be done on a small scale and the best method will manifest itself in a very short time.

With us such varieties as Niphetos, Gontier and Meteor will take quantities of water that have proved harmful to Morgan and the Mermel family.

Sun-stand or scorching of the tender foliage in summer (providing the glass is of good quality), is often the result of improper watering. On dull days, although the temperature runs high,

water should be used sparingly; as when the plants are growing very fast, if the air becomes charged with too much moisture and the plants are a little on the wet side at the root, they quickly become too soft to ensure the scorching sun when it pops out again. For watering the beds before the soil has settled down firmly, a coarse rose, with the screw part of a hose coupling soldered on to it, is very desirable, being easily attached to the hose. This method obviates the plastering and washing down of the surface soil. Syringing plays a very important part also; how, when and where to do it and why is what we should all strive to make ourselves masters of.

I never shade young roses, except during planting time, for a week or so. Now, with the fine houses that we have to-day, built for light, etc., during the months of June, July and August, the hose must be freely used on all bright days if we want to get that large, leathery foliage which is disease-resisting.

We must take into consideration the immense amount of evaporation that is going on through the foliage during bright sunshine. We often see the shoots drooping during a hot sun; this is the cause of the foliage giving off more moisture than the roots take up to sustain the strength of the plant at the same time; hence the necessity of spraying the plants overhead four or five times during the day, at the same time wetting down the walks and sides of tables. By so doing the extra quantity of moisture needed is supplied, and instead of the plants becoming hard, with small foliage and thin, dry wood, as would otherwise be the case, it allows the absorption by the roots to be utilized in building up a strong plant.

One of the worst enemies of a rose house is red spider; its best preventive is a sharp, fine spray directed upwards from underneath the foliage. If properly done the first syringing in the morning will be sufficient to prevent the spider putting in an appearance. The inside rows and corners of the houses should be carefully watched for this pest. If once it gets a start it very rapidly infests all the plants in the house. By keeping our plants perfectly free from spider during summer, when the dull days come in the fall it will be found a great help to us when we are carefully guarding against black spot and other kindred diseases by not having to syringe. For syringing I find the Ebers nozzle to be the most practicable, as by force and fineness of spray can be maintained by turning the key. When a nozzle is used thumb or finger action is unknown. H. H.



Ornamental Crab Apples.

Pyrus Malus Parkmani.

P. M. coronarium.

P. M. floribunda.



### Exclusively a Trade Paper.

Entered as Second Class Matter October 3, 1878.

Published EVERY SATURDAY by

A. T. DE LA MARE PTF. AND PUB. CO. LTD.,

2, 4, 6, 8 Duane St., New York.  
P. O. Box, 1097. Telephone 2154 Cortlandt

REGISTERED CABLE ADDRESS  
(Registered Cable) FLOREX, New York.

**SUBSCRIPTIONS:**  
\$1.00 per year in United States, Canada and Mexico. \$2.00 per year for foreign countries in postal union. Payable in advance. No subscriptions will commence with the first number after receipt unless otherwise specified. Back numbers can be supplied when wanted.

The name on address label shows when the subscription expires and is the subscriber's receipt. No other receipt is sent.

**ADVERTISEMENTS:**  
Copy must reach this office not later than Friday in order to secure insertion in issue of the following Saturday.  
Rate, \$1.00 per line. Special positions exact amount on contracts of one month or longer.  
Orders from unknown parties must be accompanied by cash or satisfactory references.

### Subscribers

Should give notice to the publishers at the end of their time if they do not wish to continue taking paper, otherwise it is continued and payment exacted.

### Contents.

AMERICAN SEED TRADE ASSOCIATION	567
ACTOR SALE—THE JAMES DEAN	571
DEATHS, MARRIAGES, DEATHS	573
BOB MAN	574
CAROLINES	574
NITRATE OF SODA	574
CHANGE IN BUSINESS	575
SEVENTEENTH ANNUAL E. G. HILL	575
COOK BILL TO REGULATE THE SALE OF IMPORTED SEEDS	574
CORRESPONDENCE:	574
CLIP FLOWER PRICES	580
DELAWARE, A WORD ON	582
SEEDING STRAWBERRIES	574
FLOWERING SHRUBS—DECORATIVE VALUE (or Illus.)	572, 573
OBITUARY:	571
Robert Williams, Richard Vincent	571
QUESTION BOX:	575
R. F. Taboring	573
R. S. OF A CONVENTION (Illus.)	575
SEED TRADE REPORT	567
SEEDSMEN VISIT THE DEPARTMENT OF AGRICULTURE	574
TOAD, THE AMERICAN	568
TRADE NOTES:	568
Flushing, L. I.; Grand Rapids, Mich.; Newark, N. J.	573
Blue Point, N. Y.	573
Brooklyn, N. Y.	573
Providence, Stamford, Conn.; Amsterdam, N. Y.	573
Buffalo, Pittsburgh	570
St. Louis, Toronto, Cleveland	573
Philadelphia, N. York, Short Hills, N. J.; Bridgeport, Conn.; New York, R. I.	573
TELEPHONE THE	575
THE HYBRIDIZATION OF AND RAISING OF SEEDLINGS	567
INTERESTING AND TALKS OF THE SEED TRADE	567

### For the Busy Man.

Legislation against the department stores in Illinois has failed to pass.

Ten thousand people visited the Shaw Gardens, St. Paul, last week.

James Dean's sale was a most successful one, being attended by a large number of growers.

The banquet proposed to be given in New York City, Philadelphia, will occur on the 26th inst.

Will interest seedsmen to learn that the Department of Agriculture does not endorse the Cook Bill in its entirety.

Large preparations are being made for the Providence florists, and a large convention is expected there in August next.

Jerome H. Biles, Cambridge, N. Y., has been elected president of the Seed Trade Association.

W. F. Willard, Westchester, Conn., secretary.

## The Cook Bill to Regulate the Sale of Imported Seeds.

This matter was discussed by the Seed Trade Association, at its meeting held in Washington this week. From the remarks of Mr. Hicks, of the Pure Seed Association, and the Secretary of Agriculture as given herewith, it is evident that the proposed bill, in its entirety, does not receive the endorsement of the Department. Mr. Hicks also explained that he was not the author of the bill.

On Wednesday morning Mr. Hicks appeared before the committee and narrated at some length the work being done by the Pure Seed Investigation division of the Department, stating that a number of the leading seedsmen and farmers of the country had endeavored to secure the necessary of investigation and the efforts that were being put forth by the department, with a view to obtaining pure seeds in America. Mr. Hicks cited many instances where seed had been adulterated, or mixed, and pointed out the great drawback such a condition of affairs was to agriculture. Of course, he viewed the seed trade from the grower's and the farmer's point of view. He considered the term "seedsmen" was applicable to all who sold seeds, whether they were in the hardware store. He was of opinion great harm was done in mixing seeds of those who were not reliable seedsmen; he believed the honest seedsmen of the country were as eager as the Department of Agriculture that pure seeds should be sown, and that their efforts were bent in that direction.

The speaker then referred to the connection of the Department of Agriculture with the Cook Bill. The author of that bill had approved the bill, and with a number of letters from farmers asking him (Mr. Cook) to introduce a bill into Congress, and to give the seedsmen to sell seeds which would grow. The secretary referred him to Mr. Hicks, and he was asked to give the gentleman to give Mr. Cook free access to all data on the subject in the possession of the Department, which was done. Mr. Cook was asked to submit a copy of his bill, after it had been considered by the committee, and any criticism they might have to offer; and it was also suggested to him that he send copies of his bill to a few of the leading seedsmen of the country in order to get their ideas, which were also considered by the committee. In drafting a bill of this kind, this was practically the last the Department heard of the bill, and it was not until the bill was printed and introduced into Congress. In the meantime Mr. Hicks had had several conversations with Mr. Cook. After the bill was introduced the author of it immediately asked the Department to endorse it. The Department looked over the bill very carefully and found many features which were objectionable, and offered several amendments. In brief, these amendments were to the effect that in any bill introduced at all, it should be a bill to regulate the importation of inferior grass and clover seeds, and to regulate the seed trade means for the dealers to have their seeds tested and guaranteed. The amendments were approved by the Department had not been included in the bill introduced by Mr. Davidson, which was an exact copy of the Cook bill.

The Department of Agriculture did not wish to have any legislation with the seed trade. Looking at it from the standpoint of the farmer, what the Department did wish to do was help him to get a better class of seeds, provided he is going to pay for them. It was also stated by Mr. Hicks that with a view to encouraging co-operation between the department and the seedsmen, it was in the process of devising methods of procedure for seed testing in different parts of the country, a meeting was held in New York, and the experiment station directors was presented to the Association of American Agriculturists, and the Department Stations at the convention held in Washington in November, 1886, representing the various States. A committee of experts in seed testing to be organized and adopt a standard form of report to be sent to the Department for use in all American States.

Responding to this memorial,

the association ordered the appointment of a committee to formulate rules for seed testing which have been published for the guidance of the stations.

### Seedsmen Visit the Department of Agriculture.

A large number of the delegates to the Seedsmen's Convention visited the Department of Agriculture, and were shown about the building and grounds. They paid special attention to the display of seeds here in front of the seed house, where are grown over 500 varieties of grasses and clovers. Mr. J. H. Lamson Scribner, in charge of the division of agronomy, explained the various forage plants which were here, and were highly pleased with what they saw. The 500 varieties of forage plants growing in the grounds of the Agricultural Department have been gathered from all parts of the United States. The "cresping bent" sample of which comes from the coast of Maine and from along the southern Atlantic coast, attracted much attention, and was highly valued by the delegates.

It has long been looked upon as heresy for well-informed seedsmen to recommend which other than Kentucky blue grass for lawn purposes, but the soft, thick mat formed by the "cresping bent" is fast gaining first place for the purpose of making lawns. It is a variety of blue grass, is the Apache blue grass, from New Mexico, which, unlike its namesake grows in the shade. It is a blue grass, taking its color from the sky.

For some time Prof. Scribner cultivated a grass that had been obtained from Acapulco, Mexico, and known to botanists as a species of paspalum. But he could learn no complete name for it, and only in the last few days was a sample of the same grass received from Texas, where it has been called "Texas paspalum" and "be-damned." The name describes the grass. No amount of pulling will wrest its roots from the soil, and it is a most interesting specimen is a square of prairie soil from Nebraska, from which a large square of prairie soil was sent to the planters of Korea. There are European grasses by the name of "be-damned" which is being made to cultivate in the soil of the planters of every known grass and forage plant.

Mr. Scribner is anxious to exchange with those engaged in advancing similar work in foreign countries. At Kansas City, Mo., he has a large collection of seeds of various kinds, and Mr. Scribner is anxious to have a similar collection in Texas and New Mexico in order to show the effect of climatic conditions in this variety of plants.

### New York.

**The Market Slow.** The extraordinary cold, wet weather which prevailed until Friday completed a crippled business this week, the stores getting but little transient trade, and the Greeks being unable to get out on the streets.

Carnations felt these conditions most; no matter whether they were of high or low quality, they were scarce, and what sales were effected were at wretchedly low figures. Two dollars per dozen for the best quality of carnations with 81 per cent on top notch or fancy price. The supply of good roses was very light, but there was enough for the demand. Beauty advanced a little in value, but cents is again the taking price for specials. Valley sold well, much of it in the form of surplus, but the quality of the 25 and 35 per 100 were the prevailing prices. Peonias sold at from 25c. to 35c. per dozen; gladioli at 4 per 100.

**Retail Trade.** Steamer work was the main feature of the week, many large pieces were to be seen in the saloons of the different ships. On the steamship Purist, 100 plates of the following designs and about the same number of boxes containing cut flowers were sold, and a quantity of orchids was being used.

There was a large dinner decoration for the South American Trade Conference; over 500 plates were laid. A large quan-

ity of spring or hardy flowers was used.

John C. Wardford won the first prize for the best fancy decorated wheel at the Evening Telegram parade on Saturday. The parade on Broadway Street, was awarded first prize for the best floral wheel, A. Merritt taking second prize for the best floral wheel, and the tandem machine which was awarded the prize in that class.

John C. Wardford, Bogart and other members of the trade will have a grand excursion to the fishing banks of Long Island Sound. The excursion has been chartered for the occasion.

**Anticton Sales.** These sales have been numerous and successful. There will be an array again next week. In addition to the city sales Tuesday and Friday, there will be a sale of flowers, and the whole stock of orchids at Short Hills, N. J., by order of the Receiver, John C. Wardford, will be auctioneer. Sales began Wednesday and Thursday at 11 A. M. Trains leave foot of Barclay Street at 8:30 A. M. and 11:15 A. M.

In addition to the exhibition at the club meeting Monday evening arrangements for a sale of flowers will be in connection with the convention of the S. A. F. at Providence, R. I., in August next.

**American Institute Show.** The horticultural section of the American Institute held their regular meeting on Monday evening at their rooms, 111 West Thirty-eighth Street. The meeting and exhibition proved to be an interesting and valuable of the series yet held, every foot of available space being covered with nearly all that is to be seen.

To orchid lovers and experts the superb exhibit of twenty-three forms of seedling orchids, by G. Roebling, Trenton, N. J., was a rare and prominent speaker at the afternoon meeting, and he was the only one to be able to duplicate the exhibit this side of the Atlantic. The diploma of the American Institute was awarded to Roebling and a cultural certificate to his gardener, Mr. H. Chinkberry.

Two buds of the new Hamberg carnation, weighing about three pounds each, splendidly finished in color and shape, were shown by the exhibitor. The exhibitor was W. Turner, gardener to W. Rockefeller, to whom a cultural certificate was awarded. In the commercial grade and in the way of cut flowers, J. T. Lovett, Little Silver, N. J., made a fine showing of over 120 varieties of peonias; a cultural certificate was awarded to J. Lovett. In the way of cut flowers, J. T. Lovett, Little Silver, N. J., made a fine showing of over 120 varieties of peonias, making an exhibit that of its kind is rarely equalled, and well merited certificate which it received. J. Miller, Ouzis Nursery, Westbury Station, L. I., showed 34 cases of peonias, iris and other hardy flowers; several of his peonias were of exquisite color and form and were highly valued by the exhibitors for the market.

Leach Bros., Jersey City, put up 26 plants of the well-known strain of double and single petunias. J. T. Dwyer, Corwall-on-Hudson, exhibited a fine collection of gerberas and J. C. Williams, Montclair, N. J., eight kinds. N. Butterbach, Newark, N. J., exhibited a fine collection of gerberas.

Siebert & Son, New Rochelle, made an interesting display of hardy flowers; one unique feature of their exhibit was a collection of Rosa rugosa hybrids. Several of these are very remarkable, showing H. P. coloring, also taking on the double form, and being of the double form. The exhibitor of this group and the committee expressed a wish to see the specimens again when they had individual boxes acted upon.

Another novel feature of the exhibition was a collection of wild flowers from Oakes Ames, Esq., North Easton, Mass.; the botanist of the city in this day has been very successful in his collection. The Farmers' Club, also the Horticultural Section, have adopted the plan of holding a sale of flowers on the 11th inst. which will meet again till September.

The exhibition at the Florists' Club Monday evening last afternoon and evening, June 14, promise to be of unusual interest. A number of exhibitors have given their attention to the exhibit. A crowded meeting is anticipated.

Philadelpia.

During the past week the retail stores have been doing a fairly good business... Philadelphia.

Valley has been in much demand this past week, with prices ranging from \$3 to \$4...

The best of the outdoor flowers, the only good seller seems to be paeonia, which bring \$4 per 100...

Carlson & Lauritsen, who rented the new lot on the corner of Washington Park, have a fine stock of roses and carnations...

Christ, Hansen, on Dale Street, has one of the largest rose-growing establishments...

Mr. E. Craig, who has just taken possession of the Smith place, at Sixty-first and Market Streets, has been in the market...

Fred Fahman reports a falling off in the market for carnations...

The banquet to Thomas Cartledge in connection with his marriage...

Robert Craig reports having done an excellent spring business...

Ernest Asmus was a visitor early in the week, as was also William Crawford...

The Pennsylvania Horticultural Society will meet on Tuesday next...

St. Paul.

Trade is slow and uncertain, owing to the fact that the season has advanced for ten days past...

land, all of which call for floral offerings from devoted parents, lovers, admirers, followers, etc.

Roses are of poor quality, though good specimens are to be seen...

Reports from different sections of the State indicate that trees are suffering greatly from the ravages of a small caterpillar...

W. G. Bunde, representing J. C. Vaughan, of Chicago, was a recent visitor.

L. M. May left Saturday last to attend the sedimen's convention this week.

Carlson & Lauritsen, who rented the new lot on the corner of Washington Park, have a fine stock of roses and carnations...

Christ, Hansen, on Dale Street, has one of the largest rose-growing establishments...

Mr. E. Craig, who has just taken possession of the Smith place, at Sixty-first and Market Streets...

Fred Fahman reports a falling off in the market for carnations...

The banquet to Thomas Cartledge in connection with his marriage...

Robert Craig reports having done an excellent spring business...

Ernest Asmus was a visitor early in the week, as was also William Crawford...

The Pennsylvania Horticultural Society will meet on Tuesday next...

Births, Marriages, Deaths.

Births. MacFarlane. At "Glenroy," Ridgeland avenue, Madison, New Jersey...

Advertisement for 'AGRICULTURAL BOX.' OPEN TO ALL. FREE TO ALL. Answers Solicited from Those Who Know.

(39) Preparing Cyans Leaves.—R. P.—Will some one be good enough to give me a formula for the preparation of leaves of Cyans revoluta?

(40) Name of Sweet Pea Wanted.—The sweet pea in blossom from country growers are a trifle small, but this is probably due to the variety having been grown in the open air...

Crawfordsville, Ind. McDonald & Steele are building two new short-span houses, 100x20 feet...

Index to Advertisers. Actinella. Lang John Co. 529. Merlet C. & Co. 529.

Agrestum. Rosbach & G. 579. Leach & W. 579. Smith & Son. 579.

Alfemranthera. Baldwin A. J. 676. Daeling. Emmaua Geo. M. 669. Aquatics. Dreyer & Co. 676.

Asparagus. Elliott Wm. H. 884. Aster. Muehle & Son. 679. Gerber & Son. 679.

Auction Sales. Schmidt J. C. 694. McDuffy N. & Co. 583. Michael Flanagan & Co. 579.

Begonia. Detscher Bros. 579. Detscher O. P. & Bro. 579. Fairview Floral Co. 679.

Board of Trade. Nathan & Sons. 577. Husband and Sons. Allen Chas. H. 666.

Business Cards. Hill E. & Co. 683. Austin G. & Son. 587. Beaudry & Co. 587.

Cat Flower. Beckert T. F. 588. Bennett O. H. 579. Bunting S. J. 588.

Cat Flower. Beckert T. F. 588. Bennett O. H. 579. Bunting S. J. 588.

Cat Flower. Beckert T. F. 588. Bennett O. H. 579. Bunting S. J. 588.

Cat Flower. Beckert T. F. 588. Bennett O. H. 579. Bunting S. J. 588.

Cat Flower. Beckert T. F. 588. Bennett O. H. 579. Bunting S. J. 588.

Paeonia. Doyle J. A. 579. Schmidt & Co. 579. Solani C. & Co. 684.

Perennials. Bartlett Geo. 577. Peter John Co. 579. Schlegel & Foltner. 577.

Flower Plants. Ernst W. 579. Hillinger Bros. 579. Riller & Son Aug. 577.

Floral Foliage. Jackson & Perkins. 689. Bester S. Co. 679.

Greenhouse Building. Healding and Venturi. 679. Carmody J. 660.

Seeds. Berger H. H. & Co. 666. Caldwell-Wilson Co. 680. Cragg & Bodington 667.

Smiths Plants. Buller F. A. 579. Beyer & Co. 579. Brierley Prof. 576.

Sprinklers. Sadtling H. Co. 681. Sells Bros. 681. Sprinklers. Sadtling H. Co. 681.

Supplies and Register. Baynes & Co. 584. Boston Letter Co. 577.

Terrace. Forster, To Lasee. 679. Floral Insurance. Hall Insurance. 577.

Verbenas. Hales H. W. 578. Taylor & Co. 578. Verbenas. Hales H. W. 578.

Verbenas. Hales H. W. 578. Taylor & Co. 578. Verbenas. Hales H. W. 578.

Verbenas. Hales H. W. 578. Taylor & Co. 578. Verbenas. Hales H. W. 578.

Verbenas. Hales H. W. 578. Taylor & Co. 578. Verbenas. Hales H. W. 578.

Verbenas. Hales H. W. 578. Taylor & Co. 578. Verbenas. Hales H. W. 578.

Verbenas. Hales H. W. 578. Taylor & Co. 578. Verbenas. Hales H. W. 578.

Verbenas. Hales H. W. 578. Taylor & Co. 578. Verbenas. Hales H. W. 578.

CISSUS DISCOLOR

3/4 inch, \$4.00 per 100.

BEGONIAS, Gatafia, Agrostemma Picta, White Vernon and Mm. de Lesseps, 2 1/2 inch, at \$2.50 per 100.

GERANIUMS, Mt. Snow, 2 1/2 in., \$3.00 per 100.

ROSES, 2 1/2 inch, strong. Souvenir, Herbe, Grandma, Marie Van Houthe, Washington, N. Nid, Douglas, Brant, Mme. Jos. Schwartz, Narcisse, Le Franco and C. Nermat, \$3.00 per 100. CASH WITH ORDER.

C. P. DIETERICH & BRO., Maysville, Ky.

SMILAX and CARANATIONS, Smilax, 2 1/2 in. per 100, \$2.00 per 100; \$3.00 per 100; Caranations, Wm. Scott, transplanted, 4.50 per 100; \$2.00 per 100; Herbe, 2 1/2 in. per 100, \$4.50 per doz.; \$4.00 per 100. Cash with order.

F. M. De Witt, Torrensida, Phila., Pa. When Writing Mention Florists' Exchange

SMILAX From 2 inch pots, \$1.00 per 100. From 3 inch pots, \$3.00 per 100.

HYDRANGEA, 4 inch pots, \$10.00 per 100. Send for samples, Cash with order.

FRED. BORNERT, Cape May City, N. J. When Writing Mention Florists' Exchange

GOOD STOCK! LOW PRICES!

Table listing various plants and their prices per 100. Includes Alternanthera, Aster, Cobaea scandens, Geranium, Petunia, Coleus, Latania, Kentia, Arecia, Pandanus, and Mushroom Spawns.

JOHN SCOTT, KEAP STREET GREENHOUSES, BROOKLYN, N. Y. When Writing Mention Florists' Exchange

Retiring from Business!

MICHEL PLANT AND BULB CO. Plants, Wagons, Horses, EVERYTHING MUST BE SOLD

BEFORE JULY 1st, 1897.

DON'T MISS THE BARGAINS.

All plants at the Greenhouses at Magnolia and Tower Grove Avenues, have been marked down to ridiculously low prices in order to sell at once. Everything offered at about half price. COME AT ONCE and secure first selection.

All plants, etc., not sold at private sale before June 23d, will be offered at AUCTION on June 23d and 24th, 1897, beginning at 10 o'clock A. M. each day. Positively no limit or reserve.

Send for Catalogue of Stock on Hand.

ADDRESS E. H. MICHEL, Sec'y, 1620 Olive Street, - ST. LOUIS, MO. When Writing Mention Florists' Exchange

GOOD STOCK!

Table listing various plants and their prices per 100. Includes Abutilon, Achyranthes, Alyssum, Arabis, Begonias, Chenopodium, Chrysanthemum, Cyclamen, Fuchsia, and Geraniums.

Cash with order from unknown customers of C. O. D. Orders amounting to \$5.00 and over; F. O. B., N. Y. City.

SEAWAN HAKA GREENHOUSES, JAS. C. CLARK, Supt. P. O. BOX 34. WM. L. SWAN, Prop.

BEDDING PLANTS.

Coloan, Golden Bicolor, Red Verschoff and Fire Bird. Ageratum, blue, 3 inch pots. Cash with order.

J. & W. LEACH, Cor. DeBoise & Dilmar Aves., L.I. City, N. Y. When Writing Mention Florists' Exchange

GODFREY ASCHMANN, Wholesale grower of Bedding Plants, 1013 Ontario St., Bridge St. - PHILADELPHIA, Pa.

CUT PRICES FOR JUNE

Geranium in 4 in. pots, all kinds mixed, in beds. Scarlet sage, out of 1 in. pots, \$5.00 per 100; calceolarias, 4 in. pots, \$4.00 per 100; in 1 1/2 inch pots, out of 4 in. pots, \$4.00 per 100; White Candytuft, in 4 in. pots, \$4.00 per 100; Begonia, 4 in. pots, \$4.00 per 100; \$4.00 per 100; Fuchsias, 4 in. pots, \$3.00 per 100; Helianthus, 4 in. pots, \$4.00 per 100; Little Gem, 4 in. pots, \$2.50 per 100; Phlox Drummondii, \$2.50 per 100; Pentstemon, fine mixed and striped, \$2.50 per 100; Sweet Alyssum, Little Gem, 4 in. pots, \$2.50 per 100; Tagetes, \$2.50 per 100; Moon Vines, 4 in. pots, \$4.00 per 100.

We also have the most prepared Seed Manure at 10¢ per bushel. Chrysanthemum Cuttings or Small Roses in 1 1/2 inch pots, \$1.00 per 100. Cash with order. When Writing Mention Florists' Exchange

FINE FINE VERBENAS & BLOOM Many Fine Varieties added to Our Collections. Best Mammoth, 2 1/2 inch, \$1.00 per 100; \$2.50 per 100; General Collection, 2 1/2 inch, \$2.00 per 100.

ROSES.

American Beauty, 3 inch pots, per 100, \$10.00; Bridalmaid, 3 inch, Perle, Hon. Silene, Waterville, In France, 2 1/2 inch, \$1.00 per 100; \$2.00 per 100; Price from 2 1/2 inch pots, \$2.00 per 100; \$3.00 per 100; Ever-blooming and Polyanthas in bed and 4 inch pots, \$3.00 per 100.

CHRYSANTHEMUMS.

For Varieties and Prices, see April 24th issue.

FROM 3 1/2 IN. CANNAS STRONG PLANTS.

Pieroni's Premier, Per doz. Per 100; Austria, 3 1/2 inch, \$1.00 per 100; John White, variegated foliage, 4 1/2 inch, \$1.00 per 100; Golden Queen, 3 1/2 inch, \$1.00 per 100; Florence Vaughan, Chama, Holderegger, 3 1/2 inch, \$1.00 per 100; Wm. Ware, J. D. Gibson, Doyon, J. Sieber, and several other varieties, 3 1/2 inch, \$1.00 per 100.

MOON FLOWER, true strong rooted cuttings, per 100, \$2.00 per 100.

MISCELLANEOUS PLANTS.

Ready for immediate sale. Alternanthera, all leading varieties, \$3.00 per 100; Ageratum, blue and white, \$2.00 per 100; Caranations, from 4 in. pots, fine stock, \$2.00 per 100; Cobaea, leading sorts, 2 1/2 inch pots, \$2.00 per 100; Geraniums, double and single, 2 1/2 inch pots, \$2.00 per 100; Ivy, blue variety, 2 1/2 inch, \$2.00 per 100; Heliotrope, from 3 1/2 inch, \$2.00 per 100; Hydrangea Okamoto, 6 in. bushy, \$2.00 per 100; Fuchsias, double and single, 3 1/2 inch, \$2.00 per 100; Moon Flower, 2 1/2 inch, \$2.00 per 100; Pelargonium, 3 1/2 in. pot, \$2.00 per 100; Salvia splendens and Redona, 2 1/2 inch pots, \$2.00 per 100; Little Louis, 4 in. pot, \$2.00 per 100; Pansies in bud and bloom, \$2.50 per 100; \$3.00 per 100.

New Trade List on Application. WOOD BROS., Fishkill, N. Y. When Writing Mention Florists' Exchange

BARGAIN! Hagania Vernon, pink, red and white; Goussiana, mixed; Santa catalina; Cassiopea; Heliotrope; Camma rosea. Above all sorts at 1/2 price. Also, 1000 of the following: Coloan, Golden Bicolor and mixed, 2 1/2 and 3 1/2 inch, \$1.00 and \$2.50 per 100. Wm. Ware, Littleton, N. J.

20,000 WHITE & BROWN BEDDING PLANTS. 4 inch red bar, white, and blue Marguerite, Fuchsias, double Persian, Feverfew and Heliotrope, 4 inch, \$1.00 per 100; \$2.00 per 100; \$3.00 per 100; \$4.00 per 100; \$5.00 per 100; \$6.00 per 100; \$7.00 per 100; \$8.00 per 100; \$9.00 per 100; \$10.00 per 100; \$11.00 per 100; \$12.00 per 100; \$13.00 per 100; \$14.00 per 100; \$15.00 per 100; \$16.00 per 100; \$17.00 per 100; \$18.00 per 100; \$19.00 per 100; \$20.00 per 100. 1032 Main Street, Worcester, Mass.

GOLEYS

FINE STOCKY PLANTS IN VARIETY. \$1.50 per 100, \$2.00 per 100, \$3.00 per 100.

GEO. L. MILLER, Newark, O. CASH WITH ORDER. When Writing Mention Florists' Exchange

ALTERNANTHERAS

LAST CALL. A fine sort of large strong plants yet.

P. J. Miller, red, \$2.50 per 100; \$3.00 per 100. A. Nana, yellow, R. Nana, pink, \$2.00 per 100; \$3.00 per 100. A. J. BALDWIN, Newark, Ohio. When Writing Mention Florists' Exchange

ROOTED CUTTINGS.

Chrysanthemums, new and standard named sorts, \$1.50 per 100; \$2.00 per 100. Florence Vaughan, from 4 inch pots, \$1.00 per 100. Goussia, Bridalmaid, per 100, \$2.00 per 100; \$3.00 per 100; \$4.00 per 100.

E. FRYER, Railroad Ave. and Hill St., BROOKLYN, N. Y. When Writing Mention Florists' Exchange

HIBISCUS

Twelve varieties, \$2.25 per 100; \$3.50 per 100. By mail, 25c. per 100 additional. TERMS CASH WITH ORDER. R. H. MURPHY, Urbana, Ohio. When Writing Mention Florists' Exchange

SURPLUS STOCK

IN A CONDITION. Geraniums, best varieties, 4 in., \$2.00 per 100; \$3.00 per 100; \$4.00 per 100; \$5.00 per 100; \$6.00 per 100; \$7.00 per 100; \$8.00 per 100; \$9.00 per 100; \$10.00 per 100; \$11.00 per 100; \$12.00 per 100; \$13.00 per 100; \$14.00 per 100; \$15.00 per 100; \$16.00 per 100; \$17.00 per 100; \$18.00 per 100; \$19.00 per 100; \$20.00 per 100.

G. E. MERTZ, Agt., 1865 Buckins St., Phila. CASH WITH ORDER. When Writing Mention Florists' Exchange

HERE THEY GO.

Per 100. Rex Begonia, 2 1/2 inch pots, \$4.00 per 100; \$5.00 per 100; \$6.00 per 100; \$7.00 per 100; \$8.00 per 100; \$9.00 per 100; \$10.00 per 100; \$11.00 per 100; \$12.00 per 100; \$13.00 per 100; \$14.00 per 100; \$15.00 per 100; \$16.00 per 100; \$17.00 per 100; \$18.00 per 100; \$19.00 per 100; \$20.00 per 100.

Chicago

Supply and Demand. All stock has kept pretty well cleared off the past week, not so much from extra demand, however, as from rather short supply. This is particularly true so far as roses are concerned, partly from loss of crop, aided by considerable planting. The decid-dry cool May and so far June is probably favorable, however, to all those who kept steady firing, while those who had let the cool pile run down and tried to shut along with as little fire as possible will be apt to have mildew bothering them fully as much as at the season was, as last year, extremely warm, and from opposite causes. The very finest Brides and Maids are still quoted at \$5 to \$6 by some houses, but \$3 to \$4 is as high as the market generally went, with inferior stock at \$2 and below.

Carnations seem to have taken a new lease of life and Scott particularly are unusually plenty; extra good McClelland and others to be noted—in fact, carnations bid fair to be unusually good all of June. The price ranges for large, standard, bright flowers, \$1.50 to \$2; fancies, \$2, with inferior 50c. to \$1 per 100, which may be considered good in the morning hours, common red peonies are just in from this region. In a few days this flower will be much more plentiful, but, to be sure, they have not been pushed out by excessive heat this year.

Amour flowers. Fred Weber, Bowmanville, will hereafter grow roses only in summer, filling his houses in the fall with carnations, of which he has now planted out 1500 and violets. His carnations, then bedded out on benches, are now being planted in the free ground in sandy soil.

J. A. Budlong proposes to grow roses only hereafter. The 15,000 carnations now planted out will be allowed to flower all they will for summer cutting. With him roses pay best, he thinks. Part of the houses are already replanted and doing finely, so that the other houses will be by the end of June.

In the South Park a fine flower stem is rising from a true Agave americana, one of the relics of the World's Fair, obtained then from California. There would have been a pair of them but for an accident in the breaking of the flower stem of one. The roses in the wooded island will be late and have wintered none too well, which, considering the mildness of winter, is hardly explainable.

The Saffery Brothers planted an early chrysanthemum house the last week in May and have now all planted out the same quantity to last year. Western Triumph with them has been a very bad one to get stock from. The roses are now doing lively. All speak-room next fall will be devoted to their new carnation, Arzyle, the flowers of which still sell at \$5.

William Wells, a North Clark Street florist, has been appointed superintendent of Washington Square and two other small parks. These are still under the control of the Common Council. The department still failed of passage in the legislature.

EDGAR SANDERS.

Newark, N. J.

On June 17 August Begorow, of the firm of Begorow & Krutich, left on an excursion to America for Europe. He will visit the Hamburg exhibition, at which he will be the Inspector and Schuetzen of New York and take part in the shooting tournament at the Niagara Falls, July 4 to 10, then continue his trip to Switzerland and down the Rhine, stopping at several places and spending some time at Bonn, his birthplace.

“JADOO” FIBRE

The New Material in Which EVERY PLANT THRIVES WITHOUT EARTH, And which has proved as invaluable to the Grower as to Amateur Gardeners.

“JADOO” LIQUID,

Both Meat and Drink to Plants. Simply invaluable in Pot Culture. The Best and Cheapest Fertilizer Made.

TESTIMONIALS AND PRICES FURNISHED ON APPLICATION TO THE AMERICAN JADOO CO., 811 Fairmount Ave., PHILA., PA. When Writing Mention Florists' Exchange

FLOWER POTS

We are Manufacturing a Full Line of STANDARD FLOWER POTS and HANGING BASKETS OF THE BEST QUALITY.

Shipping Facilities First-Class, thereby Securing Lowest Freight Rates. Our goods are well packed, and breakage is nominal. Give us a trial. Send for Price List. Address THE SYRACUSE POTTERY CO., 403 N. SALINA ST., SYRACUSE, N. Y. When Writing Mention Florists' Exchange

Standard Flower Pots.

Send for our New Price List with extra discounts. All our Pots, from 7 in. and upwards, have our Patent Elevator Bottom, which is a great advantage, as it insures perfect drainage.

A FULL LINE OF BULB PANS. THE WHELLIN POTTERY CO., 713 to 719 Wharton Street, PHILADELPHIA. BRANCH HOUSES: { Kossner and Wootlake Aves., Jersey City, N. J. { Johnson Ave. and Pearson St., Long Island City, N. Y.

INDIAN BRAND NO ADULTERATION BONE FLOUR NO CICI References: Fred. Dornier & Sons Co., La Fayette, Ind. John H. Taylor, Jayward, N. Y. J. H. Hill & Co., Hubbardston, Ind. L. J. May & Co., St. Paul, Minn. GEO. S. BARTLETT, 1255-1257 WEST 6TH ST., CINCINNATI, O. successor to CINCINNATI DESSICATING CO. When Writing Mention Florists' Exchange

HAVE YOUR COLLECTIONS MADE THROUGH THE NATIONAL FLORISTS' BOARD OF TRADE, 271 BROADWAY, NEW YORK. When Writing Mention Florists' Exchange

EVERY FLORIST OUGHT TO INSURE HIS GLASS AGAINST FIRE. For particulars address JOHN G. ENLER, Secy, Biddle River, N. J. When Writing Mention Florists' Exchange

THE BEST FOR ALL Florists. ROSE LEAF EXTRACT OF TOBACCO INSECTICIDE

SAVE THE BLOOMS! NIKOTEEN DOES NOT INJURE SENSITIVE PLANTS USED FOR FUMIGATION OR SPRAYING, INDOORS OR OUT. 200 POUNDS BUCKETS IN ONE PINK OR METAL. Price \$1.50. ALL SEEDSMEN.

STANDARD FLOWER POTS

In any quantity, and of the best quality. Get my price list before ordering elsewhere.

W. H. ERNEST, Station M, N. E., WASHINGTON, D. C.

STANDARD POTS.

We are now ready to supply a superior quality of Pots in unlimited quantities. Catalogues and price lists furnished on application.

A. H. HEWS & CO., NORTH CAMBRIDGE, - MASS.

HILFINGER BROS. STANDARD FLOWER POTS.

We manufacture a full line of Standard Pots, Seed Pans, Cylinder, sinter and hanging. Lawn Vases and Hanging Vases. Watch these carefully. Lawn Vases, 12 1/2 inch, \$1.00 each; 16 inch, \$1.50 each. Extra Base, 12 inch, \$1.00 each; 20 1/2 inch, \$1.50 each. 20 1/2 inch, \$2.00 each. 24 inch, \$2.50 each. 28 inch, \$3.00 each. 32 inch, \$3.50 each. 36 inch, \$4.00 each. 40 inch, \$4.50 each. 44 inch, \$5.00 each. 48 inch, \$5.50 each. 52 inch, \$6.00 each. 56 inch, \$6.50 each. 60 inch, \$7.00 each. 64 inch, \$7.50 each. 68 inch, \$8.00 each. 72 inch, \$8.50 each. 76 inch, \$9.00 each. 80 inch, \$9.50 each. 84 inch, \$10.00 each. 88 inch, \$10.50 each. 92 inch, \$11.00 each. 96 inch, \$11.50 each. 100 inch, \$12.00 each. 104 inch, \$12.50 each. 108 inch, \$13.00 each. 112 inch, \$13.50 each. 116 inch, \$14.00 each. 120 inch, \$14.50 each. 124 inch, \$15.00 each. 128 inch, \$15.50 each. 132 inch, \$16.00 each. 136 inch, \$16.50 each. 140 inch, \$17.00 each. 144 inch, \$17.50 each. 148 inch, \$18.00 each. 152 inch, \$18.50 each. 156 inch, \$19.00 each. 160 inch, \$19.50 each. 164 inch, \$20.00 each. 168 inch, \$20.50 each. 172 inch, \$21.00 each. 176 inch, \$21.50 each. 180 inch, \$22.00 each. 184 inch, \$22.50 each. 188 inch, \$23.00 each. 192 inch, \$23.50 each. 196 inch, \$24.00 each. 200 inch, \$24.50 each. 204 inch, \$25.00 each. 208 inch, \$25.50 each. 212 inch, \$26.00 each. 216 inch, \$26.50 each. 220 inch, \$27.00 each. 224 inch, \$27.50 each. 228 inch, \$28.00 each. 232 inch, \$28.50 each. 236 inch, \$29.00 each. 240 inch, \$29.50 each. 244 inch, \$30.00 each. 248 inch, \$30.50 each. 252 inch, \$31.00 each. 256 inch, \$31.50 each. 260 inch, \$32.00 each. 264 inch, \$32.50 each. 268 inch, \$33.00 each. 272 inch, \$33.50 each. 276 inch, \$34.00 each. 280 inch, \$34.50 each. 284 inch, \$35.00 each. 288 inch, \$35.50 each. 292 inch, \$36.00 each. 296 inch, \$36.50 each. 300 inch, \$37.00 each. 304 inch, \$37.50 each. 308 inch, \$38.00 each. 312 inch, \$38.50 each. 316 inch, \$39.00 each. 320 inch, \$39.50 each. 324 inch, \$40.00 each. 328 inch, \$40.50 each. 332 inch, \$41.00 each. 336 inch, \$41.50 each. 340 inch, \$42.00 each. 344 inch, \$42.50 each. 348 inch, \$43.00 each. 352 inch, \$43.50 each. 356 inch, \$44.00 each. 360 inch, \$44.50 each. 364 inch, \$45.00 each. 368 inch, \$45.50 each. 372 inch, \$46.00 each. 376 inch, \$46.50 each. 380 inch, \$47.00 each. 384 inch, \$47.50 each. 388 inch, \$48.00 each. 392 inch, \$48.50 each. 396 inch, \$49.00 each. 400 inch, \$49.50 each. 404 inch, \$50.00 each. 408 inch, \$50.50 each. 412 inch, \$51.00 each. 416 inch, \$51.50 each. 420 inch, \$52.00 each. 424 inch, \$52.50 each. 428 inch, \$53.00 each. 432 inch, \$53.50 each. 436 inch, \$54.00 each. 440 inch, \$54.50 each. 444 inch, \$55.00 each. 448 inch, \$55.50 each. 452 inch, \$56.00 each. 456 inch, \$56.50 each. 460 inch, \$57.00 each. 464 inch, \$57.50 each. 468 inch, \$58.00 each. 472 inch, \$58.50 each. 476 inch, \$59.00 each. 480 inch, \$59.50 each. 484 inch, \$60.00 each. 488 inch, \$60.50 each. 492 inch, \$61.00 each. 496 inch, \$61.50 each. 500 inch, \$62.00 each. 504 inch, \$62.50 each. 508 inch, \$63.00 each. 512 inch, \$63.50 each. 516 inch, \$64.00 each. 520 inch, \$64.50 each. 524 inch, \$65.00 each. 528 inch, \$65.50 each. 532 inch, \$66.00 each. 536 inch, \$66.50 each. 540 inch, \$67.00 each. 544 inch, \$67.50 each. 548 inch, \$68.00 each. 552 inch, \$68.50 each. 556 inch, \$69.00 each. 560 inch, \$69.50 each. 564 inch, \$70.00 each. 568 inch, \$70.50 each. 572 inch, \$71.00 each. 576 inch, \$71.50 each. 580 inch, \$72.00 each. 584 inch, \$72.50 each. 588 inch, \$73.00 each. 592 inch, \$73.50 each. 596 inch, \$74.00 each. 600 inch, \$74.50 each. 604 inch, \$75.00 each. 608 inch, \$75.50 each. 612 inch, \$76.00 each. 616 inch, \$76.50 each. 620 inch, \$77.00 each. 624 inch, \$77.50 each. 628 inch, \$78.00 each. 632 inch, \$78.50 each. 636 inch, \$79.00 each. 640 inch, \$79.50 each. 644 inch, \$80.00 each. 648 inch, \$80.50 each. 652 inch, \$81.00 each. 656 inch, \$81.50 each. 660 inch, \$82.00 each. 664 inch, \$82.50 each. 668 inch, \$83.00 each. 672 inch, \$83.50 each. 676 inch, \$84.00 each. 680 inch, \$84.50 each. 684 inch, \$85.00 each. 688 inch, \$85.50 each. 692 inch, \$86.00 each. 696 inch, \$86.50 each. 700 inch, \$87.00 each. 704 inch, \$87.50 each. 708 inch, \$88.00 each. 712 inch, \$88.50 each. 716 inch, \$89.00 each. 720 inch, \$89.50 each. 724 inch, \$90.00 each. 728 inch, \$90.50 each. 732 inch, \$91.00 each. 736 inch, \$91.50 each. 740 inch, \$92.00 each. 744 inch, \$92.50 each. 748 inch, \$93.00 each. 752 inch, \$93.50 each. 756 inch, \$94.00 each. 760 inch, \$94.50 each. 764 inch, \$95.00 each. 768 inch, \$95.50 each. 772 inch, \$96.00 each. 776 inch, \$96.50 each. 780 inch, \$97.00 each. 784 inch, \$97.50 each. 788 inch, \$98.00 each. 792 inch, \$98.50 each. 796 inch, \$99.00 each. 800 inch, \$99.50 each. 804 inch, \$100.00 each. 808 inch, \$100.50 each. 812 inch, \$101.00 each. 816 inch, \$101.50 each. 820 inch, \$102.00 each. 824 inch, \$102.50 each. 828 inch, \$103.00 each. 832 inch, \$103.50 each. 836 inch, \$104.00 each. 840 inch, \$104.50 each. 844 inch, \$105.00 each. 848 inch, \$105.50 each. 852 inch, \$106.00 each. 856 inch, \$106.50 each. 860 inch, \$107.00 each. 864 inch, \$107.50 each. 868 inch, \$108.00 each. 872 inch, \$108.50 each. 876 inch, \$109.00 each. 880 inch, \$109.50 each. 884 inch, \$110.00 each. 888 inch, \$110.50 each. 892 inch, \$111.00 each. 896 inch, \$111.50 each. 900 inch, \$112.00 each. 904 inch, \$112.50 each. 908 inch, \$113.00 each. 912 inch, \$113.50 each. 916 inch, \$114.00 each. 920 inch, \$114.50 each. 924 inch, \$115.00 each. 928 inch, \$115.50 each. 932 inch, \$116.00 each. 936 inch, \$116.50 each. 940 inch, \$117.00 each. 944 inch, \$117.50 each. 948 inch, \$118.00 each. 952 inch, \$118.50 each. 956 inch, \$119.00 each. 960 inch, \$119.50 each. 964 inch, \$120.00 each. 968 inch, \$120.50 each. 972 inch, \$121.00 each. 976 inch, \$121.50 each. 980 inch, \$122.00 each. 984 inch, \$122.50 each. 988 inch, \$123.00 each. 992 inch, \$123.50 each. 996 inch, \$124.00 each. 1000 inch, \$124.50 each.

HILFINGER BROS., Fort Edward, N. Y. or ATOTUS ROLKER & SONS, 106-108 W. 24th St., N. Y. City. When Writing Mention Florists' Exchange

JOHN CONLEY & SON, MANUFACTURERS OF TIN FOIL

2 and 4 Dominick Street, NEW YORK. When Writing Mention Florists' Exchange CHOCOLATE COOLER CO., GRAND RAPIDS, MICH. Manufacturers of

FLORIST'S REFRIGERATORS.

Send for Circular. When Writing Mention Florists' Exchange SHEEP FERTILIZER!

PULVERIZED. COMPRESSED. A Quick Germinator and Crop Fencer. MATERIAL. SODIUM. CLEAN TO HANDLE.

JOHN J. PETERS CO., Long Island City, N. Y.

M. Rice & Co., Importers and Manufacturers of FLORISTS' SUPPLIES.

25 N. 4th St., Philadelphia, Pa. NEW FALL CATALOGUE NOW READY When Writing Mention Florists' Exchange

WELCH BROTHERS, DEALERS IN FLORISTS' SUPPLIES,

15 Province Street, or Chapman Place, BOSTON. Wire Dealers, Wheat, Sheaves, Baskets, Imparticular, Cape Flowers, Cut Flowers, Boxes, and all other supplies, at prices to meet competition

When Writing Mention Florists' Exchange

WELCH BROTHERS MANUFACTURERS OF FLORISTS' WIRE DESIGNS

TELEPHONE 1782 18TH ST. MEYER GREEN SILKLINE.

Need for Stringing, MILLAX and APPARATUS.

SILKLINE MADE IN U.S.A. FF

Will not fade, or be like the other colors. Made also in fancy colors for living purposes. Send for samples and prices JOHN C. MEYER & CO., 201 Broadway Street, BOSTON, MASS., U. S. A. When Writing Mention Florists' Exchange

Boston Florist Letter Co.

PHORIST'S LETTERS. This wooden box is neatly formed and varnished, 18x30 1/2 inch in size, 2 1/2 inch deep. Each box is lettered with name and address of 500 letters. Blue cloth cover. \$5.00. 500 letters. \$5.00. 1000 letters. \$10.00. 2000 letters. \$20.00. 3000 letters. \$30.00. 4000 letters. \$40.00. 5000 letters. \$50.00. 6000 letters. \$60.00. 7000 letters. \$70.00. 8000 letters. \$80.00. 9000 letters. \$90.00. 10000 letters. \$100.00. 11000 letters. \$110.00. 12000 letters. \$120.00. 13000 letters. \$130.00. 14000 letters. \$140.00. 15000 letters. \$150.00. 16000 letters. \$160.00. 17000 letters. \$170.00. 18000 letters. \$180.00. 19000 letters. \$190.00. 20000 letters. \$200.00. 21000 letters. \$210.00. 22000 letters. \$220.00. 23000 letters. \$230.00. 24000 letters. \$240.00. 25000 letters. \$250.00. 26000 letters. \$260.00. 27000 letters. \$270.00. 28000 letters. \$280.00. 29000 letters. \$290.00. 30000 letters. \$300.00. 31000 letters. \$310.00. 32000 letters. \$320.00. 33000 letters. \$330.00. 34000 letters. \$340.00. 35000 letters. \$350.00. 36000 letters. \$360.00. 37000 letters. \$370.00. 38000 letters. \$380.00. 39000 letters. \$390.00. 40000 letters. \$400.00. 41000 letters. \$410.00. 42000 letters. \$420.00. 43000 letters. \$430.00. 44000 letters. \$440.00. 45000 letters. \$450.00. 46000 letters. \$460.00. 47000 letters. \$470.00. 48000 letters. \$480.00. 49000 letters. \$490.00. 50000 letters. \$500.00. 51000 letters. \$510.00. 52000 letters. \$520.00. 53000 letters. \$530.00. 54000 letters. \$540.00. 55000 letters. \$550.00. 56000 letters. \$560.00. 57000 letters. \$570.00. 58000 letters. \$580.00. 59000 letters. \$590.00. 60000 letters. \$600.00. 61000 letters. \$610.00. 62000 letters. \$620.00. 63000 letters. \$630.00. 64000 letters. \$640.00. 65000 letters. \$650.00. 66000 letters. \$660.00. 67000 letters. \$670.00. 68000 letters. \$680.00. 69000 letters. \$690.00. 70000 letters. \$700.00. 71000 letters. \$710.00. 72000 letters. \$720.00. 73000 letters. \$730.00. 74000 letters. \$740.00. 75000 letters. \$750.00. 76000 letters. \$760.00. 77000 letters. \$770.00. 78000 letters. \$780.00. 79000 letters. \$790.00. 80000 letters. \$800.00. 81000 letters. \$810.00. 82000 letters. \$820.00. 83000 letters. \$830.00. 84000 letters. \$840.00. 85000 letters. \$850.00. 86000 letters. \$860.00. 87000 letters. \$870.00. 88000 letters. \$880.00. 89000 letters. \$890.00. 90000 letters. \$900.00. 91000 letters. \$910.00. 92000 letters. \$920.00. 93000 letters. \$930.00. 94000 letters. \$940.00. 95000 letters. \$950.00. 96000 letters. \$960.00. 97000 letters. \$970.00. 98000 letters. \$980.00. 99000 letters. \$990.00. 100000 letters. \$1000.00.

Will not fade, or be like the other colors. Made also in fancy colors for living purposes. Send for samples and prices JOHN C. MEYER & CO., 201 Broadway Street, BOSTON, MASS., U. S. A. When Writing Mention Florists' Exchange

EL PASO BRAND PURE SHEEP MANURE.

ONCE TRIED, ALWAYS USED. Mixed liberally with the soil, nothing can equal it for results on Pinks, Roses, Violets and Chrysanthemums.

Used in liquid form it beats all others. \$2.00 per 100 lbs.; \$3.00 per ton. F. O. B. London. \$50.00 per ton. Car load price on application.

SCHLEGEL & FOTTLER, 26 So. Market St. BOSTON, MASS.

Send for our Import Prices on DUTCH and FRENCH BULBS. When Writing Mention Florists' Exchange

## BUSINESS OPPORTUNITIES

**FOR SALE.** Five greenhouses in New York City, well fitted for business. Present possession retired from business. **Francis Supple, 839 Park Ave., N. Y. City.**

**TO LET.** A place with small house, 2 acres of land with Apparatus beds, etc. Excellent chance for young man to start in business. One understanding horticulture cultivation will make money. Address, **W. M. HASKELL, 604 Madison St., N. Y. City.**

**FOR SALE OR TO RENT.** New green-house 150 ft. long, 12 ft. wide, with room and office; the best house in this section of country; hours from New York; possession given July 1. **W. M. HASKELL, 604 Madison St., N. Y. City.**

**FOR SALE CHEAP.** 15,000 feet of well stocked, concentrated, 12 ft. x 12 ft. story dwelling, 12 rooms, 10 bath, by steam. Good bare and dwelling for rent. Parties business established. 50 cents per foot. Electric cars pass the door. Will health the care further particulars address **B. J. Florists' Exchange.**

## FOR SALE

**Or To Lease.** In Seasons, N. J., 35 minutes to New York, 200 feet from trolley cars, 12 acres good land, containing seven (7) green-houses, a good house, a garage, a well, a good cellar, Hydrant and well water. For particulars inquire of owner.

## FOR SALE

**A Cut Flower Establishment,** consisting of about fifty thousand square feet of glass, with an established custom. A rare chance for an experienced cut flower grower with capital. For further particulars address **Florist 6, care Florists' Exchange.**

## FOR RENT

The well-known greenhouses recently owned and operated by T. H. Spaulding, at Orange, N. J. For all particulars apply to

## AMUND JOHNSEN,

114 West 34th Street, NEW YORK.

## FOR SALE AT BARGAIN.

First-class greenhouse property at Spring Lake, N. J., fully stocked and doing good business. For particulars apply to

## MILAN ROSS, Agency,

Asbury Park, N. J.

## FOR SALE.

**FOR SALE CHEAP.** Extra good second-hand 3 and 4 inch pipe for hot water heating.

## W. H. SALTER, Rochester, N. Y.

## FOR SALE CHEAP.

For Greenhouse, Conservatory, Hot-bed, etc. See also "The Glass House and Main, Point City, Ohio." The Glass House Co., 436 W. Broadway, New York.

## For Sale.

ONE No. 6½ FURMAN STEAM BOILER, IN GOOD CONDITION, USED TWO SEASONS, \$100 f. o. b.

**G. A. GARDNER, - - Wakefield, Mass.**

## Boiler For Sale

Weathered No. 3 in good condition, only two Winters in use; 1300 feet cast iron one inch pipe, with all connections and fittings, also three expansion tanks, cost now \$150.00, will sell for \$85.00 net cash.

**H. SCHUBERT, Little Ferry, N. J.**

When Writing Mention Florists' Exchange

## SITUATIONS WANTED.

**Rate. 10 cents per line (3 words), each insertion.** Cash with order. This rate applies only to situations in Florists' Exchange and is not valid, without display. When letters are addressed to our care and it is not to cover expenses for reading.

**SITUATION wanted** by American man, sober, reliable, experienced grower and as foreman of manure. Address **M. L., care Florists' Exchange.**

**SITUATION wanted.** Young man would like to engage with some one wishing a partner in conducting greenhouse business of plants and material. Best references. Address, **Construction, care of Florists' Exchange.**

**A GOOD practical grower of cut flowers, with long experience in management of large commercial plantations, is now in search of a position of responsibility; is not in date of every respect and can give the best references. Address, Florist 14, 123 Madison Ave., Jersey City, N. J.**

## MISCELLANEOUS WANTS.

**B. K. BARRS, Jacksonville, Fla.,** has opened a Seed Store, and would like Wholesale Catalogues and Price Lists.

## WANTED

Additional capital to increase an established seed and plant business. Investor can furnish finances. Or will join in forming stock company. Long experience. References exchanged.

Address "**B. H.**" care Florists' Exchange.

## WANTED.

A good second-hand Hot Water Heater for greenhouse, capable of heating 500 feet of glass. Also 300-foot of two inch wrought iron pipe. State lowest cash price.

**J. C. care Florists' Exchange.**

## STOCK WANTED

1000 Roses, 2 inch, La France, Malmaison, Meteor, Duchess de Brabant, Sambour Souvenir, Heron, Grand Criton, Banger, 500 Hearty, 3 inch, must be A No. 1 stock. 500 Begonias, Watsonensis, La Noige, La France, Paul Breton. 500 Ferns, 2 inch (no Cuneatum). State best prices you can offer. 500 Hydrangea Okata, 2 inch. 500 Vinca Variegata, 2 inch. 500 Amaryllis (trailing type). 200 Primula obtusa. 100 Begonia, Otto Hacke. 500 Palms, 5 to 8 inch, Latania, Kentia Belmoreana and Forsteriana, Arcaea Latifolia. 35 Arancaria Excelsa, 18 to 24 inch. 25 Pandanus Vetchii, 4 to 7 inch. 25 Peristrophe Angustifolia, 2 inch. 25 Hydrangea La Hoeg, 2 inch. 200 Lycopodium, assorted. 500 Oxalis Origini.

**IRVINE FLORAL CO., Bay City, Mich.**

## HELP WANTED.

## WANTED

An energetic single young man who can grow and make-up. Must come well recommended and be able to handle society and willingness to work as required. A good place and steady employment. Address, **COMMERCIAL, care Florists' Exchange.**

## WANTED

An experienced grower and plantman, must be posted in all greenhouse work; desirous, propable to ability, honest, society, and willingness to work as required. Also want one single man, with references and addresses. Address, same place, must be good on design work, putting, etc. Address, **WM. A. ROCK, No. Cambridge, Mass.**

When Answering an Advertisement kindly state you saw it in

## THE FLORIST'S EXCHANGE.

This personal request we make under every advertisement we print, and by complying with it you will greatly help this paper, and as well give the advertiser the satisfaction of knowing where his advertisement was seen.

## St. Louis.

**Shaw Gardens.** About 10,000 people visited Shaw Gardens last Sunday, notwithstanding the drizzling rain which prevailed during the day, and private parties, at intervals fell in showers.

By the terms of Mr. Shaw's will the garden will be sold at private sale on Sunday only twice a year—the first Sunday in June and September.

The weather, probably the condition, considering the ravages of the cyclone a year ago. Many trees were closely injured, so, that at present the rearrangement of the flower beds necessary. This interfered somewhat with the general work of the garden, which in consequence is a little backward. The principal interest centered in the new Victoria Regia.

The Lindell Hotel has made elaborate preparation for the entertainment of the National Association of Nurserymen, who will meet in annual session here June 9 and 10. Secretary George C. Sargent Rochester, N. Y., arrived on Monday and President Silas Wilson, of Atlantic City, N. J., on Tuesday.

The first morning session will commence at 11 o'clock and will be presided over by Melior Ziegenhein and N. J. Coleman. President Wilson will respond and deliver his annual address.

The election of officers and selection of the next places of meeting and reports of committees will be the order of business Wednesday afternoon. On Thursday papers will be read and discussed. The association will meet at the rooms of the St. Louis Florists' Club Thursday afternoon. The rooms of the club are handsomely decorated for the occasion and many growers will exhibit cut flowers.

Trade remains as inactive as ever and traffic is restricted to uncommonly few buyers. Stock of every description is plentiful and most of it is of poor quality. Prices have fallen since the 1st of June from \$4 per 100 for fancy selection down to 50 cents per 100 for poor stock; Mauds are 15 cents per 100. White roses are \$1.50 per 100 in the order named; white roses grade as much as ever. Beauty is in fine demand, but prices are down to 75 cent per 100.

Carnations of good quality meet with the best sale at 15 cents per 100. The grades fall to sell clean at 50 cents per 100. Stock continues in greatest quantity and in the best demand. Primulas continue in good demand at \$2 to \$4 per 100; sweet peas are not as abundant as last week and sell clean at 25 cents per 100; smilax is now abundant and has poor sale at \$10 per 100.

**In Town.** F. J. E. Kilen, representing C. H. Joosten, is a visitor here attending the nurserymen's convention.

Pat Florist James tied his horse to the wheel of a vehicle standing near the cottage at Forest Park last Thursday morning, and the horse was killed, which both vehicles were wrecked and the horses injured. Mr. Pape will try the hitching post.

**CHAS. G. FLOCKENSTEIN.**

## Toronto.

The June meeting of the Horticultural Society was the best attended one we have held yet, the room was crowded with amateur, mostly ladies. The principal subject of the evening was window boxes and hanging plants. There were several exhibits of boxes and hanging baskets and many questions were asked by different members. The meeting was informal and friendly and many of our visitors were encouraged to express their intention of coming again. The directors have decided to offer prizes to members who will put the most plants in the care of the Gardeners and Florists' Club this fall if satisfactory arrangements can be made with that body.

**State of Trade.** Business in bedding plants is now

very good, but as the season is a late one some of the boys are getting scared and have already put a good deal of stock on some of the stock; but I think that spring trade will be quite up to the average very fine and growing very well, excepting in low-lying places, which are a little too wet on account of the plentiful rain lately.

**THOS. MANTON.**

## Cleveland.

**Trade Falls Off.** Trade has had a decided falling off since last writing. At the stock cut-flower trade is very quiet. Several large weddings, receptions and commencing parties have occurred within the past week, however, and most of the first-class stock on the market was closely upped, so, that at present almost all sales are on consignment.

**Weather Affects Plant Trade.** In the plant trade has been affected considerably by the weather; most growers report good stock and good work. Considerable planting out has been done in the city parks, and this work of driving and planting will continue, and it is not likely that much planting out will be done in these parks this season.

**A Large Wedding Decoration.** One of the most extensive decorations in several months was that of the Haystack Hotel, on Wednesday, the 1st day last. The work was done by J. M. Gasser. The table pieces consisted principally of red and white carnations, in which were arranged hundreds of tiny incandescent lights, producing a grand effect.

**Settling.** F. C. Bartels, representing J. M. Gasser's greenhouses, leaves next week for an extended trip through Europe. Mr. W. C. Langbridge, representing J. B. Rios & Co., Cambridge, N. Y., is a caller this week.

**Fine Smilax.** \$15.00 a hundred strings SWEET PEAS, 30 cents a hundred boxes. Cash on order please.

**W. KEIR, Piquetteville, Md.** When Writing Mention Florists' Exchange

**DAISIES** 45.00 a hundred strings \$1.00 per 100; \$1.00 per 100. **PANSIES** 45.00 a hundred strings \$1.00 per 100; \$1.00 per 100. **W. KEIR, Piquetteville, Md.** When Writing Mention Florists' Exchange

**ASTER PLANTS** Simple's Branch-Market, Perfection, and Combs, 40 cents by express. **J. C. SCHMIDT & Co., Bristol, Pa.** When Writing Mention Florists' Exchange

**FOR SALE CHEAP**

1 Latania Borbonica, 6 feet high. 2 Dicksonia Antiaris, 4 feet high. 2 Pracaena Brasiliensis, 2 feet high. 1 Rubber Tree, 5 feet high. 200 Begonia, 4 inch, 25 cents each. healthy stock. **H. W. HALES, Ridgewood, N. J.** When Writing Mention Florists' Exchange

**GOOD STOCK OF**

**BEDDING PLANTS** AT ROCK BOTTOM PRICES.

Achyranthus, assorted, ..... 24¢ ..... 20 00  
Alyssum, red and yellow, ..... 25 00  
Begonia, S. Alba and Veron, splendid bedding varieties, bloom all season, ..... 25¢ ..... 2 00  
Coteus, Verobacillifolia and others, assorted, ..... 25 00  
200 Lobelia, 2 inch, (imm.) ..... 2 00  
Lobelia, best dwarf, blue, ..... 2 00

**W. H. HALE, Ridgewood, N. J.,** and E. Pittsburg, Pa. When Writing Mention Florists' Exchange



## Providence.

## State of Trade.

Business generally has been very satisfactory during the past few weeks. This, however, will be owing to the demand for funeral, school and wedding work rather than to a general demand. Funeral work has been unusually brisk, many large pieces being called for, and as regards weddings, there have never been so many as at present, notwithstanding the hard times. Carnations are very abundant and roses fairly good, these two flowers forming the bulk of the supply. What this market needs as much as anything is a larger variety to select from. Fotted stock on the whole sold well this spring. E. J. Johnson reports good trade on these goods, with good prices and good demand.

The first gladiolus in this market showed their appearance Monday from the Rhode Island greenhouses and were very fine.

## Preparing for Convention.

The local club is actively engaged in their preparations for the coming convention. They have their plans well formulated and sub-committees are holding frequent meetings and making arrangements to carry them to perfection. These plans are not as yet perfected to such a degree as to warrant their being made public, but will be shortly. One thing is certain, however, that the Rhode Island Horticultural Society will not be traduced by the Florists and Gardeners' Club of Rhode Island. A club of local growers are daily practicing and will make some of the visiting clubs hustle. An effort is being put forth to have some suitable flower growths arranged at Roger Williams Park for this occasion, and the project is favorably thought of by Superintendent Pitts.

## Notes.

On the 15th of this month a lawn festival will be held by President and Mrs. Farquhar Macrae at their spacious grounds on Smith Street in favor of the summer.

J. F. Parks & Co. have given up their retail store at 140 Westminster Street for the summer.

Johnston Brothers have discontinued their branch store at 167 Westbosset Street.

Timothy O'Connor is adding considerable glass to his already large greenhouse plant.

William Hay is increasing his glass area in Arlington. He is bringing the best roses to the local market.

Alex. McClellan, of Newport; George T. King, of Boston, and William J. Stewart, of Boston, were visitors in town recently.

## State Flower.

During the spring term of the public schools of this State the pupils were held by ballot for a State flower of Rhode Island. The ballot was in favor of the violet. A total of 42,202 votes were cast, divided as follows: violet, 10,613; rose, 7,183; pansy, 5,275; pink, 4,873; arbutus, 4,317; golden rod, 3,248; white lily, 3,048; lily, 1,748; daisy, 1,630; buttercup, 1,301. W. H. MASON.

## Stamford, Conn.

Mrs. M. A. Free & Daughters did both the church and house decorations for the Descott-Tilly wedding at Darien.

## Amsterdam, N. Y.

Jay Lingenfelter has suffered a stroke of paralysis and his condition is critical.

## A Word on Drainage.

There is very little land in this country that may not be materially improved by the draining. Much land that is naturally wet is slow to dry out in the spring. The tile it will advance the season two weeks and often more than that. Land so improved by the admission of air, and there is no better way of admitting it than by the underdrain which, when it has carried off all surplus water, carries back to the earth a current of warm air—ideal for a tenant for a cold climate. Henry F. French, in his admirable work on "Farm Drainage," says: "The simplest, cheapest and best form of drain-tile is the cylinder, or merely a tube, round outside, and with a round bore."

## Simplicity in Greenhouse Construction.

During our long experience we have not only made many improvements in greenhouses, but we have so simplified the construction that building a greenhouse is no longer a matter so full of complications as to tax the patience and the ingenuity of even the most intelligent mechanic. Our

## Clear Cypress Building Material

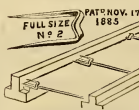
is worked out in the best manner ready to be put up, and we furnish our customers such complete detail drawings that any workman of only ordinary capabilities can put it up correctly.

Write for Circulars  
or Estimates.

Lockland Lumber Co.,

LOCKLAND, OHIO.

When Writing Mention Florists' Exchange

THE VAN REYPER  
PERFECT GLAZIERS' POINTS

No rights or lefts. Price per box of 1000, 60c. by mail, 75c.; in lots of 5000 or by ex., 55c. per 1000

HENRY A. DREER, 714 Chestnut St., Phila., Pa.

When Writing Mention Florists' Exchange

**GREENHOUSE GLASS.**  
THE WOOD GLASS COMPANY  
226 N. SALINA ST. SYRACUSE, N. Y.

## A GOOD GREENHOUSE HOSE

We are having a hose manufactured from the best material in the market that will give satisfaction to all who try it. We can furnish in 25 ft., 40 ft. and 50 ft. lengths, at 18 cts. per foot with connections complete. References required from unknown parties.

Address J. G. & A. ESLER, Saddle River, N. J.

When Writing Mention Florists' Exchange



The TWIN COMET Stationary \$5.00

The LITTLE GIANT (Traveler) \$6.00

**LAWN SPRINKLERS.**

Best sprinklers made for Florists and Nurserymen's use. Will save labor of one man for their sprinkling a time greater area than any other brand.

E. STEBBINS MFG. CO.

Made for J. B. FELLOWS & CO., SPRINGFIELD, MASS.  
40 Warren St., N. Y. City. Will send on 5 days' trial Agents Wanted. Can make big money.

When Writing Mention Florists' Exchange

## MATS

For Hotbeds or Frames, made from green gut, sun cured, and sewed in straw, tied with marine. Specify sizes, quantity, and when to be delivered. Enclose stamped envelope, addressed, for estimate. This will appear but once.

J. B. HEDGES, Bridgehampton, L. I., N. Y.

When Writing Mention Florists' Exchange

**CYPRESS**  
IS MUCH MORE DURABLE THAN PINE.  
**CYPRESS SASH BARS**  
UP TO 2 1/2 FEET IN LENGTH & LONGER.  
**GREENHOUSE**  
AND OTHER BUILDING MATERIALS.  
Send for our Illustrated Book  
"CYPRESS LUMBER AND ITS USES."  
Send for our Special Greenhouse Circular.  
THE A. T. STEARNS LUMBER CO.  
Newspaper, Boston, Mass.

When Writing Mention Florists' Exchange

**CYPRESS**  
GREENHOUSE MATERIALS  
ANY DESCRIPTION  
**JOHN C. MONINGER Co.**  
412 to 422  
HAWTHORNE AV.  
CHICAGO, ILL.

When Writing Mention Florists' Exchange

Chadborn's Automatic Ventilator  
**CHADBORN, KENNEDY & CO.**  
NEWBURGH, N. Y.  
When Writing Mention Florists' Exchange

**VALVES, FITTINGS AND VENTILATING APPARATUS.**  
**COLDWELL-WILCOX CO.,**  
Newburgh, N. Y.  
Mention paper.

## SUMMER IN WINTER

By Using  
**Standard Greenhouse Boilers**

One cent gets our Catalogue.  
**GIBLIN & CO., - Utica, N. Y.**  
When Writing Mention Florists' Exchange

**Evans Improved Challenge.**  
Roller bearing, self-oiling device, automatic stop, solid link chain, make the IMPROVED CHALLENGE the most perfect apparatus in the market.  
Write for catalogue and price before placing your order elsewhere.  
**Quaker City Machine Co.,**  
BIRMINGHAM, IND.  
When Writing Mention Florists' Exchange

IF YOU WANT  
**A GOOD SASH LIFT**  
For a Very Little Money Get

**THE 'NEW DEPARTURE' VENTILATING APPLIANCE.**

For Descriptive Catalogue Send to  
**J. D. CARMODY, Evansville, Ind.**  
When Writing Mention Florists' Exchange

**SCOLLAY'S IMPROVED PUTTY BULB**

For Glazing Sash, Etc.,  
**PATENT PLANT SPRINKLER**

For sale by your Seedsmen or sent, postpaid for \$1.00.  
**JOHN A. SCOLLAY,**  
74 & 76 Merritt Ave.,  
BROOKLYN, N. Y.

SEND STAMP FOR CATALOGUE.  
When Writing Mention Florists' Exchange

## IMPROVED GLAZING.

**J. M. GASSER'S PATENT ZINC JOINTS**

For Butting Glass Without Laps.  
Makes a Roof Air and Water Tight. Saves Fuel. No Breakers from Frost or Medium Sized Hail. Manufactured by

**J. M. GASSER,**  
101 Euclid Avenue, CLEVELAND, OHIO.  
Wholesale and Retail Floral.

Write for Prices and Circulars.  
When Writing Mention Florists' Exchange

**LORD & BURNHAM CO.,**

**HORTICULTURAL ARCHITECTS AND BUILDERS,**  
STEAM AND HOT WATER HEATING ENGINEERS.

Plans and Estimates furnished on application.

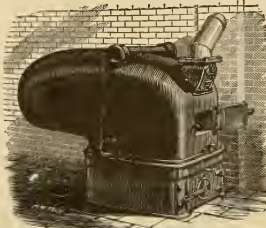


Largest Builders of Greenhouse Structures. Six Highest Awards at the World's Fair. Book four cents postage for Illustrated Catalogue.

**LORD & BURNHAM CO.,**

ARCHITECTURAL OFFICE, 160 FIFTH AVE., COR. 21st STREET, NEW YORK.  
FACTORY: Irvington-on-Hudson, New York. Mention paper.

**GREENHOUSE HEATING AND VENTILATING,**  
Horticultural Architecture and Building.



Mention paper.

SEND 4c. POSTAGE FOR ILLUSTRATED CATALOGUE.

**Hitchings & Co**

ESTABLISHED 1844.

233 Mercer Street, NEW YORK

**FIVE PATTERNS OF BOILERS.**  
NINETEEN SIZES.

Perfect Sash Raising Apparatus.  
Rooftops, Greenhouses, Etc., of Iron  
Frame Construction erected complete  
or the Structural Iron Work ship-  
ped ready for erection.

Iron Frame Benches with the  
"Perfect Drainage Bench Tile"  
or Slate Tops.

JOHN H. JACKSON, Successor to JACKSON BROS.  
NEW YORK STATE BENT TILE and  
**ROUND TILE**

Established 1852  
has done, in thirty years, many  
Manufacture of and Dealer in Agricultural Drain Pipe, Salt-  
Glazed Sewer Pipe, Red Fireproof Brick, Mortar Colors, Fire  
Brick, Oven Tile, Chimney and Flue Lining, Chimney Tops,  
Fire Clay, Kettle, Excavator, Hollow  
Tile, Rosendale and Portland Cement, Lime, Plaster, etc.

**MASTICA**

FOR GLAZING GREENHOUSES. SUPERIOR TO PUTTY IN EVERY WAY.

Is not hardened by the extreme heat or cold that a greenhouse is constantly subjected to both inside and out. Mastica is adhesive and remains permanently elastic so that it is not forced out of place by expanding and contracting of the woodwork. Houses glazed with Mastica do not need re-glazing, thus saving time and expense. With Mastica can "bed-in" or use on the outside, but with a machine only.

Highest Award of Society of American Florists at Pittsburg, 1895.

Put up in gallons, \$1.00. Half gallons, 60 cts. Quarter gallons, 35 cts.

Mastical Glazing Machines, \$1.00 each.

Send for full descriptive circular and testimonials. Agents in all the principal cities.

**F. O. PIERCE CO.,** Sole Manufacturers, 170 Fulton St., New York.

**PIPE VALVES**

Wrought Iron Pipe, Valves, Gears, Fil-  
lings, Etc., for Steam and Hot Water;  
Rubber Hoses, Pumps and Well Points.  
**WM. H. KAY, 42 Day St., New York.**

When Writing Mention Florists' Exchange

**GLASS**

FOR GREENHOUSES, CONSERVATORIES, GRAPERIES, HOTBEDS AND  
FLORISTS' USE GENERALLY, AT LOWEST RATES.

**L. HARRIS & SON,**

497 W. BROADWAY, NEW YORK, 89 LIBERTY ST., NEW YORK  
Bldg. Builders and Brickers, Etc.

When Writing Mention Florists' Exchange

**GLASS! GLASS!**

For Greenhouses, Conservatories,  
Graperies, Hotbeds and all other  
purposes, at Lowest Rates.  
**N. COWEN'S SON 392 & 394 West Broadway, New York.**  
Formerly 154 and 156 So. Fifth Avenue.

Get our Figures before buying Glass. Estimates Freely Given.

When Writing Mention Florists' Exchange

**CALIFORNIA RED CEDAR**

Never Decays.

**A. DIETSCH & CO. 619 Sheffield Avenue, CHICAGO.**

RED CEDAR AND CYPRESS GREENHOUSE MATERIAL.

When Writing Mention Florists' Exchange

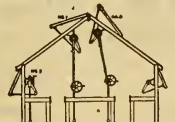
**The New Automatic Cable Ventilator**

As it is put up to the house complete. We also give you prices with a guarantee that each machine sent out will operate your house successfully. Sell machines now made to two sizes.  
**A. Q. WOLF & BRO., Dayton, Ohio.**

When Writing Mention Florists' Exchange

**STANDARD VENTILATING MACHINE.**

**EQUAL IT**  
IN  
**Strength**  
AND  
**Durability**



**NOTHING**  
**Fimsy**  
OR  
**Complicated**  
about it.

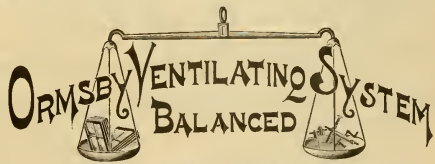
**E. HIPPARD, YOUNGSTOWN, OHIO.**

When Writing Mention Florists' Exchange

**TRADE GREENHOUSES.**  
THE BEST MADE.

"Florists" Get Your Plans and Estimate from  
**PLENTY'S HORTICULTURAL WORKS,**  
148-156 Randolph Ave., JERSEY CITY, N. J.  
When Writing Mention Florists' Exchange

**Special Advantages Gained by Using**



Allows you from 1/2 of an inch or more of ventilation the entire length of your house.

As it opens thus evenly your ventilators are not wrenched and strained, and your glass remains unbroken.

The Ventilators being thoroughly **BALANCED** the power is divided over the entire length of your house, thus the far off end starts as soon as the nigh end.

Don't forget that you gain speed in opening and closing your house. You have the lightest and neatest machine and casts the least shadow.

**WHAT MORE DO YOU WANT?**

**E. A. ORMSBY, Melrose, Mass.**





**LARGEST AND BEST STOCK OF  
PREPARED CYCAS LEAVES**

TO BE FOUND ANYWHERE

Metal Floral Designs, Sheaves, Doves, Baskets, Moss Wreaths, Wheat, Milkweeds, Cape Flowers, Wire Work, and all Florists' Supplies.

Write for catalogue. Free to the trade.

**A. HERRMANN, 404-412 East 34th Street (Near Ferry), New York,**

Manufacturer of METAL FLORAL DESIGNS, Importer and Dealer in FLORISTS' SUPPLIES.  
When Writing Mention Florists' Exchange

**STRAWBERRY PLANTS  
POT-GROWN.**

Parties desiring catalogues with their name and address should write us at once. Price \$7.00 per 1000. Orders received now for potted plants, ready July 1st.

**ELIZABETH NURSERY COMPANY, Elizabeth, N. J.**

When Writing Mention Florists' Exchange

**BASKETS . . . FOR . . .  
COMMENCEMENTS**

A large assortment of all the most popular shapes and sizes.

**WHEAT SHEAVES** of extra quality, strictly pure white. Prices on application.  
**CAPE FLOWERS.** Extra quality, strictly pure white. Prices on application.

**CYCAS LEAVES** in all sizes.

SEND FOR OUR ILLUSTRATED WHOLESALE CATALOGUE.

**H. BAYERSDORFER & CO., 56 N. Fourth St., PHILADELPHIA, PA.**

When Writing Mention Florists' Exchange

**STORRS & HARRISON CO., Painesville, Ohio, . . .**  
Wholesale Nurserymen and Florists,

When Writing Mention Florists' Exchange

**2 cts.—GERANIUMS—2 cts.**

Good strong plants of the best double varieties, S. A. Mill, B. Wood, Gen. Grant, White Swan and others, out of 3 inch pots, \$2.00 per 100.

**CHRYSANTHEMUMS** Strong, healthy plants, \$2.00 per 100. Very M. Wauwamin, Venus, Queen, Hon. Gen. Sherman, Jersey and others, rooted cuttings, no selection, \$1.00 per 100.

**Geo. H. Benedict, Yorkville, N. Y.**  
When Writing Mention Florists' Exchange

**ALTERNANTHERA.**

A. AMABILIS and A. NANA. (red and green) good strong plants, \$2.00 per 100; \$1.00 per 500. Cash with order. **C. H. ASH, T. DARLING, Steady Brook, L. I., N. Y.**

When Writing Mention Florists' Exchange

**Pansies Worth Raising . . .**

Blooming plants or plants in bud, from \$10.00 per 1000 up. Full value given in every case. Cash with order. All shipments from on board of express here.

**C. Soltan & Co., 199 Grant Jersey City, N. J.**  
When Writing Mention Florists' Exchange

**CYCAS LEAVES AND FUNERAL SHEAVES  
BASKETS AND SUPPLIES,  
SEEDS AND SPRING BULBS.**  
At wholesale only; apply for lists. Address  
**AUGUST ROLKER & SONS, NEW YORK,**  
136 and 138 West 24th Street. P. O. Station E.

**ASPARAGUS PLUMOSUS NANUS,** Cut Strigs, 10 to 12 feet long, 80 cts. each. Shipped to any part of the country.  
**W. H. ELLIOTT, Brighton, Mass.**

**PEACH AND PLUM TREES FOR FALL DELIVERY 1892.**

Reliable and clean stock at low wholesale rates. All desirable leading varieties of PEACHES, old and new, in fruiting orchards. Have the new Triumph, Green-horn, and Sueded fruiting. Stock can be supplied in season at low rates. Very large stock of PLUM TREES all on plum roots, old and new years. Buds can be supplied of these also, either from nurseries or orchard trees. Have all the leading Japanese varieties. Abundant, Burbank, Chabot, Satsuma, Willard and others; also the new Red June and Watson in season to offer. Usual supply also of Asparagus Roots to offer.

**ALEXANDER PULLEN, Millard Nurseries, Millard, Del.**  
When Writing Mention Florists' Exchange

**CHRYSANTHEMUMS** All the best standard and varieties from pots, \$2.00 per 100. Mrs. H. Robinson, \$1.00 per 100.

**VIOLETS** California, Marie Louis, single 100, Lady H. Campbell, cluster, \$1.00 per 100.

**MOONVINES** A fine lot, 3 in. pots, \$4.00 per 100.

**AMPELOPSIS VEITCHII** 3 inch pots, \$5.00 per 100.  
**C. EISELE, 11th & Jefferson Streets, Philadelphia, Pa.**  
When Writing Mention Florists' Exchange

**GRAND AUCTION SALE OF ORCHIDS**

THE ENTIRE COLLECTION OF

**PITCHER & MANDA,**

Embracing many choice varieties which cannot be purchased anywhere else in this country, also Tree Ferns, Heaths, Imantophyllums, Hydrangeas, Sweet Bays, Variegated Hollies, and Miscellaneous Foliage Plants; will be

**SOLD AT AUCTION WITHOUT RESERVE**

ON THE PREMISES AT

**SHORT HILLS, NEW JERSEY,**

**On Wednesday, June 16, and Thursday, June 17,**

COMMENCING EACH DAY AT 11 A. M.

Trains leave foot of Barclay Street and foot of Christopher Street, New York, at 8.30, 8.50 and 10.10 A. M. By special arrangement with the Railroad Company the express train leaving 8.50 will stop at Short Hills on each day of the sale. Any customer desiring lots of the second day's sale "put up" on the first day, will be accommodated.

**GLEARY & CO., Auctioneers, 60 Vesey Street, New York City.**

**JOHN N. MAY, Receiver.**

When Writing Mention Florists' Exchange

# THE FLORISTS' EXCHANGE

We are a straight shoot and aim to grow into a vigorous plant.

A WEEKLY MEDIUM OF INTERCHANGE FOR FLORISTS, NURSERYMEN, SEEDSMEN AND THE TRADE IN GENERAL.

VOL. IX. NO. 25.

NEW YORK, JUNE 19, 1897.

One Dollar Per Year.

## ..PALMS..

### ARECA LUTESCENS.

4 inch pots, 15-18 inches high, 3 plants in a pot.....\$4.50 per dozen; \$35.00 per 100  
 6 inch pots, 23-24 inches high, 3 plants in a pot.....\$6.00 per dozen; \$50.00 per 100  
 8 inch pots, 31-32 inches high, 3 plants in a pot.....\$12.00 per dozen; \$100.00 per 100

### COCOS WEDDELIANA.

3 inch pots.....\$3.00 per dozen; \$25.00 per 100

### KENTIA BELMOREANA.

3 inch pots, 8-12 inches high, 4-5 leaves.....\$3.00 per dozen; \$25.00 per 100  
 4 inch pots, 12-15 inches high, 4-6 leaves.....\$5.00 per dozen; \$40.00 per 100  
 6 inch pots, 18-21 inches high, 5-7 leaves, stocky.....\$8.00 per dozen; \$75.00 per 100  
 8 inch pots, 23-24 inches high, 5-7 leaves, stocky.....\$12.00 per dozen; \$100.00 per 100

### KENTIA FORSTERIANA.

3 inch pots, 12-15 inches high.....\$15.00 per 100  
 4 inch pots, 15-18 inches high.....\$4.50 per dozen; \$35.00 per 100

### LATANIA BORBONICA.

2 inch pots.....\$3.00 per 100; \$25.00 per 1000  
 3 inch pots.....\$4.00 per 100; \$30.00 per 1000  
 4 inch pots, 12-15 inches high.....\$3.00 per dozen; \$25.00 per 100  
 6 inch pots, 18-21 inches high.....\$8.00 per dozen; \$75.00 per 100  
 8 inch pots, 23-24 inches high, stocky plants.....\$9.00 per dozen; \$85.00 per 100

### LIVISTONA HOOGENDORPII.

4 inch pots, 10-12 inches high, 7 leaves.....\$4.50 per dozen; \$35.00 per 100

### LIVISTONA ROTUNDFOLIA.

5 inch pots, 12-15 inches high, 7-8 leaves, strong plants.....\$1.50 each; \$18.00 per dozen

### PHENIX RECLINATA.

5 inch pots, 15-18 inches high.....\$6.00 per dozen; \$45.00 per 100

## PITCHER & MANDA, Short Hills, N. J.

JOHN N. MAY, Receiver.

When Writing Mention Florists' Exchange

## WINTER FLOWERING ROSES.

Our stock of these is very large, and is exceptionally fine shape. We offer all the leading varieties, strong plants in 3 1/2 in. pots, as follows:

**PERLE, BRIDESMAID, BRIDE and MME. CUSIN,**.....\$3.00 per 100; \$40.00 per 1000.  
**MME. CAROLINE TESTOUT and MRS. PIERPONT MORCAN,**.....\$5.00 per 100; \$50.00 per 1000.  
**AMERICAN BEAUTY,**.....\$9.00 per 100; \$80.00 per 1000.  
**PRESIDENT CARNOT,**.....\$15.00 per 100; \$125.00 per 1000.

We have a fine stock, also, of the new climbing

### YELLOW RAMBLER ROSE

The only hardy yellow climbing rose yet introduced. A worthy companion to the wonderful Crimson Rambler.  
 Strong plants, 2 1/2 in. pots, \$1.50 per doz.; \$18.00 per 100.  
 Strong plants, 3 1/2 in. pots, \$3.00 per doz.; \$20.00 per 100.



The above Rose Stock is in perfect shape and will please the most fastidious. Samples sent if desired. We invite inspection of stock.

In order to close out stock we have left

## DOUBLE TUBEROUS BEGONIAS

we offer our hand stock as double as unsold at \$3.00 per 100; \$25.00 per 1000.

This is only the price of ordinary Single Begonias, and considerably below cost. We offer at the nominal price only in order to close out stock we have left.

We have a sur- **TUBEROUS PEARL** perfect shape, 50c per 100; \$4.00 per 1000; plus, also, of **SPEAK QUICK IF YOU WANT THESE BARAINS.**

Our Wholesale List of Palms, Decorative Plants, etc., will be sent free on application.

## F. R. PIERSON CO.,

TARRYTOWN-ON-HUDSON, NEW YORK.

When Writing Mention Florists' Exchange

## J. M. THORBURN & CO.

ESTABLISHED 1802.

We have just received a fresh lot of **ARECA LUTESCENS SEED** which we offer, so long as unsold, at \$1.00 per 100 seeds; \$8.00 per 1000 seeds. Lots of 6000 and over at special price.

We are now ready to quote special prices on **BULBS** to large growers and dealers.

## J. M. THORBURN & CO.

### HIGH CLASS SEEDS AND BULBS,

15 John Street, New York.

When Writing Mention Florists' Exchange

## FORCING BULBS. Special Import Price List Ready.

**CANNAS:** Burbank, 75c. Italia, 40c.  
 Yellow Crozy, \$1.50, Austria, 20c.

All Standard and New at Market Price.

**ROSES FOR FORCING.** Brides, Perles, Maids, etc. First class. Let us quote your list.

### SEASONABLE FLOWER SEEDS.

**CINERARIA** Hybrid, heat flowering, mixed.....500 seeds, 25 cts.  
 Large flowering, dwarf mixed.....per trade pkt., 25 cts.  
 Double, extra choice mixed.....per trade pkt., 50 cts.  
 James' Giant, a very fine English strain.....pkts., 50 cts.  
**VAUGHAN'S COLEMBIAN MIXTURE**.....1000 seeds, 50 cts.  
**CYCLAMEN**, Giant Flowered, Mixed.....1000 seeds, \$1.00; 15 cts.; \$2.00; 100 seeds, 50 cts.

### PRIMULA SINENSIS-VAUGHAN'S INTERNATIONAL MIXTURE.

This mixture is composed of the most desirable colors of Single Flowering Chinese Primulas, the best white shades, pinks and reds, with a sprinkling of other colors, enough to give a large variety of colors, the most important shades predominating.  
 Pkts., 50 seeds, 50c.; 5 pkts., 1750 seeds, \$3.00; per 1-10 oz., \$3.50.

### PRIMULA-SEPARATE COLORS.

Chiswick Kid, brightest red, 250 seeds.....50 cts.  
 Kerawia Splendens, crimson.....50 cts.  
 Albe Magnifica, snow white.....50 cts.  
 Peach Hosiery, a beautiful white with pink hue.....50 cts.  
 Blue, a clear sky blue.....50 cts.  
 Rosea, bright pink.....50 cts.  
 Strata, white lilac striped.....50 cts.  
 Fern-leaved, fine mixed.....35 cts.

### PRIMULAS-DOUBLE SEPARATE COLORS. Pure White, Pink, Bright Red,

Striped, each, 100 seeds.....50 cts.  
 Double mixed.....500 seeds, \$1.50; 100 seeds, 50 cts.

## GREENHOUSES, VAUGHAN'S SEED STORE 84 & 86 Randolph St. Western Springs, Ill. CHICAGO.

When Writing Mention Florists' Exchange

## SEASONABLE SEEDS!



## PRIMULA FIMBRIATA

(Chinese Primrose).  
Rubra (Red), Alba (White), Alba Magnifica, Rubra Violacea, Chiswick Red, Meteor, Village Maid or Choice Mixed.  
Trade Packages, 50c. and \$1.00.

## CINERARIA

Hybrida Grandiflora choice mixed, Extra Fine Dwarf Mixed, Grandiflora Kerneola, Dbl. Flowering.  
Trade Packages, 50c. and \$1.00.

## CALECOLARIA

Hybrida Grandiflora, choice mixed, Trade Packages, 50c. and \$1.00.

WM. ELLIOTT & SONS  
NEW YORK.

When Writing Mention Florists' Exchange

## PALM

Seed. FRESH ON HAND

	Per 100	1000	5000
Kentia Heliconiana	..	\$1.25	\$10.00 \$27.50
Caroliniana	..	1.50	12.50 32.50
Pandanus Wilfordii	..	1.50	12.50 32.50
Asperagium plumosum	..	1.50	12.50 32.50

All Changeable, Phœnix and many other varieties now in stock.

J. L. SCHILLER, Rutherford, N. J.  
When Writing Mention Florists' Exchange

Prize-Winning  
DAHLIAS  
AN UNPRECEDENTED RECORD.

23 First Prizes, Certificate of Merit, 2 Diplomas, and highest mention everywhere. If you want the very best Dahlias that bloom, send us our 1887 descriptive trade list now ready. Address

W. P. PEACOCK,  
Dahlia Specialist, ATCO, N. J.  
When Writing Mention Florists' Exchange

P. OUWERKERK,  
(123 Summit Ave., Jersey City, N. J.)

Just received from our Holland Nurseries:

RHOODEODRONS, AZALEAS,  
SPIRÆA JAPONICA, LILIUUM SPECIOSUM,  
PÆONIES, BLEEDING HEART,  
POT GROWN LILACS, HYDRANGEA IN SORTS.  
CLEMATIS and H. P. ROSES, in the best sort

PRICES MODERATE.

When Writing Mention Florists' Exchange

ROEMER'S SUPERB PRIZE PANSIES.  
The finest strain of Pansies in the World.  
Introducer and Grower of all the leading Novelties  
Highest Award, International Exhibition,  
Hamburg, 1874. (Also free on application.)  
FRED. ROEMER, Seed Grower,  
Quedlinburg, Germany.

When Writing Mention Florists' Exchange

SUMMER FLOWERING  
BULBS.

GHAS. H. ALLEN, Floral Park, N. Y.  
When Writing Mention Florists' Exchange

## Fresh Seeds—Calla Bulbs.

Apple Geranium (Tree), 25 cts. pkr.; \$1.00 per 1000 seeds; \$7.50 per 10,000 seeds.  
Musa Zanesei. 75 cts. per 100 seeds; \$6.00 per 1000 seeds.  
Scarfioria Elegans, 40 cts. per 100 seeds; \$5.00 per 1000 seeds.  
Cyperus Alternifolius, 25 cts. per pkr.; \$1.50 per doz.  
Phloxim Tenax, 25 cts. per 100 seeds; \$1.00 per 1000 seeds.  
F. TENAX Vegetaria, 50 cts. per 100 seeds; \$2.00 per 1000 seeds.  
Asophylla Australis (Tree Fern), 50 cts. 5 doz.  
Send for prices on Callia Lilies, August and September delivery. Send for Trade List of Novelties and Specialties for Autumn delivery.

MRS. THEODOSIA B. SHEPHERD  
Ventura-by-the-Sea, Cal.  
When Writing Mention Florists' Exchange

PRICES ON  
BULBS, ROOTS, and DECORATIVE PLANTS,  
For Fall Delivery, Now Ready. Send for Catalogue.  
F. W. O. SCHMITZ, JERSEY CITY, N. J.  
When Writing Mention Florists' Exchange

## PRIMULA SINESIS SEED

The Wm. Scott strain (grown by Wm. Scott, Buffalo), includes: Our "GREAT SCOTT MIXTURE," from assortment of 10 varieties. Also 4 SEPARATE COLORS, Single White, Pink, Red and Double Red.  
Sold only in sealed Trade Packets, at each, 60 cts. Liberal reductions on larger orders as per Free Priced Circular List, for which apply to Sales Agent.

DAN'L B. LONG, Buffalo, N. Y.  
When Writing Mention Florists' Exchange

## QUEEN — CALIAS

From 4 inch pots, at \$6.00 per 100.  
ALPHONSE BOUIER, MME. CROZY, CHAS. HENDERSON,  
From 4 inch pots, at \$5.00 per 100.

VAREGATED VINCAS.  
THE ELIZABETH NURSERY COMPANY, Elizabeth, N. J.  
When Writing Mention Florists' Exchange

H. H. BERGER & CO., (ESTABLISHED 1878.)

Importers and Exporters of Bulbs, Seed, Palms, Rare Shrubs from the United States, Java, Balm, and Europe, will hereafter transact all business for the EASTERN STATES from their office in New York City.  
Address all letters to 271 Broadway, (P. O. Box 2106) New York.  
Business for the PACIFIC COAST will be heretofore receive attention  
Addressed H. H. BERGER & CO., San Francisco, Cal.

READY FOR JULY and AUGUST.

FREESIA (Large sizes are very scarce).  
CALLA ETHIOPICA (Send orders NOW).  
LITTLE GEM CALLAS (Improved variety). A REAL GEM.  
LIL. LONGIFLORUM EXIMIA, the Best for Forcing. Produces more flowers than the common sort.

When Writing Mention Florists' Exchange

BURPEE'S SEEDS  
PHILADELPHIA  
WHOLESALE PRICE LIST FOR FLORISTS and MARKET GARDENERS  
When Writing Mention Florists' Exchange

THE AQUATIC GARDEN  
NOW IN PREPARATION and TO BE SHORTLY ISSUED.

This will be a handsomely printed and bound volume, its contents covering the history of aquatics down to the present day, and imparting the knowledge necessary to their successful propagation and cultivation. It will be a book of great value to the trade as also to the amateur, and in its pages will be fully described how to grow and care for this valuable group of plants to the greatest advantage, from a staked tub in the city garden to the grandest ponds in park lands. The book will be copiously illustrated with many excellent full-page plates and numerous half-tones of notable plants and water gardens.  
The author, Mr. Wm. Tricker, has had most excellent advantages and a long education in the cultivation of aquatics, and what he has to say on the subject will be looked forward to with interest.

Price \$1.00. Orders booked now.  
A. T. DE LA MARE PTG. & PUB CO., Ltd.  
P. O. Box 1697, NEW YORK.

## SEED PANSIES THE JENNINGS' STRAIN SEED

of finest American grown Pansy seed; new crop now ready, saved from the very finest selected plants, all large flowering, in great variety and most pleasing without doubt the finest strain in the market to-day. The following complimentary letter is one of many received every day:

Buffalo, N. J., June 25th, '87.  
Mr. E. B. JENNINGS, Jas. B. The "Pansy Seed" supplied by you last August produced the finest lot of seed I have ever seen. They were all first-class. Send me one or, if you feel inclined as you are ready, Respectfully,  
WILLIAM SCOTT.

Try a packet of Jennings' finest seed and you will not be disappointed. Finest mixed, per pkt. of 200 seeds, \$1.00 per doz. \$2.00 per 1/2 doz. 3 oz. \$13.00. White, yellow, black and blue, in separate colors, \$1.00 per doz. \$2.00 per 1/2 doz., postpaid by mail. Price to Seedsmen on application. Cash with order.

E. B. JENNINGS, 254 S. Southport, Conn.  
GROWER OF THE FINEST PANSIES.  
When Writing Mention Florists' Exchange

## Pansies Worth Raising . . .

NEW CROP SEED.  
Exceptionally well developed, can be had now in packages containing about 300 seeds for \$1.00 per doz.

CASH WITH ORDER.  
G. Soltan & Co., 199 Grant Jersey City, N. J.  
When Writing Mention Florists' Exchange

CANNAS Austria, Italia, John Potts White, in 4 inch pots, 25 cents; 3 for 60 cents by express. Price list of seed free.

H. BEAULIEU, Belmont Ave., Woonohaan, N. Y.  
When Writing Mention Florists' Exchange

## 10,000 POT CROWN DAHLIA

Plants (2 1/2 in. pots) in good variety, labeled true, \$5.00 per 100. \$50.00 per 1000.  
If you need Dahlias, write us.

A. B. DAVIS & SON, Purcellville, Va.  
(Near Washington, D. C.)  
When Writing Mention Florists' Exchange

## 500 CANNAS

From 5 Inch Pots, at \$4.00 per 100.  
Florence Veitchian, A. Johnson Bourier, Mrs. Bourier, Chas. Henderson, Sr. de Antoine Christ, Queen Charlotte, Columbia and the Finest Finest. \$5.00 per 100. \$50.00 per 1000. Cash with order.

MAX E. KRAUS,  
320 Davenport Ave., New Haven, Conn.  
When Writing Mention Florists' Exchange

## SURPLUS.

1000 CANNA ROBERTA, from date ready for planting, \$10.00 per 100. \$100.00 per 1000. In stock, \$4.00 per 100. 2000 PANSIES, in bud \$2.00 per 100. \$20.00 per 1000. \$1.00 per 100. \$10.00 per 1000. Would exchange for other varieties.

T. C. AUSTIN & SONS, Suffield, Conn.  
When Writing Mention Florists' Exchange

## BUY FROM THE GROWERS DIRECT

ALL BULBS AND PLANTS  
For Summer and Fall Delivery, Quoted at Very Low Rates.

FREE ON BOARD CARS OR BOATS  
NEW YORK CITY.

HULSBOSCH BROS., Englewood, N. J.  
When Writing Mention Florists' Exchange

IF INTERESTED IN  
BULBS  
For Late Summer and Fall Delivery, send for our special list of seeds, which is limited to orders reaching us before the 1st of July.  
AUGUST ROLKER & SONS,  
136 West 24th Street,  
New York, P. O. Station 2.  
When Writing Mention Florists' Exchange



## HEHR'S CARNATIONS.

Alexia and Cartledge	1000	100
Bridesmaid and Dornor	1000	125
Abundance	3000	250
Triumph and Armazladsky	3000	300
Jubilee	4000	500
SMILAX	5000	1000

Cash with the order. Everything guaranteed; if not satisfactory you can return it at my expense and have your money refunded to you.

**ALBERT M. HEHR, L. B. 490, Lancaster, Pa.**  
When Writing Mention Florists' Exchange

## Carnations, Etc.

HIGH GRADE ROOTED CUTTINGS.

Write for price list.

**H. WEBER & SONS,**  
P. O. Box 57, OAKLAND, Md.  
When Writing Mention Florists' Exchange

## MOBELLO

The New Scarlet.

From soil.

**HOPP & LENKE, East Grand Rapids, Mich.**  
When Writing Mention Florists' Exchange

## A MISTAKE

to delay your orders for

**MINNIE COOK,**  
Price should be \$3.00 per 100; \$25.00 per 1000.

**MEADOW VIEW GREENHOUSES,**  
PARISPPANY, N. Y.  
When Writing Mention Florists' Exchange

## GRALLERT & CO.

**CARNATION GROWERS**  
COLMA, SAN MATEO CAL.

When Writing Mention Florists' Exchange

## DAZZLE

The brightest and most productive scarlet carnation yet introduced. \$4.00 per 100. Rooted cuttings, \$3.00 per 100. Seed for complete list of 1000 carnation plants and rooted cuttings in 20 varieties. Ready for immediate shipment.

**GEO. HANGOCK & SON, Grand Haven, Mich.**  
When Writing Mention Florists' Exchange

## Harrison's White

**CARNATION.**  
New Carnation, sport from Wm. Scott.

**JOHN HARRISON,**  
739 Bergen Ave., Jersey City, N. J.  
When Writing Mention Florists' Exchange

## CARNATIONS

Rooted Cuttings of the following in closeout. Silver Spray, \$1.00 per 100; \$8.00 per 1000. Blue and White, \$1.00 per 100; \$8.00 per 1000. Perla, Lizzie McLawan, Tidal Wave and Geo. Cartledge, \$1.25 per 100; \$10.00 per 1000.

**VIOLETS** Fine runners of Lady Campbell and California, 60c. per 100; \$5.00 per 1000. Also, several other varieties, rooted cuttings, \$1.50 per 100; \$10.00 per 1000.

**JOSEPH RENARD, Unionville, Pa.**  
When Writing Mention Florists' Exchange

**EDW. J. TAYLOR,**  
Wholesale

**Carnation Grower,**  
SOUTHPORT, CONN.  
When Writing Mention Florists' Exchange

## CHRYSANTHEMUMS

The following commercial varieties, in strong, healthy plants from 2 to 2 1/2 inch pots. Price, \$3.00 per 100. Order at once.

**White-Moss, F. Bergman, Mrs. H. Robinson, J. H. Wright, Starflower, Isaacs, Early Crimson—Best, Grand**

**Flake—Pink—Taka Fiedler, Ivory, V. Morse, Wm. Simpson, Mme. F. Perrin, David**

**Yellow—J. L. Sanderup, Yellow Queen, Geo. S. Coover, Georgian, Fisher, Modesto, H. W. Riemer, Mrs. E. Baister, Golden Wedding.**

**Yellow Beauty, 27000, 28000, 29000, 30000, 31000, 32000, 33000, 34000, 35000, 36000, 37000, 38000, 39000, 40000, 41000, 42000, 43000, 44000, 45000, 46000, 47000, 48000, 49000, 50000.**

**PAQUHAU VIOLETS**, from 2 1/2 inch pots. 50c. per dozen; \$3.00 per 100.

**CASH WITH ORDER.**

**THEO. F. BECKERT,**  
NITTLE ISLAND, GLENFIELD, PA.

When Writing Mention Florists' Exchange

## CHRYSANTHEMUMS.

Best standard commercial varieties, from pots, Mrs. Robinson, Major Bennett, Philadelphia, Mad. Dean, Pink Ivory, W. Mansacker, L. Canby, E. Daillecourt, J. Bonner, Nixens, The Queen, H. Bahay, W. H. Lincoln, Ivory, 10c. at \$1.00 per 100. G. Child, Golden Wedding, Rosa Prise, M. Henderson, at \$1.00 per 100. Cash with order.

**JOHN G. EISEL, PHILADELPHIA, PA.**  
20th & Ontario Sts.

When Writing Mention Florists' Exchange

## CHRYSANTHEMUMS

Rooted Cuttings Ready June 20 From Specially Good Stock.

Glorv of the Pacific, Lady Fitzgram, Marquis Woodroff, Marion Henderson, \$2.00 per 100.

Yellow Queen, Mrs. F. Murdoch, Mrs. H. Robinson, Mrs. Jerome Jones, Wm. Simpson, Mad. Dean and Philadelphia.

**JOHN LANG, Chicago, Ills.**  
Corner Melrose and Robey Sts.

When Writing Mention Florists' Exchange

## CHRYSANTHEMUMS

2 1/2 in. pots, \$3.00 per 100.

**Widener, White, Mrs. H. Battles, Ivory White, Grand Royal, Mrs. F. Bergman, Mad. Dean, Major Bennett, Mrs. J. Jones, Merry Monarch, Fiedler, The Queen, Nemesa, Mieser, White, Mrs. H. Robinson, Minnie Mansacker, J. E. Lager, Mutual Friend, Rylor, Pink Ivory, Lincoln.**

Rooted Cuttings of the above varieties, \$2.00 per 100.

**EVENDEN BROS., Williamsport, Pa.**  
When Writing Mention Florists' Exchange

## CHRYSANTHEMUMS

FOR BENCHING.

Glorv of Pacific, Lady Fitzgram, Anjoua Bride, Wm. Simpson, \$3.00 per 100. Marion Henderson, Marquis de Montebello, Mrs. F. Bergman, Mad. Dean, Mme. Felix Perria, Mutual Friend, Pink Ivory, Lady Playfair, Georgianne Brantley, E. Daillecourt, Helga Bloodgood, Mrs. Jerome Jones, \$3.00 per 100. Deduct 50c. per 100 on orders of 250 plants or over.

**A COMPLETE LINE OF NOVELTIES FOR '97**  
Anemones, Pompon Anemones, Pompons, and Hairy Varieties.

Send list of wants for lowest cash price.

**NATHAN SMITH & SON, Adrian, Mich.**  
When Writing Mention Florists' Exchange

**CARNATIONS**—Rooted cuttings all sold except Wm. Scott, Thos. Cartledge, Opetella and Rose Queen, \$1.00 per 100; \$8.00 per 1000.

**CHRYSANTHEMUMS**  
15,000 in pots now, end of the best and low old varieties, at \$2.50 per 100. Cash with order, please list.

**HYDRANGEA OTAKSA**, fine plants from pots, \$3.00 per 100. Cash with order, please.

**JOHN HACKETT & CO., 62d St., near Elmwood Ave., PHILADELPHIA, PA.**  
When Writing Mention Florists' Exchange

## CULTIVATIONS.

### Cultivating.

While walking through our carnation field several days ago I noticed a certain many plants which had not been considered up to this time was due to the cultivators throwing the soil up against them. Aside from the natural tendency of the cultivators to throw the soil against the plants, it can be greatly increased by means of the hand work of the operators. They should be impressed with the importance of going at a proper rate of speed and doing the work as near right as possible.

Some soil will be sure to get up to the plants, no matter how carefully the work is done, unless the cultivator is kept a considerable distance from the rows. When this is done, however, much of the good results which can be accomplished with the use of the cultivator will be lost.

After cultivating, the soil, which has been thrown against the plants, should be carefully removed, for if left in this condition our worst enemy—stem rot—will have an excellent opportunity to get in an appearance, and particularly so if the weather be wet or the atmosphere very humid.

Once or twice during the season the plants should be carefully hoed, the idea being simply to remove the weeds that are growing up, and particularly so if the cultivators do not reach.

Some may still entertain the idea that the plants should be densely hoed and the soil thoroughly loosened about the roots, that these may have a better opportunity of growing the roots. This has been already pointed out as a mistake; but since it is so easily forgotten or overlooked, it will bear repeating. The less we interfere with the roots the better it will be for the plants. To do otherwise, and particularly so by severing them with the hoe can result only in injury.

Once or twice during the season the plants and the surface soil loose, we will be aiding the plants to our fullest extent, so far as concerns this part of their cultivation. H. WEBER.

## CHRYSANTHEMUMS.

Twenty-five best varieties for cut flowers: Pink, White and Yellow, at \$2.00 per 100; \$15.00 per 1000; my selection, from pots.

**R. H. MURPHEY, Urbana, Ohio.**  
When Writing Mention Florists' Exchange

## CARNATIONS

**F. DORNER & SONS CO.,**  
La Fayette, Ind.

When Writing Mention Florists' Exchange

## Carnation Cuttings

Strong and well rooted, of the following varieties: Blue and White, Golden Queen, Bridesmaid, Dean Ho, Goldsch, Lizzie McLawan, Helga Bloodgood, Rosa Queen, Silver Spray, Wm. Scott, Uncle John.

**PRIMULAS**, 2 1/2 inch, \$2.00 per 100. Send for list and price on large lots.

**Logan Ave. Greenhouses, Danville, Ill.**  
When Writing Mention Florists' Exchange

## CARNATIONS

Trans-Mississippi and International Exposition, St. Louis, Mo., 28th of September, 1897, to celebrate the fiftieth anniversary of the Dutch Society of Agriculture in America. This company is invited in agricultural machinery and tools, the section of horticulture and other exhibits from the States of the United States are especially interested. Applicants must submit descriptive lists of their growing exhibits to the secretary of the society, Mr. P. L. F. Woldeck, Loosduinen, Holland, before August 1.

**International Exposition in Holland.**—A National and International Exposition will be held at The Hague, Holland, from August 1st to the 28th of September, 1897, to celebrate the fiftieth anniversary of the Dutch Society of Agriculture in America. This company is invited in agricultural machinery and tools, the section of horticulture and other exhibits from the States of the United States are especially interested. Applicants must submit descriptive lists of their growing exhibits to the secretary of the society, Mr. P. L. F. Woldeck, Loosduinen, Holland, before August 1.

**Grand Rapids, Mich.**  
The Alfred J. Brown Company, doing business at Nos. 24 and 26 North Division Street, has filed a trust mortgage with the city clerk, naming the Michigan Trust Company as trustee for a number of creditors.

**Tiffin, O.**  
Emil Lamprecht, who, for the past several years has been employed by Lewis Ellich, Jr. of Weymouth, just for Karlsruhe, Germany, for a three months' visit with his parents and relatives.

**Exhibitions.**  
Trans-Mississippi and International Exposition, St. Louis, Mo., 28th of September, 1897, to celebrate the fiftieth anniversary of the Dutch Society of Agriculture in America. This company is invited in agricultural machinery and tools, the section of horticulture and other exhibits from the States of the United States are especially interested. Applicants must submit descriptive lists of their growing exhibits to the secretary of the society, Mr. P. L. F. Woldeck, Loosduinen, Holland, before August 1.

## Northampton, Mass.

The grounds about the Smith's College, which were planted about a year ago, largely with herbaceous and perennial plants, are now in full bloom, and E. Canning, who has charge, feels proud of the results of his labors. It will be a pleasant task to answer the numerous questions asked by the large number of sweet girl students who are so largely a part of the college. It is surprising and gratifying to see such interest being taken in this class of plants, which is becoming more popular here, as at Rochester, where it is the fine collection of the well-known and brilliant Professor Covell is doing his utmost to interest the public. Each plant is plainly and neatly labeled, which makes the plant not only more interesting, but saves the trouble (to some) of enlightening the inquiring mind, for there are those who will find out, however "mum" one chooses to keep oneself. It also assists the would-be learner, who oftentimes deprives himself of the satisfaction of knowledge for various reasons. It is a pleasure to see that this establishment where the culture of herbaceous plants is being made a specialty, and where the plants are being surrounded the centre aquatic pond is a fine collection of shrubbery, but hardly a plant is labeled. Of course, there is some one who knows all about them and it is a veritable encyclopedia; but it is a pleasure to see that this pilot has neither forgotten the name or is like ourselves confessedly ignorant, upon which it is well to be careful, for upon it, the boys cannot have things made to plain, otherwise our girls will get them, then in this as in all other branches. W. M.

## Colorado Springs.

Business has been good in pot plants, leading stock, etc. Carnations and small roses that sell retail at 25 to 35 cents, being extremely popular this season, and as the good quality material is in demand.

Planting is well under way at this writing.

Emil Hemming left for England this week and carries the well wishes of a host of admirers with him. He will visit Kew Gardens, from which he graduated some years ago, and probably this accounts, in some measure, for his ability to give plants at such a rough climate.

**Grand Rapids, Mich.**  
The Alfred J. Brown Company, doing business at Nos. 24 and 26 North Division Street, has filed a trust mortgage with the city clerk, naming the Michigan Trust Company as trustee for a number of creditors.

**Tiffin, O.**  
Emil Lamprecht, who, for the past several years has been employed by Lewis Ellich, Jr. of Weymouth, just for Karlsruhe, Germany, for a three months' visit with his parents and relatives.

**Exhibitions.**  
Trans-Mississippi and International Exposition, St. Louis, Mo., 28th of September, 1897, to celebrate the fiftieth anniversary of the Dutch Society of Agriculture in America. This company is invited in agricultural machinery and tools, the section of horticulture and other exhibits from the States of the United States are especially interested. Applicants must submit descriptive lists of their growing exhibits to the secretary of the society, Mr. P. L. F. Woldeck, Loosduinen, Holland, before August 1.

**International Exposition in Holland.**—A National and International Exposition will be held at The Hague, Holland, from August 1st to the 28th of September, 1897, to celebrate the fiftieth anniversary of the Dutch Society of Agriculture in America. This company is invited in agricultural machinery and tools, the section of horticulture and other exhibits from the States of the United States are especially interested. Applicants must submit descriptive lists of their growing exhibits to the secretary of the society, Mr. P. L. F. Woldeck, Loosduinen, Holland, before August 1.

**Grand Rapids, Mich.**  
The Alfred J. Brown Company, doing business at Nos. 24 and 26 North Division Street, has filed a trust mortgage with the city clerk, naming the Michigan Trust Company as trustee for a number of creditors.

**Tiffin, O.**  
Emil Lamprecht, who, for the past several years has been employed by Lewis Ellich, Jr. of Weymouth, just for Karlsruhe, Germany, for a three months' visit with his parents and relatives.

**Exhibitions.**  
Trans-Mississippi and International Exposition, St. Louis, Mo., 28th of September, 1897, to celebrate the fiftieth anniversary of the Dutch Society of Agriculture in America. This company is invited in agricultural machinery and tools, the section of horticulture and other exhibits from the States of the United States are especially interested. Applicants must submit descriptive lists of their growing exhibits to the secretary of the society, Mr. P. L. F. Woldeck, Loosduinen, Holland, before August 1.

**International Exposition in Holland.**—A National and International Exposition will be held at The Hague, Holland, from August 1st to the 28th of September, 1897, to celebrate the fiftieth anniversary of the Dutch Society of Agriculture in America. This company is invited in agricultural machinery and tools, the section of horticulture and other exhibits from the States of the United States are especially interested. Applicants must submit descriptive lists of their growing exhibits to the secretary of the society, Mr. P. L. F. Woldeck, Loosduinen, Holland, before August 1.

**Grand Rapids, Mich.**  
The Alfred J. Brown Company, doing business at Nos. 24 and 26 North Division Street, has filed a trust mortgage with the city clerk, naming the Michigan Trust Company as trustee for a number of creditors.

**Tiffin, O.**  
Emil Lamprecht, who, for the past several years has been employed by Lewis Ellich, Jr. of Weymouth, just for Karlsruhe, Germany, for a three months' visit with his parents and relatives.

**Exhibitions.**  
Trans-Mississippi and International Exposition, St. Louis, Mo., 28th of September, 1897, to celebrate the fiftieth anniversary of the Dutch Society of Agriculture in America. This company is invited in agricultural machinery and tools, the section of horticulture and other exhibits from the States of the United States are especially interested. Applicants must submit descriptive lists of their growing exhibits to the secretary of the society, Mr. P. L. F. Woldeck, Loosduinen, Holland, before August 1.

**International Exposition in Holland.**—A National and International Exposition will be held at The Hague, Holland, from August 1st to the 28th of September, 1897, to celebrate the fiftieth anniversary of the Dutch Society of Agriculture in America. This company is invited in agricultural machinery and tools, the section of horticulture and other exhibits from the States of the United States are especially interested. Applicants must submit descriptive lists of their growing exhibits to the secretary of the society, Mr. P. L. F. Woldeck, Loosduinen, Holland, before August 1.

**Grand Rapids, Mich.**  
The Alfred J. Brown Company, doing business at Nos. 24 and 26 North Division Street, has filed a trust mortgage with the city clerk, naming the Michigan Trust Company as trustee for a number of creditors.

**Tiffin, O.**  
Emil Lamprecht, who, for the past several years has been employed by Lewis Ellich, Jr. of Weymouth, just for Karlsruhe, Germany, for a three months' visit with his parents and relatives.

**Chicago.**

**Weather and Market Notes.**  
Summer weather has arrived at last, the thermometer at writing having reached the forty mark. Rain is needed rather badly in the light, sandy soil, as although there have been showers they did no more than wet the surface.

Up to this time, for the season, roses have been good; but now Eric is being displaced by the useful summer-grown Kaiserin. Bridesmaid will also have to give way to the early market. Rain is up fairly well; for roses, the best, are \$3 to \$4; seconds and culls, \$2 down to \$1. Every day presents more and more difficulty in clearing out.

Beauty, owing to throwing out for routine purposes, are below demand. The highest price for long-stemmed is \$15 to \$35. A few Jacobs, are in, but, so far, they are short and not good sellers. Carnations, really good colored flowers, are still a glut; few now go beyond \$15. The hot spell will, no doubt, injure the quality and increase the quantity, giving school children a fine chance to get supplies; and the prospects for the next two weeks will be good for sales with low prices.

Peonies are now very abundant and larger in size; prices range from \$2 to \$4 per 100. J. Als is now scarcer, with prices at \$3 to \$4 again.

**Club News.**  
A good deal of routine business was transacted at last meeting and a summer programme outlined, the officers being authorized to call special meetings at any time and places as may be deemed desirable, so as, if possible, to make trips out among the growers. A letter was read from Mrs. John Weston thanking the club for its kindness and financial assistance during her bereavement.

**Jettings Around Town.**  
W. E. Lynch is receiving from Otto Hansen, of Mt. Clare, Ill., the old Hines' white carnation, with 2 to 3½-foot stem, excellent flowers, that sell just now at as high price as any of its newer competitors in sales in this market.

The bowlers are arranging to get together and form a team to take part in the tournament at Providence in August.

Nicholas Wietor, manager of the Rogers Park Florist Co., 41 Wabash Avenue, was married on Tuesday at the Catholic Church at High Bridge to Miss Lizzie Thyson. A reception followed at the home of the bride's mother.

F. Franks, of 10 Clara Place, has bought out W. H. Kidwell's old flower store at 410 Milwaukee Avenue. Mr. Kidwell now takes the management of his brother's establishment at 3510 Wrentham Avenue; the latter, E. Kidwell, moving with his family to his farm at Terre Haute, Ind., where he designs ultimately to establish a nursery and greenhouses.

H. G. Tull, treasurer of Henry A. Harkett's business, has been in the city this week.

Z. K. Jewett, Sparta, Wis.; W. A. Harkett, Dubuque, Ia.; H. Stone, of Carthage, and J. H. Konkik, of Joliet, were also visitors. EDGAR SANDERS.

**Carlstadt, N. J.**

Henry Abel is building a large greenhouse near the depot here.

**How to Push Along a Good Thing.**

The Florist's Exchange has been the means of introducing many good things to the notice of the trade, and its publishers, without regard to advertising to be derived therefrom, have always been ready to put in mechanical devices and greenhouse supplies which promised well. Mastic, the substitute for putty for putting through sashes, was first introduced through The Exchange, and Messrs. F. O. Pierce & Co., who control it, recently informed us that the first lot (it was never not advertised until late in the season of 1895) amounted to 800 gallons; in 1896 they sold 4,000 gallons, while this year they expect their sales to reach 10,000 gallons. This is not a puff nor an ad. for its sales, but a statement to indicate the possibilities which exist when any one has a good article to place on the market.



**Butted Glass**  
This is no longer an experiment, it has come to stay. There are various ways of making Butted Glass, but the best way is with the  
**Clipper Bar.**

With this bar you can make a roof that is absolutely free from drip, and glass cannot be torn out by the wind. Butted glass makes a light roof, a warm house and saves fuel. It lasts longer, looks better and costs less than the old-fashioned roof. But do not think that this is the only bar we sell, for it is not; we furnish what people want and there is nothing in greenhouse material that you cannot get from us, and all of open-air-dried Cypress clear of bright sap, stained sap, knots and all other defects.

**LOCKLAND LUMBER CO.**  
LOCKLAND, O.

Mention paper

Write for Circulars or Estimates.

**HAVE YOUR COLLECTIONS MADE**

THROUGH THE  
**NATIONAL FLORISTS' BOARD OF TRADE,**  
271 BROADWAY, NEW YORK.

When Writing Mention Florists' Exchange

**GROW PLANTS IN**  
"Jadoo" Fibre.  
WATER THEM WITH  
"Jadoo" Liquid.

When Writing Mention Florists' Exchange

**CYPRESS GREENHOUSE MATERIAL**  
OF ANY DESCRIPTION.  
SEND FOR CATALOGUE.  
When Writing Mention Florists' Exchange

**THE VAN REYPER PERFECT GLAZIERS' POINTS**  
No rights or lefts. Price per box of 1000, 60c, by mail, 75c. In lots of 5000 by ex., 55c. per 1000.  
**HENRY A. DREER, 714 Chestnut St., Phila., Pa.**  
When Writing Mention Florists' Exchange

**CYPRESS GREENHOUSE GLASS.**  
THE WOOD GLASS COMPANY,  
226 N. SALINA ST., SYRACUSE, N. Y.

**A GOOD HOSE IS A GOOD INVESTMENT**

The best is the cheapest. To ascertain what a hose is worth, divide the cost per foot by the number of years it will last. We are in the market to compete in number of years with anything that is manufactured. Price 12c. per foot for 1/2 inch; 16c. per foot for 3/4 inch, and 30c. per foot for 1 inch hose.

Address **J. G. & A. ESLER, Saddle River, N. J.**  
When Writing Mention Florists' Exchange

**Diplomas and Certificates**

**HORTICULTURAL SOCIETIES, FOR FAIRS, INSTITUTES, : FLORISTS' CLUBS, ETC.**

These should be selected well in advance of the date needed, and secretaries of above should send now for our set of samples, all of which have been especially designed by first-class artists and engravers for the purpose. Owing to the wide demand for these samples and their expensiveness, we will mail the set of five, postpaid, for \$1.00; money refunded on return of samples, or placed to credit of order, as directed. One single sample sent free on application if the writer will explain the exact purpose for which it is wanted.

**A. T. De La Mare Ptg. & Pub. Co., P. O. Box 1697, New York.**

HEADQUARTERS FOR ALL PRINTED SUPPLIES.

**CYPRESS**  
IS MUCH MORE DURABLE THAN PINE.  
**CYPRESS SASH BARS**  
UP TO 12 FEET IN LENGTH OR LONGER.  
**GREENHOUSE AND OTHER BUILDING MATERIAL.**  
Send for our Illustrated Book "CYPRESS LUMBER AND ITS USES." Send for our Special Greenhouse Circular.  
**THE A. T. STEARNS LUMBER CO.,**  
Newburgh, N. Y.

When Writing Mention Florists' Exchange

**IMPROVED GLAZING.**

**J. M. GASSER'S PATENT ZINC JOINTS**  
For Butting Glass Without Laps.  
Makes a Roof Air and Water Tight. Saves Fuel. No Breakage from Frost or Medium Sized Hail. Manufactured by

**J. M. GASSER,**  
101 Euclid Avenue, CLEVELAND, OHIO.  
Wholesale and Retail Florist.  
When Writing Mention Florists' Exchange

**IF YOU WANT A GOOD SASH LIFT**  
For a Very Little Money Get

**THE NEW DEPARTURE VENTILATING APPLIANCE.**

For Descriptive Catalogue Send to  
**J. D. CARMODY, Evansville, Ind.**  
When Writing Mention Florists' Exchange

**Grand Improved Challenge.**  
Roller bearing, self-oiling device, automatic stop, solid ink chain, etc. The **CHALLENGE** is the most perfect appliance in the market.  
Write for catalogue and price before placing your order elsewhere.  
**Quarter City Machine Co.,**  
RICHMOND, IND.

When Writing Mention Florists' Exchange

**SUMMER IN WINTER**

By Using  
**Standard Greenhouse Boilers**  
One cent gets our Catalogue.

**GIBLIN & CO., - Utica, N. Y.**  
When Writing Mention Florists' Exchange

**VALVES, FITTINGS, AND VENTILATING APPARATUS.**  
**COLDWELL, WELCH & CO.,**  
Newburgh, N. Y.  
Mention paper.

**Chadborn's Automatic Ventilator**  
**CHADBORN, KENNEDY & CO.**  
NEWBURGH, N. Y.  
When Writing Mention Florists' Exchange



The report of the Committee on Resolutions expressed thanks to the Mayor of St. Louis... Botanical Garden and several others who had contributed to the comfort...

The Tariff Committee reported that as a result of their efforts there had been a duty of 20 cents per hundred on Myrobalan plums, Mahaleb and Mazzard cherries, three years old or under...

The Committee on Necrology reported the deaths of the following: J. S. ... J. G. Bubach, of Princeton, Ill.; Robert Douglass, of Waukegan, Ill.

A resolution was adopted endorsing the application of F. G. Witholt, of ... the Secretary of Agriculture of the United States.

It is interesting the fact that much dissatisfaction had been expressed by Eastern members on account of the place selected for the duty station...

"Resolved, That the places of the meetings of this association shall be alternated between the West of a line of the meridian of the city of Chicago for more than two years in succession."

Hydrocyanic Acid Gas.

Professor W. B. Alwood gave a short talk on "Treatment of Nursery Trees with Hydrocyanic Acid Gas Process," saying that this treatment was only used as a precautionary measure...

Piece Roots vs. Whole Plants.

Leavenworth, Kan., read a very brief paper entitled, "Piece Roots vs. Whole Plants," and offered the following endorsing the piece-root method...

Wholesale Prices to Planters.

Colonel C. L. Watrous, of Des Moines, Ia., read a paper entitled, "Should Wholesale Lists Be Sent to the Planter?"...

of serious proportions if you could starve out of business the host of small growers and dealers who grow some stock, push sales to planters and buy at wholesale whatever they lack...

After a brief discussion, in which several members complained of the inconvenience of sending tree lists broadcast throughout the land, a motion was made...

The Nurseryman.

Professor Fred W. Card, of the University of Nebraska, read a paper entitled, "The Nurseryman," in which he said: The watchword of modern times is "education," and education is to be had only by learning to work as in constructing an engine...

An invitation was extended to the members of the Horticultural Stars of St. Louis, Mo., to visit their nurseries at that point...

WANTING ANTHEMUMS

Whenever the side benches are planted, we begin at once with the center benches, select the varieties according to the height to which you will attain...

I have low benches about one foot above the floor, the benches these give plenty of top room for the plants, which ought to be 7 feet clear above the ground...

I do my planting in cross rows, so that the front plants do not shade those in the rear, but grow of even height...

My houses run south and north, but if they run east and west, it answers the same purpose, but the siring is done in a top side and along the sides...

Every one who is in the nursery business, I would advise all florists who have a hot shade...

GERANIUMS

Price plants, well-grown, from 21c. per plant, up to \$2.00, would make fine plants to plant in the woods...

EVERY FLORIST OUGHT TO INSURE HIMSELF AGAINST MAIL.

For particulars address: JOSEPH G. RYAN, 211 Saddle River, N. J.

ASTER PLANTS

Sample's White, \$2.00 per 100. W.M. White, same varieties, \$5.00 per 100.

NEW HYDRANGEA POTAKA

This variety is an improvement on all existing varieties of Hydrangea, and is a new and fine flowering plant...

ALTERNANTHERA.

A. AMABILIS and A. NANA, (red and green) ... Cash with order. U.S.A. PAT. 249,933. U.S.P. 249,933.

BEDDING PLANTS.

\$2.00 per 100. Coleus, Golden Beller, Red Verschaffelt and Fire ... Cash with order.

J. & W. LEACH.

Cor. DeBose & Ditmars Aves. L.I. City, N.Y. When Writing Mention Florists' Exchange.

CHRYSANTHEMUMS.

The two earliest in their color. Glory of the Pacific, pink - \$2.00 per 100 ... Cash with order.

ALTERNANTHERAS

A fine stock of large strong plants yet. P. Hilar, red, \$2.00 per 100 ... Cash with order.

COLEUS...

From \$1.50 each plant, best sorts at \$3.00 per 100. FINE, SALLERIO GERANIUMS, good plants at \$2.00 per 100.

MRS. M. CAVANAUGH, Millers Corners, N.Y.

20,000 WELL-GROWN BEDDING PLANTS. P. Hilar, red, \$2.00 per 100 ... Cash with order.

GERANIUMS

Price plants, well-grown, from 21c. per plant, up to \$2.00, would make fine plants to plant in the woods...

EVERY FLORIST OUGHT TO INSURE HIMSELF AGAINST MAIL.

For particulars address: JOSEPH G. RYAN, 211 Saddle River, N. J.

ASTER PLANTS

Sample's White, \$2.00 per 100. W.M. White, same varieties, \$5.00 per 100.

NEW HYDRANGEA POTAKA

This variety is an improvement on all existing varieties of Hydrangea, and is a new and fine flowering plant...

## QUESTION BOX.

OPEN TO ALL . . . FREE TO ALL

Answers Solicited from Those Who Know.

(102) **Destructive Mice**.—How can I rid my beds of alternate and geraniums of mice? These pests are very destructive; they carry away into their burrows a whole lot of soil. Any information on how to destroy the mice or prevent their depredations will be welcomed by me.

(103) **Heating and Piping Greenhouses**.—We have remodelled our greenhouses and now have five and a violet frame and desire advice on heating and piping same. We have 600 feet of four-inch pipe and 300 feet of two-inch, and after using the four-inch would like to put in two-inch for the remainder.

The heater is a six-section Carmody, which we will replace, or we will add new sections to the one we now have, as may be suggested by you. Please answer the following questions.

(a) The best system of laying the pipes; (b) size of heater to heat 5,000 square feet of glass and 500 feet of surface, and the best heater to use; (c) the highest point of system and height of this above heating surface; (d) is it best to use hot water under pressure or level; (e) where shall we put vents? (f) what height should the chimneys be and the location of the same? (g) by having valves on the system can we control the flow and heat in any of the houses, and if so where to locate the valves? J. C. FLORAL CO., Kansas.

The plan submitted shows the following arrangement of the houses:

No.	Height.	Temp.	Length.	Width.	Area.	Desired.
1	12 ft.	70 ft.	12 ft.	70 ft.	840	degrees.
2	12 ft.	70 ft.	8 ft.	50 "	400	"
3	22 ft.	70 ft.	16 ft.	65 "	1320	"
4	12 ft.	70 ft.	16 ft.	65 "	1320	"
5	20 ft.	50 ft.	18 ft.	60 "	1080	"
6	5 ft.	70 ft.	4 ft.	40 "	160	"

The first four run east and west with No. 6 along the south wall of No. 5 while No. 5 runs north and south along the west ends of the other houses. The heater now in use is located in dwelling house cellar at about the middle of the north side of the range.

In a general way the following answers to the questions proposed will be helpful: (a) The four-inch pipe can be used for the return pipes in the other houses and to supply about eight runs in No. 6. If the heater is to be located as at present I would suggest that a main flow pipe be carried from it through No. 1 and along the east wall of No. 5 at such a height that the doorways will not be obstructed; from this pipe take off supply pipes for colls on each side of each of the houses; drop these pipes to the level of the colls, which should contain two-inch pipes as follows: House No. 1, two colls, five pipes each; No. 2, two colls, three pipes each; No. 3, three colls, six pipes each; No. 4, two colls, three pipes each; No. 6, one coil of two pipes. The colls should be connected by a single pipe to the return pipes, which should run across the ends of the houses and then to the heater. A two-inch will carry the water from the pipe but this could be gradually increased as the other colls are added until it reaches four-inch when the main pipe in house No. 5 has been taken on. This should then be carried through No. 1 to the heater, and another return pipe to the remaining coll in house No. 3 and those in Nos. 1 and 2, in the same manner.

It can be suggested that the best heater for a heater. One would be to retain the present heater, as it is to supply No. 1, No. 5, and the coll in house No. 6 for the remaining houses. The new heater should have about ten square feet grate surface for each square foot of about 200 square feet. It may be the Carmody or any of the other heaters on the market. A four-inch coll boiler, either like some of the designs recently shown in The Exchange or a steam boiler, one or two feet in diameter, filled with tubes. Another way would be to put in a new Carmody boiler with a large surface for heating, and to increase the present boiler to the same size. One of these boilers would answer in mild weather, but it could be held in reserve for severe weather or accidents. The boilers

should be yoked together, but should have valves on both flows and returns so that either can be cut out in case of breakage. The third plan would be to take out the boiler now in use and put in a water boiler large enough to supply the entire range. This should have a grate surface of about twelve or fourteen square feet and a heating surface of about three hundred feet, making a twenty-horse power boiler. (c) The highest part of the system should be directly above the boiler if possible, or if this cannot be arranged have the highest point of the flows near where the first colls are taken off, which will give a down-hill system of piping. (d) It should at all events be an elevated expansion tank, but should not care to put the four-inch pipe under much pressure. The first plan regarding the heaters is adopted if it will be possible to have houses 1, 2, 3, 4 and 5 in a separate system that can be run either under pressure or not, as may be decided on. (e) No vents will

in a great measure prevent black spot of the rose. It may be possible to have better results by using it stronger on plants growing outdoors, as the foliage on them is much tougher than that produced under glass. It is a simple matter, however, to experiment on a few plants and note the results.—H. H.

## Flowering Trees and Shrubs.

*Staphylea colchica* is very noticeable in early spring by reason of its teeming clusters of pure white flowers. It is not particular as to soil, is perfectly hardy, and does well in a partially-shaded place.

*Spiraea prunifolia*, fl. pl., better known as Bridal Wreath, is a common garden favorite and in its flowering season is unsurpassed for profusion of

## New York Florists' Club.

Meeting and Exhibition.

The Florists' Club met on Monday evening, Vice-president Plumb in the chair, President Henshaw motelychaving returned from his European trip. The attendance during the afternoon and evening was quite large. A Committee of Arrangements was organized with matters pertaining to the forthcoming convention of the S. A. F., at Providence, in August next, was appointed consisting of Messrs. W. F. Sheridan, W. A. Prosser and Julius Lang. The better part of the afternoon, with the Board of Trustees, will form a Reception Committee, with a view to extending club's hospitality to all delegates from other cities who may pass through New York en route to the convention. It is very likely that the trip will be made by boat, but definite information on this subject will be furnished later.

Mr. Manda stated that a committee had waited upon Professor Goodell, of Harvard, and had agreed to deliver a lecture, illustrated by stereopticon views, on the subject of tropical plant life in its native home. This alone will be worth attending the convention to hear and see.

Mr. Foster stated that an interesting program, both as regards entertainment and beneficial work, had been prepared and he hoped to see a large representation from New York and vicinity.

There were eight exhibitors of seasonal flowers; the exhibition being held in the hall below the club room. Mr. Withers read the report of the judges, which was so correct that they had awarded the club's silver medal to Mr. Miller, of the Oasis Nursery, Westbury Station, for an exhibit of 154 varieties of peonias, and a certificate of merit for collection of roses. Among the peonias were *La Superba*, a beautiful Daybreak pink; *Vanauville*, pure white, with double rose center; *M. Dupont*, which is slightly tipped with scarlet; *La Quintin*, dark red, and *Claude de Lorraine*, rose color.

The club's silver medal was awarded to John Lewis Childs, Floral Park, N. Y., for a collection of general collection of herbaceous cuttings. Noticeably among these were *Hymenocallis californica*, *Leysia*, *Chionodoxa*, *Chionodoxa*, *Lilium Parylli*, *Irish Hispania*, *William I.*, *Blanche Superb* and *Lilacens*, and *Irish Giant*.

A certificate of merit was given to Pitcher & Manda for a similar collection, among them being fine vases of *Thermopsis caroliniana*, *Agrostemma coronaria* and *Gallardia grandiflora*. W. A. Manda, in general collection. In the latter were fifteen varieties of Scotch pinks (*Dianthus plumarius*) little leaves, and hybrid rugosa roses (*R. rugosa*, M. Hoste), regarding which the committee will make a report at the inspection of the plants at Mr. Manda's place on Thursday next. The same exhibitor had a vase of very fine *Coronopsis flavida*, several kinds of fox-gloves, sweet Williams, *Centranthus rosea* and *Lilium Grayii*.

A cultural certificate was awarded to M. B. Dilm, Ardley, N. Y., for nine specimens of *Staphylea colchica*, including Katherine Tracy, with very fine stems; Ovid, Blanche, Purpe, Dorothy, Thelma, Freddy, Emma and Princess Beatrice and Blanche Ferry, and C. Esold, Mineola, N. Y., for carriage garden plants, including *Staphylea colchica*, Queens, N. Y., sent as excellent spikes of *Canna* *Burk* and *Yellow*, and *Staphylea colchica* in very fine condition. Siegmund & Co., New York, exhibited thirteen kinds of hardy flowers, among them an exquisite pink, *M. Andromeda*, and a very sweet-scented *Philadelphus strax* japonicus, *Lilium Cramer* and a spike of *Canna*, *Itala*.

J. Logan, commenting on the variety and beauty of the exhibits, stated he had been in the city so many old friends, reminding one of old days. The floral world in America in past years has gone from the dull and ridiculous and it was a pleasure to see the tendency displayed to get back again to the old and good.

The club adjourned till the first regular meeting in September.



Staphylea colchica.

be required if the expansion tank is connected at the highest part of the system, but if this is not the case there should be one at all of the points in the pipe from which there is a downward slope in both directions. This will not done the air will be prevented from escaping and the circulation will be prevented. (f) From top to bottom, depending on the kind of heater selected, as well as the size of the flue. (g) Yes. The heat can be regulated or entirely shut off from any coil if there is a gate or angle valve at the lower end of each coil. L. B. FAIT.

(104) **Formula for Spraying Roses**.—In May 22 issue of Florist's Exchange you write: "I pound sulphate of copper dissolved in a quart of ammonia; a quart of this mixture 1 pint to a barrel of water." If, as presumed, the barrel means 40 or 45 gallons of water, the quantity of sulphate of copper in the spraying liquid will amount to only one-fourth per thousand; very little.—CONTICHL.

—I have found this formula quite strong enough to eradicate mildew, and

blooms. Literally, one may cut its shoots of dazzling white flowers by the yard.

*Cercis canadensis*, one of the Judas trees, is a noteworthy tree, having flowers of rich magenta rose which appear just before the leaves. When the tree has attained a little size it flowers with such lavish profusion as to quite hide the branches. It will grow anywhere.

*Kerria japonica*.—In its double form this is found in many gardens, which are cultivated throughout nearly the entire year by its brilliant double yellow flowers. Given a fairly good loamy soil this plant will flourish in almost any situation.

*Berberis Hakodadi*.—This delightful berberis is an introduction from Japan, and has proven itself hardy at Dorset Park, N. Y., the specimen from which our picture was taken having been grown on the Pratt estate.

*Viburnum lantanoides* ranks among the most useful of the viburnums, and is one of the best growers. It deserves recognition, also, from the fact that it is American, being indigenous to the New England States.



Viburnum lantanoïdes.

Berberis Hakodatî.

**CORRESPONDENCE.**

*Insertions in this column to all communications free from animus; but the opinions expressed do not necessarily reflect our own.*

**A Mutual Fire Insurance Co.**

I have been interested in all communications appearing in your paper upon the subject of fire insurance. Our firm is paying insurance rates of \$2 per \$100 per year on our greenhouses, while we pay \$1 per \$100 for three years upon our dwelling and barn near by. For some years I have noted all greenhouse fires, and do not believe that the losses warrant the high rates charged. There has been no greenhouse fire in this vicinity for several years. In fact, I do not think there has been more than one loss near here in the memory of man.

The only possible hope of relief seems to be through the mutual plan. The objection to the mutual plan is the possibility of arson. It seems to be assumed that florists are less honest in this particular than others. I believe the assumption is false, and that florists, as a class, are as honorable as any.

We know that the millers, the lumbermen and others successfully operate mutual insurance. In fact, I do not now recall any mutual insurance company which limits its risks to its own class which has been unsuccessful for any other reason than lack of intelligent business methods. I assume that our craft has sufficient brains to successfully manage a mutual insurance association if a moderate start could be made. The first essential is a legal corporate existence. The latest suggestion of a plan is the formation of a *Lloyd's* under the New Jersey law. This Mr. Esler states requires a cash investment of \$50,000 and a personal liability of several wealthy land owners of the State. This it would seem impossible to procure.

I desire to suggest a plan. A Mutual Fire Insurance Company here procured a charter some years ago under the Indiana law. For a time it did a thriving business all over the country from Minnesota to Florida. In the wreck of mutual companies in 1880 it failed and was placed in the hands of a receiver. It has, however, settled all claims against it, and the receiver will soon be discharged and the legal existence of the corporation be left intact. The directors of the company do not desire to continue the business and are willing to dispose of their charter rights for \$2,500, the price they paid for it.

If policies are issued from the home office in Indiana this company could legally do business in nearly all the States of the Union.

If a sufficient number could be interested in the matter I would undertake to start the business if desired. My plan would be to get an option

on this charter, secure applications for insurance from as many reputable florists as possible, taking not over \$5,000 from any one person. At the outset we would estimate the average rate at \$1 per hundred per year. Take premium notes for five years' premiums, assessable for fire losses only. If we were able to secure acceptable applications sufficient to make the premium notes amount to say \$50,000, we would then issue the policies, notify an applicants that their insurance was in force and collect one year's premium, or one-fifth of the premium notes, and thereafter each new application would execute his note and pay the premium for one year upon the acceptance of the application and issuance of the policy.

My idea would be to collect at the end of the year another year's premium, whether needed for fire losses or not, and create a small reserve fund. Then issue policies when desired for a cash premium.

If you see fit to publish this communication and your readers are interested in it, I desire that every one favoring the plan write me saying so and stating the amount of insurance they would carry if the plan was perfected. I could then report at the next S. A. F. meeting what the prospects were, and if favorable we could formulate a plan and select officers of a preliminary, if not a permanent, organization.

I refer to Messrs. E. G. Hill, of Rich-

mond, Ind.; E. H. Michel and C. G. Fleckenstein, of St. Louis, Mo.; W. N. Rudd and J. C. Vaughan, Chicago, as those they desire it, but I would prefer that some other person be selected after the preliminary correspondence.

W. J. VESSEY, Fort Wayne, Ind.  
[We gladly open our columns for a full discussion of Mr. Vessey's proposal and hope that all florists interested in the formation of a Mutual Fire Insurance Company will furnish us with their opinions thereon, at the same time forwarding a copy of their communications to Mr. Vessey.—Ed.]

**The Hybridization of Tulps and Raising of Seedlings.**

At the tulip conference held in London, England, last month a paper on this subject was presented and read. From a report of same in the *Gardeners' Chronicle* we make the following extracts:

The essayist commenced by insisting upon the condition necessary in the hybridization of any plant with a view to obtaining improved progeny, viz., that of parentage. In the selection of parents much thought and care were essential. The hybridist need not be careful to select "rectified" varieties only, as breeders were just as good, and, indeed, breeders generally carried more seed than a rectified variety.

He enumerated the characteristics desirable in a good tulip. Form and coloring were each necessary of consideration, and neither need be given the precedence over the other, but there was further room for improvement in form, such as in perfecting the roundness of the cup, increasing the shoulder and the breadth of the segments; also in clearing the ground color and in improving the markings.

In order to accentuate the class distinction in the double flowers, it was essential to use only pure blood, i. e., to cross biazars with biazars, roses with roses, etc., otherwise flowers of indefinite and undesirable markings would result. Before any flower is fertilized it was necessary to see that the stigmatic surface was in a perfect condition, and it should be guarded by a shield of cotton-wool, as well from the pollen of the same flower as from that of others that might be conveyed by bees, etc. This shield would have to be removed when cross-fertilization was to be effected, and this over the stigma might be again guarded with a new shield of the same material. The petals would not wither immediately after fertilization had occurred, as was the case in many flowers; but when they have dropped it was advisable to cut off that part of the pistil above the seed pod to prevent water from lodging, and thus causing decay. The seed pod would swell rapidly during June and July and ripen in August. At the time the bulbs are usually lifted the new bulb attached to a plant that has been cross-fertilized may be detached and lifted and rested as ordinary ones. It has borne no part in the development of flower or seed. The seeds are best sown as soon as ripe, or early in September, in boxes or pans, under glass, if preferred, or in the open air, covering them about a quarter of an inch deep. If the seed is not sown until February the seedlings will be up in May. They first appear similarly to an onion, with one leaf only, and though increasing each year in size, as the bulb increases also, one leaf only will be produced until the bulb has reached its age to flower, which will vary from four to seven or eight years, according to whether the bulb produces a "dropper bulb" or not after the fourth year. If it produced a "dropper bulb" the flowering stage is considerably delayed. Seedlings should be selected as soon as possible, though it was not always advisable to pass final judgment upon a variety for the first few years. All seedlings exhibiting poor form in the flowers should be destroyed, before they have become "rectified." Had this been strictly done in earlier years, there would now be fewer flamed and feathered varieties with attenuated petals, possessing little to recommend them, except satisfactory markings. Generally the biazars showed the greatest development at present in form and markings.



Kerria japonica.

Cercis canadensis.

Spiraea prunifolia, fl. pl.

THE TARIFF CHANGES

Bulls, Dutiable at 30 Per Cent.—A New Paragraph Inserted for Orchids. Palms Azaleas, Etc.

The tariff, so far as it affects the interests of the florist, has remained for a long time as it was, but on Wednesday last, and the following changes made: A new paragraph was inserted, covering plants as under:

"Orchids, palms, dracaena, crotons, and azaleas, 30 per cent. ad valorem. Tulips, hyacinths, narcissi, jonquils, lilies, lilies of the valley and all bulbs, bulbous roots or corms, which are cultivated for their flowers, 30 per cent. ad valorem. Natural flowers of all kinds, preserved or fresh, suitable for decorative purposes, 30 per cent. ad valorem.

On stocks, seedlings, etc., Mr. Allison for the committee proposed several changes, making the rate on stocks, cuttings, etc., of Myrobalan plum, of Mahaleb or Mazzard quince 30 cents; dried 15 per cent. ad valorem per 1000 plants; stocks, etc., of pear apple, quince or St. Julien plums 33 and 15 per cent. ad valorem; 1000 plants of pear apple, quince 25 cents each. The paragraph with the above changes was agreed to, and now reads:

240. Stocks, cuttings, or seedlings of Myrobalan plum, Mahaleb or Mazzard cherry, three years old or less, 50 cents per thousand plants and 15 per cent. ad valents each; stocks, cuttings, or seedlings of pear apple, quince, and St. Julien plums, three years old or less, and evergreen seedlings, 25 cents each; stocks, cuttings, or seedlings of all fruit and ornamental trees, deciduous and evergreen, shrubs and vines, narcissi, tulips, hyacinths, and all trees, shrubs, plants and vines, commonly known as nursery stock, not specially provided for in this tariff, 30 cents per 1000 plants, three years old or less, and evergreen seedlings, 25 cents each; cuttings, or seedlings of all fruit and ornamental trees, deciduous and evergreen, shrubs and vines, narcissi, tulips, hyacinths, and all trees, shrubs, plants and vines, commonly known as nursery stock, not specially provided for in this tariff, 30 cents per 1000 plants, three years old or less, and evergreen seedlings, 25 cents each. The paragraph with the above changes was agreed to, and now reads: On onions Mr. Vest moved to reduce the rate from 40 to 20 cents a bushel. He said the Bermuda onion came here in the last few months and did not come into competition with the home crop of onions. The effect, therefore, was to raise the price of the Bermuda onion, and to grow a home grown, without affording any protection. The amendment was rejected.

In onions Mr. Hanson said, and in house provision on garlic was restored and the rate changed to three-fifths per cent per pound. On peas Mr. Allison proposed a committee modification, making the rate on peas, green, 10 cents per bushel; dried peas, 30 cents; split peas, 40 cents. Agreed to. On seeds Mr. Howley said he would address a few remarks to the Finance Committee against the committee change in the tariff on seeds, and he was specially provided for from 40 to 25 per cent. Mr. Lindsey pointed out that "blue grass seed" was on the free list, so that the seeds of blue grass will be satisfied with 25 per cent. on their seeds.

The seed paragraph finally went over. As regards the duties on cuttings, some has occurred in the duty on bulbs as specified in the Digley Bill. As regards the orders these have been placed subject to the settlement of the tariff question, and the Senate's endorsement of the Digley Bill. The Digley Bill puts it beyond question that 30 per cent. duty will be charged on all this tariff, so that growers may be prepared for an advance in price made by dealers in accordance with this duty, which, in many instances, will be an important matter. The duty of 30 per cent. on fresh natural flowers will have a beneficial effect, in properly meeting the importations from Bermuda at Easter time, and tend to put an end to the tariff competition.

The seed paragraph having now passed, will be taken up again at a later date.

Experiment Station Bulletins.

We note, with pleasure, the efforts being put forth by the various experiment stations to make the information issued of as much practical value as therein the view of the florist, by embodying in the bulletins, or leaflets, the subjects on which the bulletins treat. As an example we have the recent Farmers' Bulletin (53) of the recent Farmers' of Agriculture, on "How to Grow Cereals and Grasses," by W. H. Williams Falconer, and "Notes on Plums," in Bulletin 131, issued by the Cornell University

Experiment Station, Ithaca, N. Y., which contains a valuable formation of varieties of plums for Western New York, furnished by S. D. Willard and Professor Wiley, of the New York Agricultural Experiment Station, Geneva, N. Y. He has also introduced the system of planting, possibly the most important of our bulletins, in which the "meat" is provided in simple and interesting language, and which will be of great service when they are likely to prove the most instructive and useful to the practical grower. The bulletins of the Experiment Station employ an editor, Mr. Frank H. Hall, and the several bulletins that have been issued since the inauguration of the system demonstrate that Mr. Hall has a thorough grasp of the situation.

Obituary.

Charles Wright.

The first of our florists, for many years, has been one of the best known florists of this city, died at his summer residence at Connetquot Point on Narragansett Bay, on Friday last. He was located on Franklin Street several years, but his date has not been engaged in active business, although until December, 1885, he conducted a small greenhouse at 387 Washington Street, which was subsequently sold to the late moved to Connetquot Point. Mr. Wright was born in England sixty-one years ago, and came to this country in 1847, settling in this city. He entered the employ of one of the leading florists, with whom he remained until he engaged in business for himself. A widower and eight adult children—six girls and two boys—survive him. W. H. M.

Hon. Joseph S. Fay.

Hon. Joseph S. Fay, the well-known horticulturist and philanthropist, of Wood's Hill, died at Cambridge, Mass., the first of last week, and was buried from Christ's Church in that city on Wednesday. The deceased was 83 years of age, and died from cancer of the stomach, after a long illness, during his tiring from active business pursuits had spent his summers at his seaside home in the city of Nahant, where he were carried on to a large extent and on a thoroughly scientific basis. He was a member of the American Forestry Congress and the Massachusetts Horticultural Society, and a constant exhibitor at the State fairs. He raised roses, pansies and hollyhocks being among the specialties he most admired. He was a man of a high order of intellect, a charitable, genial and kind. Among the monuments which will for many years stand as a memorial to his memory and coming generations is a fine forest of 100 acres at Wood's Hill, which Mr. Fay successfully grew from seed that he planted. W. K. W.

New York.

Trade drags along slowly; prices obtainable upon much of the stock offered being only 75 per cent. of the value. There are even under the figures of last week, yet the quality of much of the stock is light and the quality of the better is better than date. But quality makes but slight difference in the price of the stock. The stock it will hardly realize at the present time, but is valued in small lots, while in larger quantities it is selling at 75 per cent. and the 1.00 \$2 to \$4 are frequent taking prices. Many of lower grade go unsold. Sweet peas are in the market in quantities that are difficult at times to realize even 81 per 100 bunches. Some roses sent in are practically all gone at 41 per cent. and some of value from 50c. to \$4 per 100. A few extra and fancy Kaiser realized 46 and 48 per cent. and many realized 44 per cent.

Acacia Sale.

Friday brought the spring auctions practically to an end, this winding up of the last season. The quantity of stock for sale was larger than usual; stock was offered in greater quantities than ever, and the general speaking was in a better condition, yet buying was slow and prices ruled lower. Pitcher & Haden's Auction Sale of Orchids. The first of the season of the unreserved clearance sale of this one offered in the past season of orchids was brought to a close on Friday last, at the public auction. Much of the stock had been disposed of by private sale during this spring, and the remainder was sold at a price not all of the highest value. Taking this

fact into consideration the prices obtained both days may be regarded as very good. Miscellaneous cypripediums averaged \$40 per 100; some of the better specimens \$100. The attendance at the sale both days was not large, but had the advantage of being largely composed of persons of a professional and amateur element. Several of the latter bought liberally. Among the buyers were: J. R. W. Allen, New York; Geo. Rochelle, N. Y.; John Condon, Brooklyn, N. Y.; R. W. Allen, Hudson, N. Y.; J. C. W. Van Dine, New York; J. C. Wilkes-Barre, P. T. Jones, Short Hills, N. J.; J. J. Jones, Convent Station, N. J.; J. C. W. Van Dine, New York; and the most recent addition to the commercial ranks—Dr. Kitchin, of Orange, N. J., who was present on both days. Visitors in town were: E. G. Hill, Richmond, Va.; G. H. Hill, Washington, D. C., and W. H. Hill, Minneapolis, Minn. A Dimmock sailed for England on Thursday the S. S. Campania.

A Business Man.

The firm of H. H. Berger & Co., of San Francisco, will, on July 1, open main offices on Broadway, this city, which will be at No. 227, and at No. 258, is not correct. Address is P. O. box 2106. All eastern business, correspondence, etc., should be sent to the office in the New York office, the San Francisco branch being retained for the business of the coast business.

F. E. McAllister Co. Assign.

On Friday last, June 11, the corporation of F. E. McAllister Co., 69 Cortlandt street, New York, was organized for the benefit and protection of all their creditors. A meeting of the creditors was held on Monday, June 17, with the view of obtaining an expression of opinion as to what would be most advisable to take looking to the future.

The assignee's statement showed assets as follows: Cash on hand, \$10,438.53, valued at \$7,530.28; stock on hand, bonded, \$7,098.40, valued at \$2,232.10; fixtures, \$12,490.96, valued at \$200.00; cash in bank, \$128.97. Total practical assets, should the business be allowed to continue, \$21,260.07. Liabilities, \$108,521.22. Preferred claims for \$3,936 were made at the time of the assignment, the holder of which had been notified of the assignment to waive their preference, and accepted the terms offered on behalf of the corporation. The balance of the claims payable in equal installments at 3, 6 and 9 months, should the creditors agree to accept the terms offered, will be \$104,585.26. Mr. F. E. McAllister stated that the volume of his business had been much reduced, and that he was suffering from depression and he assigned on account of pressure by the French Syndicate in the interest of their creditors, Mr. Lydecker, acting for the syndicate, which is the largest creditor, could not accept the terms offered until he had consulted with his principals, and until they are heard from, a definite agreement cannot be reached. The interests of the other creditors represented was almost unanimously in favor of the corporation, but the majority of the creditors the business was forced to a wind-up there would be practically nothing for them.

Much sympathy was shown by the trade to Mr. McAllister in his misfortune, and many of the creditors, under adverse circumstances and severe losses. His failure is an honest one, and the creditors would be sincerely pleased to see him thoroughly established once again on an independent basis.

The committee appointed by the Park Board to examine the plans of the New York Botanical Garden, at Bronx Park, has reported their rejection in their present form.

Summit, N. J.

Several members of the trade in this vicinity are interested in a newly organized body named the British American Society, of the first season. The quantity of stock for sale was larger than usual; stock was offered in greater quantities than ever, and the general speaking was in a better condition, yet buying was slow and prices ruled lower. The president of the Society is R. W. Cline, and Wm. Jessop is secretary. The members of the committee are: A. Herrington and T. Petch. The Mayor, G. Wilcox, will represent the township and district at the banquet.

Exclusively a Trade Paper. Entered at New York Post Office as Second Class Matter. Published EVERY SATURDAY BY A. T. DE LA MAR PUBLISHING CO., LTD., 2, 4, 6, & 8 Duane St., New York. P. O. No. 3697. Telephone 2154. Circulation REGISTERED CABLE ADDRESS (Commercial Cable) FLOREX, New York.

SUBSCRIPTIONS: \$1.00 per year in United States, Canada and Mexico, \$2.00 per year for foreign countries in postal union. Payment in advance. No back subscriptions will commence with the first number after receipt unless otherwise specified. Back numbers can be supplied when wanted. The date of address label shows when the subscription expires and is the subscriber's receipt. No other receipt is sent.

ADVERTISEMENTS: Copy must reach this office not later than Thursday or order of advertisement in issue of the following Saturday. \$1.00 per line. Special positions extra. Discounts on contracts of one month or longer. Orders from unknown parties must be accompanied by cash or satisfactory references.

Subscribers

Should give notice to the publishers at the end of their time if they do not wish to continue taking paper, otherwise it is continued and payment exacted.

Exclusively a Trade Paper. THE FLORISTS' EXCHANGE is published in the interests of those commercially identified with the Florist, Seed and Nursery business. New subscribers are requested to enclose business card or other proof of their connection with these trades.

Contents.

AMERICAN ASSOCIATION OF NURSERYMEN 590, 591 ANNANDALE ROSE SHOW 593 GARNATIONS 597 CATALOGUES RECEIVED 598 CHANGES IN BUSINESS 598 CHRISTMAS TREES 598 CORRESPONDENCE 593 EXHIBITIONS 598 EXPERIMENT STATION BULLETINS 592 FLOWERING TREES AND SHRUBS (ILLU.) 592 FOREIGN NOTES 585 NEW YORK FLORISTS' GLEE 587 NURSERYMEN PRIVILEGED CHARACTERS 587 OBITUARY: Charles Wright, Hon. J. S. Fay 594 QUESTION BOX 598 ROSES, A PLEA FOR GARDEN 597 SEED TRADE REPORT 587 TARIFF CHANGES ON THE 594 TRADES: Colorado Springs, Northampton, Mass. 593 New York 593 Boston, Philadelphia, St. Louis 594 Buffalo, Minnesota, Montreal 594 Cincinnati, St. Paul, Toronto 593 Baltimore, Syracuse 596 Providence, Washington 596 TRUFFS. HYBRIDIZATION OF 598

For the Busy Man.

The F. E. McAllister Seed Co., New York, made an assignment last week.

The Hon. Jos. S. Fay, of Woods Hill, Mass., an ardent horticulturist, is dead.

A suggestion as to how the Mutual Fire Insurance for florists may be instituted appears on page 596.

Mr. Irving House, Rochester, N. Y., has been elected president of the American Association of Nurserymen.

The members of the Baltimore Florists' Club have practically completed the matter of affiliation with the S. A. F.

The Senate has concurred in the duty of 30 per cent. on bulbs, as specified in the Digley Bill. A similar tariff has been placed on the various dracaena, crotons and azaleas. Some changes have also been made in the tariff on nursery stock. See this page.

Boston.

Ball Time Present. The dull times for the florists have made their appearance and quiet reigns all along the line. Weddings are few and far between...

Feasible Exhibitions. Last Saturday was promia day with the Massachusetts Horticultural Society...

Philadelphia. Business has moved much better this past week, owing to the large number of engagements...

Philadelphia. Sweet peas have been used very extensively in the past week...

Philadelphia. Charles Price is sending in some very good outdoor-grown Brunner, which bring prices of ten to twelve cents...

Horticultural Society. The June meeting on Tuesday last was very successful one. The exhibition of roses was very good...

Horticultural Society. The contest for the Michell premiums for 1897, which offers prizes amounting to \$1,000.

The Carriage Banquet. The committee in charge is much encouraged at all appearances that they have come in. The banquet will be a large one...

Valuers. James Heine, of Jacksonville; Martin Renkau, representing H. Bayer...

Talent, has arranged an excellent program for the banquet. Besides entertainment the programme contains...

Myers & Santman have finished building a new full-span house for Bay State...

H. H. Battles has been very busy with his hybrids. He should be very liberal large decorations this past week...

The tournament of the Florists' Bowling Club started this evening. Class I rolls on Monday evenings...

Club Notes. The regular monthly meeting of the Florists' Club was held last Thursday...

Club Notes. The regular monthly meeting of the Florists' Club was held last Thursday...

Club Notes. The regular monthly meeting of the Florists' Club was held last Thursday...

Club Notes. The regular monthly meeting of the Florists' Club was held last Thursday...

Club Notes. The regular monthly meeting of the Florists' Club was held last Thursday...

Club Notes. The regular monthly meeting of the Florists' Club was held last Thursday...

Club Notes. The regular monthly meeting of the Florists' Club was held last Thursday...

Club Notes. The regular monthly meeting of the Florists' Club was held last Thursday...

ersdorfer & Co., Philadelphia, and Hunter Hough, Paducah, Ky., were in town last week.

Market Notes. There was some improvement in the flower market last week, roses being the chief attraction...

Exchange. Sixteen cents was an awful glut, thousands going to waste. Prices were firm at 25 cents per 100...

Florist's Club. Mr. H. Hudson closed his store for the summer.

Florist's Club. Mr. Bayer will become a benedict next week.

Florist's Club. Fred C. Weber is advertising his present store for sale.

Florist's Club. Elizabeth Nara Co. has moved to 296 Goldborough A. T.

Florist's Club. G. H. Richmond, spent two days in this city this week.

Florist's Club. The regular monthly meeting of the Florists' Club was held last Thursday...

Florist's Club. The regular monthly meeting of the Florists' Club was held last Thursday...

Florist's Club. The regular monthly meeting of the Florists' Club was held last Thursday...

Florist's Club. The regular monthly meeting of the Florists' Club was held last Thursday...

Florist's Club. The regular monthly meeting of the Florists' Club was held last Thursday...

Florist's Club. The regular monthly meeting of the Florists' Club was held last Thursday...

Florist's Club. The regular monthly meeting of the Florists' Club was held last Thursday...

Florist's Club. The regular monthly meeting of the Florists' Club was held last Thursday...

Florist's Club. The regular monthly meeting of the Florists' Club was held last Thursday...

Florist's Club. The regular monthly meeting of the Florists' Club was held last Thursday...

Florist's Club. The regular monthly meeting of the Florists' Club was held last Thursday...

Florist's Club. The regular monthly meeting of the Florists' Club was held last Thursday...

Florist's Club. The regular monthly meeting of the Florists' Club was held last Thursday...

Florist's Club. The regular monthly meeting of the Florists' Club was held last Thursday...

Florist's Club. The regular monthly meeting of the Florists' Club was held last Thursday...

Florist's Club. The regular monthly meeting of the Florists' Club was held last Thursday...

Florist's Club. The regular monthly meeting of the Florists' Club was held last Thursday...

Florist's Club. The regular monthly meeting of the Florists' Club was held last Thursday...

Highland Nursery. 683 Rock Ave. ... 691

Decorative Plants. Baker Bros. ... 690

Florist's Club. Elizabeth Nara Co. ... 696

Exchange. Sixteen cents was an awful glut, thousands going to waste.

Fertilizers. American Jado Co. ... 697

Flower Pots, Tubs, Vases, etc. H. H. Hudson ... 698

Florist's Club. Elizabeth Nara Co. ... 696

Florist's Club. Elizabeth Nara Co. ... 696

Florist's Club. Elizabeth Nara Co. ... 696

Florist's Club. Elizabeth Nara Co. ... 696

Florist's Club. Elizabeth Nara Co. ... 696

Florist's Club. Elizabeth Nara Co. ... 696

Florist's Club. Elizabeth Nara Co. ... 696

Florist's Club. Elizabeth Nara Co. ... 696

Florist's Club. Elizabeth Nara Co. ... 696

Florist's Club. Elizabeth Nara Co. ... 696

Florist's Club. Elizabeth Nara Co. ... 696

Florist's Club. Elizabeth Nara Co. ... 696

Florist's Club. Elizabeth Nara Co. ... 696

# Retiring from Business!

# ROSES.

MICHEL PLANT AND BULB CO.

Plants, Wagons, Horses,

EVERYTHING FOR SALE

BEFORE JULY 1st, 1897.

DON'T MISS THE BARGAINS.

All plants at the Greenhouses at Magnolia and Tower Grove Avenues, have been marked down to ridiculously low prices in order to sell at once. Everything offered at about half price. COME AT ONCE and secure first selection.

All plants, etc., not sold at private sale Two 23d, will be offered at AUCTION on June 23d and 24th, 1897, beginning at 10 o'clock A. M. each day. Positively no limit or reserve.

Send for Catalogue of Stock on Hand.

Leasehold and 30,000 feet of Greenhouses are also For Sale. Speak Quick!

ADDRESS **E. H. MICHEL, Sec'y,**  
1620 Olive Street, - - ST. LOUIS, Mo.

When Writing Mention Florists' Exchange

# STRAWBERRY PLANTS

FOR GROWING.

Parties desiring catalogues with their name and address should write us at once. Price \$7.00 per 1000. Orders received now for potted plants, ready July 1st.

ELIZABETH NURSERY COMPANY, Elizabeth, N. J.

When Writing Mention Florists' Exchange

# STORRS & HARRISON CO.,

Wholesale Nurserymen and Florists,

When Writing Mention Florists' Exchange

# VEGETABLE PLANTS

All strong, well rooted plants, of standard varieties.

Sweet Potato Plants.....	100	1000
Cabbage.....	\$0 15	\$3 00
Tomato.....	10	100
Broccoli, White Cape.....	25	250
Celery, thinnings.....	15	100
Brussels Sprouts, bulkette.....	15	100
Celery, strong, well-rooted.....	20	160

TRADE PRICE LIST FREE.

Send Stamp for Samples.

E. C. HARGADINE, Felton, Del.  
When Writing Mention Florists' Exchange

# VEGETABLE PLANTS

CABBAGE—Hudson's Succession, Early Flat Dutch, Lapland, Autumn King, Birnie's Head, Late Flat Dutch, Golden Wonder, Dutch, Late Drumhead, Mammoth Rock Red and Drumhead Savoy. Field grown. 15c. per 100; \$1.00 per 1000; \$5.00 per 10,000.

TOMATO—Royal Red, Stone and Paragon, 15c. per 100; \$1.00 per 1000.

EGG PEPPER AND SNOBALL CAULIFLOWER plants, 25c. per 100; \$2.00 per 1000.

CELERY—Dwarf Golden Heart, Golden Self Blanching, Giant Pascal, New Rose, White Plume and Giant Parage Celery, 15c. per 100; \$1.00 per 1000; \$5.00 per 10,000.

We are headquarters for all kinds of Vegetable Plants. Anything you want not here mentioned send for price list. We make liberal reductions on orders and carry in 100,000 lots.

Cash with order.

R. VINCENT JR. & SON, White Marsh, Md.  
When Writing Mention Florists' Exchange

Can show as fine blocks of color as the following: White Plume, Golden Self Blanching, Hartwell's Perfection, and Giant Pascal, nice strong plants; 9c. per 1000; \$9. per 10,000. Cash.

WM. S. HERZOG, Littleton, N. J.  
When Writing Mention Florists' Exchange

# CELERY

White Plume and Golden Self Blanching nice plants, \$1.00 per 1000.

J. C. SCHMIDT & CO., Bristol, Pa.  
When Writing Mention Florists' Exchange

# CELERY PLANTS

Strong and Stocky, \$1.00 per 1000; \$6.00 per 10,000.

Special Low Ez. Rates Guaranteed.

Most Practical Book on Celery Growing, 15 cts.

PETER J. SCHUB, Alhambra, Mich.  
When Writing Mention Florists' Exchange

# The Great French "Strawberry"

"Olay large soft fruitlike on saw runners old plant fruiting in June, making roses which fruit in Aug. and Sept. Write to

A. T. COLDSBROUGH,  
Wesley Heights, - - WASHINGTON, D. C.  
When Writing Mention Florists' Exchange

# PEACH AND PLUM TREES

FOR FALL PLANTING.

Reliable and clean stock for all wholesale rates. All desirable leading varieties of PEACHES, and also new in fruiting orchards. Have the best Triumph, Greenbeane, and Sueded fruiting. Buds too to supply for all seasons. Very large stock of PLUM TREES all on plum roots, one and two years. Buds can be supplied these also, either from nurseries or orchard trees. Have all the leading plum growers varieties. Amongst Burbank, Chabot, Saturna, Willard and others; also new Red June and Wilson's. Write for catalogue. Usual supply also of Asparagus Roots to offer. ALEXANDER PULLEN, Mildred Nurseries, Mildred, Del.  
When Writing Mention Florists' Exchange

## A Plea for Garden Roses.

In his most interesting paper read before the Dutchess County Horticultural Society on Wednesday last, at Amandale, N. Y., Mr. Patrick O'Mara, of New York, had the following to say in regard to selecting varieties:

And now comes the most difficult question to decide, viz., what are the roses to plant? This is where the doctors are sure to differ. There are in existence at the present time say in round numbers, two thousand five hundred varieties of roses—an embarrassment of riches. If I had the space every one of them would be planted. The real pleasure of a rose garden does not consist so much in comparing reds with whites, yellows and pinks as in studying the nice distinctions and individual characteristics. Many we learn to love for their faults. The late Mr. Peter Henderson would not stand in for "garden for pleasure" bearing upon this question, which is worth repetition: An old German florist, who was very fond of ladies even dey comes to buy mine rose. dey wants him double; dey wants him nice cooler; dey wants him smell good; dey wants him moony; dey wants him to be everything in von rose. Now, I hat to say to lose ladies dat I sees not dat lady dat is rich, dat is young, dat is good temper, dat is beautiful, dat is healthy, dat is schmart, dat is eeferydings in von lady. dat is not mooch. Poetry is no truth than thier in the German's petulance. And what rose lover would want all the roses in the garden? Not many, at all events. The variation is the charm. We would wish that the little Polyantha or Multiflora Roses was not so numerous as they are. The tea or hybrid perpetuals; but they are, nevertheless, charming without it. They are, perhaps, the only made roses will give us roses with qualities now lacking in our present favorites, for which we thank them in advance. Some day, too, we may have a nomenclature committee, who will meet the French roses at the portals of our country and rechristen them with a pronounceable name before presenting them for which we must ever thank them in advance. A rose by any other name than Mademoiselle Suzanne Marie de Rotocmach, just as good as any other sweet and we would not miss our train trying to tell our neighbor what it is called. To be loved that is the name. I day changed her name and that it was a shorter one. Provision should be made to call roses by their own names in the name of the rose. The man who called a rose "Grande Duchesse Herliere" may as well have called it "no consideration for the poor gardener or horist who would have to write it out every time he wanted to write it on a pencil. They don't write it. They simply say the rose is no good; it is called by a name which is not to their revenue. It is a pity that the French raisers cannot see the absurdity of roses being called by names and above all, calling them after every member of a family, resulting in unlimited names.

The last five years have been most prolific in new roses; in fact, almost a revolution in taste, and the material planter to-day has vastly improved material to select from. That grand rose, the King of Hearts, has added an entirely new feature to the garden and must be reckoned with for a complete change of style in the garden pillar form on an arbor, or on the house. No garden is complete without it. The new roses to be had are the Yellow Rambler (Aglia), and the dream of years is realized in it. Then there are the new climbing roses, the synne, and the White Rambler (Thalia). It is, perhaps, too early yet to say that these latter are of ironclad hardiness,

but they promise well. Another beautiful pillar rose is Carmine Pillar, unique in its magnificent shade of rosy carmine. Rosa Wichurana has added another charm to the garden, and the garden, and I do not know a more pleasing sight than to see it trained up post, almost reaching the top, or trained to form an archway. Its foliage alone will repay for the trouble, but its flowers are no characters in their grace and beauty. The double varieties of this are a great advance, especially the Carmine flower, and the quintessentially fragrant, The Pink Rose, one of the hybrids, has the charming quality of carrying no perfume, and useful rose. For covering terraces or low boundary walls, these roses are of inestimable value.

The new hybrid Sweet Briars add another feature to our garden roses. The hybrid tea section has been wonderfully developed, particularly by J. Pernet-Ducher, who has given us Mme. Caroline Testout, Mme. Germaine Trochon, a yellow variety like Sunset, which has proved hardly at New York; the new Hybrid Tea, Mme. Germaine Trochon, and Souvenir du President Carnot. These are all fine garden roses and come very near to supplying the demand the German list so vainly wished for. Belle Siebert must not be overlooked either. The new roses to be had in requisition, Kaiserin Augusta Victoria, supplies the finest white flowers it is yet to be seen.

For those who like novelty in roses that taste can be satisfied with Roger Lambert, which is very much like Gen. Jacqueminot, after being treated with a sulphur match as we did when I was in France. The wonder of the Inconstant Beauty, with its many-colored flowers, another and a lovely "fresh" rose.

In hybrid perpetuals the year is made memorable by the introduction of Juliette, the rose that won for its raiser the gold medal of the Massachusetts Horticultural Society—peerless in its fragrance, lovely in its color, and unpareed. And before I forget it, let me whisper in your ear that there is another rose to be had, which will bloom out soon and which will be worth having in the garden, viz.: Mrs. Robert H. G. The new rose, which is a long, pointed bud, a beautiful clear pink—as yet it is without a rival in its color, and which has made a strong impression, let me say that it is likely to lead all the pink forcing roses, as well as because of its size and magnificent color.

And what of garden is complete without the Rosa Rugosa? Now, a rose garden without a representative like the one of "Hamlet" without the "moody Danae." If there is room at all put in a plant of that beautiful child of the Rugosa, Mme. Georges Brunt.

Don't forget to save a corner for the new roses, which are being introduced so fast. There is nothing on earth prettier than a perfect bud of the Old Rose, the Queen of the Garden, Moss, not forgetting that pale beauty, Comtesse de Murinais. It is a pity our country has not more of these fine plants; and I, for one, would surrender tomatoes so that we could have them in the garden.

Speaking of climate reminds me that people will hanker after standard roses, but the price of such roses is ridiculous and has set against them here. There may be beauty in a standard rose—"I'm not good for it,"—but it is not to be had in my mind with the circus clown on stilts, the difference being that he gets two smiles at a look, and a dollar of money, while the poor rose is perched on a stork's leg for a whim, or as a plant to be seen.

If you have room at all, put in a plant of Rosa setigera, which will do it and which you will never be ashamed of. And near by put in a plant or two of the "old" roses, such as the near, or its American cousin is apt to throttle it. A little farther on put in a plant of the "old" roses, such as the near, or its American cousin is apt to throttle it. A little farther on put in a plant of the "old" roses, such as the near, or its American cousin is apt to throttle it. Give them plenty of room and let them have their own way to a great extent. The roses will call at their own account of stiffness.

There is no limit, apparently, when one comes to the roses. There are roses, but the little Polyantha roses must not be forgotten as an edging for your beds of tea roses, and above all, Climbing

Souper. One of the newer tea roses I must not forget to mention, viz.: Princess Alice de Monaco, somewhat of a cross to the throat.

Now any one who attempts to talk about roses is sure to be asked which are the best. In the bush roses, if I was limited to a dozen, I would name the following: In hybrid perpetuals, Jubilee, Mrs. John Laing, Ulrich-Bronner, Dismer, Anna de Diesbach, Paul Neyron, Mme. Gabriel Luizet, Helen Keller, Gen. Jacqueminot, Baron de Bonstrier, Baroness Rothschild, Mabel Morrison, Margaret Dickson, Peter Hugo, S. M. de Rodocanachi, Alfred Colroy.

In hybrid teas, La France, Souvenir du President Carnot, Captain Christy, Kaiserin Augusta Victoria, Mme. Caroline Testout, Souvenir de Wootton, Augustine Guinoiseau, Mlle. Germaine Truchon, Madame Abel Chateaux, Belle Siebrecht, Madame Schwaller and Camerons.

In tea and monthly roses, Souvenir de la Malmaison, Hermosa, Marie Gullot, Maman Cochet, Clothilde Souplet, Martin Digne, Princess Alice de Monaco, Bridesmaid, Perle des Jardins, Francaise Kruger, The Bride, Marie Van Houtte, Sunset, Corona, Development, Mme. Welsh, Mrs. Paul, Mme. de Wattenville. And I would try hard to squeeze them all out and new.

With this I close. The trouble has been in preparing this "pica" what to put in. There is no doubt that many will find serious omissions; they are granted in advance, and I trust to see them supplied next year at this place by some other rose lover who will brave criticism by making another plea for roses. We may have our differences of opinion as to methods of culture or preference of varieties, but it is safe to assert that we all agreed on one thing, viz.:

"There is not a single flower that can vie in beauty with the rose."

50,000 CALIFORNIA VIOLETS Extra Strong. Ampelopsis Vetch, each dormant, one foot in plants, 2 1/2 in. high, \$3.00 per 100. CANNAS Italia, \$1.00 per doz.

BENJAMIN CONNELL, Florist, West Grove, Pa. When Writing Mention Florists' Exchange

2000 Acahyphia Macafeeana STRONG, 2 1/2 in. pots, \$5 per 100; \$40 per 1000, CASH.

T. H. MOSS, - - Govanstown, Md. When Writing Mention Florists' Exchange

VIOLETS MY SPECIALTY

All first-class plants. Orders received now for fall planting. Marie Louise, Lady Campbell, Swaney White, Fair-Canter, Frances White, California. Price on application.

F. ERD, BULLION, See CHM. L. L. N. Y. When Writing Mention Florists' Exchange

Fine Healthy Stock of Brides, 'Maids, . . .

Petes, Meteors,

From 2 1/2 inch pots, ready for shifting, \$4.00 per hundred.

JOHN HENDERSON CO. Flushing, N. Y. When Writing Mention Florists' Exchange

ROSES Strong, Healthy Stock.

BRIDE AND BRIDESMAID.

3 1/2 inch pots, \$4.00 per 100; \$35.00 per 1000, 2 1/2 " \$2.50 " \$20.00 "

LANDIS & CO., Lancaster, Pa. When Writing Mention Florists' Exchange

SURPLUS STOCK OF ROSES

BRIDE, BRIDESMAID, PERLE. 2 1/2 and 3 inch pots, \$3.00 to \$4.00 per 100.

E. VOLMER, 80 Pallade Ave., West Hoboken, N. J. When Writing Mention Florists' Exchange

ROSES

Strong 2 1/2 inch plants in splendid shape. Yellow Rambler Aglaia, \$1.00 per doz; \$8.00 per 100. Climbing Wootton, 75 cts per doz; \$8.00 per 100.

Cash with order. JOHN A. DOYLE, - - Springfield, Ohio. When Writing Mention Florists' Exchange

JACKSON & PERKINS CO., NEWARK, N. J. Will have to offer for season of 1897-'98, a choice assortment of:

Field Flower Roses, new and old varieties, Climax, Ornamental Straps, and Trees, Fruit Trees and Small Fruit Plants.

Price List ready in July. Write for it. When Writing Mention Florists' Exchange

ROSES

Bride, Bridesmaid, Mabel Morrison, Marie Van Houtte, Perle, Wootton, etc., in 4 inch pots, all first-class stock. \$10.00 per 100; \$45.00 per 500; \$80.00 per 1000.

GEORGE L. PARKER, 807 Washington Street, Dorchester, Mass. When Writing Mention Florists' Exchange

ROSES

Fine Roses from 2 1/2 inch Pots. Per 100 Per 1000

Bride..... \$3.00 \$25.00 Bridesmaid..... 3.00 25.00 Mermet..... 3.00 25.00

TERMS: Cash with order.

CHAS. E. SMITH, Cor. Jefferson and Jackson Aves., YORK, PA. When Writing Mention Florists' Exchange

SURPLUS ROSES

50,000 ROSES

Table listing various rose varieties and their prices per 100 and per 1000. Includes Cath. Mermet, Bride and Maid, Perle des Jardins, etc.

MOSS ROSES. Mousellon, Henri Martin, James Vetch, Capt. Berogor, Bianche double, Laell Moss, Mme. Hochelambert, Glory of Mosses, Alice Leroy, Profile or Gracilis, etc.

POLYANTHA ROSES. Mlle. Cecil Brunner, George Perret, Marie, Orl, Mignonette, \$3.00 per 100.

NANZ & NEUNER LOUISVILLE, KY. When Writing Mention Florists' Exchange

Pays Well Even out of Season. My advt. in regard to the Model carteron appert in your March 8th number, although out of season, proved a good restorative.

THEOBALD PARKER Brooklyn, N. Y., March 30, '97.

4000 LA FRANCE, fine plants, \$3.00 per 100.

ALTERNANTHERA, red, strong, \$2.00 per 100. SANCHEZIA NOBILIS, \$4.00 per 100.

Will Exchange for Perle, Bride and Maid. M. J. BROS. El Dorado, Blair Co. Pa. When Writing Mention Florists' Exchange

ROSES

Carefully grown Forcing Stock, 2 1/2 inch, strong. Meteor . . . . . \$3.00 \$35.00

The Bride . . . . . 3.00 25.00 Perle des Jardins . . . . . 4.00 35.00

ACHILLE, the pearl, \$8.00 per doz. SWAINSONA SPLENDENS. Only one trip, \$1.00 PER 100

Cash, or first-class bank references must accompany all orders.

J. B. HEISS, 116 So. Main St., Dayton, O. When Writing Mention Florists' Exchange

ROSES

Bride and Bridesmaid, from 2 1/2 in. pots, \$5.50 per 100; \$30 per 1000. From 3 in. pots, \$3.00 per 100; \$35 per 1000. We have the largest stock of:

'NEW ROSE "WHITE M. NIEL" in this country.

Field Grown Carnations.—Orders booked now for fall delivery. All the leading sorts. Write for prices.

CASH WITH ORDER. De YOECHT & De WILDE, Wilmington, Del. When Writing Mention Florists' Exchange

40,000 FIRST QUALITY FORCING ROSES

Ready for immediate planting. Fully equal to those sent out the last four years, first-class and perfectly healthy in every respect. Lately selected from the flowering shoots used in propagating.

WOOTTON. LA FRANCE, AMERICAN BEAUTY, BELLE SIEBRECHT, 3 inch pots, \$5.00 per 100; 4 inch pots, \$1.00 per 100.

METEOR, KALEISHA A. V., SUNSET, BOSS WILSON, MERMET, PERLE, NIPHEDE, GAYLIEK, M. HUBSE, BRIDE, BRIDESMAID, SAFRANO. 3 inch pots, \$5.00 per 100; 4 inch pots, \$1.00 per 100.

Mention this paper. J. L. DILLON, Bloomsburg, Pa.

PHILADELPHIA ROSES

Strictly first-class, clean stock, in 3 inch pots. Beauty, Meteor, Bride, Bridesmaid . . .

MYERS & SAMTMAN, Wyndmoor, Chestnut Hill, Phila., Pa. When Writing Mention Florists' Exchange

50,000 BRIDE AND BRIDESMAID! 50,000 Extra Fine.

From 2 1/2 inch pots, \$2.50 per 100; \$20.00 per 1000. From 3 1/2 inch pots, \$4.00 per 100; \$38.00 per 1000. From 4 1/2 inch pots, \$5.00 per 100; \$45.00 per 1000. Limited amount of Goutier and Niphotos. 2 1/2 in. pots at \$3.00 per 100. Strong young SMILAX PLANTS, \$1.00 per 100. CUT SMILAX, 12 cents per string.

TERMS CASH. THE NATIONAL PLANT CO., Dayton, Ohio. When Writing Mention Florists' Exchange

ROSES FOR FORCING.

Clean, Healthy Stock, from 2 1/2 and 3 inch pots.

Perle des Jardins . . . . . 2 1/2 in. 3 in. \$3.00 \$5.00 Madame C. Testout . . . . . 4.00 5.00 Augusta Victoria . . . . . 3.50 5.00 Madame Hoste . . . . . 5.00

American Beauty . . . . . 2 1/2 in. 3 in. \$5.00 \$8.00 The Bride . . . . . 3.50 5.00 Bridesmaid . . . . . 3.50 5.00 Sunset . . . . . 3.50

ORDER NOW. ROBERT SCOTT & SON, 19th & Catharine Sts., Philadelphia, Pa. When Writing Mention Florists' Exchange

LOOK HERE

The following plants are in A1 condition. ROSES, one of 2 1/2 pots, Bridesmaid and Bride, \$3.00 per 100; \$25 per 1000; Meteor, \$3.00 per 100; \$25.00 per 1000.

Altera, out of 5 1/2 inch pots, \$2.00 per 100. Many prices on application. Greenhouses, 2 1/2 inch pots, rooted runners, 50c. per 100; \$4.00 per 1000. Terms Cash or C. O. D. C. WERKEL & SON, Mayor City, Pa. When Writing Mention Florists' Exchange

ROSES, GERANIUMS, COLEUS.

Carnations all plants out and sold; will have first-class of field plants in the Fall. Greenhouses, 2 1/2 inch pots, \$2.00 per 100; 3 inch pots, \$1.00 per 100. Altera, rubra, red and yellow. Meteor, 2 1/2 inch pots, \$2.00 per 100. Vereschamit and Golden Bedder, rooted cuttings, 7c. per 100; 2 1/2 in. pots, \$1.00 per 100. Each or satisfactory references.

CEO. M. EMMANS, Newton, N. J. When Writing Mention Florists' Exchange

SURPLUS STOCK.

In fine condition, free from Mildew. Perles, 4 in., \$8.00 per 100. Perles, Brides, Bridesmaids, 2 1/2 in., \$4.00 per 100.

Extra fine stock. Cash with order or C. O. D. GEO. E. FANOURT, Wilkes-Barre, Pa. When Writing Mention Florists' Exchange

Sterling American Novelty, the WHITE COCKET

In a sport from Maman Cochet, which is considered 1/2 of the best pink out-of-door rose. It has all the good qualities of its parent; its color is pure white in winter, outside petals slightly tinged in summer; and in cold it will prove the best white out-of-door rose up to date.

Price, per dozen, from 3 inch, \$4.00. 100, 8. 20.00.

All Orders Must be Accompanied with Cash. J. COOK 318 CHARLES STREET, Baltimore, Md. When Writing Mention Florists' Exchange

When Writing Mention Florists' Exchange



Cincinnati.

Trade Fairly Good.

Hot weather has arrived and everything outdoors, weeds included, is growing. Carnations have improved wonderfully in the last few days.

Cut flower business has been fairly good, in a wholesale way, during this season. Shipments have been numerous. Store trade has been rather spasmodic, school commencingments and other things selling out, and it is still holding their own, although they are getting smaller as the season wears on and the light is on, trying to keep of midsize. Beauty that for this time of year are very fine sell at 1 1/2 and 2 cents each. A. A. Victoria, long stemmed, select stock, tenth 6 cents, while second and third grades sell at 1/2 and 3 cents for good, clean stock, while mildewed flowers bring virtually nothing. Petie sells at 2 cents. This rose is the old standby in this part of the country and the call for young plants of this variety is far in excess of the supply. Several of our growers are looking for this kind of stock. Niphetos is popular with one man, principally for store trade, as it is still a beautiful and graceful rose for funeral work, but it has some roses as a back number. Meteor is the best of all red roses and good stock is wholesaling at 4 cents; 2 and 3 cents being asked for second quality. It is strange that more of our growers do not get a stock of Kaiserin Augusta certain for summer bloom; it is certainly the best white rose we have for this time of year.

Carnations are still holding their own, Portia and Scott predominating, although Silver Spray and Mrs. Fisher are in evidence. All sell at 50 cents to \$1 per hundred.

Sweet peas are in over-supply and 25 cents up to 100 per 100 price. Their blue corn flowers sell quite well at 25 cents per 100. Ten Week, double and single, sell at 50 cents per 100. Lily of the valley is in good demand, the stock coming in is very plentiful at 10 cents per 100. Some are about over; a few pink ones are still to be had at 2 and 3 cents.

Many of the growers are about done. Many of the growers are drying off their calls.

Ben George and James Allen are now lessees of the Oakley greenhouse. They have taken possession and already have one house of chrysanthemums planted. Fred Loder's establishment will build, during the summer, two or three large houses in the same neighborhood.

Charles A. Hart, of Charleston, W. Va., writes me that he has leased his greenhouse for one year. He is a young man of ability, and will push the business.

E. H. Giesy, of Lockland Lumber Co., writes me Saturday. He states that their refrigerator and greenhouse business is good, but not understanding the market has hard times.

Charles A. Dean, with E. W. Guy, Belleville, Ill., was a caller during the weather affects plant trade.

Owing to the cold and backward season, many growers are still holding large quantities of bedding stock on hand. A careful estimate shows that not one-half the bedding has been done this season, in comparison with other seasons.

Annual Outing. The annual outing of the florists of Cincinnati will be held at Coney Island on July 22, instead of at Woodlands, as was originally expected. We expect to see a large attendance and hope as many visiting brethren as can will join in the boat race at Vine Street every two hours; first boat at 9 A. M.

Howling Fire. Bowling has at last struck this city and several teams will be organized for the contest at Coney Island, Oct. 14. Boat race, on July 22, the assisting of Charles J. Jones, William Murphy, Juanus Baer, Brother Brooks,

Albert Brunner and E. G. Gillett will be for the first practice. Other teams will be six, wishing to compete will please notify the captain, Charles J. Jones, as soon as possible. The prizes are: First, 100 cent cigars; second prize, 100 five-cent cigars; third, 100 stogie. Special programme for the day will be issued. E. G. GILLETT.

St. Paul.

Weather Favorable to Good Crops.

Since my last report we have passed from extreme cold (for the season) to extreme heat, the thermometer for five days has fluctuated 70 to 84 degrees in the shade. This changed condition has brought out an abundance of good stock. While some of the roses present a pinched and disordered appearance, the majority of them are good. Although there is an abundance of good stock on hand there is no general glut. Prices have weakened a little, but in general they are well maintained.

Cut flower trade in general has been good, shipping was never better. City trade has been variable, the main call being for weddings and funerals.

Chrysanthemums have progressed at a lively pace since the warm wave struck us, and is now well advanced. Superb specimens are being marketed, hustling night and day with a large force and has his work pretty well completed. The season extends to all the parks in the city—some eight or ten in number—including Como, with its several hundred acres to embellish, the task of planting and overseeing all is no easy one.

Many of our growers are busy planting chrysanthemums and roses and overhauling and repairing their houses.

Business Done.

W. Strehlow, of Forest Lake, who is running the houses formerly owned by Governor Merriman, depending in some fine roses and carnations. The houses formerly owned by F. G. Gault, Excelsior, are now controlled by J. Brackley.

R. Seeger has discontinued his city store and has moved to a new place. He grows some of the best roses brought to our market and will, no doubt, get some elegant stock the coming season.

A floral festival to be held during the State fair will be projected by the committee in charge, but we learn has now been abandoned, for which we are sorry. VERITAS.

Toronto.

Business is Good. Business for the last week has been an immense quantity of bedding plants having been disposed of, but the stock is not near exhausted. The market on Saturday was crowded with plants than any other day this year, and as they were not all sold at the end of the day expressed a hope that the end of the season is not yet here.

Many flowers have been very plentiful and cheap, but the demand for them at low prices has been and is very good. The mail next week is likely to be larger than the supply and prices have been denied. Roses for next week are offered at 10 cents per 100, and I think they are likely to be all sold. Outside cut flowers are good and plentiful. Ferns, pyrethrums, iris and flowering shrubs in great variety are sold in large quantities.

Most of the best of our parks is finished and gives promise of looking better this summer than ever.

Johnston, N. Y.

Thomas Barson has bought the greenhouse and dwelling house owned by Fred K. Aucek on East Main Street and will continue the business there and as they have owned houses on the west of the city. Spring trade has been and still is brisk, although the weather has been anxiously waiting for a settlement of the tariff, and business is dull in consequence.

New Bedford, Mass.

E. S. Haskell has suffered a sad bereavement in the loss of his wife. He has the heartfelt sympathy of all here in the trade, who expressed it in the many floral emblems sent.

Nephrolepis Exaltata Bostoniensis.

In large and small quantities from \$40.00 to \$80.00 per 1000.

MINE IS THE GENUINE STOCK. FRED C. BECKER, - - - 1730 Cambridge Street, CAMBRIDGE, MASS. When Writing Mention Florists' Exchange

PALMS and FERNS HEADQUARTERS FOR

FINE STOCK.

All the leading varieties of PALMS, from 4 inch pots to specimens in 10 inch pots. FERNS—Adiantum Cuneatum and aspid. varieties, in 2 1/2 inch pots, at \$75.00 per 100, or \$300.00 per 1000.

LEMUEL BAILL, MISSISSAUGA, PHILA., P. A. When Writing Mention Florists' Exchange

LATANIA BORBONICA 2 1/2 INCH POTS. Strong, \$5.00 per 100. Cash.

EDWIN A. SEIDEWITZ, 36 W. LEXINGTON ST., BALTIMORE, MD. When Writing Mention Florists' Exchange

FERNS

Paris Serotina, Paris Erecta, Adiantum, Magnifica, Aspidium Tenesense, etc. \$3.50 per 100. CASH WITH ORDER. CHAS. F. BAKER, Utica, N. Y. When Writing Mention Florists' Exchange

VICTORIA REGIA and RANDI

We have now ready for shipment a lot of Victoria in various sizes. Where artificially planted at once, but in non-heated tanks, become thoroughly settled and warm. We can also supply a full line of all other kinds of ferns.

HENRY A. DREER, 714 Chestnut St., Philadelphia. When Writing Mention Florists' Exchange

AMPELOPSIS WEITCHII Strong, healthy, 7000 plants, \$3.00 per 100. Double Ampelopsis, 2 inch, in bud and \$4.00 per 100. Cereus Verschaffeltii and Golden Biederer, 2 1/2 inch, \$2.00 per 100. Smilax, 4 inch, \$5.00 per 100.

EVERETT & INSALL, Hackettstown, N. J. When Writing Mention Florists' Exchange

CLEMATIS. In pots, good plants, \$4.50 per doz., \$40.00 per 100. Fine, heavy, 2 1/2 inch plants, at \$4.00 per doz., \$35.00 per 100. Named varieties, \$1.00, each, \$1.00 per doz., \$10.00 per 100.

SMILAX Strong plants from last year, 3 1/2 in. pots, \$1.00 per 100. Smilax, 4 inch, \$5.00 per 100. P. A. BALLER, Bloomington, Ill. When Writing Mention Florists' Exchange

SMILAX and CARNATIONS, Smilax, 2 1/2 in. pots, \$2.00 per 100; \$18.00 per 1000. Carnations, 2 1/2 inch plants, at \$4.00 per doz., \$42.00 per 1000. Harrison's White, 3 1/2 in. pots, \$1.50 per 100; \$15.00 per 1000. Cash with order. P. M. De Wit, Torrance, Phila., Pa. When Writing Mention Florists' Exchange

SMILAX From 2 inch pots, \$1.00 per 100. HYDRANGEA From 3 inch pots, \$1.00 per 100. SEND FOR SAMPLES. Cash with order. FRED. BORNBERG, Cape May City, N. J. When Writing Mention Florists' Exchange

THE LARGEST STOCK in the West. GEO. WITTBOLD, 1709 N. Halsted St., CHICAGO, ILL. When Writing Mention Florists' Exchange

JULIUS ROEHR'S, Headquarters for Palms and Decorative Plants, RUTHERFORD, N. J. P. O. Address, - - - Carlton Hill, N. J. When Writing Mention Florists' Exchange

PALMS AND OTHER DECORATIVE PLANTS AT ORANGE GROVE, N. J. Send for new Wholesale list of plants on application. Also send in list of your wants. W. J. ITTNER, Orange Grove, N. J. When Writing Mention Florists' Exchange

THE SARATOGA FLORAL FETE will be held on Friday, September 3. At the first floral fete there were two hundred floral decorated carriages and three decorated bicycles. At the fete held last September there were only a few floral decorated wheels and the number of floral carriages and floats remained about the same as the first year.

Brooklyn, N. Y. P. Katzer has obtained a permit to build a greenhouse 90x17 1/2 feet. Saratoga, N. Y.



**LORD & BURNHAM CO.,**  
**HORTICULTURAL ARCHITECTS AND BUILDERS,**  
**STEAM AND HOT WATER HEATING ENGINEERS.**

Plans and Estimates furnished on application.



Largest Builders of Greenhouse Structures. Six Highest Awards at the World's Fair. Send four cents postage for Illustrated Catalogue.

**LORD & BURNHAM CO.,**  
 ARCHITECTURAL OFFICE, 160 FIFTH AVE., COR. 21st STREET, NEW YORK.  
 Factory: Irvington-on-Hudson, New York. Mention paper

**CALIFORNIA RED CEDAR**  
**Never Decays.**  
**A. DIETSCH & CO. 619 Sheffield Avenue, CHICAGO.**  
 MANUFACTURERS OF  
**RED CEDAR AND CYPRESS GREENHOUSE MATERIAL.**  
 When Writing Mention Florists' Exchange

SEND FOR OUR NEW CATALOGUE, WHICH SHOWS

**The New Automatic Cable Ventilator**

As it is put up in the house complete. We also give you prices with a guarantee that each machine sent out will operate your house successfully. Both machines now made in two sizes.

**A. Q. WOLF & BRO., Dayton, Ohio.**

When Writing Mention Florists' Exchange

**STANDARD VENTILATING MACHINE.**  
 NONE  
**EQUAL IT**  
 IN  
**Strength**  
 AND  
**Durability**  
 Send for Catalogue.

**NOTHING**  
**Flimsy**  
 OR  
**Complicated**  
 about it.

**E. HIPPARD, YOUNGSTOWN, OHIO.**

When Writing Mention Florists' Exchange

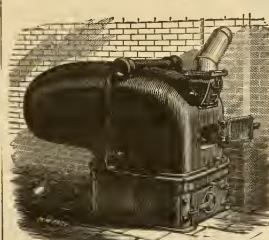
**TRADE GREENHOUSES.**  
**THE BEST MADE.**

"Florists" Get Your Plans and Estimate from  
**PLENTY'S HORTICULTURAL WORKS,**  
 148-156 Randolph Ave., **JERSEY CITY, N. J.**  
 When Writing Mention Florists' Exchange

**The Ormsby Ventilating System**  
**F. A. Ormsby**  
 71 Summer St.  
**MELROSE, MASS.**

When Writing Mention Florists' Exchange

**GREENHOUSE HEATING AND VENTILATING,**  
 Horticultural Architecture and Building.



**Hitchings & Co**

ESTABLISHED 1844.

233 Mercer Street, **NEW YORK**

**FIVE PATTERNS OF BOILERS.**  
 NINETEEN SIZES.  
 Perfect Sash Raising Apparatus.  
 Rosehouses, Greenhouses, Etc., of Iron Frame Construction erected complete or the Structural Iron Work shipped ready for erection.

Iron Frame Benches with the "Perfect Drainage Bench Title"

or slate top.

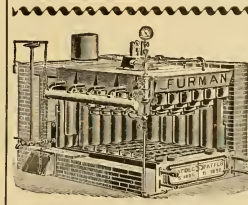
SEND 4c. POSTAGE FOR ILLUSTRATED CATALOGUE.

**GLASS** FOR GREENHOUSES, CONSERVATORIES, GRAPERIES, HOTBEDS AND FLORISTS' USE GENERALLY, AT LOWEST RATES.  
**L. HERRIS & SON**  
 497 W. BROADWAY, NEW YORK, 89 LIBERTY ST., NEW YORK  
 Est. Houston and Riverside Sts. Est. Liberty and Church Sts.  
 When Writing Mention Florists' Exchange

**GLASS!** For Greenhouses, Conservatories, Graperies, Hotbeds and all other purposes, at Lowest Rates. **GLASS!**  
**N. COWEN'S SON 392 & 394 West Broadway, New York.**  
 Formerly 154 and 156 So. Fifth Avenue.  
 Get our Figures before buying Glass. Estimates Freely Given.  
 When Writing Mention Florists' Exchange

**MASTICA**  
 FOR GLAZING GREENHOUSES. SUPERIOR TO PUTTY IN EVERY WAY.  
 It is not hardened by the extreme heat or cold that a greenhouse is constantly subjected to both inside and out. Mastic is adhesive and remains permanently elastic so that it is not forced out of place by expansion and contraction of the panes. It does not crack with the frost, and is not injured by any saving time and expense. With Mastic can "bed-in" or use on the outside, but with a machine only.  
 Mastic and Mastic Glazing Machine were given  
**HIGHEST AWARD OF SOCIETY OF AMERICAN FLORISTS AT PITTSBURG, 1895.**  
 Put up in gallons, \$1.00. Half gallons, 50 cts. Quarter gallons, 35 cts.  
 Mastic Glazing Machines, \$1.00 each.  
 Send for full descriptive circular and testimonials. Agents in all the principal cities.  
**F. O. PIERCE CO., Sole Manufacturers, 170 Fulton St., New York.**  
 When Writing Mention Florists' Exchange

**FURMAN BOILERS**  
 specially adapted to  
**Greenhouse Heating.**  
 200 Styles and Sizes. Steam and Hot Water.  
**SAFE, SUBSTANTIAL, SIMPLE, ECONOMICAL.**  
 Portable or Fixed set.  
**GREAT COAL SAVER.**  
 Send for catalogue. Estimates Free.  
**THE HERENDEEN MFG. CO.,**  
 Home Office: 13 Fay St., Geneva, N. Y.  
 Branch Offices:  
 Boston, 54 Oliver St.; Philadelphia, 1019 Betz Bldg.;  
 New York, 39 Cortland St.; Milwaukee, 135 2d St.



**FURMAN BOILERS**  
 specially adapted to  
**Greenhouse Heating.**  
 200 Styles and Sizes. Steam and Hot Water.  
**SAFE, SUBSTANTIAL, SIMPLE, ECONOMICAL.**  
 Portable or Fixed set.  
**GREAT COAL SAVER.**  
 Send for catalogue. Estimates Free.  
**THE HERENDEEN MFG. CO.,**  
 Home Office: 13 Fay St., Geneva, N. Y.  
 Branch Offices:  
 Boston, 54 Oliver St.; Philadelphia, 1019 Betz Bldg.;  
 New York, 39 Cortland St.; Milwaukee, 135 2d St.

When Writing Mention Florists' Exchange

**ATTENTION, FLORISTS!**  
 It will be to your advantage to look into the merits of the Scollay "Invincible" Hot Water Boiler.  
 It is all that its name implies, and don't forget it.  
 Cuts and full information mailed on application.

**JOHN A. SCOLLAY,**  
 74 & 76 MYRTLE AVE.,  
**BROOKLYN, NEW YORK.**  
 When Writing Mention Florists' Exchange

**J. K. ALLEN,**  
Wholesale Commission Dealer in  
**CUT FLOWERS,**  
57 W. 28th St., New York.  
Orders by mail or telegraph promptly attended to.  
Telephone Call, 382 38th St.  
**ROSES AND VIOLETS SPECIALTIES.**

**W. S. ALLEN,**  
17 West 28th St., New York.  
  
Correspondence Solicited.

**FITZGERALD & HAMMOND,**  
(Late with TREV. BOHNS),  
Wholesale Commission Dealers in  
**CUT FLOWERS,**  
115 West 30th Street,  
Consignments Solicited. **NEW YORK.**

**FORD BROS.**  
**WHOLESALE FLORISTS,**  
111 West 30th Street,  
**NEW YORK.**  
Consignments Solicited. Telephone 250 29th St.

**WM. H. GUNTHER,**  
**Wholesale Florist**  
VIOLETS AND CARNATIONS A SPECIALTY.  
Consignments Solicited.  
30 West 24th St., **NEW YORK.**  
Telephone, 3-200-38th Street.

**MICHAEL A. HART,**  
**Wholesale & Commission Florist,**  
113 W. 30th St., **NEW YORK.**  
Telephone Call, 187 28th St.  
All kinds of Roses, Violets and Carnations a specialty.  
**ORDERS PROMPTLY ATTENDED TO.**

**H. A. HOFFMANN,**  
**Wholesale Florist**  
44 W. 29th St., **NEW YORK.**  
Telephone Call, 1258 29th St.  
American Beauties, Carnations, White Violets,  
Specialties. CONSIGNMENTS SOLICITED.

**EDWARD C. HORAN,**  
**WHOLESALE & FLORIST,**  
No. 34 W. 29th St., New York.  
The Bride, Hermes and American  
Beauty Specialties.

**JULIUS LANG,**  
**Wholesale Florist**  
53 WEST 30th ST.  
Consignments Solicited. **NEW YORK.**

**MILLANG & CO.,**  
**Wholesale Commission Florists,**  
501 Sixth Avenue,  
Corner 30th Street, **NEW YORK.**  
BRANCH CUT FLOWER EXCHANGE.

**W. E. LYNCH,**  
**Wholesale Dealer in Cut Flowers.**

We are Headquarters for finest Carnations and Roses, Violets, Valley, Romane, Smlzak, Adiantum, Best selected stock reserved for shipping orders. Send us your mail order for our  
19-21 RANDOLPH STREET, CHICAGO.  
When Writing Mention Florists' Exchange

**CHAS. W. McKELLAR,**  
**WHOLESALE COMMISSION FLORIST**

Largest and best market in Chicago. Constant supply of all reasonable flowers.  
Consignments of first grade goods solicited. Complete stock of Florida  
Supplies, Wire-work, etc. All orders given prompt attention.  
Telephone, Main 11249. **45, 47, 49 WABASH AVENUE, CHICAGO, ILL.**  
ED. F. WILSON, MANAGER

When Writing Mention Florists' Exchange



NAMES AND VARIETIES.	NEW YORK	BOSTON	PHILADELPHIA	CHICAGO	ST. LOUIS
	June 18, 1897.	June 16, 1897.	June 16, 1897.	June 16, 1897.	June 15, 1897.
A. Beauty, fancy and special. ....	20.00 to 25.00	12.00 to 25.00	20.00 to 30.00	15.00 to 25.00	5.00 to 25.00
"  extra ..... ..	10.00 to 15.00	....	15.00 to 20.00	8.00 to 10.00	....
"  No. 1 ..... ..	10.00 to 15.00	....	4.00 to 6.00	4.00 to 6.00	....
"  Cute and ordinary. ....	5.00 to 10.00	5.00 to 8.00	6.00 to 12.00	3.00 to 5.00	....
Bennett, Queen. ....	5.00 to 1.00	....	5.00 to 4.00	....	50 to 1.00
Bride ..... ..	5.00 to 4.00	1.00 to 2.00	2.00 to 3.00	1.00 to 3.00	50 to 1.00
Bridesmaid ..... ..	5.00 to 4.00	5.00 to 2.00	5.00 to 8.00	1.00 to 3.00	50 to 1.00
Briggs ..... ..	5.00 to 75	....	4.00 to 6.00	....	50 to 1.00
C. A. Victoria ..... ..	2.00 to 5.00	2.00 to 6.00	2.00 to 5.00	....	50 to 1.00
L. Franco, extra ..... ..	5.00 to 4.00	2.00 to 5.00	2.00 to 4.00	2.00 to 4.00	50 to 1.00
"  ordinary ..... ..	2.00 to 4.00	2.00 to 4.00	....	....	50 to 1.00
Magna Charts ..... ..	....	....	....	....	....
Miss Tustin ..... ..	5.00 to 2.00	....	5.00 to 5.00	2.00 to 4.00	50 to 1.00
Meteor ..... ..	1.00 to 4.00	1.00 to 4.00	2.00 to 5.00	2.00 to 3.00	50 to 1.00
Mrs. E. Moran ..... ..	....	....	....	....	....
Niphetos, Hotel ..... ..	....	....	....	1.00 to 1.00	50 to 3.00
Papa (tonitru) ..... ..	5.00 to 2.00	2.00 to 3.00	2.00 to 4.00	1.00 to 2.00	50 to 3.00
"  " ..... ..	....	....	....	....	....
Sony de Wootton ..... ..	....	....	....	....	50 to 1.00
Miss Tustin ..... ..	....	....	....	....	....
Wattville ..... ..	....	....	3.00 to 4.00	....	....
W. B. ... ..	75 to 75	50 to 1.00	....	....	50 to 1.00
ASABODA ..... ..	5.00 to 65.00	50 to 60.00	50.00 to 55.00	60.00 to 60.00	5.00 to 1.00
DELIA ..... ..	1.50 to 3.00	....	2.00 to 1.00	....	4.00 to 8.00
"  All colors, inferior grades ..... ..	....	....	....	25	50 to 1.00
"  B. Standard White ..... ..	15	50 to 1.00	50 to 1.00	50 to 75	....
"  Pink ..... ..	15	50 to 1.00	50 to 1.00	50 to 75	....
"  Vermilion Red ..... ..	15 to 50	50 to 1.00	50 to 1.00	50 to 75	....
"  Tel. & Yaris ..... ..	15 to 50	50 to 1.00	50 to 1.00	50 to 75	....
"  P. P. ....	50 to 1.00	....	1.00 to 2.00	1.00 to 1.25	....
"  Pink the highest Pink ..... ..	50 to 1.00	....	1.00 to 2.00	1.00 to 1.25	....
"  Pink the lowest Pink ..... ..	50 to 1.00	....	1.00 to 2.00	1.00 to 1.25	....
"  Red ..... ..	25 to 75	....	1.00 to 2.00	....	....
"  Red and varieties (Tel. & Yaris) ..... ..	25 to 75	....	1.00 to 2.00	....	....
"  NOVELTIES ..... ..	50 to 1.00	....	....	....	....
"  CAYLERS ..... ..	30.00 to 40.00	....	....	....	....
"  LILIE ..... ..	3.00 to 4.00	....	....	....	....
"  LILIE, Longform ..... ..	3.00 to 6.00	6.00 to 5.00	....	....	....
"  LILIE of the Valley ..... ..	3.00 to 4.00	2.00 to 4.00	2.00 to 3.00	3.00 to 4.00	2.00 to 3.00
"  MOONBEAMS ..... ..	....	....	50 to 1.00	....	....
"  PANDIES ..... ..	1.00 to 3.00	....	....	4.00 to 4.00	50 to 2.00
"  PINK ..... ..	5.00 to 15.00	50 to 1.00	....	....	10.00 to 15.00
"  SWEET PEAS (100 bunches) ..... ..	1.00 to 3.00	.... to 75	25 to 50	25 to 50	10 to 2.00
"  " ..... ..	....	....	....	....	....
"  " ..... ..	....	....	....	....	....
"  " ..... ..	....	....	....	....	....
"  " ..... ..	....	....	....	....	....
"  " ..... ..	....	....	....	....	....

For Prices of Fancy and Special Stock see our Correspondence Columns.  
Prices are for quantities of one hundred unless otherwise noted.  
Prices quoted above are given only after very careful inquiry, and while we do not  
guarantee their accuracy, they will be found practically correct up to the date mentioned.

**REINBERG BROS.,** Wholesale Growers of Cut Flowers. .  
..... 500,000 Feet of Glass. .  
  
We can fill all orders on short notice with all leading varieties of **ROSES and CARNATIONS.** We are headquarters for fine **AMERICAN BEAUTIES.** Give us a trial and convince yourself.  
**SALESROOM 51 Wabash Avenue, CHICAGO, Ill.**  
When Writing Mention Florists' Exchange

**SAMUEL S. PENNOCK, WHOLESALE FLORIST.**  
**...FOR JUNE WEDDINGS...**  
A large stock of **VALLEY, Pink and White SWEET PEAS,** of extra fine quality.  
A full line of all other desirable cut flowers.  
Will close at 6 P.M. after June 19.  
**1612-1614 Barker St., Bet. Chestnut & Market Sts. Philadelphia, Pa.**  
Local and Long Distance Phone 5210.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Illinois Cut Flower Co.,**  
J. B. DEAMUD, Manager,  
WHOLESALE COMMISSION FLORISTS,  
51 Wabash Ave., Chicago.  
Consignments Solicited.

**KENNICOTT BROS. COMPANY,**  
**Wholesale Cut Flowers,**  
88 Wabash Avenue,  
CHICAGO, ILL.  
WIRE WORK A SPECIALTY.

**FRANK MILLANG,**  
**Wholesale Commission Dealer**  
**...in Cut Flowers...**  
408 East 34th St., New York City,  
Cut Flower Exchange. Telephone Call, 1654-38th.

**THE NEW YORK CUT FLOWER CO.**  
119-121 West 23d Street,  
112-114 West 24th Street,  
Telephone 733, 18th St., **NEW YORK.**  
**THE LARGEST DEALERS IN CUT FLOWERS IN THE WORLD ...**

**PURDY & BLAUVELT,**  
Wholesale and Commission Dealers in  
**CUT FLOWERS**  
**MAIDENHAIR FEIN FRODS A SPECIALTY.**  
57 WEST 30TH STREET,  
Bet. Broadway & 6th Ave. **NEW YORK.**

**A. & F. ROLKER,**  
WHOLESALE DEALERS IN  
**CUT FLOWERS**  
53 West 25th St.  
Telephone 2379 38th St. **NEW YORK.**

**W. F. SHERIDAN**  
Wholesale Commission Dealer in  
**CUT FLOWERS**  
39 West 25th St., New York.  
Telephone, 124-38th St.  
PRICE LIST SENT ON APPLICATION.

**FRANK H. TRARNEY, ORLANDO SCHWAB,**  
**TRENLDY & SCENCK,**  
Wholesale Florists,  
38 W. 23rd St., and CUT FLOWER EXCHANGE,  
**NEW YORK.**  
Telephone 961-18th St.  
#1# Consignments Solicited.

**JOHN YOUNG,**  
**Wholesale Florist,**  
51 WEST 28th ST.,  
**NEW YORK.**

**WM. J. BAKER,**  
**Wholesale Florist**  
1432 So. Penn Square,  
Philadelphia, Pa.

**DUMONT & CO.,**  
**WHOLESALE FLORISTS**  
CARNATIONS A SPECIALTY.  
No. 1305 Filbert St., Philadelphia.

**EDWARD REID, Wholesale Florist**  
FINEST VARIETIES:  
ROSES, CARNATIONS,  
No. 40 South Sixteenth Street,  
Local line,  
Blooming TREES. Philadelphia.  
A trial order will convince you that my carnations  
are the finest.

Wholesale Florists JOBBERS IN ALL STATE OR HARDY'S FLORIST'S SUPPLIES. BOSTON, BROOKLINE, CHICAGO.

N. F. McCarthy's FLORISTS' VASES. Horticultural Artisans. 84 HAWLEY STREET, - BOSTON.

GEO. A. SUTHERLAND, Succession to WM. J. STEWART, CUT FLOWERS and FLORISTS' SUPPLIES WHOLESALE. 67 Bromfield St., Boston, Mass.

City Hall Cut Flower Market WELCH BROS., Props. Regular Containers Given Space Free of Charge. Sproles let to growers wishing to sell their own stock. Flowers Shipped to All Points. SEND FOR PRICE LIST.

W. ELLISON, Wholesale Cut Flowers, Florists' Supplies, Wire Designs. 2744 Franklin Ave., ST. LOUIS, MO.

CHAS. G. FLECKENSTEIN, Wholesale Flowers, 1023 PINE STREET, ...ST. LOUIS, MO.

C. A. KUEHN, WHOLESALE FLORIST, 1122 Pine St., St. Louis, Mo. A COMPLETE LINE OF WIRE DESIGNS.

C. W. WORS, Wholesale Florist, 313 N. LEFFINGWELL AVENUE. ST. LOUIS, MO. FINE REPOSSES - Shipped carefully to all parts of the country.

ROGERS PARK FLORAL CO., Wholesale Growers of Cut Flowers OFFICE AND SALESROOM, 41 W. WASH AVE., CHICAGO. Headquarters for AMERICAN BEAUTIES.

Buffalo Cut Flower Exchange, WHOLESALE COMMISSION, 481 WASHINGTON ST., BUFFALO, N. Y. Telephone, Seneca 1366.

HEADQUARTERS in Westerns 485 Washington Street, Chicago, Ill. ROSES, CARNATIONS AND ALL SEASONABLE FLOWERS. WM. F. KASTING, Wholesale 485 Washington Street, Chicago, Ill. Also Dealer in Florists' Supplies & Wire Designs

TO BURN, \$3.00 per lb., 180 lbs. TO SPRINKLE, \$6 per case, 450 lbs. CORRECT KIND. H. A. STODOLSKY, 115 Madison Ave., N. Y. C.

When Writing Mention Florists' Exchange

Providence. The Market Brief. There has been a big improvement in the business during the past week. ... These functions have given the florists all they could handle, while bouquets and baskets have been called for in great numbers. ... Carnations still hold the sway in this market and, generally speaking, are better in quality than usual, although the damp, dark weather has to some extent curtailed the supply. ...

News-Journal. ... In some localities the stem rot, which was so prevalent and destructive last year, is still attacking the plants, but in the major portion of this section plants are practically free from it. ... Overwater tells me that four of sulphur liquid sprinkled about the plants will materially check the ravages of this disease. News-Journal.

The Rhode Island Agricultural Experiment Station issued Bulletin 45, concerning 'The Loganberry, from Seed to Fruitage, which is very interesting and valuable. ... Charles Ogren, foreman for E. J. Johnston, sailed Wednesday for his home in Sweden for a three months' vacation. ...

William Dutcher, who has been sick for several months, is slowly improving and is able to devote more attention to his business. ... Oskar T. Lindmark, recently for three years gardener for J. McGregor, of Brookline, Mass., has entered the employ of E. J. Johnston. ...

Coming Events. ... A lawn party and strawberry festival will be held upon the spacious grounds of Farquhar Macrae on the 16th for the benefit of the Florists and Gardeners' Club of Rhode Island. ...

Weather Harms Plants. The weather up to within the past few days has been remarkable for low temperatures, both day and night. ... Rose Items. Outdoor roses have been better than they were last year, the hybrids being larger and well-colored; ...

The regular monthly meeting of the Florists and Gardeners' Club will be held Friday evening, 23rd inst. ... Sunday, the 13th inst., the eastern part of Rehoboth was struck part of Rehoboth, Mass., was visited by the most remarkable hailstorm that the residents ever experienced. ...

The authorities at the Department of Agriculture have begun a series of experiments in one of the greenhouses at the Department to determine the soil best suited for the growing of violets. ...

Fine Smilax \$15 a hundred strings SWEET PEAS, 10 cents a hundred blooms. Cash with order, please.

W. KEIR, Pikesville, Md. When Writing Mention Florists' Exchange section and name of manager. A good many tomato plants were partially destroyed. ...

A Destructive Pest. Great damage is being done in this vicinity and the outlying districts by canker worms. Fruit trees, especially apples, have suffered considerably from these pests within the past week. ...

Building News. ... David W. McCall is building a new yard of three houses of one story each at 63 Halsey Street. ...

George ... is building a one-story iron roof addition, ten feet square, to his office, 14 Earl Street. ...

Washington. The John Saul Sale. The sale of stove and greenhouse plants at Saul's nurseries last week was but poorly attended by buyers; ...

Weather Harms Plants. The weather up to within the past few days has been remarkable for low temperatures, both day and night. ...

Rose Items. Outdoor roses have been better than they were last year, the hybrids being larger and well-colored; ...

The regular monthly meeting of the Florists and Gardeners' Club will be held Friday evening, 23rd inst. ... Sunday, the 13th inst., the eastern part of Rehoboth was struck part of Rehoboth, Mass., was visited by the most remarkable hailstorm that the residents ever experienced. ...

The authorities at the Department of Agriculture have begun a series of experiments in one of the greenhouses at the Department to determine the soil best suited for the growing of violets. ...

CUT SMILAX. 12c. per string, heavy, 6 to 15 strands. A. J. BALDWIN, Newark, O. When Writing Mention Florists' Exchange

Galax Leaves. CHAS. H. RICKSECKER, Linville, N. C. When Writing Mention Florists' Exchange

FOR FINEST Galax Leaves and Leucothoe Sprays. ALWAYS WRITE THE INTROUCERS. Highlands Nursery, Kawana, N. C. When Writing Mention Florists' Exchange

FERNS! FERNS!! Hardy Cut Ferns. A new crop of Ferns, 1917, first quality, 6c. a doz. Fancy Ferns, 10c. a doz. ...

E. G. HILL & CO., Wholesale Florists, RHICHMOND, INDIANA. When Writing Mention Florists' Exchange

St. Louis Cut Flower Co. WHOLESALE FLORISTS, 1620 Olive St., ST. LOUIS, MO. When Writing Mention Florists' Exchange

CUT SMILAX Choice 6 foot strings, \$20.00 per 100. Annuals out-put, 6000 roses. ADIANTUM CUNEOATUM Extra 20 Fronds, \$1.00 per 100. No attention will be paid to orders not accompanied by the cash.

CUSTAVE SCRADER, Cut Flower Exchange, and Hoffman Boulevard, New York. Newtown, L. I., N. Y. When Writing Mention Florists' Exchange

NEW FERNS! 75 cents per 1000. HARDY CUT FERNS. We have FIRST quality, money order, 10c. We are sure to please

LAUREL ROPING 4 cts. per yard. All orders by mail or telephone promptly attended to. CROWL FERN CO., Millington, Mass. Telegraph Office, New Salem, Mass. When Writing Mention Florists' Exchange

COMPLETE LINE OF SUPPLIES WIRE WORK BULBS ALWAYS HAVE STOCK VIOLET FLOWERS PHONE 1521 BOX 73 ELKS & POLLY WORTH FULLY INSURED

When Writing Mention Florists' Exchange

GERANIUMS

Bruna extra, 2 1/2 inch pots, \$2.00 per 100. ...

2c. GERANIUMS 2c.

Nice well foliaged plants, from 2 1/2 in. pots, in splendid shape, the very best varieties.

BEGONIA REX, in good assortment \$3.50 per 100. ...

CARNATIONS, well established potted plants in the following: Edwanda, Pearl Doves, ...

JOHN A. DYKE, SPRINGFIELD, OHIO. When Writing Mention Florists' Exchange

HERE THEY GO.

Rex Begonia, 2 1/2 inch pots, \$4.00 per 100. ...

GREENE & UNDERHILL, Watertown, N.Y. When Writing Mention Florists' Exchange

FINE VERBENAS IN BUD PLANTS

Many Fine Varieties added to Our Collections. Beat March 15th, 1900, \$3.00 per 100, \$20.00 per 500.

ROSES.

America Beauty, 3 inch pots, \$1.00 per 100. ...

CHRYSANTHEMUMS.

For Varieties and Prices, see April 24th issue.

FROM 3 1/2 IN. CANNAS STRONG POTTS.

Florida's Premier, \$2.00 per 100. ...

MOON FLOWER, true, strong rooted cuttings.

MISCELLANEOUS PLANTS.

Alternanthera, ready for immediate sale, \$2.00 per 100. ...

WOOD BROS., Fishkill, N. Y. When Writing Mention Florists' Exchange

CHRYSANTHEMUMS

All the best standard and varieties, from 20 pots, \$2.00 per 100. ...

VIOLETS

California, Marie Louise, single white, 10 inch pots, \$2.00 per 100. ...

MOONVINES

A nice lot, 3 in. pots, \$2.00 per 100.

AMPELOPSIS VEITCHII

C. EISELE, 11th & Jefferson Streets, Philadelphia, Pa. When Writing Mention Florists' Exchange

DAISIES

In bloom, best strain, \$1.00 per 100. ...

PANSIES

strong plants, commencing to bloom now. ...

2 cts. - GERANIUMS - 2 cts.

Good, str ng plants of the best d white varieties, ...

CHRYSANTHEMUMS

Strong, healthy pots, \$2.00 per 100. ...

GERANIUMS, SMILAX.

BEGONIAS, CHRYSANTHEMUMS, Good 4 in. Geraniums, \$7.50 per 100. ...

BETSCHER BROS., CANAL DOVER, O.

When Writing Mention Florists' Exchange

ECHVEVERIA

\$3.50 per 1000.

GUSTAV OTTO, JERSEY CITY, N. J. When Writing Mention Florists' Exchange

SPECIAL JUNE OFFER

ALTERNANTHERA, yellow, \$2.00 per 100. ...

SMILAX, strong plants.

JOS. H. GUNNINGHAM, DELAWARE, OHIO. When Writing Mention Florists' Exchange

GERANIUMS

Double Geranium, \$6.00 per 100. ...

S. J. REUTER, Westery, R. I. When Writing Mention Florists' Exchange

ASPERGUS PLUMOSUS NANUS,

Cut strings, 10 to 12 feet long, 50 cts. each. ...

W. H. ELLIOTT, - Brighton, Mass.

LARGEST AND BEST STOCK OF PREPARED CYCAS LEAVES

TO BE FOUND ANYWHERE

Metal Floral Designs, Sheaves, Doves, Baskets, Moss Wreaths, Wheat, Milkweeds, Cape Flowers, Wire Work, and all Florists' Supplies.

Write for catalogue. Free to the trade.

A. HERRMANN, 404-412 East 34th Street (Near Ferry), New York, Manufacturer of Metal Floral Designs, Importer and Dealer in Florists' Supplies.

When Writing Mention Florists' Exchange

BASKETS FOR COMMENCEMENTS

A large assortment of all the most popular shapes and sizes.

WHEAT SHEAVES of extra CAPE FLOWERS. Extra quality, quality and weight. strictly pure white. Prices on CYCAS LEAVES in all sizes. application.

SEND FOR OUR ILLUSTRATED WHOLESALE CATALOGUE.

H. BAYERSDOERFER & CO., 56 N. Fourth St., PHILADELPHIA, PA. When Writing Mention Florists' Exchange

CYCAS LEAVES AND FURNAL SHEAVES

BASKETS AND SUPPLIES,

SEEDS AND SPRING BULBS.

At wholesale only; apply for lists. Address AUGUST ROLKER & SONS, NEW YORK, 136 and 138 West 24th Street. P. O. Station E.

GOOD STOCK! LOW PRICES!

Alteranthera per. major. \$1.50 per 100. ...

Aster, 4 varieties, aurea nana, \$1.00 per 100. ...

Cobaea scandens, extra strong, \$2.00 per 100. ...

Geranium, Double Grant, 4 inch pots, \$6.00 per 100. ...

Petunia, double, 8 1/2 inch pots, \$2.00 per 100. ...

Latania Horbortica, 2 1/2 inch pots, \$4.00 per 100. ...

Kentia Belmoreana, 2 1/2 inch pots, \$6.00 per 100. ...

Arceuthobium, 3 plants, 2 1/2 inch pots, \$4.00 per 100. ...

Pandanus utilis, strong, 2 1/2 inch pots, \$4.00 per 100. ...

Veitchii, fine large plants, from \$2.00 to \$5.00 each. Mushroom Spawt as we use ourselves.

JOHN SCOTT, KEAP STREET GREENHOUSES, BROOKLYN, N. Y.

When Writing Mention Florists' Exchange

GOOD STOCK!

Per 100 Per 1000. Geraniums, assorted, 4 inch pots, \$5.00 per 100. ...

Ivy, 4 inch pots, \$6.00 per 100. ...

Rose, 2 1/2 inch pots, \$4.00 per 100. ...

Moss, Salicaria, 2 1/2 inch pots, \$3.50 per 100. ...

German Ivy, strong, 2 1/2 inch pots, \$2.50 per 100. ...

Crevellia robusta, 4 inch pots, \$5.00 per 100. ...

Honeysuckle, golden leaved, 4 inch pots, \$10.00 per 100. ...

Maranta, 18-cot, strong, 2 1/2 inch pots, \$6.00 per 100. ...

Musa Ensete, large plants, 12 inch pots, \$2.00 each; 1 to 3 inch pots, 50 cts. to 75 cts. each. The above are strong plants, have been carried over cool, are now making a strong growth, and will make specimen plants this season.

Strophanthus Dyerianus, 2 1/2 inch, \$10.00 per 100. ...

Swainsona galcigifolia rosea, 2 1/2 inch, \$4.00 per 100. ...

TRADE LIST FREE ON APPLICATION.

Write with order with unknown customers or C. O. D. Orders amounting to \$5.00 and over, F. O. B., N. Y. City.

SEAWANHAKE GREENHOUSES

JAS. C. CLARK, Supt. P. O. BOX 34. WM. L. SWAN, Prop.

When Writing Mention Florists' Exchange

# FLORISTS' EXCHANGE

We are a straight shoot and aim to grow the most vigorous plant.

A WEEKLY MEDIUM OF INTERCHANGE FOR FLORISTS, NURSEMEN, SEEDSMEN AND THE TRADE IN GENERAL.

VOL. IX, NO. 26.

NEW YORK, JUNE 26, 1897.

One Dollar Per Year

## ..PALMS..

### ARECA LUTESCENS.

4 inch pots, 15-18 inches high, 3 plants in a pot..... \$4.50 per dozen; \$35.00 per 100  
5 inch pots, 20-24 inches high, 3 plants in a pot..... \$6.00 per dozen; \$50.00 per 100  
6 inch pots, 25-30 inches high, 3 plants in a pot..... \$10.00 per dozen; \$100.00 per 100

### COCOS WEDDELIANA.

3 inch pots..... \$3.00 per dozen; \$35.00 per 100

### KENTIA BELMOREANA.

3 inch pots, 8-12 inches high, 4-5 leaves..... \$3.50 per dozen; \$35.00 per 100  
4 inch pots, 12-15 inches high, 4-5 leaves..... \$5.00 per dozen; \$50.00 per 100  
5 inch pots, 18-20 inches high, 6-7 leaves, stocky..... \$9.00 per dozen; \$75.00 per 100  
6 inch pots, 20-24 inches high, 8-7 leaves, stocky..... \$15.00 per dozen; \$100.00 per 100

### KENTIA FORSTERIANA.

3 inch pots, 12-15 inches high..... \$3.50 per dozen; \$35.00 per 100  
4 inch pots, 15-18 inches high..... \$4.50 per dozen; \$45.00 per 100

### LATANIA BORBONICA.

2 inch pots..... \$3.00 per 100; \$25.00 per 1000  
3 inch pots, 12-15 inches high..... \$4.00 per 100; \$30.00 per 1000  
4 inch pots, 15-18 inches high..... \$5.00 per 100; \$35.00 per 1000  
5 inch pots, 18-20 inches high..... \$7.00 per 100; \$50.00 per 1000  
6 inch pots, 20-25 inches high, stocky plants..... \$10.00 per 100; \$75.00 per 1000

### LIVISTONA HOOGENDORPII.

4 inch pots, 10-12 inches high, 7 leaves..... \$4.50 per dozen; \$35.00 per 100

### LIVISTONA ROTUNDIFOLIA.

5 inch pots, 12-15 inches high, 7-8 leaves, strong plants..... \$1.50 each; \$16.00 per dozen

### PHENIX RECLINATA.

5 inch pots, 15 18 inches high..... \$6.00 per dozen; \$45.00 per 100

## NOTE THESE PRICES.

## LAST SPECIAL OFFER

## NEW CANNAS

AUSTRIA, - - - \$2.50 per doz.; \$15 per 100.  
ITALIA, - - - 3.50 " 20 "  
MRS. ROGERS, - - 3.50 " 20 "

### PYRAMID AND STANDARD BAY TREES,

\$15.00, - \$18.00, - and - \$20.00 - per - pair.

### GOLDEN RAMBLER ROSE,

Strong, - 4 inch pots, - \$3.00 per dozen.

### PALMS AND DECORATIVE PLANTS.

**SIEBRECHT & SON,**  
Rose Hill Nurseries, NEW ROCHELLE, N. Y.

CATCHER & MANDA, Short Hills, N. J.

JOHN N. MAY, Receiver.

When Writing Mention Florists' Exchange

When Writing Mention Florists' Exchange

## SURPLUS LIST

## BEING PLANTS

In order to close out stocks remaining unsold, we offer at the following very low prices for cash. Speak quick for what you want.

<b>Alemnathra</b> Paronychoides Major, Aurea Nana, and Varicolor.....	Per 100	\$2 00
<b>English Golden Broom</b> , Verschaffeltii, Pretbrand, and other assorted varieties, strong plants, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.....	2 00	2 00
<b>Ageratium</b> Cope's Pat, 3 1/2 in.....	2 00	2 00
<b>Alyssum</b> Tom Thumb, in bloom, 3 in.....	4 00	4 00
<b>Lobelia</b> Gracilis, in bloom, 3 in.....	4 00	4 00
" <b>Compacta</b> , 3 1/2 in.....	2 00	2 00
<b>Petunia</b> , lined fringed surges, 3 in, in bud and bloom.....	6 00	6 00
<b>Nasturtium</b> Tom Thumb, 3 1/2 in, in bud and bloom.....	6 00	6 00
<b>English Daisy</b> in bloom.....	2 00	2 00
<b>Absinthia</b> Banania, 4 1/2 in.....	\$5.00 per doz.	\$50.00 per 100
<b>Caladium</b> Esculentum, started plants, 5 in, pots.....	10 00	10 00
" " <b>Austria</b> , strong plants, 4 in, pots.....	6 00	6 00
<b>Castor Oil Bean</b> , 2 1/2 in.....	4 00	4 00
<b>German Ivy</b> , 2 1/2 in.....	2 00	2 00
<b>Moan Flower</b> , 2 1/2 in.....	2 00	2 00
<b>Geranium</b> , assorted varieties, in bud and bloom, 3 1/2 in.....	6 00	6 00
" " <b>Rose</b> , 3 1/2 in.....	6 00	6 00
" <b>Emp's Crank</b> , 3 1/2 in.....	6 00	6 00
<b>Heliotrope</b> , 2 1/2 in.....	3 00	3 00
<b>Salvia</b> Splendens, 2 1/2 in.....	2 00	2 00
" <b>New Golden</b> , 3 1/2 in.....	4 00	4 00
<b>Vines</b> Major Variegatum, 3 1/2 in.....	6 00	6 00
<b>American</b> Variegatum, 3 1/2 in.....	6 00	6 00
<b>Coleus</b> Scutellum, 3 1/2 in.....	6 00	6 00
<b>Hydrangea</b> , in bud and bloom, large tuts, in bud and bloom.....	\$5.00 each.	\$50.00

## Special Offer to Close Out

### CANNAS—Fine Strong Stock.

From 3 and 4 in. pots—50 Mmc. Crozy,.....	Per 100	Per 1000
" " " " 200 Chas. Henderson,.....	\$4 00	\$40 00
" " " " 150 J. C. Vaughan,.....	5 00	50 00
" " " " 75 Soutv. de A. Crozy,.....	8 00	80 00
<b>STARTED PLANTS</b> —1000 Mmc. Crozy,.....	2 00	20 00
" " " " 50 Star of '91,.....	3 00	30 00
" " " " 100 St. Hilaire,.....	3 00	30 00
" " " " 100 Austria,.....	6 00	60 00
<b>DORMANT ROOTS</b> —Bouvier, Mmc. Crozy, and Chas. Henderson,.....	at 2 00	\$15 00

**CHRYSANTHEMUMS**—\$2.50 per 100; \$20 per 1000.—Major Bonnaffon, E. Daillicouze, Gladys Spaulding, The Queen, Mrs. Ferrin, Ivoire Rose, W. H. Lincoln, Wm. Simpson, Miss Johnson, Merry Monarch, W. C. Egan, Ermilinda, W. N. Radd. \$4.00 per 100; \$35 per 1000.—S. T. Murdoch, Phryne, Violet King, Liberty, Mrs. Battles, Tippecanoe, Mrs. W. P. Raynor, E. A. Kimball, F. B. Hayes, Red Warrior, Peabody.

**GERANIUMS**—500 Beate Peltovine, from 4 in. pots, at \$1 per 100. From 2 1/2 in. pots, at \$2.50 per 100; \$20 per 1000.—Henri de Bornier, Crystal Palace Gem, Madonna, Marvel, La Fontaine, Mrs. J. M. Gaar. At \$3 per 100; \$25 per 1000.—Mrs. E. G. Hill, Mme. Duchner, Mme. Ch. Molin, Mrs. A. Blanc, S. A. Natl., Leonard Kelway, Citysburg. At \$8 per 100.—Mme. de la Roux, Mme. Jaulin, Mme. Brunat, and Alph. Ricard.

**BEGONIA VERNON**—Fine 3 inch Stock. \$2.50 per 100, \$20.00 per 1000.  
**BOSTON FERN**—Strong 2 1/2 in. Stock. (July Delivery). \$5.00 per 100; \$40.00 per 1000.

## F. R. PERSON CO.,

TARRYTOWN-ON-HUDSON, NEW YORK.

When Writing Mention Florists' Exchange

## THE COTTAGE GARDENS, QUEENS, N. Y.

When Writing Mention Florists' Exchange

SEASONABLE SEEDS!

H. H. BERGER & CO., (ESTABLISHED 1878.)



PRIMULA FIMBRIATA

(Chinese Primrose). Rubra (Red), Alba (White), Alba Magnifica, Rubra Violacea, Cibawick Red, Meteor, Village Maid, or Choice Mixed.

CINERARIA

Hybrida Grandiflora choice mixed, Extra Fine Dwarf Mixed, Grandiflora, Bora, Kermessina, Dbl. Flowering.

CALECOLARIA

Hybrida Grandiflora, choice mixed. Trade Packages, 50c. and \$1.00.

WM. ELLIOTT & SONS NEW YORK.

When Writing Mention Florists' Exchange

FORCING BULBS Special Import Price List Ready.

CANNAS

BURBANK - 75c. ITALIA - - - 40c. YEL. GROZY - \$1.50 AUSTRIA - - 20c. All Standard and New at Market Price.

VAUGHAN'S SEED STORE, NEW YORK, CHICAGO, 14 Barclay St. 84-86 Randolph St. When Writing Mention Florists' Exchange

P. OUWERKERK, 1123 Summit Ave., Jersey City, N. J.

Just received from our Holland Nurseries:

RHODODENDRONS, AZALEAS, SPIREA JAPONICA, LILIUUM SPECIOSUM, PEONIES, BLEEDING HEART, POT GROWN LILACS, HYDRANGEA IN SORTS, CLEMATIS and H. P. ROSES, in the best sort

PRICES MODERATE. When Writing Mention Florists' Exchange

Prize-Winning DAHLIAS AN UNPRECEDENTED RECORD.

23 First Prizes, Certificate of Merit, 2 Diplomas, and highest mention everywhere. If you want the Very Best Dahlias that bloom, send for our 1897 descriptive trade list now ready. Address

W. P. PEACOCK, Dahlia Specialist, ATCO, N. J. When Writing Mention Florists' Exchange

Importers and Exporters of Bulbs, Seed, Pampas, Rare Shrubby from the United States, Japan, Australia and Europe, will hereafter transact all business for the EASTERN STATES from their office in New York City. Address all letters to 220 Broadway, (Rooms N and O, 3rd floor), New York. Business for the PACIFIC COAST will be heretofore given attention. Addressed H. H. BERGER & CO., San Francisco, Cal.

READY FOR JULY AND AUGUST.

FREESIAS (Large sizes are very scarce). CALLA ETHIOPICA (Send orders NOW). LITTLE GEM CALLAS (Improved variety). A REAL GEM. ILL. LONGIFLORUM EXIMUM, the Best for Forcing. Produces more flowers than the common sort.

When Writing Mention Florists' Exchange

QUEEN CHARLOTTE CANNAS

ALPHONSE BOUVIER, CHAS. HENDERSON, From 4 inch pots, at \$5.00 per 100.

PALMS LATANIA BORBONICA, 3 inch pots, \$5.00 per 100.

THE ELIZABETH NURSERY COMPANY, Elizabeth, N. J. When Writing Mention Florists' Exchange

PRIMULA SINENSIS SEED

The Wm. Scott strain (grown by Wm. Scott, Buffalo), includes: Our "GREAT SCOTT MIXTURE," from assortment of 10 varieties. Also 4 SEPARATE COLORS, Single White, Pink, Red and Double Red.

Sold only in sealed Trade Packets, at each, 60 cts. Liberal reductions on larger orders as per Free Priced Circular List, for which apply to Sales Agent.

DAN'L B. LONG, Jobbing Florist and Growers Agent, Buffalo, N. Y. When Writing Mention Florists' Exchange

PRICES ON

BULBS, ROOTS, and DECORATIVE PLANTS, For Fall Delivery, Now Ready. Send for Catalogue.

F. W. O. SCHMITZ, JERSEY CITY, N. J. When Writing Mention Florists' Exchange

ALLEN'S DEFIANCE MIGNONETTE

New Crop, Growing Outside and Looking Fine, will be Ready August 1st. This stock is all from special selected spikes and is sure to prove good under proper treatment. \$1.00 per oz.; 50 cts. per packet. Still a little of the original crop left which will germinate about 50 per cent, at \$1.00 per pkt.

CHARLES H. ALLEN, FLORAL PARK, N. Y. When Writing Mention Florists' Exchange

L. MAYER & SOHN, WHOLESALE FRANKFURT a/Main, GERMANY.

EXPORTERS of all kinds of Natural and Artificial Flowers, Mandow Fosses, Bed-top, etc. SPECIAL OFFERS ARE REQUESTED AND MAY LEAD TO LARGE TRANSACTIONS. When Writing Mention Florists' Exchange

Fresh Seeds-Calla Bulbs.

Apple Geranium (true), 25 cts. pkt.; \$1.00 per 100 seeds; \$1.00 per 1000 seeds. P. Tenax Variegata, 50 cts. per 100 seeds; \$2.50 per 1000 seeds. P. Tenax, 50 cts. per 100 seeds; \$2.50 per 1000 seeds. Send for prices on Calla (Lilies, August and September delivery. Send for Trade List of Novelties and Specialties for Autumn delivery.

MRS THEODOSIA B. SHEPHERD, Ventura-by-the-Sea, Cal. When Writing Mention Florists' Exchange

HEADQUARTERS FOR Callas and Freesia Bulbs

PAMPAS PLUMES, Palm, California Tree and Flower Seeds.

Please let us book your orders for BULBS at once. . . . . ASK FOR SPECIAL PRICES.

GERMAIN FRUIT CO. Los Angeles, Cal. When Writing Mention Florists' Exchange

TURNIP SEED. ALL VARIETIES. CUCUMBER SEED. Best kinds for Pickling. LISH MUSHROOM SPAWN just arrived. Quality better than ever. Prices Right at Dealers. WEBER & DON, Seed Merchants 114 Chambers St., NEW YORK CITY. When Writing Mention Florists' Exchange

BURPEE'S SEEDS PHILADELPHIA WHOLESALE PRICELIST FOR FLORISTS and MARKET GARDENERS. When Writing Mention Florists' Exchange

ROEMER'S SUPERB PRIZE PANISIES. The finest strain of Panisies in the World. Introducer and Grower of all the leading Novelties. His best Award, International Exhibition, Hamburg, 1897. All orders free on application to FRED. ROEMER, Seed Grower, Quedlinburg, Germany. When Writing Mention Florists' Exchange

Pansies Worth Raising. NEW CROP SEED. Exceptionally well developed, can be had now in packages containing about 3000 seeds for \$1.00 per package. CASH WITH ORDER. G. Soltan & Co., Avenue, Jersey City, N. J. When Writing Mention Florists' Exchange

BUY FROM THE GROWERS DIRECT ALL BULBS and PLANTS For Summer and Fall Delivery, Quoted at Very Low Rates.

FREE ON BOARD CARS OR BOATS NEW YORK CITY. HULSEBOSCH BROS., Englewood, N. J. When Writing Mention Florists' Exchange

NEW CROP SEED NOW READY ZIRNGIEBEL'S STANDARD PANISIES Silver Medal in Boston and First Prizes everywhere.

"Fine jewels of velvet and gold."-Boston Transcript.

GIANT MARKET and GIANT FANCY STRAINS, in trade pkts., at 1c each. Printed directions with every package. DENYS ZIRNGIEBEL, Needham, Mass. When Writing Mention Florists' Exchange

PANISIES THE JENNINGS'S STRAIN

of finest American grown Panisy seed; new crop now ready, saved from the very finest selected plants, all large flowers, in great variety and most splendid colors; without doubt the finest strain to the market to-day. The following complimentary letter is the result of my most successful experience with this seed: WILLIAM SCOTT, You are the grower of Jennings' finest mixed strain per pkt. of 2500 seed, \$1.00; \$6.00 per doz.; \$3.00 per 1/2 doz.; \$2.00; \$1.00. White, yellow, black and blue, in separate colors, \$1.00 per pkt.; 50c. per 1/2 doz. Sent by mail. True to Seed Company on application. Cash with order. E. B. JENNINGS, Leek Box Southport, Conn. GROWER OF THE FINEST PANISIE. When Writing Mention Florists' Exchange

### Pure Seed Investigation.

Through the courtesy of Gilbert H. Hicks, Esq., of the Pure Seed Investigation Division of the Department of Agriculture, we present herewith this article before the American Seed Testing Association's meeting held in Washington recently.

At the outset of my remarks, which will be more or less informal and brief, I wish to correct an error which seems to be prevalent in the minds of many seedsmen in the country, and that is that the Department of Agriculture, or the speaker as its representative in this kind of work, is desirous of securing any unjust legislation affecting the interests of seedsmen or of taking any antagonistic stand whatever to the honorable members of the trade.

About three years ago, as probably most of you are aware, the Division of Botany of the Department of Agriculture inaugurated a new line of work in the Department, known under the general head of pure seed investigations. Good seed, as we all know, is one of the main essentials of successful agriculture, for no matter how energetic the farmer, his efforts are frustrated unless the seed he sows is of the best. If the seed is of poor seed, the farmer depends for his bread and butter entirely upon the seed he plants, whether it be for the pasture, the garden or the farm. Even with the best seed, the weather, the insect, the fungus diseases, may utterly ruin some of his crops. The successful farmer plants his seed in the best soil, and he plants it at a less favorable time and with the disadvantage of a serious delay.

It is an old adage that a farmer that has an immense amount of trashy seed placed upon the market every year is only making a poor investment of his seed. Inferior stock and low germination, but also to seeds of clovers, grasses, and other forage plants.

### Scope of the Department's Work.

The difficulties under which the American farmer often labors can better be appreciated by any one who has had the experience of growing his own food for a livelihood. It is the province of the Department of Agriculture to see that the farmer has the best place within the farmer's reach every possible help and all obtainable means which will enable him to overcome his difficulties and attain success in his calling. It is the duty of the Department to bring to the notice of better knowledge of the difference between good and bad seeds of the various plants, and the work above referred to was inaugurated. It follows as a matter of course that our investigations proceed from the standpoint of the farmer, and are aimed principally at furthering his interests, and that our chief employment is to insist that we have no grievance whatever against the seed trade in general, and only in so far as it is probably engaged in this business. It is our earnest desire to become acquainted with the men with whom the convention represents, and help them in every way in our power both as to the methods of their work and to give them freely the benefit of any of our experiments or investigations which may be of value to them. Although you, gentlemen, are engaged in the growing and sowing of seeds, you are largely from the financial standpoint, and undoubtedly many of you are contented with the seed which you require patient and careful scientific investigation. It is my duty to instruct you in the best methods of your own so far as he is able, but in the press of business and for lack of time and suit-

ably equipped laboratories probably few of you are able to do your own seed as much time to such investigations as you would like. It is right here where the Department of Agriculture hopes to be of some service to you. Already we have had numerous requests from our countrymen for information concerning the vitality of seeds, the best methods of keeping seeds, methods of sowing seeds, and the like. We really benefit the seed trade will benefit the American agriculturist.

Under the present conditions of trade that cannot afford to guarantee their seed, and that they really get the very best seed obtainable, for the reason that the farmers do not appreciate that seed, and will generally purchase inferior seed if it is sold at a cheaper price. Unfortunately, in many sections of the country, the farmer has learned that a difference of a dollar a bushel, for example, between first-class clover seed and a poor quality is a trifling matter, compared with the immense difference in the real value of the seed. The farmer is naturally prone to eradicate such false ideas and to impress upon the people who plant seed that the difference between the seed which is first class in every particular, even at an increased price, the farmer will get the best seed, and that the farmer will do so. Also when a farmer writes to us, as many have, asking about the seed, we are often asked to guarantee which the seedsmen asks him fifteen cents for a small packet, we are ready to give the information that he can probably buy the same thing from the same seedsmen under the name of Soja Bean.

Although a large portion of our time in the seed laboratory is taken up with the testing of the vitality of agricultural seeds, this is by no means our only line of work, nor is it the most important. The most important part of our work we can obtain data which can be used in the broader field of seed investigations, and this is the part upon which we are engaged. I might mention the following: Seed testing, for the purpose of purity, etc. To aid us in this work we have been carrying on experiments in a way not repeated in the field. An article on this subject, to be published in the near future, will be of interest to seed-growers. Other subjects under investigation are: the effect of various fertilizers on various commercial seeds and the extent to which this is an index of the vitality of the seed. The effect of various salts upon germination, principally those found in commercial fertilizers in the soil. The effect of different kinds of chemical treatment: Do any of them hasten germination or help to overcome the effects of insect and fungus diseases and their effect upon vitality. The best time to harvest the seed, the depth of covering, climate, and the selection of the best methods of planting seeds, considering the nature of the soil, depth of covering, climate, and the selection of the best methods of planting seeds, and how to secure a greater market to the farmer for sale. The effects of climate and soil upon seed variation.

### Purity and Germination Tests.

A very important line of work, for which we are constantly obtaining data in our seed testing, is the subject of equitable standards of purity and germination of different agricultural seeds. Another subject which is frequently brought to our attention is the effect of insect and seed dealers in various parts of the country, is the best methods for the control of insects and careless seedsmen, and the best methods for the control of adulteration with inferior or dead seed, or which contain a large amount of water, and which are not properly filled out and sent with the seed which is to be tested to the Seed Testing Division of Botany, Department of Agriculture, Washington, D. C. Additional blanks will be furnished upon application. Respectfully,

JAMES WILSON, Secretary of Agriculture.

In addition I may say that already we have tested free of charge quite a number of samples of seed and garden seed received from seedsmen, and in

many cases, perhaps, the reports of these tests have been the means of putting those seedsmen on their guard against the possibility of their not handling a large amount of samples of this kind from the same source. Every farmer who is anxious and willing to help the trade in this matter all we can do is to attend to our duties, and attend as occasion demands.

I am also greatly pleased to call your attention to the fact that the United States Bureau of Plant Industry, Department of Agriculture, issued by the Office of Experimentation, a circular on the subject of "Seed Testing," the result of a recent meeting of a committee on seed-testing appointed by the Secretary of Agriculture, and the Agricultural Colleges and Experiment Stations. For several years some of the American experiment stations have been testing seeds for their constituents and an increasing interest is now being manifested in this work throughout the country. In view of this interest and the importance of the subject, the Association of Experiment Stations at its last meeting instructed its committee to formulate uniform methods of seed testing, and to issue a circular for making seed tests in order that such tests may be as reliable as possible. The circular referred to contains the results, together with a description and illustration of the germinating apparatus, and is of sufficient detail to be of great value to the farmer. The circular referred to. The present outlook for the inauguration of adequate and uniform seed testing in the various agricultural seeds is quite encouraging, and very soon there will be no excuse for the farmer who does not have his seed guaranteed the vitality and purity of their seeds for lack of places where such a guarantee may be competently secured.

**to Guarantee.**

At this point allow me to correct an impression concerning the guarantees of seedsmen, and (what must be pointed out to all of you) nobody dreams of requiring a guarantee that the seed which is planted by the farmer in the soil, under what may frequently be the most unfavorable conditions, will guarantee that seedsmen should come up to the standard of vitality. The ends desired to be secured are: First, that the seller of any seed should standardize his seed by himself, provided the buyer is willing to pay what such seed is worth. Second, that the opportunities may be furnished for giving such a fair test, which will be of benefit to the buyer, and which the matter ends.

**Seed Testing Laboratory Established.**

I hold in my hand a circular recently issued by the Department of Agriculture, which will, I trust, be welcome news to every seedsmen present.

Office of the Secretary, Washington, D. C. May 29, 1927.

Dear Sir:—Numerous requests have been received from seedsmen, growers and farmers for information concerning the purity (freedom from insect and fungus diseases) and germination of samples of agricultural seeds. The fact that there is a poor prospect of the availability of seed sold in this country, and a lack of information and facilities for testing the seeds, has led to the establishment of a very desirable that such persons may have the seed they intend to purchase tested for purity and germination.

In order to secure and diffuse information concerning the various farm and garden seeds, and the value of which depends to such a large extent the success of agricultural operations, the Seed Testing Division of Botany established a Seed Testing Laboratory in connection with the Division of Botany. This laboratory is thoroughly equipped for testing seeds, the work being furthered by the use of a greenhouse and a test bed.

At present, so far as the force and means at our disposal will admit, the tests will be confined to samples of farm and garden seeds which are sent in by their correspondents. The most common causes of adulteration with inferior or dead seed, or which contain a large amount of water, and which are not properly filled out and sent with the seed which is to be tested to the Seed Testing Division of Botany, Department of Agriculture, Washington, D. C. Additional blanks will be furnished upon application. Respectfully,

JAMES WILSON, Secretary of Agriculture.

In addition I may say that already we have tested free of charge quite a number of samples of seed and garden seed received from seedsmen, and in

many cases, perhaps, the reports of these tests have been the means of putting those seedsmen on their guard against the possibility of their not handling a large amount of samples of this kind from the same source. Every farmer who is anxious and willing to help the trade in this matter all we can do is to attend to our duties, and attend as occasion demands.

I am also greatly pleased to call your attention to the fact that the United States Bureau of Plant Industry, Department of Agriculture, issued by the Office of Experimentation, a circular on the subject of "Seed Testing," the result of a recent meeting of a committee on seed-testing appointed by the Secretary of Agriculture, and the Agricultural Colleges and Experiment Stations. For several years some of the American experiment stations have been testing seeds for their constituents and an increasing interest is now being manifested in this work throughout the country. In view of this interest and the importance of the subject, the Association of Experiment Stations at its last meeting instructed its committee to formulate uniform methods of seed testing, and to issue a circular for making seed tests in order that such tests may be as reliable as possible. The circular referred to contains the results, together with a description and illustration of the germinating apparatus, and is of sufficient detail to be of great value to the farmer. The circular referred to. The present outlook for the inauguration of adequate and uniform seed testing in the various agricultural seeds is quite encouraging, and very soon there will be no excuse for the farmer who does not have his seed guaranteed the vitality and purity of their seeds for lack of places where such a guarantee may be competently secured.

**to Guarantee.**

At this point allow me to correct an impression concerning the guarantees of seedsmen, and (what must be pointed out to all of you) nobody dreams of requiring a guarantee that the seed which is planted by the farmer in the soil, under what may frequently be the most unfavorable conditions, will guarantee that seedsmen should come up to the standard of vitality. The ends desired to be secured are: First, that the seller of any seed should standardize his seed by himself, provided the buyer is willing to pay what such seed is worth. Second, that the opportunities may be furnished for giving such a fair test, which will be of benefit to the buyer, and which the matter ends.

### The Department's Relation to the Cook Bill.

In those of these remarks Mr. Hicks explained briefly, in accordance with a previous request, the relation of the Department of Agriculture to the Cook bill (which was reintroduced in the 65th Congress, by the name of the Davidson bill). He said, in effect, that the Department did not intend to make any radical modifications.

Acting upon the instructions of the Secretary of Agriculture, Hon. J. Sterling Morton, the speaker had given the Congressman who introduced the bill in his possession concerning seed legislation, suggesting at the same time that the seedsmen of the country should be consulted.

After the bill had been presented to the Congress, the Department of Agriculture had been asked by its author to endorse it, but, unfortunately, did not do so, and in fact, has it done so at any time, although desirable regulations which will secure to the farmers and honorable seedsmen of the country the best of the inferior seeds which are introduced and sold in the United States.

\* Circular No. 34, Office of Experiment Stations, Cooperation Department of Agriculture.

### The Senate's Discussion of the Tariff on Plants and Seeds.

The amendment to insert the new clause, 24 1/2, imposing a tariff on orchids, palms, etc., as given in last week's issue, is now before the Senate. Under the proposition from Senator Vest, of Missouri, whose solicitation for the welfare of the poor man has been the chief object to criticize the proposed duty as an outrage. "Now," said he, "the flower that is sold to the husband of a poor man, brightens the sick chamber, or goes upon the coffin of our dead is to be taxed up by the Government to enable the nurserymen in the United States to rob and plunder, for that is the real meaning of the tariff, to flourish. I hope the Senate will vote the amendment down, but it is a faint hope."

To this Senator Allison replied, a vein of sarcasm evidently running through his remarks. "Under the Act of 1894, the existing law, the great necessity of life known as orchids, which are found in every poor man's home in great quantities, and lilies of the valley are already taxed 10 per cent. The Senator for Missouri has introduced four years ago did not observe the absolute importance of these things to the poor man."

Further on in the discussion the same speaker remarked, "If people go to the States that import the flowers, they are in his character for purposes of adornment and luxury, why should they not pay a little revenue?"

Senator Jones, of Arkansas, evidently also solicits for the poor, objected to the tariff on bulbs. He said, "I have asked, 'that the people of the United States desire to have something that is beautiful for their children, something that will make their homes attractive—something that will add to the beauty of the country and something which the children of the poor raise in this country?' Asked as to whether it would be a duty on the flowers of the poor people enjoying these flowers, the Senator replied that the high-grade bulb tulips, lilies, hyacinths, etc., raised abroad, and it seemed to him there was no justification—no apology—in the sale of the same. He cited some articles, which were in almost universal use all over this country. He moved forward the names of the flowers, and used the words "lilies, hyacinths, narcissi, jonquils, tulips, lilies of the valley, and other bulbs raised in the 'poor man's corners.' The motion was lost."

The discussion on the section relating to the cherry stock was equally interesting.

Mr. Vest said he should like to know why the stock of the Mahaleb or Mazzoni cherry, three years old or less, are put in with a specific tax upon them. I never heard of that cherry before, and I do not know what it is.

Mr. Allison answered—We are told that it is a very fine variety of cherry, and that they are imported by the thousand, and that the duty ought to be a specific value, and not a specific quantity.

Mr. Vest—To keep it out? Mr. Allison—No; with a view to collecting the duty on the cherry, and not the duty. So we have provided for a compound duty here instead of a wholly ad valorem duty on the cherry.

Mr. Vest—I should like to ask whether this rate of duty was not suggested in a specific article in the Mahaleb cherry nurseryman who did not want this Canadian cherry tree to come in here and compete with the Mahaleb cherry which is selling. It never has appeared in any tariff bill before.

Mr. Allison—I have no doubt it was suggested by nurserymen and others. We have suggestions coming all the time from the people who are familiar with the subjects, and nurserymen are familiar with this subject.

Mr. Vest—The last word in this paragraph that is new to me. I am not very well versed in such matters. What do you mean by "manetti" in this connection?

Mr. Allison—Manetti vine? Mr. Vest—Yes—Manetti vine. "Manetti." Then follows "multiflora."

Mr. Allison—I suppose it is an Italian plant, but I do not know. I will say to my friend from Missouri I think there is no trouble about this rate. The rate is the same as the rate on the low-priced seedlings of ad valorem. If properly collected, will be more than 30 per cent. and on the cherry stock it will be less. Therefore, we make a compound duty so as to equalize matters

between the high-priced and the low-priced article.

Mr. Platt (of Connecticut)—I think I can answer the inquiry of the Senator from California. As I understand, it is the wild-root cherry imported for the purpose of grafting old ones upon.

Mr. Vest—Under the Wilson bill as it came from the House there was added a duty upon "plants, trees, shrubs and vines of all kinds commonly known as nursery stock, not specially provided for in this act," 20 per cent. ad valorem. I think it was upon my motion in 1894 that all nursery stock, not specially provided for of the dutiable list and put in the free list, paragraph 515, has taken its way, and the Senator from California, who, I presume, boasted of his favor for agriculture and his interest in sending to this country European plants of every description that might help the people of the United States, both in articles of necessity and even of decoration. Here the whole system is reversed. A lot of goods before the controlling influence of the Finance Committee and shut out by an enormous taxation superior trees, shrubs and flowers that come from Canada and from abroad. They were absolutely now, for the first time (and I have been some what familiar with the tariff bills in the last two or eight years), singled out specifically competing products like the cherry, and they have had such a duty put upon it as they know will exclude it from competition with them, and the people of this country are to be made to use the

stock. I do not recollect the cherry called the Mahaleb, but it is the stock on which cherries are grafted.

Mr. Vest—I do not know, but I am as certain as I am that I am speaking in the Senate of the United States that some nurseryman had a job when he had that put in. It was not done by accident, and it was no rhetorical exhibition. "There is money at the bottom of it," they never would have picked out this particular cherry tree and put this enormous duty on it except to answer their own purposes. The Senator from Iowa very frankly tells us that he presumes that it was done by some nurseryman. And it is for the benefit of the people of this entire country.

The paragraph relating to seeds, as amended by the Finance Committee, was discussed by Senator Hawley from Connecticut and others. Mr. Hawley said:

There are among my constituents a large number of men who have been for many years in the seed business. The names upon their packages is worth a dividend to them. Nothing ever went from their gardens that was not what it purported to be. They are distressed very much by the abundant importation of seeds from abroad bearing the same names and fairly well respected here, which seeds are dumped upon us, are not pure and true, but are often of a different nature, and injury to the legitimate trade. As to the duty, when a man brings in worthless seeds, he is often fined, but I cannot tell a lie about their value when you

obliged to him for his information. To use the language of Dick Swiveller, "who would trade with you, and whose games of that sort." Of course seed imported under the circumstances referred to by the Senator, is to be stricken from the free list, and ought to go in with the others and pay at least 40 per cent.

Mr. Jones (of Arkansas)—Before that paragraph is left I should like to say, I believe I have seen the name in the Senate from Connecticut (Mr. Hawley) has just said, that I believe with him that it is not fair to send the name in the hands of more value than in any other business, except perhaps the jewelry business. I believe a good name in the seed business is equal to a dividend as a rule. I do not believe that seeds brought here from abroad and dumped on the market are likely to do harm, coming even in the way suggested by reason of the fact that ordinarily I believe nine men out of ten, if not ninety-nine out of one hundred, will buy seeds of seed growers whose names are established and have been well known for years.

For instance, Landreth & Sons, of Philadelphia, have been seed growers for more than a century. I confess I have not seen the name in the Senate, but that concern saying that they had been connected with the seed business from the time of the Revolution to the year 1861 there had been no tariff on seeds, and that the tariff on seeds was first 10 per cent. and now, for the first time in the history of this infant, which is the subject of the bill that is now under concern, the House proposes a tax of 40 per cent. ad valorem, and the Senator from Connecticut has proposed to impose. I believe that the character of these men is sufficient to guarantee the sale of their seeds everywhere, and that no unknown and untried seedsmen can sell seed in competition with these firms, and that the tariff is imposed to protect infant industries, and what we have an establishment of this sort, and that the excuse for this tariff seems to me that the tax is not sufficient.

Mr. Hawley—The infant industry in this case is the fraud. The old industry is honest, and fair, and has the honor of having known Mr. Landreth very well for twenty-five years, and he asks you to protect him from the frauds of that kind may be obstructed.

Mr. Jones (of Arkansas)—But the objection is that protection is needed to protect infant industries, and what we have an establishment of this sort, and that the excuse for this tariff seems to me that the tax is not sufficient. Mr. Vest—The thief that came in last night that is the infant industry, and not the honest man, and I believe the thief we desire reasonable protection.

The portion of paragraph 251 indicated by the Senator from Connecticut (Mr. Hawley) was passed over.

### Thomas Cartledge.

The subject of our sketch, in whose honor the Florists of Philadelphia recently gave a banquet on Friday evening last, in celebration of the fiftieth anniversary of his professional career, started in to work as a boy on the private establishment of the late Caleb Cove, Esq., at Holmesburg, which was one of the best of the old seedling places around this vicinity. He afterward became identified with the florists' business and for several years regularly attended the markets of Philadelphia. In April, 1864, he went to England, and returned to Philadelphia and opened a store on Twelfth Street, and in 1870 he became a partner of the firm, consisting of himself, and his brother, to Penneck Bros., and still does business under that name. The store now being on Arch Street. For several years past Thomas Cartledge has been the managing partner, the firm name being that of himself and Abram L. Penneck.

Mr. Cartledge is now 63 years old and has been in the florists' business all his life. His esteem in which it is held by his fellow craftsmen was well expressed at the banquet on Friday night, when 100 people took part in doing him honor. From 1861 to 1897 he has been a member of the American Horticultural Society, in which society he has always taken a great interest. The success of the last banquet has been given next week. DAVID RUST.

Mr. Platt (of Connecticut)—I think I can answer the inquiry of the Senator from California. As I understand, it is the wild-root cherry imported for the purpose of grafting old ones upon.

Mr. Vest—Under the Wilson bill as it came from the House there was added a duty upon "plants, trees, shrubs and vines of all kinds commonly known as nursery stock, not specially provided for in this act," 20 per cent. ad valorem. I think it was upon my motion in 1894 that all nursery stock, not specially provided for of the dutiable list and put in the free list, paragraph 515, has taken its way, and the Senator from California, who, I presume, boasted of his favor for agriculture and his interest in sending to this country European plants of every description that might help the people of the United States, both in articles of necessity and even of decoration. Here the whole system is reversed. A lot of goods before the controlling influence of the Finance Committee and shut out by an enormous taxation superior trees, shrubs and flowers that come from Canada and from abroad. They were absolutely now, for the first time (and I have been some what familiar with the tariff bills in the last two or eight years), singled out specifically competing products like the cherry, and they have had such a duty put upon it as they know will exclude it from competition with them, and the people of this country are to be made to use the

cherries and plant the cherry trees that these gentlemen have sent to the market. I do not know what a financial and economic lunatic asylum it is. They have absolutely selected a particular cherry tree and put an enormous duty upon it. If that is in a class legislation, I should like to hear some gentleman on the other side tell me what it is.

I do not know what this cherry is. I have been under the impression, from observation and experience, that the finest cherries in the world are raised in the United States. I have never tasted any such cherries elsewhere. It is said that they have cherries never to them in France, but I have never seen them. The cherry in Washington and Oregon is the finest fruit, in my opinion, that was ever put in the mouth of a mortal man. After eating them, which you can do in any quantity without any injury to your health, I have always thought if it had been a cherry in the Garden of Eden, instead of an apple, I would have gone very far to get very much of it, and made a bite. But it seems the gentleman has discovered that there is a cherry which is not raised in the United States, and instead of importing these improved fruit trees cultivated in the United States, and in the Northern States particularly, they are to be excluded by an enormous tax and sent to the States where they are now upon the free list.

Mr. Gear—The Mahaleb cherry is the

Thomas Cartledge.

come to put 25 per cent. ad valorem upon them. I want that returned to 40 per cent. as the House put it, say the least. I concur with several Senators, who wish this to go over for the present for further consideration.

Mr. Lindsay—In connection with what has been said by the Senator from Connecticut (Mr. Hawley), I call the attention of the committee to the fact, evidenced by certain papers now here in the hands of the committee on Agriculture and Forestry, that there is a certain Canadian seed, called the Canadian blue-grass seed, which is imported into this country for use in New England, and nowhere else, and that portion not used in New England is used for the purpose of being mixed with the true American blue-grass seed, it being worth about one-fourth as much, and American blue-grass seed has been put under the ban of suspicion everywhere by reason of the admixture. This seed, which is grown in Canada—and we object to everything that comes from Connecticut (Mr. Hawley), is used only for the purpose of being mixed with an American product in order to render the American product more saleable, as put by this bill on the free list.

I ask the Senator when he is considering the bill, to please to consider the fact that seed which is not common to England goes on the free list, and that the same is done in order to satisfy him in regard to New England seed.

Mr. Hawley—Though not comprehending the Senator's advice, I am

**ASTER PLANTS** Leading kinds, 10 doz. per 100; \$3.60 per 100 Cash or credit.

H. BAULLIE, Belmont Ave., WOODHAVEN, N. Y. When Writing Mention Florists' Exchange

**50,000 ASTER PLANTS** In mixed colors, ready to plant out, 50c. per 100; \$5.00 per 1000. Samples Branching, Queens of the Market, Crowned and Pectinifera.

J. C. SCHMIDT & CO., Bristol, Pa. When Writing Mention Florists' Exchange

**FOR MILDEW AND BLACK ROT** on Roses, Fruits and Vegetables, and Carnation Root

**USE FOSTITE**, 5 pounds, 50 cts. 25 pounds, \$2.00.

G. H. JOOSTEN, IMPORTER OF PLANTS, BULBS AND SEEDS, 193 Greenwich St., New York. When Writing Mention Florists' Exchange

**NEW HYDRANGEA**

**OTAKA MONSTROSA**

This variety is an improvement on all existing sorts and bears flowers of immense size. The plants are 3 in. pots, \$3.50 per 100; \$30.00 per 1000.

JOHN A. DOYLE, Springfield, Ohio. When Writing Mention Florists' Exchange

**CARNATIONS ALL SOLD.**

SEND FOR LIST OF

**GHRYSANTHEMUMS**

If not already received.

H. WEBER & SONS, P. O. Box 57, OAKLAND, Md. When Writing Mention Florists' Exchange

**ROSES.**

Strong 2 1/2 inch plants in splendid shape.

Yellow Rambler Azalea, \$1.00 per doz.; \$8.00 per 100.

Cherry Wootton, 75 cts per doz.; \$6.00 per 100.

John A. Doyle, - Springfield, Ohio. When Writing Mention Florists' Exchange

**CERANTHUMS**

\$1.10 Per 100.

Five plants from 2 and 2 1/2 inch pots, as follows: Beauty, White Swan, Gem, Grant, Firebrand and Mice, Salsora, \$1.00 per 100.

Hegota Argentea Guttata, nine plants, 6 to 8 in. high, and Smilax, 25 in. pots, \$1.50 per 100.

Chrysanthemums as follows, at \$1.00 per 100: Major Bonnard, L. Canina, Rosita, Kate Brown, Red Pass and Clara. Bloeman.

FAIRVIEW FLORAL CO., Beatty, Ohio. When Writing Mention Florists' Exchange

**Fine Healthy Stock of Brides, 'Maids, . . .**

**Perles, Meteors, . . .**

From 2 1/2 inch plants, ready for shifting, \$4.00 per hundred.

JOHN HENDERSON CO., Flushing, N. Y. When Writing Mention Florists' Exchange

**ROSES**

Carefully Grown Forcing Stock, 2 1/2 in., strong.

Metor.

The Bride.

M. de Chateaux, \$3.00 per 100; \$25.00 per 1000.

Catherine Mermet, Bridemaad, \$3.00 per 100; \$25.00 per 1000.

Chrys. de Noisy, \$3.00 per 100; \$25.00 per 1000.

Kaiserin, \$3.50 per 100; \$30.00 per 1000.

Perle des Jardins, \$4.00 per 100; \$35.00 per 1000.

Five 3 and 2 1/2 inch stock Bridesmaid and Bride, \$5.00 per 100.

ACHILLEA, The Pearl, \$3.00 per 100.

WALSHIANA splendens, only true pink. W. La France 100.

Cash or Freight-Cash Bank References Must Accompany all Orders.

J. B. BEISS, 116 So. Main St., Dayton, O. When Writing Mention Florists' Exchange

**LOOK HERE**

The following plants are in 1st condition.

12,000 St. George, 2 in. pots, Bridemaad and Bride, \$2.50 per 100; \$20.00 per 1000. Bicolor, \$1.00 per 100; \$10.00 per 1000.

Aster, 2 1/2 inch pots, \$2.00 per 100.

Marie Louise Victoria, rooted runners, 50c. per 100; \$5.00 per 1000.

Perle des Jardins, 2 1/2 inch pots, or C. O. D.

C. MERKEL & SON, Mentor, Ohio. When Writing Mention Florists' Exchange

**JACKSON & PERKINS CO., NEWARK, NEW YORK.**

Will have to offer for season of 1897-98, 1st class assortment of

Field Grown Roses, new and old varieties, Clematis, Ornamental Shrubs, and Trees, Fruit Trees and Small Fruit Plants.

Price List ready in July. Write for it.

When Writing Mention Florists' Exchange

**SURPLUS STOCK.**

In fine condition, free from Mildew.

Perles, 1 in., \$3.00 per 100.

Brides, 2 1/2 inch pots, \$3.00 per 100.

Perles, Brides, Bridesmaids, 2 1/2 in., C. O. D.

Extra fine stock. Cash with order or C. O. D.

GEO. E. FANCUOT, Wilkes-Barre, Pa. When Writing Mention Florists' Exchange

**STERLING AMERICAN NOVELTY, THE WHITE COGHET**

Is a sport from Mamam Coghett, which is considered now the best pink outside-door rose. It has all the good qualities of the parent; it is in full bloom in June to Winter, outside petals slightly tinged in Summer; and no doubt it will prove the best white out-of-door rose up to date.

Price, per dozen, from 3 inch, \$4.00. 100, 35.00.

All Orders Must be Accompanied with Cash.

J. COOK 31 CHARLES STREET, Baltimore, Md. When Writing Mention Florists' Exchange

**40,000 FIRST QUALITY FORCING ROSES**

Fully equal to those sent out the last four years, first-class and perfectly healthy in every respect. Only selected growth from flowering shoots used in propagating.

WOOTTON, LA FRANCE, AMERICAN BEAUTY, BELLE SEBASTIEN, METEOR, KAISERIN A. V., SUNSET, ROYAL SILVENE, MERMET, PERLE, NIPHEUS, THE BRIDE, BRIDEMAAD, SAFRANO. 2 inch pots, \$7.00 per 100; 4 inch pots, \$10.00 per 100.

Mention this paper. J. L. DILLON, Bloomsburg, Pa.

**PHILADELPHIA ROSES**

Strictly first-class, clean stock, in 3 inch pots.

Beauty, Meteor, Bride, Bridesmaid . . .

**MYERS & SAMTMAN, Wyndmore, Chestnut Hill, Phila., Pa.** When Writing Mention Florists' Exchange

**50,000 BRIDE AND BRIDE! 50,000** Extra Fine.

From 2 1/2 inch pots, \$2.00 per 100; \$20.00 per 1000.

From 3 1/2 inch pots, \$3.00 per 100; \$35.00 per 1000.

Five large 3 1/2 inch GERANTHUMS, ready for shifting, \$4.00 per 100.

Limited amount in stock. For more information, apply to

SMILAX PLANTS, \$1.50 per 100. CUT SMILAX, 12 cents per string.

TERMS CASH. THE NATIONAL PLANT CO., Dayton, Ohio. When Writing Mention Florists' Exchange

**ROSES FOR FORCING.**

Clean, Healthy Stock, from 2 1/2 and 3 inch pots.

Perle des Jardins . . .	2 1/2 in.	3 in.	3 1/2 in.	American Beauty . . .	2 1/2 in.	3 in.
Madame C. Testout . . .	\$3.50	\$5.00	\$6.00	The Bride . . . . .	\$4.00	\$5.00
Augusta Victoria . . .	3.50	5.00	5.00	Bridesmaid . . . . .	3.50	5.00
Madame Hoste . . . . .	5.00	5.00	5.00	Sunset . . . . .	3.50	5.00

**ORDER NOW.**

**ROBERT SCOTT & SON, 19th & Catharine Sts., Philadelphia, Pa.** When Writing Mention Florists' Exchange

**ROSES, GERANIUMS, COLEUS.**

Cornations all planted out and sold; will have first-class field plants in the Fall.

Strong 3 inch plants of Bride and Bridesmaid, Roses, ready to plant, \$4.00 per 100.

Ceraniums, 2 1/2 in., \$2.00 per 100; 3 in., per 100, \$4.00. Alterniflora, red and yellow, 2 1/2 in., \$2.00 per 100; 3 in., \$3.00 per 100. Yellow, white and golden Bicolor, rooted cuttings, 75c. per 100; 2 1/2 inch, \$1.00 per 100. Cash or satisfactory reference.

GEO. M. EMMANS, Newton, N. J. When Writing Mention Florists' Exchange

**SURPLUS ROSES 50,000 ROSES**

Cath. Mermet . . . . .	\$2.50	\$20.00
Perle des Jardins . . . . .	2.50	20.00
Bride . . . . .	2.50	20.00
Mme. Jos. Schwartz . . . . .	2.50	20.00
Golden Gate . . . . .	2.50	20.00
Jeanne Guillaume . . . . .	2.50	20.00
Climbing Perle . . . . .	4.00	40.00
Alisa Eugier . . . . .	2.50	20.00
Cornelia Cook . . . . .	2.50	20.00
Mme. Huguette . . . . .	2.50	20.00
Bouquet . . . . .	2.50	20.00
Perle des Jardins . . . . .	2.50	20.00
Niels - 10,000 Niels . . . . .	2.50	20.00
Perle des Jardins . . . . .	2.50	20.00
Solitaire . . . . .	2.50	20.00
Lamarque . . . . .	2.50	20.00
Orphreea Victoria . . . . .	2.50	20.00

**REGONIA REEX**, in assortment, good plants, 2 1/2 in., \$1.00 per 100; 3 in., \$1.50 per 100; \$5.00; 4 in. plants, per 100, \$8.00.

**MOSS ROSES.**

Mosseline, Henri Martin, James Veitch, Capt. Emerage, Fianche double, Lancel Moss, Moss, Reichenbach, Veitch of Mosses, Alice Leroy, Proflicie or Gracilis, \$2.00 per 100.

**POLYANTH ROSES.**

Mlle. Cecil Brunner, George Perinet, Perle d'Or, Mignonne, \$3.00 per 100.

**NANZ & NEUNER LOUISVILLE, KY.** When Writing Mention Florists' Exchange

**GHRYSANTHEMUMS.**

As soon as the planting of the cut flower varieties is finished, the remaining stock must be sorted over, and all intended to be new on the market, plants that, at a good condition, ought to be potted up according to size in 3, 4, and 5 inch pots. They will all make nice market plants. Those strong enough for 5-inch pots, can be easily brought up to 5-inch pots by fall, if such size can be handled. I find it profitable always to have a lot in that size pot; they make fine specimens, though not large enough for show purposes where the sizes of pots are 12 and 14 inches. But for home ornament the smaller specimens are very much admired, and there is some money in them provided you can sell them at from \$2 to \$3 each. Rooted at the present time can be potted up and used later for single-stem plants, and such classes are in every premium list. Most any florist can handle a few hundred of them and be able to come to the market with plants from \$1.00 to \$1.50 per 100. Mutual Friend, Ivory, Golden Wedding, Helen Floodgood, Geo. W. Childs, Vivid-Morel, Major Bonnard, and a good many more, make nice single-stem stock, and if a grower having but limited room will select three or four varieties, and grow only fifty of each, he will be able to choose about twenty-five well balanced plants upon which to rely to show. But if you want to go for a premium of twenty-five single stems, and only grow twenty-five plants, you will find that the man who selects from a lot, will have the longest poles, and the most uniform. A good class grower with a little foresight will be able to come to the wire with the best of the plants, and the remainder for one needed, and the remainder can be used as cut flowers, and so forth.

As soon as the plants ought to get, from now on, all the room, air, and attention possible; at the same time, do not neglect the plants, as they are in the ground, no water; don't let the foliage drop, rather give an extra syringing during hot days. Good water would well cultivated, not too deep, but it will be always open so that the air can work it. Don't let a hard shell cover your roots, and well cut weeds grow to them, and the soil will keep in a very condition, just what your plants like.

THOS. HICK,

**CORRESPONDENCE.**

**Fire Insurance.**

Mr. W. J. Veezy:

Dear Sir:—I would like to enquire whether the fire insurance charter you speak of in your letter is the tract. I suppose would permit mutual insurance upon a plan that does not require the payment of premiums.

Also, I would like to ask what the plan upon which the company that facilities the insurance. Also what are the main features of the Indiana law upon mutual fire insurance?

Am I correct in assuming that under the plan you propose your company would commence business with \$10,000, and raise \$100,000 paid in capital? Respectfully yours,

JOHN G. ESLER, Saddle River, N. J.

**Nomenclature.**

The Nomenclature Committee of the Society of American Florists is charged with the general duty of bringing before the society, at its annual meetings, cases of misnaming, recommending nomenclature, and arrangements relating to decorative plants handled by the American trade. It will facilitate the work of this committee if any of your readers who may have noted cases which should properly come under its notice would kindly report them to the undersigned, not later than the 1st of August, so that they may be reported to the report to the committee, which is to be submitted at the annual meeting of the society in the latter part of that month. It is particularly requested that full details be given concerning any cases reported.

WILLIAM TRELLESE, Chairman, Missouri Botanical Garden, St. Louis.

## CARRIAGES.

### Successes and Failures.

It is as interesting as it is profitable to look back over the past season's record, and note the successes and failures, or partial ones, which have attended our efforts. Doubtless all of us have made many mistakes, and reaped many successes than we desired. This, however, is only a reminder that perfection is still in the distance, and the real leading cause of our many failures and disappointments—so many, in fact, that it is quite impossible to escape a good portion of them.

The season just closing has been profitable to us both in experience and in the production of good stock. We have turned out more of the latter than we had expected. Owing to very unfavorable weather last summer, our plants were in poor condition when housed; so poor were they that we had little hopes of accomplishing as much as we had done in past seasons.

The fact is that necessity stood us in the face and if we would pull victory out of defeat, it would require unceasing vigilance on our part. If we were heretofore careful with watering, ventilation, feeding, etc., we must be more careful and also more diligent in our people require more attention than do healthy ones, so it was with our house of sick plants, which they appreciate and the attention shown them became more evident as the season advanced. For some time past we have been cutting our best flowers than we were a year ago. In this respect we have made an advance over last season, but if we take an average of last season's stock and compare it with the average of this season's, the latter does not come up to it. To make the matter more serious, the rate and unsalable flowers being considerably in excess of last season's record.

We hope for a better and thrifter lot of plants this fall than we had last. The reason we had so many failures is due to those of a year ago, while the soil is not only better, but is more favorably situated and is better drained. In the event of a wet season the plants will fare better than did those of a year ago.

There are other causes for success and failure, prominent among which is the proper selection of position for the defective varieties. Any grower who is alert will notice the peculiarity of a carnation as regards growth and the amount of heat and light it requires, as well as the proportion of food it demands.

Our constant aim is not only to produce fine flowers when there is an abundance of light, but doubly so when the days are shortest and when we have more of darkness than light, when the demand is usually greater than the supply of first-class flowers.

While carnations do not require as much light as some other plants, yet during the winter months they will need as much as the most modern and expensive house can afford to give, especially true of McGowan, which is rather backward in growth; possibly have a few dainty succession which are something to do with its slow growth when placed in a position where light is lacking. Since light and air are the principal factors which assist the plant to draw the nourishment from the soil, and since the action of these on the foliage accomplishes this, the importance of planting such varieties in a house as light as possible is at once manifest.

But varieties like McGowan are not the ones that will be especially benefited when planted in a very light house. In Uncle John we have a variety to McGowan, whose foliage is abundant; it is also a rapid, luxuriant grower, but it must be kept somewhat in shade in most other varieties, and to keep its naturally rapid growth firm and healthy plenty of light and air is necessary.

There are others which are more partial to light than the above, but which need not be particularly mentioned here, as any grower who is always alert will be able to take care of them. A majority of varieties do very well in a house which is not more than ordinarily light, and in a stable, in an even-span house running north and south. They may do so well as to satisfy almost any one, yet these

same varieties, if given a lighter house, will exhibit a marked improvement, and enough to cause those who are contemplating the building of any new house to pause and consider which style of house he will build.

Varieties like Daybreak and Meteor, which are rather partial to a cool temperature, do not require as much light

partial to a cool temperature and mild light.

Next week I will describe a house which I have recently built, and which I believe is an improvement over the average house as built to-day, in that it is rather light during the dark days of winter is concerned.

H. WEBER.

most brilliant color and are thus much welcomed by all interested in the class to which they belong. As a cut flower they need care in shipping, and although they do not keep well, nevertheless, where they can be used, especially in light glasses or vases, with feathery grass or light foliage, they produce the best of decorative effects.

### Roses of the Victorian Era.

The "Gardener's Chronicle," London, in its issue of June 1891, gives an interesting account of the progress made to the rose world during the reign of Queen Victoria. The writer of the article says: "During the period of the last sixty years, it is very difficult to say how many roses have been sent out into the world, but we take the average of forty each year, there cannot have been fewer than 2,000 and 3,000 roses sent forth by raisers abroad and at home."

"The three classes of roses whose improvement has been so remarkable during the past sixty years are hybrid perennials, tea-scented, and Noisettes. The origin of the former is a matter of considerable doubt; but I believe that the hybrid China, crossed with Damask, hybrid Bourbon, and other roses, have produced some of the magnificent flowers which we now possess. Two of the most celebrated raisers in the older days were Laffay and Viret; but I do not think any of their productions have survived to the present day, except in a few garden roses such as *Gloire des Rosomanes* and *Almeida Viret*. The origin of the teas and Noisettes is somewhat better known; they are the product of the China rose crossed with the yellow China or Teal rose; and I believe that all the fine varieties that we possess are traceable to this combination. The Noisette rose was raised in America by M. Philippe Noisette; it was produced from Old Musk fertilized with Chinese China. Noisette's rose has since been a great favorite with the French rose growers; but its earlier adaption to the present day is due to a few ingenious results which have followed during recent years."

"The three perpetual class there are no roses that go back to the period of Her Majesty's accession, and by far the greater part of the roses which were raised and seventies: How prolific the sixties were in good roses may be seen by the following list of the most successful in this position as exhibition roses:—*Alfred Colomb*, *Annie Wood*, *Baroness Rothschild*, *Charles de Meillon*, *Chloé*, *Comte de Rainhaud*, *Comtesse d'Oxford*, *Jevienne Lamy*, *Dr. Andry*, *Duchesse de Moray*, *Jacques d'Angoulême*, *Empire Eugénie*, *Eugénie Verdier*, *Fisher Holmes*, *Horace Verneil*, *Louis Van Houtte*, *Madame Victor Verdier*, *Marguerite de St. André*, *Marie Lambert*, *Marie Zady*, *Marquise de Castellani*, *Maurice Barraud*, *Mons. Normand*, *Pierre Notting*, *Princesse Camille de Roban*, and *Xavier Dillie*.

The varieties produced much fewer, the most noticeable among them being A. K. Williams and *Madame Gabrielle Luizet*. "In Tea roses nearly all of the most valued varieties came from France. All the grand Teas from Niphetos sent out in 1830, down to *Marian Chloé* in 1850, have come from abroad; some from America, but they have been mainly sports."

"In garden roses also there have been charming additions in the class of Noisettes; Other classes of roses have, during the latter portion of this period, come into much notice; one is the class of hybrid teas, and to which some good additions have latterly been made, although quite later than that the fewer the divisions, and the more simple the classification of the latter; still they serve the purpose of keeping the most decided tea and Noisette roses in a class by themselves. It is somewhat remarkable that no attempt has been made in what are called summer roses, hybrid Chinas, hybrid Bourbons, Gallias, etc."

"There is yet another class which has received some remarkable additions during the past few years, that of ordinary cut and polyantha; the Japanese rose multiflora or simplex has been crossed with some of our teas, and has produced a delightful class of dwarf double polyanthas, and such flowers as *Cecile Brunner*, *Ma Piquetette*, *Gloire de Polyantha*, *Polyantha*, and others, form a class which we cannot now afford to neglect, blooming, as they do, in large clusters, of a bright and pleasing color. To these must be added that remarkable rose, *Edison Rambler*.

"To the Japanese we also owe those roses of the ferax or rugosa character, which have been produced in a very useful, and which may probably yet give us, under the hands of the hybridizer, a new class of roses, the double-flowering one, *Madame Georges Brant*, may be the *avant courier* of many others."

Papaver nudicaule.

### Flowering Shrubs, Etc.

as most others. These two varieties are always among the first to go to pieces with the advent of summer. Daybreak's principal fault is losing its color, for which strong light is mainly responsible. Heat also contributes its share in causing Daybreak to fade, but in a lesser degree than light. The color in Daybreak may be materially preserved during summer by careful feeding; but, at best, they can hardly be made to equal their color as we have it in winter.

With Meteor I believe that heat plays as important a part as does light in causing this variety to give out in summer. It blooms freely enough, but the

Magnolias and their usefulness as lawn decorative trees are so well known that no description of them is necessary, and as a change from *M. sanguinea* and others so generally grown, the subjects illustrated are well worthy of consideration. *M. stoliata* is of Japanese origin and is slightly dwarfier in habit than many others. M. Lehmanni makes an enormous bloom and thus is a desirable variety. *M. purpurea* is not so much grown as its delightful color and general good qualities demand.

Double flowering peach trees are now

Apple Blossoms.

flowers lack substance, and are often spotted. Good feeding does not seem to remedy this very much. I have always noticed, however, that when we have a few dainty succession which are cloudy and cool or raining, that the quality of the flowers improves greatly, which is abundant evidence that it is

being planted very abundantly and in a position where they are placed well in among, or at the back of, other shrubs. In addition to that their long and narrow branches of considerable value in a cut state.

Iceland poppies—These early visitors in the hardy flower garden are of the



Double Peach.

**Individual Credits.**

*Extracts from address delivered before the National Association of Credit Men of America, City, Mo., by James G. Ginnin, Vice-president, Fourth National Bank, New York.*

In discussing credit, we too frequently view it in its abstract form, and fail to consider it in its bearing upon the individual. It would, therefore, seem that a study of this phase of the subject would be productive of much interest and profit; not only to credit men, but to merchants generally, as I have yet to find that there has ever been raised a single question as to the methods to be employed in the extension of this form of credit.

All enduring structures must rest upon substantial foundations; and if upon individual credits are not upon a secure and conservative basis, the ill effects will be felt by the retail merchant, the jobber and the manufacturer.

The evils from which the mercantile community suffers seem to me to be due, not so much to a lack of money or capital, as to the lack of an intelligent and proper use of credit. If we can inspire a healthy public sentiment in regard to all forms of credit, it will receive greatly to facilitate needed reforms.

Credit is created by the desire to do business, and thereby secure a profit. For example: A is well and favorably known to B as a man of strict honor and integrity. He may be a producer, but without ready money. He may be engaged in producing goods. B has the commodities and wishes to sell them; therefore B finds it agreeable to supply A's wants for a consideration of profit, upon his promise of future payment. In this way credit is brought into play, and its continuance is justified by the prompt fulfillment and faithful performance of all the duties and obligations imposed by the contract, but if too easily obtained it promotes extravagance.

**The Basis of Credit.**  
The question naturally arises, Upon what basis should individual credit be granted? No inflexible rule can be laid down, but the underlying principles of this form of credit that suggest themselves to me are, character, ability, capital and previous conduct.

Individual credits properly dispensed call for the exercise of diplomacy, mature judgment and eternal vigilance, and one should be especially conservative in extending liberal credits on the luxuries of life. For instance, where a customer might, without criticism, buy

ion as to the basis of their credits, could give a specific or intelligent answer.

The average retailer throughout the country needs education in this and kindred lines, and he should be brought to realize that to his interest to follow some well defined system of granting credits. He will often "size up" a man on the spot and sell him a bill of goods without even knowing the party's full name, or relying, perhaps, on his supposed ability to give some thing of his means or affairs because he is an acquaintance, he will trust him without investigation as to his financial worth.

Some retailers I find have not taken stock for years, believing it to be unnecessary, because, as they say, all they have on their shelves belongs to them. They do not even keep books. Careful attention to details, and a thorough system of bookkeeping, are prime factors in determining a merchant's success. If he is careless in his methods he is likely to find his customer tardy in meeting their bills.

If the retail merchant would only change his method, ascertain the cost of conducting his business and the profit on his sales, keep his books in such shape as to enable him to know at all times whether he was making headway or losing ground, he would be in a position to adopt corrective measures when necessary and avoid the shoals and rocks that would otherwise bring disaster upon him.

Some good wholesome educational work seems to be in order, and where the jobber or wholesaler finds that a retailer to whom he is selling his goods has extended credit beyond prudent limits, compared with his own resources, although it is to persons of large means, he should confine him to the shortest possible terms, and force him into a system of making quick collections. For the nearer a retailer reaches a cash basis the better will be his position. If he pays cash for his goods he is not likely to sell them on any other terms, and when he does give credit, he will exercise more care in its extension.

If the wholesaler houses will give their retail customers the benefit of their wide experience, knowledge and counsel, as the best business methods to be adopted, it will be of mutual profit and advantage. So long as retailers pay their bills with ordinary promptness the wholesaler has no occasion to interfere, but when they become slow he is compelled to look over the situation, and in nine cases out of ten retailers will plead in extension of their tardiness that some of their own customers owe them large bills which they are unable to collect. How useful it is, therefore, that all unknown quantities should be eliminated, and that a painstaking investigation should determine the character, financial strength and integrity of every credit risk.

*(To be continued.)*

**Montreal.**

The celebration of the Queen's Jubilee called forth extraordinary efforts in the decorative art, the craft coming in for a share of the good things. This was very acceptable, as, owing to the backward season, but little bedding out had been done. It came somewhat hard upon those who depend upon outside growers for cut stock, as in one instance prices were advanced considerably, which hurt sales, but few caring to pay more than the usual price at this season.

A. Martin is putting up a new place in addition to rebuilding part of the old.

Wishire Bros. expect shortly to secure a suitable spot to erect a range of houses, the old ones being situated on valuable land in the heart of the city.

J. McKenna & Son will increase their stock, having had a first-rate spring business.

Joseph Bennett intends lowering all his benches for the purpose of carrying carnations through the summer upon the solid-bench principle, which he is convinced is the most satisfactory.

J. S. Murray says he was never rushed so much with funeral orders as he is at the present time, particularly at this season of the year, when flowers are scarce.

Miss Murray has been the recipient of many encomiums for the steamer pieces supplied Canada's representatives to the Jubilee.

S. S. Bain fills in his spare moments at his lovely seat on the St. Lawrence River and manages to contribute a weekly article upon "Cottage Gardening" to a local paper. It is highly interesting reading and has made him famous. This is superfluous, as he is well known otherwise, being president of the Caledonian Society, which were strongly represented in the parade of Monday, and at whose head Mr. Bain marched. But he bears his honors modestly.

B. T. Greaves expects a big demand for flowering shrubs next fall, as owing to the extreme cold spell at one time plants which have stood the siege of many winters succumbed, scarcely a bush remaining. Phlox and the like was completely killed.

Walt Wishire has been very unfortunate of late. To add to his troubles his whole family has been down with scarlet fever, which at one time threatened serious results. W. M.

**Dover, N. H.**

C. L. Howe reports a good spring business. The season is late, especially at the beach towns, where he has considerable custom, but the rush now is clearing everything out in the shape of a flowering plant. A good business is done in shrubbery. Five acres of excellent land are devoted to this branch. W. M.

M. stellata.

SomeDelicate Magnolias.

M. Lichmanni.

M. purpurea.



### Exclusively a Trade Paper.

Entered as New York Post Office Second Class Matter  
No. 1508, May 11, 1877.

Published Every Saturday by

A. T. DE LA MARE, PTC. AND PUB. CO. LTD.

No. 2, 4, & 6 Duane St., New York.

P. O. Box, 1897.

Telephone 2154 Crompton

REGISTERED CABLE ADDRESS  
(Commercial Cable) Florist, New York.

#### SUBSCRIPTIONS:

\$1.00 per year to United States, Canada and Mexico, \$2.00 per year to foreign countries (tries in postal union). Payable in advance. New subscriptions will commence with the first number after receipt unless otherwise specified. Back numbers can be supplied when wanted.

The date on address label shows who the subscription expires and is the subscriber's receipt. No other receipt is sent.

#### ADVERTISEMENTS:

Copy must reach this office not later than Tuesday in order to assure insertion in issue of the following Saturday.

Rates, \$1.00 per inch. Special position extra. Discount on contracts of one month or longer.

Orders from unknown parties must be accompanied by cash or satisfactory references.

#### Subscribers

Please give notice to the publishers at the end of their time if they do not wish to continue taking paper, otherwise it is continued and payment expected.

### Exclusively a Trade Paper.

THE FLORISTS' EXCHANGE is published in the interests of those commercially identified with the Florist, Seed and Nursery business. New subscribers are requested to enclose business card or other proof of their connection with these trades.

#### Contents.

BOTANICAL GARDEN, N. Y.	612
CARTMANS	610
BAILEY & THOMAS (Portland)	608
CATALOGUES RECEIVED	617
CHANGES IN BUSINESS	618
CHRYSANTHEMS	609
CORRESPONDENCE	608
CREDITS	611
FLOWERING SHRUBS (Illus.)	610-611
N. Y. GARDENERS' SOCIETY EXHIBITION	615
OBITUARY	
John H. Hutchinson, James F. Neisler	618
QUESTION BOX	618
REPORT BY THE VICTORIAN ERA	610
SEED INVESTIGATION	617
SEEK TRADE REPORT	617
SWEET PEA, HISTORY OF	618
THE FLOWERS' EXCHANGE	617
TRADE NOTES	618
Montreal	611
Boston, Cincinnati, New York, Pitts-	612
burgh, Philadelphia, Providence,	613
St. Paul	614
Chicago, Summit, N. J., West Hoboken,	613
Fall River, Mass., Knoxville, Tenn.,	614
Orange, N. J.	613
Brookline, Mass., Cambridge, Mass.	618

### For the Busy Man.

The lawn party given by Mrs. Macme, of Providence, for the benefit of the S. A. F. entomological fund, was a grand success.

Frosts have been experienced in several localities the past week. The cabbage outdoors in St. Paul has suffered considerably.

The "Florists' Exchange" as far as its origin in the near future, will publish the most authentic history of the sweet pea ever written, illustrated by the best representations of the flower taken from the oldest gardening literature.

The New York Gardener's Society, on Saturday last, held its own annual exhibition of flower shows ever held in New York City. It was a highly successful one and will be an annual. The flowers were given away to the hospital.

### The History of the Sweet Pea.

In an issue in the near future "The Exchange" will publish a complete and authentic history of the sweet pea that has ever been written. The object will be to give the origin of the earliest representations of the flower, obtained from the oldest works on gardening.

The text is from the pen of an eminent specialist who has had a vast amount of experience in the cultivation of what he writes, and will prove a most valuable addition to the literature on this favorite flower.

### New York Botanical Garden.

The modified plans of the New York Botanical Society for its garden in Bronx Park were adopted by the Park Board Monday last. The principal changes have been in the locations of the director's house and the large greenhouse. The only member of the board who voted against the adoption of the plans was Commissioner Stiles, who gave as his reasons for so doing the following:

"I voted against the adoption of these plans primarily because the advice of our horticultural committee is heeded. We invited the advice of counsel in the person of these experts. They have been fully consulted and their advice not approved of the modifications. Therefore, my vote was cast in the negative. Furthermore, I don't believe that an adequate study of the landscape has been made in connection with the preparation of these plans, although they are somewhat better than the original design presented to the Park Commission. On the original plan the power house was put in a magnificent grove of trees. That has been removed to the open space, which is a distinct gain. In the original plan a big greenhouse was put in a beautiful old park which is a priceless piece of scenery. This dell has, at least, been temporarily preserved from the plans and it may hereafter be studied at all. One road goes within forty feet of the railway tracks, and another crosses a portion of a meadow. I also disapprove of the location of the museum.

At the meeting of the Park Board, during the discussion of the subject, Mr. Stiles is reported to have said: "The whole plan is a bad one and I propose to vote for it. The plan ought to have been made by men who know something about parks. When such a design is made it cannot be altered afterward."

The experts chosen by the Park Board to examine the plans and on whose advice the plans in their original form were prepared, are Prof. J. N. Rose, Olmsted, the famous landscape architect, and Mr. Hastings is said to be "an architect of high repute." In addition, previous professional association with the New York park system." Professor Rose is superintendent of the Botanical world, among his other relations thereto, as the conductor of Garden and Forest, a horticultural paper, and a managing editor; and S. B. Parsons, Jr., is superintendent of the New York City Parks.

#### Trade Show.

The past two weeks were none of the best for the florists' trade, and it looks as if the dull season was already setting in for planting and sowing in price. Bedding plant stock is still rather heavy and the market generally remains until July.

#### A Frost.

A June frost is of rare occurrence, but last week we experienced a white frost, which was very unusual. It did not damage crops to any extent. The temperature remained low for several days. However, we have had no summer weather yet.

#### Johns.

J. F. Cowell, of Buffalo, was in the city last week. John Bader returned from his trip east and brought a nice lot of plants

from the Dean sale. He is now thinking of going to Europe for several months.

#### Cleo Sales.

No quorum was present at the last meeting of the Florists' Club, but at the next one a better result is looked for. Cleo sales will be discussed and arrangements for the trip talked over. It is likely that Pittsburgh will be the next stop, as many have expressed their desire of visiting the fair East. A bowling team will be selected and will be headed by

E. C. REINEMAN.

### New York.

#### Wholesale Markets.

Business shows but little alteration from the conditions which prevailed a week ago, and from all appearances there will be no change for the better over for the balance of the summer. With June, goes all prospect of weddings. It can be said that fully half of the couples, as far as weddings and their attendant decorations are concerned, has been a failure, and that is about a point of view, the poorest on record.

Roses are getting very light in supply, especially dark stock. Next week will practically wind up the rose supply for the season. Carnations are selling even cheaper than they did last week. Great peas are very abundant, and are being very extensively used, making it possible to furnish large quantities for parties. The new, high class peas with long stems and good foliage being obtainable at \$2 per 100, less seed, is nearly a proportionately figure.

Fire broke out at the establishment of Ernest Assan, West Hoboken, Friday. The barn was practically destroyed, but little or no damage was caused to the greenhouse property of the establishment.

W. G. Marshall, with J. M. Thorburn & Co., was married Friday, June 18, at St. John's Protestant Episcopal Church, Hoboken, by the Rev. A. Bently, to Miss Lucie M. Voyer. The bride and bridegroom left on the steamer of the Hamburg, South, per steamship Furness, Saturday.

W. Resecker, Livonia, N. C., was a visitor this week. He reports the trade in garden goods very brisk. Miss Emma Jacobs, a sister of the western star of the EXCHANGE, called for Europe, leaving for London Saturday. She will visit England, France and Italy, during her two months' trip abroad.

J. W. E. Ebbing, manager of the Horticultural Company, of New York, returned to Europe on June 19, on steamer Spardam, after a brief trip to the United Kingdom.

L. C. Bobbink, American manager of the Horticultural Company, of Hoosick, Holland, was married on Wednesday, June 23, to Miss Gertrude C. Schmidt, of Hoboken, N. J., at the residence of the bride's parents, on Palisade avenue.

H. B. BERGER & Co. are now located at rooms N and O, 131 floor, 320 Broadway.

#### Auction Sales.

M. M. GARDNER & Co., 199 Fulton

st., will hold an auction sale on Tuesday, June 23, of palms, dracaenas, etc.

### Cincinnati.

#### Blossoms Blite.

It is the only thing that seems to do the most mischief in the business of the florist in the field. We have had plenty of rain and you can fairly see the plants in the fields. The damage ranged from 90 to 95 degrees for several days. Business is rapidly on the decline. One of the largest growers, McClelland, of Lexington, Ky., a noted turfman, used up many flowers. Never did the business ever get so low as in Lexington, Ky., was there such an array of powers at a funeral. Costly designs of the florists, especially New York, and the home florists had many deaths to mourn.

The Newport schools, as well as those in Covington and Ludlow, held their commencement exercises during the week, and this helped business with the wholesale houses, as well as some of the retailers. Exports to New York had many orders; in fact, had the greater bulk of the work for that town and country. Geo. Meek had it for Covington, Ky.

#### Johns.

George S. Bartlett has returned from his bicycle tour among the florists. He says he met with fair success and is

going out again when old Sol sets up a little.

J. E. Killen, with C. H. Joosten, New York, was a caller on Thursday. He had been attending the horticulturist's convention at St. Louis and could talk spinless gooseberry to perfection.

Harry Hainline, Detroit, was in the city a couple of days selling flower pots.

The bowling teams are being considered for a better time and it's nothing so much an individual score of 50 to 75; once in a while, by mistake, 100 to 200 is scored. C. GILLET.

### Boston.

#### Rose Show.

The annual rose and strawberry show of the Massachusetts Horticultural Society was held Tuesday and Wednesday, June 22 and 23. The exceedingly cold and wet spring has not been conducive to the production of the best quality of either flowers or fruits, and that is the complaint of the large and possibly the quality not quite as good as in former years. The exhibitors were the following: Geo. W. Fay (M. H. Walsh, gardener) and Miss E. J. Clark, of Pomfret, Conn. (John J. Walsh, a fine show) with his seedling roses, receiving a silver medal for the best. Also a certificate of merit for Joseph S. Fay.

Beautiful collections of orchids were shown by several exhibitors, as follows: Rothwell, W. P., Winsor and E. V. R. Thayer. A very handsome bog-orchid, traded to the exhibitor, was exhibited by Nathaniel T. Kidder, attracted a great deal of attention. Jas. Coombs showed a large collection of rhododendrons arranged with handsome colored foliage, and T. C. Thurlow an excellent set of seventy-two varieties of peonias.

Following is the list of the prizes awarded:

Orchids—Six plants of six named varieties, in bloom, E. V. R. Thayer, second, W. P. Winsor. Three plants of named varieties, in bud, E. V. R. Thayer, second, W. P. Winsor. Single specimen named, Kenneth Finlayson; second, J. H. Craig. Three plants of named varieties, Edward J. Mitton. The society's silver medal was awarded to W. A. Mackintosh, for a very fine Cattlee Arnoldiana var. superba.

Harry Hoses—Twenty-four distinct named varieties, in bloom, Kenneth Finlayson; second, the same, third, Mrs. E. J. Clark. Sixteen distinct named varieties, in bloom, Kenneth Finlayson; second, Joseph S. Fay. Twelve distinct named varieties, in bloom, the second prize to Joseph S. Fay. Six distinct named varieties, three of each, the second prize to Joseph S. Fay. Third, Miss E. J. Clark. Twenty-four distinct named varieties, one of each, the second prize to Mrs. E. J. Clark; third, Joseph S. Fay. One of each, the second prize to Joseph E. Craig; third, Miss E. J. Clark. Thirty-six distinct named varieties, one of each, Kenneth Finlayson. Twenty-four blooms of Mme. Gabrielle Lunet, Mrs. E. J. Clark; second, Joseph S. Fay. Third, Kenneth Finlayson. Six blooms of John Hopper, the second prize to Kenneth Finlayson. Six blooms of Charles H. Thomas, the second prize to Patrick Kane. Sixteen blooms of any other variety, Kenneth Finlayson, second, W. N. Craig. Best single bloom of any variety introduced since 1885, Mrs. E. J. Fay. Twenty-four blooms of named varieties, three clusters of each, John L. Gardner, second, Joseph S. Fay. Twenty-four blooms of named varieties, two clusters of each, John L. Gardner, second, Joseph S. Fay; sixth, E. J. Clark; fifth, Joseph S. Fay; sixth, William H. Spooner. Seven Williams' varieties, the Bussey Institution; second, W. N. Craig; third, Miss W. E. Craig. Sixteen Spanish Roses—Collection, named, the second prize to the Bussey Institution.

#### Salem, Mass.

H. H. Funchard's greenhouse is being torn down and a new building improvements being carried out.





New York Gardeners' Society.

Exhibitors and Meeting. The Gardeners' Society held an exhibition of flowers, fruits and vegetables...

Mayor Strong opened the exhibition and expressed the desire that it be permanent...

The rose display was a magnificent one and included all the leading varieties...

Among exhibitors of herbaceous flowering plants were those who had over fifty species, Lilium Kramerii...

A new white carnation named Greater New York was exhibited by H. A. Molatsch, Bay Ridge...

The exhibits of fruits and vegetables were of a particularly interesting lot, including several Scotch pinks...

After the close of the exhibition the society held a business meeting and adjourned...

Salem, Mass.

McGeer, Geary & Co. are rushed with general order planting...

GERANIUMS.

BREANT, extra, \$6.00 per 100; \$4.00 per 100. BREANT, 3 1/2 in. pots, \$3.00 per 100...

SPECIAL JUNE OFFER

ALTERNANHERA, yellow, \$1.00 per 100. GERANIUMS, mixed var., 2 1/2 in. pots, 3.00...

JOS. H. CUNNINGHAM, DELAWARE, N. J. When Writing Mention Florists' Exchange

2c. GERANIUMS 2c.

Nice well foliaged plants, from 2 1/2 in. pots in splendid shape, the very best varieties.

BEGONIA REX, in good assortment \$3.50. CELEUS, best varieties, 1.50. FEVERFEW, Little Gem, 2.00.

JOHN A. DOYLE, SPRINGFIELD, OHIO. When Writing Mention Florists' Exchange

CHRYSANTHEMUMS

A Few More of these Fine Plants Left. IVORY from soil, per 100, \$2.00. Smaller plants, per 100, \$1.50; per 1000, \$10.00.

JOSEPH F. SMITH, - Burlington, N. J. When Writing Mention Florists' Exchange

HERE THEY CO.

Rex Begonia, 3 1/2 inch pots, \$4.00 per 100. 3 inch pots, \$3.00. Vinca var., 2 1/2 inch pots, 2.20...

GREENE & UNDERHILL, Watertown, N. Y. When Writing Mention Florists' Exchange

ROSES

American Beauty, 3 inch pots, per 100, \$10.00. Blue and White, 3 inch pots, \$10.00...

SILKX.

Strong, from 2 1/2 in. pots, \$2.50 per 100; \$30.00 per 1000.

VIOLETS.

Marie Louise, Lady Campbell, strong, heavily stock, from 2 1/2 in. pots, \$5.00 per 100; \$25.00 per 1000.

CHRYSANTHEMUMS.

For Varieties and Prices see April Bulletin. FROM 3 1/2 IN. POTTS. CANNAS STRONG PLANTS.

MISCELLANEOUS PLANTS.

Ready for immediate sale. \$1.00 per 100. Ageratum, blue and white, 2.00. Allium, white, 2.00...

WOOD BROS., Fishkill, N. Y. When Writing Mention Florists' Exchange

HERR'S PAPSES

ARE THE BEST. Seed, \$1.25 per 1/4 ounce. Plants, \$5.00 per 1000; 75c. per 100; 2500 for \$10.00.

ALBERT M. HERR, LANCASTER, PA.

ROSE AND STOOK CLEAR

AGERATUM, 2 1/2 inch pots, \$2.00 per 100. CHRYSANTHEMUMS, 2 1/2 inch pots, 2.00. FUCHSIAS, mixed, 2 1/2 inch pots, 2.00...

ALBERT M. HERR, LANCASTER, PA.

ALTERNANHERA.

A. A. Bennett, N.Y.A. (from 2 1/2 inch) good strong plants, \$1.00 per 100; \$12.00 per 1000. Cash with order.

ALBERT M. HERR, LANCASTER, PA.

VIOLETS - SPECIALTY

First-class plants. Orders received now for fall planting. Marie Louise, Lady Campbell, Swanley White, Fairchilder, Princess de Galles, California. Price on application.

FERR. BULLON, Sen Clair, L. I., N. Y. When Writing Mention Florists' Exchange

EGHEPERIA!

\$35.00 per 1000. GUSTAV OTTO, 91 Sherman Place, JERSEY CITY, N. J. When Writing Mention Florists' Exchange

SEAWANHAKA GREENHOUSES, OYSTER BAY, Queens Co., N. Y.

JAS. C. CLARK, Supt. P. O. BOX 34. WM. L. SWAN, Prop. When Writing Mention Florists' Exchange

Diplomas and Certificates

HORTICULTURAL SOCIETIES, FOR FAIRS, INSTITUTES, FLORISTS' CLUBS, ETC.

These should be selected well in advance of the date needed, and secretaries of above should send now for our set of samples...

A. T. De La Mare Ptg. & Pub. Co., P.O. Box 1697, New York.

2 cts. - GERANIUMS - 2 cts.

Good str. gn plants of the best double varieties, S. A. Nutt, B. Wood, Gen Grant, White Swan and others, from 2 1/2 in. pots, \$1.00 per 100.

CHRYSANTHEMUMS

Strong, healthy plants, from 2 1/2 in. pots, \$1.00 per 100. Ivory, 3 1/2 in. pots, \$1.50 per 100. Mixed colors, \$1.00 per 100.

Geo. H. Benedict, Yorkville, N. Y. When Writing Mention Florists' Exchange

20,000 ASTERS.

Truffaut's Perfection, 4 colors. Victoria's Perfection, 4 colors. Scripps's Strain, 4 colors. Also Yellow filled.

Per 100, by mail, 75c. per 1000, by express, 65c.

JEWEL or HALL ASTER, new, 2 inch pots, \$2.00.

30,000 BULLMAN, from 2 inch p ts, per 100, \$1.00; per 1000, \$12.50. Cash with order, please. GEORGE J. HUGHES, Berlin, N. J. When Writing Mention Florists' Exchange

CHANGES IN BUSINESS.

AURORA, ILL.—The De Heener Bros. have opened a florist store at 104 Fox st.

PORTSMOUTH, N. H.—Richard E. Haenaford will embark in the business here, and is having a large greenhouse erected.

SEANTON, PA.—Mrs. M. Muir will open a florist store in the Handley Building, on July 1.

LOUISVILLE, KY.—John M. Samuels is reported to have purchased the Mississippi Valley Nurseries, at Clifton, which his father, the late W. M. Samuels, established many years ago, for \$25,000.

JERSEY CITY, N. J.—The co-partnership of Garrett & Rose, 200 West Side ave., was dissolved by mental consent, Monday, June 21. The good will and interest, together with all outstanding debts and bills are undertaken by A. D. Rose, who will continue the business under his own name, at the above address.

THE MARYLAND GREENHOUSE

NOW IN PREPARATION AND TO BE SHORTLY ISSUED.

This will be a handsomely printed and bound volume, and contains a digest of the history of aquatics down to the present day, and imparting the knowledge necessary to its successful propagation and cultivation. It will be a book of highest value to the trade as also to the amateur, and in its pages will be found the best mode to grow and care for this valuable group of plants to the greatest advantage, from a sunken tub in the city garden, or the grand ponds in park lands. The book will be copiously illustrated with many excellent full-page plates and numerous half-tones of notable plants and water gardens.

The author, Mr. Wm. Tricker, has had many excellent advantages and a long education in the cultivation of aquatics, and what he has to say on the subject will be looked forward to with interest.

Price \$1.00. Orders booked now.

A. T. DE LA MARE PTG. & PUB. CO., Ltd. P. O. BOX 1697, NEW YORK.

...THE COMPLETE...

THE BOOK OF THE ROSE.

We have just issued the most Select and Complete Catalogue of Books on Horticultural and Allied Subjects, ever published. The catalogues of the various book publishers of this country, as well as of those who have been carefully gone through, and such works taken therefrom as were considered best for our purpose.

This catalogue contains 96 pages, and embraces

- ...BOOKS for The Florist, The Market Gardener, The Nurseryman, The Fruit Grower, The Seedsman, The Student of Botany, Entomology and Orthology, The Pottery Keeper, The Farmer, The Lover of Plants and Flowers, and the Student of Nature in general, in fact

BOOKS FOR EVERYBODY

interested in the science and practice of rural economy. No set of clubbing list of periodicals, home and foreign, is also furnished, through which a considerable saving may be effected in such purchases.

This handy catalogue will be sent on application, accompanied by a two-cent stamp.

A. T. DE LA MARE PTG. AND PUB. CO., Ltd. P. O. Box 1697, New York.

Burlington, Vt.

John Wilson reports that first-class success has been achieved in growing and spring bushes, and in growing holly to get things into shape to get away to the convention, where he hopes to meet many of his friends.

Manchester, N. H.

A. G. Hood has the new additions to his houses well under way, and will be completed in time for the summer planting. The sudden change in the weather has caused a very satisfactory call for plants.

Ottawa, Ont.

Graham Florist is the new name of the "House of Flowers" in Ottawa, the addition being an elder brother, who, for twenty years, was with W. Ewing, of Montreal. Mr. Graham manages the store here, and in addition to which has been added a seed branch, well equipped in every way. John continues the greenhouse end and no doubt the combination will be a strong one. Spring trade is reported as being highly satisfactory.

C. Scrim is ahead of former seasons with a fine stock of both flowering and foliage plants. The decorative and foliage department is under the care of J. I. Hagedorn, who will be remembered by many, especially his beautiful ferns, as being many years with W. Scott, of Buffalo. The change in climate has benefited both himself and his wife, which all will be pleased to hear.

Fall River, Mass.

Business has been very good, especially when the long-promised boom in the mills is set on foot. H. B. Buffinton reports an increase in bedding plants. He is the proud owner of a fine stock of evergreens, deciduous trees, among which is the soldan beauty, but rarely seen in its boldness here. The change in climate is highly effective and forms a rich contrast to the copper beech. The Charlotte and George Smith are both rebuilding and adding to their several plants. After the day is over, with the coming of the saw, their arms are in excellent condition for bowling and something starting will be seen at Providence, W. M.

Knoxville, Tenn.

The florists are all well satisfied with the commercial season, which has been remarkably good. There are several colleges near here and the call for plants has been very large. Numerous orders also have kept stock well used up.

Miss Rose Baum, sister of Florist C. Baum, was married last week. Magnificent blooms of the magnolia grandiflora were extensively used in the church decoration.

C. W. Crouch has completed his three rose rooms, which are first-class in every way. They are planted with Bride, Bridemaid and Beauty. Each beauty is a fine specimen of the plant. The weather has been very warm lately, 92 degrees in the shade being common here. Even though thunder showers have helped winter stock wonderfully, and everything is making a good growth, H. Y.

Parcellville, Va.

W. S. Davis, of the firm of A. B. Davis & Son, has been very ill with appendicitis for three weeks past. He had a close call; but is now convalesc. ut.

Madison, N. J.

L. A. Noe is erecting three new rose houses. L. M. Noe has been operating the W. P. Noe establishment since June 1. Mr. Noe now has his own extensive plants on the Slaughter pt. at, together with this last addition, thus making his combined plants the largest establishment of any grower sending to New York.

Orange, N. J.

The land has been prepared and supplies are now being delivered for the erection of a greenhouse, which will be on the Orange Mountain. Hitchings & Co. are the builders. The house is in Spain, and will be completed by the 1st of August. It is prepared for a large addition to the roses, and will be a valuable establishment to be grown suitable for commercial trade. George Atkinson, who for ten years managed the Slaughter establishment, will have charge of Mr. Herman's new venture

**FUCHSIA BLACK PRINCE.** The best win-  
dard of all, enormous heads of bloom, \$2.00 per 100; \$3.00 per 1000, by express, purchaser's  
expense.

**Flowering Begonia,** the best varieties, our  
selection by 10 kinds, \$1.50 per 100, by express,  
purchaser's expense.

**NEW HYDRANGEA ANNA MONROE.** The best  
flowering hydrangea of the day, since  
discovered from a 3 in. bud, often measured 12  
inches, do not call for a stock for next year.

**NEW RED AND WHITE PLANT: Streptan-  
thes (rosal purple), beautiful purple and silver  
varieties, 50c per dozen, postage paid.  
Terms, cash with order.**

**THE G. A. REESE CO., CR. ORANGE, OHO.**  
When Writing Mention Florists' Exchange

**EVERY FLORIST OUGHT TO  
INSURE HIS GLASS AGAINST  
FIRE.**

For particulars address  
**JOHN G. ENLER, Sec'y, Saddle River, N. J.**  
When Writing Mention Florists' Exchange

**100,000 CABBAGE PLANTS**  
\$1.00 per 100. Improved Flat Dutch and Late  
Dromedary.  
**J. C. SCHMIDT & CO., Bristol, Pa.**  
When Writing Mention Florists' Exchange

**CANNAS.** Austria, Italia, John  
H. Beaulieu, 25 cents; three for 60 cents  
by express. Price of Seedling

**H. BEAULIEU, Belmont Ave., Woodman, N. Y.**  
When Writing Mention Florists' Exchange  
W. M.

**CELERY PLANTS** Strong and  
Slack.  
\$1.00 per 100; \$5.00  
per 1000.

Special Low Ex. Rates Guaranteed.  
Most Practical Book on Celery Growing, 55 cts.  
**PETER J. SCHUUR, Kalamazoo, Mich.**  
When Writing Mention Florists' Exchange

**GLUCAS & BODDINGTON CO.,**  
Importers, Exporters and Growers' Agents  
Plants, Seeds and Bulbs,  
501 and 503 W. 13th St.,  
Telephone 1000, NEW YORK CITY.  
When Writing Mention Florists' Exchange

**10,000 DAHLIA  
POTGROWN**  
Plants (24 in. pots) in good variety, labeled  
true, \$3.00 per 100; \$25.00 per 1000.  
If you need dahlias, write us.

**A. B. DAVIS & SON, Purcellville, Va.**  
(NEAR WASHINGTON, D. C.)  
When Writing Mention Florists' Exchange

**VAULTIER'S  
MAMMOTH PANSY.**

New crop seed now ready. This is the largest and  
best of all Mammoth Pansy seeds, and has been  
over 30 years perfecting this strain. We have testi-  
fied to its purity and quality. It is the best  
in its size and merits. Trade price, 40c; \$4.00  
per 1000.

**H. G. FAUST & CO., 64 & 66 N. Front St.,  
New York City.**  
When Writing Mention Florists' Exchange

**ALMA  
Seed.** FRESH

**ON HAND**  
Chamaeae cretola, Per 100 3.00 3000  
Panicum amarulum, Do 50 2.50 2500  
Panicum amarulum, Do 100 2.00 2000  
Panicum amarulum, Do 200 1.50 1500  
Panicum amarulum, Do 300 1.00 1000  
Panicum amarulum, Do 400 .75 750  
Panicum amarulum, Do 500 .50 500

**J. H. SCHILLER, Rutherford, N. J.**  
When Writing Mention Florists' Exchange

**STORRS & HARRISON CO.,**  
Wholesale Nurserymen and Florists,  
Painesville, Ohio.

Can show as the blocks of  
Vines, Shrubs, Roses, etc., in  
millions, thousands and million of  
trees. Correspondence solicited.  
When Writing Mention Florists' Exchange

ABC 3 for ABC  
AMERICAN BULB COMPANY,

Success to  
Pitcher & Mandl's Seed and Bulb Department  
SHORT HILLS, N. J.

Superb Strains of Florists' Flower Seeds  
from European Specialists.

**PANSY**—A. B. C.—Unsurpassed Hybrid,  
Mammoth flowers. 50c trade price; \$1.50 per doz.

**PRIMULA**—Siensis Fimbriata. Special  
early-flowering double, 50c per trade price.  
**CINERARIA**—A. B. C.—Unsurpassed Hybrid.  
Grand prize strain, 50c trade price.

One large trade packet each of the above  
three favorite florists' flowers, postpaid  
for \$1.00.

Our Import Bulb Office has been mailed the  
trade. If you have not received a copy, and  
would plant the BEST OF BULBS MONEY WILL  
BUY let us have your  
address on a postal.

**ABC**  
When Writing Mention Florists' Exchange

THE MONEYMAKER!!!

**BRUSSELS SPROUTS,** Drier's select match-  
less, 10c per 100; 1.00 per 1000.  
**CELERY**—White and Green, Pinesol, etc., 10c.  
**A. B. R. S.**—Red, Orange, 3 colors, 10c per 100;  
\$1.00 per 1000.

A. transplanted strong plants. Cash with order.  
**SHELLROAD GREENHOUSE CO., North Plain, N. J.**  
When Writing Mention Florists' Exchange

PEACH AND PLUM TREES FOR FALL  
DELIVERY 1987.

Reliable and clean stock at low wholesale rates.  
All our trees bearing varieties of PEACH, APRICOT,  
and new in fruiting orchards. Have a large  
stock of all varieties of PEACH, APRICOT, etc.  
Buds can be supplied in section at low rates.  
We have a large stock of PEACH and PLUM  
trees, one and two years. Buds can be supplied of  
any variety of PEACH and PLUM trees. We  
have all the leading Japanese varieties. Abundance  
of all varieties of PEACH and PLUM trees. We  
also have new PEACH and Wisconsin good supply.  
All trees shipped in spring and in roots to order.  
**ALEXANDER PULLEN, Milford Nurseries, Milford, Del.**  
When Writing Mention Florists' Exchange

VEGETABLE PLANTS

All strong, well rooted plants, of  
standard varieties, 100 1000  
**Sweet Potato Plants**..... 10 \$1 10  
**Cabbage**..... 15 100  
**Tomato**..... 25 200  
**Broccoli, White Cape**..... 25  
**Celery, thinnings**..... 15 100  
**Pepper**..... 25 200  
**Brussels Sprouts, Dalketta**..... 15 100  
**Celery, strong, well-rooted**..... 30 250

**TRADE PRICE LIST FRESH.**  
Send Stamp for Samples.

**E. C. HARGADINE, Felton, Del.**  
When Writing Mention Florists' Exchange

VEGETABLE PLANTS

**CABBAGE**—Hudson's Succession, Early  
Flat-Head, Lufkin's Excelsior, etc.  
Sire Head, Late Flat-Head, Premium Flat-  
Head, Late Drumhead, Mammoth Rock  
Red and Drumhead Savoy, Field King,  
Etc. per 100 \$1.00; 10,000.  
**TOMATO**—Royal Red, Stone and Paragon,  
Etc. per 100; \$1.00 and 10,000.  
**EGG PEPPER**—ALBINO SNOWBALL  
CABBAGEFLOWER plants, 25c per 100;  
\$2.50 per 1000.  
**CELERY**—Dwarf Golden Heart, Golden  
Self Blanching, Glauz Pascal, New Rose,  
Tender White, etc. per 100 \$1.00;  
Etc. per 100; \$1.00 per 1000; \$5.00 per 10,000.  
We are headquarters for all kinds of Vegeta-  
ble Plants. Write for our list. We  
have mentioned send for price list. We make  
specialties in specialties on cabbage and celery in  
100,000 lots.

**Cash with order.**  
**R. VINCENT JR. & SON, White Marsh, Md.**  
When Writing Mention Florists' Exchange

**STORRS & HARRISON CO.,**  
Painesville, Ohio.

Can show as the blocks of  
Vines, Shrubs, Roses, etc., in  
millions, thousands and million of  
trees. Correspondence solicited.  
When Writing Mention Florists' Exchange

**SEED TRADE REPORT.**

Points and information from seedmen, and all interested in this column, solicited. Address Editor Seed Trade, care of Florists' Exchange, P. O. Box 167, New York.

**Seed Trade in Chicago.**—As a whole, we do not find any material complaint regarding the seed trade this year. J. C. Vaughan still writes the other day that so far as the mall trade is concerned it suffered more in the early months of this year than in the past three months having made up, in part, and brought the whole trade at least to the level of 1896, which, however, was not equal to the trade of years gone by. As regards the home counter trade generally, it averages up well.

In the plant trade the demand for cannabis is ahead of last year and these plants are still selling. In the way of newer cannas, an even better assortment of colors and foliage is noticeable. (But making them attractive for general bedding effects. Mr. Vaughan summed up in this manner: While a great amount is being sold by stores in which it may be classed as a side line, still the best buyers and those who are at all thoughtful and know what they are getting are willing and disposed to pay full prices for known high qualities of seed and pedigree stock.

As regards nursery or hardy stock, the season has been an ideal one, so far as the general seed market is concerned, commencing early and lasting, in this part of the country, till well into the middle of the month. The season has lasted eight weeks' shipping period, as against only ten days last year.

**European Notes.**—So far the outlook for Long Island has been very good. There has been, as a whole, no serious damage and the early growth has been very satisfactory, as it always is in cool weather, and plenty of rain. There has been no sign of the show is good for more than an average crop, as the plants are heavily loaded with buds. If a week of dry weather will give us a fine yield; but a week of hot and wet weather would ruin us and work. We dare not anticipate it.

Kale, which was backward at the start is making good progress, but there will be considerable difficulty in the harvest, as the plants are so close together. There is every prospect of a full average crop.

Spinach is looking remarkably well, some pieces will be very heavy—much above the average—but there is an occasional one that is badly troubled with leaf maggot.

Rutabaga is still looking well; in fact, we never saw it look better, if as well. We will have a heavy yield.

Turnips are looking fairly well, but the acreage is too small to make the crop worth doing up to now. Celery is in a very promising condition, and the acreage of the common variety is being planted, and onion is in many places badly attacked by mildew. lettuce, which it was at one time

feared would be lost, has now improved wonderfully. Endive and chicory are also immensely improved.

Carrot can be left for a few days longer before a final word can be said.

**Free Crop.**

In looking over the beets that have survived a considerable shortage is apparent. This is particularly the case with the beets of Crosby, Dango and Edman's type.

**Flower Seeds.**

As regards flower seeds, pansies and phlox are now beginning to produce a little seed. Verbenas, Zinnias and Balsams are just showing flower. Asters are fairly safe and stocks and wallflowers are good.

**A Good Centaurea.**

Those seedsmen who have wisely given the Centaurea Margarita a place in their catalogues are strongly recommended to give a trial to the parent variety C. odorata. During a recent visit to the south the writer measured many flowers of this variety more than three inches in diameter. The color is similar to the C. moschata purpurea. The appropriately named C. chameleone is also worthy of culture, for while the individual flowers are not quite so large as those of the former, and persons, and, in a mass, produce a very charming effect. When the flower first opens it is a sulphur yellow, afterwards becoming paler and tinted, with purple at the edge. Some in the autumn, they produce a most splendid display of bloom early in June.

EUROPEAN SEEDS.

**CATALOGUES RECEIVED.**

DAN'S B. LONG, Buffalo, N. Y.—Catalogue List of Lower Florida Floriculture. These useful adjuncts to the retail trade are meeting with general approval. The large assortment to choose from renders this list very valuable.

AGUEY, ROLKER & SONS, New York.—Seed and Bulb Catalogue for Fall Delivery.

Mrs. THOMPSON H. SHEPHERD, Ventura-by-De-Li.—List of Novelties and Specialties for Fall Delivery.

**SMILAX**  
35,000 fine 2 in. Smilax, \$2.50 per 100.  
From 3 in. pots, \$12.50 per 100.

**BETSCHER BROS., CANAL DOVER, O.**

**SMILAX** From 2 inch pots, \$3.00 per 100.  
From 3 inch pots, \$5.00 per 100.  
**HYDRANGEA** 4 inch pots, \$10.00 per 100.  
From 5 inch pots, \$12.00 per 100.

**FRED. HORNBEK, Cape May City, N.J.**

**SMILAX PLANTS**  
8 in. strong, healthy, \$17.50 per 100; \$17.00 per 200.  
2 in., \$1.00 per 100; \$10.00 per 100.  
3/4 in., \$1.00 per 100; \$10.00 per 100.  
C. N. L. (Transplanted tree) White Flame and White Pansy, 2 to 1000. 4 PALI-FLOWER plants, 1 to 100. 1000. 1000.  
Grows, strong, Pottery's Brunswick and Large From 4 inch pots, \$5.00 per 100.  
Cash with order please.

**R. KILBOURN, Clinton, N. Y.**  
When Writing Mention Florists' Exchange.

**FERNS**  
We make a specialty of small ferns for the Fall trade.  
Write for special prices on large quantities. Order early.

**JOHN SCOTT, KEEP STREET GREENHOUSES BROOKLYN, N. Y.**  
When Writing Mention Florists' Exchange.

**Hardy Rhododendrons, H. P. Roses, Lilacs, etc.**  
FOR FORGING.

**L. C. BOBBINK, Rutherford, N. J.**  
American Branch of the Horticultural Company, Booktop, Holland, When Writing Mention Florists' Exchange.

**LATANIA BORBONICA**

2 1/2 inch POTS.  
Strong, \$5.00 per 100. Cash.

**EDWIN A. SEIDEWITZ,**  
36 W. LEXINGTON ST., BALTIMORE, Md.  
When Writing Mention Florists' Exchange.

**FERNS**

**Pteris Serrulata, Pteris Aspidula alba, Pteris Argentea, Pteris Magnifica, Pteris Aspidula Tennessense, Pteris Adiantum, Pteris Marmorata.**  
\$3.50 per 100. CASH WITH ORDER.  
**CHAS. F. BAKER, Utica, N. Y.**  
When Writing Mention Florists' Exchange.

**FERN PTERIS FERRELLA**

**NOW READY,**  
In excellent condition, from 2 1/2 in. pots. 10 to 15 in. high, ready to ship to 44, \$5.00 per 100. Cash with order.

**R. WITTEKATTER, Sedamsville, Ohio.**  
When Writing Mention Florists' Exchange.

**AMPELOPSIS VEITCHII**

Strong, healthy, young plants, \$0.00 per 100.  
Double Coral Geraniums, 3 inch, in bad and bloom, \$1.00 per 100.  
Clematis Verschaffeltii and Golden Hedger, 2 1/2 inch pots, \$2.00 per 100.  
Smilax, 1 inch, \$5.00 per 100.

**EVERITT & INSALL, Hackettstown, N. J.**  
When Writing Mention Florists' Exchange.

**CEMATIS.**

2000 young plants, \$2.00 per 100, \$2.00 per 200.  
Clematis, some grown plants, in twelve choice named varieties, \$2.00 each, \$4.00 per 100.  
**SMILAX** Strong plants, from last year, 3/4 in. pots, \$2.00 per 100.  
Tribulus terrestris, \$1.00 per 100.

**F. A. BALLER, Bloomington, Ill.**  
When Writing Mention Florists' Exchange.

**FOR SALE CHEAP.**

1 *Latania Borbonica*, 5 ft. high, 8 wds.  
2 *Dicksonia Anartensis*, 5 ft. high.  
2 *Trochium Australe*, 10 ft. high.  
1 Rubber Tree, 9 ft. high.  
1 *Succisa pratensis*, 10 ft. high.  
2 *Luzula Night Blooming Cereus*, (tree) about 10 ft. high.

**H. W. HALES, Ridgewood, N. Y.**  
When Writing Mention Florists' Exchange.

**Fancy Leaved Caladiums**

At less than one-half their value. Growing plants, from 2 1/2 inch pots, at \$5.00 per 100; 10 per cent off in 50 lots. These are in good variety, named, in best show kinds; 5000 the limit. Do not delay, as this offer holds ready buyers.

**F. J. ULBRICHT, Lock Box 555, Amniston, Ala.**  
When Writing Mention Florists' Exchange.

**PALMS AND FERNS**

All the leading varieties of PALMS, from 4 inch pots to specimens in 10 inch pots.

**LEMUEL BAILL, WISSINGHOM, PHILA., PA.**  
When Writing Mention Florists' Exchange.

**Nephrolepis Exaltata Bostoensis.**

In large and small quantities from \$40.00 to \$80.00 per 1000.

**FRED C. BECKER, - - 1730 Cambridge Street. CAMBRIDGE, MASS.**  
When Writing Mention Florists' Exchange.

**PALMS**

AND OTHER DECORATIVE PLANTS at Quality Prices. Stock large and in fine condition. Send for new Wholesale List. Prices given in large outside send in list of your wants  
**W. J. HESSER R.**  
When Writing Mention Florists' Exchange.

**JULIUS ROEHRS,**

Headquarters for Palms and Decorative Plants,  
RUTHERFORD, N. J.  
P. O. Address, Carlton Hill, N. J.  
When Writing Mention Florists' Exchange.

**PALMS AND FERNS.**

The LARGEST STOCK in the West.

**GEO. WITTBOLD, 1708 N. Halsted St., CHICAGO.**  
When Writing Mention Florists' Exchange.

**ORCHIDS and GREENHOUSE PLANTS**

FOR SALE.

Address P. O. Box 665, ALBANY, N. Y.

Having disposed of several of my Greenhouses and the remainder being over crowded, I have decided to offer for sale the excess, consisting of the greater portion and the choicest specimens of my collection for the past 20 years, either singly or in quantities. They are all well cultivated, in fine condition, and many cannot be obtained in any other collection in America. A printed list sent on application. Sales made at reasonable prices.

**E. CORNING**  
When Writing Mention Florists' Exchange.

**AZALEAS.**

(INDICA.)  
8 to 9 in. beds, \$15.00 per 100; \$14.50 per 1000  
9 to 10 " " " " 17.50 " " 170.00  
10 to 12 " " " " 19.00 " " 190.00  
12 to 14 " " " " 20.00 " " 200.00  
14 to 16 " " " " 20.00 " " 200.00

**PALMS, ETC.**  
For Palms, Aspidistras, Aracarias, etc., please refer to our advertisement in Florists' Exchange of May 15th and June 15th.

**BECONIAS.**

(Erect Flowering Single Tuberosa Rooted.)  
About 1 inch diam., separate colors, \$3.00 per 1000; \$70.00 per 100,000.  
About 1 1/2 inch diam., separate colors, \$5.00 per 1000; \$150.00 per 100,000.

**GLOXINIAS** (Erect Flowering.)  
About 3/4 to 1 inch diam., mixed, \$10.00 per 1000; \$80.00 per 100,000.  
About 1 inch and above diam., mixed, \$18.00 per 1000; \$160.00 per 100,000.  
Flowering and Nursery stocks grown in quantities.

**ROYAL NURSERIES, LOUIS VAN HOUTTE PERE, Ghent, Belgium.**  
When Writing Mention Florists' Exchange.

Some Stocks in the electric disturbances which have prevailed late here, so far, done very little harm to our growing crops, while the rains which accompanied them have had a most beneficial effect. The irregularity of the weather is apparent every day, and "part shipments" are likely to be in demand if the tariff bill remains in force.

Some recent shipments have run the stocks remaining on hand very low.

Winter radishes are ripening up in fairly good shape and the crop may to some extent compensate for the loss of the early crops, which had begun to suffer, is regaining strength and promises now to be a considerable yield. Turnips are also at a standstill, has now begun to run, and should be a fair yield. Peas and corn are well up to now. Celery is in a very promising condition, and the acreage of the common variety is being planted, and onion is in many places badly attacked by mildew. lettuce, which it was at one time

**QUESTION BOX**  
OPEN TO ALL . . . FREE TO ALL  
Answers Solicited from Those Who Know.

**(105) Piping Greenhouses.**—Please give me your idea of the amount of pipe necessary to heat one 20x75-foot rose house to 60 degrees in one hour; carnation house to 45 to 50 degrees; rose house, three-quarter span; carnation house, even span, running east and west both houses, built together, with wood shed on east end. I think I would prefer overhead flows. I do not detest returns. There are no side lights in either house.—H. C. DAVIDSON.

If well-built and with the usual slope to the roof the rose house can be heated with three two-inch flows and nine returns of the same size. This can be modified according as more or less overhead heat is desired, so as to use either four 2½-inch flows and eight 2-inch returns, or two 2½-inch flows and ten 2-inch returns. If a temperature a trifle above 60 degrees is desired it would be well to use three 2½-inch flows and nine 2-inch returns. For the carnation house use one 2-inch flow and either four 1½-inch or three 2-inch returns.—T. TAYLOR.

**(116) Heating a Greenhouse.**—What would be the cheapest and most satisfactory way to heat a house 25x18 feet with having an expensive piping system put in?—B.

As with everything else, it will be found that in heating a greenhouse the cheapest method is seldom the most satisfactory. If to be used as a cool house for growing violets or lettuce, or for starting plants, and the spring fair results can be obtained if two large box stoves are placed at one end under the benches on opposite sides, and a six-inch pipe is carried with as much of a rise as is possible from each stove to the other end of the house, where they can enter a chimney. Another way would be to build a brick arch at one end of the house and from this carry a flue to the other end and then turn it to the arch, where it can connect with the chimney. Blue-iron pipe or pipe may be used for the last half of the flue. Care should be taken to have the work put in several inches of the pipes of flues. While it may cost a little more at first it will be more satisfactory, especially if a higher temperature is desired, if a small hot-water boiler or car heater is used. For a house 25x18 feet from 200 to 400 linear feet of ½-inch pipe, according to the temperature desired, will be necessary.

**(107) Bisulphide of Carbon for Ferns.**—The trips are ruining our rose buds in two large houses. Would liquid bisulphide of carbon create the pest? We have tried several remedies and can find nothing that is of any good. We saw something like this in a paper about bisulphide of carbon being a good insect exterminator. What proportion do you use? Would it also kill snails?—J.

**Obituary.**

**John H. Hutchinson.**

John H. Hutchinson, Portsmouth, N. H., died June 7. He was 77 years of age and was a native of the State. He served through the war and after he had been mustered out of the army returned to St. Johnsbury, where he started in the jewelry business, subsequently with his wife establishing a florist's business in Portsmouth, which was conducted under the firm name of M. E. Hutchinson & Co.

**James F. Webster.**

James F. Webster, of the firm of Webster Bros., of Hamilton, Ont., died June 5, aged 66 years. He was born in London, England, and came to Canada in 1852. He had been suffering from bronchitis and pneumonia some time, but his death was hastened by a hemorrhage. A widow and two grown-up children survive him.

**Marquette, Mich.**

William Ludy is building greenhouses here and will be among the florist business.

**The Right Cypress for Greenhouse Material.**

Have you heard of Cypress Greenhouse Material that has not been satisfactory? If you have it does not follow that Cypress is not the best lumber to use. There is high grade Cypress that grows in the swamps.

All of these different kinds are not suitable for greenhouse purposes. Do you know which kind is best and do you know that kind when you see it? If not you would better buy from those that do know and will deliver exactly what they sell. We introduced Cypress for greenhouse construction and pushed it to the front. We know all about it. For fifteen years we have made a specialty of furnishing it, and during this time we have built up a reputation that we cannot afford to jeopardize. We send out the best only.

Write for Circulars

**Lockland Lumber Co.,**  
LOCKLAND, O.

When Writing Mention Florists' Exchange

**Wrought Iron Pipes, Valves, Cocks, Fittings, etc., for Steam and Hot Water; Rubber Hoses, Pumps and Well Pumps.**  
WM. N. KAY, 42 Day St., New York.

When Writing Mention Florists' Exchange

**GREENHOUSE VALVES**  
FOR GREENHOUSES, CONSERVATORIES, GRAPERIES, HOTBEDS AND FLORISTS' USE GENERALLY, AT LOWEST RATES.  
**L. HARRIS & SON,**  
497 W. BROADWAY, NEW YORK, 621 BROADWAY, NEW YORK, 89 LIBERTY ST., NEW YORK, 601, Houston and Clark Sts.

When Writing Mention Florists' Exchange

**Brookline, Mass.**

James Quinn hopes to be with the crowd at the convention. He is rushing in a fine lot of Nephrolepis bostoniensis for his retail business, anticipating a larger demand than ever. He reports a good season's business and expects to build shortly.

Miss Vass is preparing for next season by sowing in seed. She has an excellent success with roses in solid beds. I believe she is the only one in the section who uses this method.

Fred E. Palmer met with an accident which at one time threatened to end his useful career in this line. It happened quite recently. While driving across the tracks a trolley car, without warning, struck the team of Mr. Palmer directly beneath the car, which rolled him along a distance of twenty feet. Fortunately, he fell between the wheels. He does not think he could repeat the feat again did he desire to do so. It was a narrow escape—a bad smash-up; the first he ever had, and a good prospect of hearing from him on further experiments with budded roses.

**Cambridge, Mass.**

F. C. Becker is busy planting out a great stock of the Boston fern. He will have more this year than usual, and is pushing the wholesale branch of his business extensively. Mr. Becker, Sr., is pleased with the increase in business since he took a well-earned rest and a trip to Europe, which he pretty well covered in the lengthy period of absence from home. He missed but little, making a general tour of commercial places more particularly, and while most favorably disposed towards the old country for commendable reasons, he is of decided opinion the stocks are now very busy with sea-shore orders, which promise to clean out everything in the shape of a pot plant. Orders for decorations have also been heavy of late. Mr. Murphy, the able foreman, intends taking a trip to New York and Philadelphia so soon as business slackens. He may take in the convention on his way home. W. M.

**GROW PLANTS IN "Jadoo" Fibre. WATER THEM WITH "Jadoo" Liquid.**

When Writing Mention Florists' Exchange



**Valves, Fittings and Ventilating Apparatus.**  
COLDWELL LULLCOX CO., Newburgh, N. Y. Mention paper.

**Great Improved Challenge.**  
Roller bearing, self-feeding device automatic with screw down and CRANKING the most perfect apparatus in the market.  
Write for catalogue and prices before placing your orders also Quaker City Machine Co. RICHMOND, IND.  
When Writing Mention Florists' Exchange

**SUMMER IN WINTER**  
By Using Standard Greenhouse Rollers

One cent gets our Catalogue.  
**GIBLIN & Co., Utica, N. Y.**  
When Writing Mention Florists' Exchange

**SCOLLY'S IMPROVED PUTTY BULB**  
For Glazing Sash, Etc., —ALSO THE PATENT PLANT SPRINKLER  
For sale by your Seedsmen and sent, postpaid for \$1.00.  
JOHN A. SCOLLY, 14 & 16 Myrtle Ave., BROOKLYN, N. Y.  
SEND STAMP FOR CATALOGUE.  
When Writing Mention Florists' Exchange

Chadborn's Automatic Ventilator  
**CHADBORN, KENNEDY & CO.**  
NEWBURGH, N. Y.

When Writing Mention Florists' Exchange

**IMPROVED GLAZING**  
**J. M. GASSER'S PATENT ZINC JOINTS**

For Roofing Glass Without Laps. Makes a Roof Air and Water Tight. Saves Fuel. No Breakage from Frost or Medium Sized Hail. Manufactured by

**J. M. GASSER,**  
101 Euclid Avenue, CLEVELAND, OHIO.  
Wholesale and Retail Florists.  
Write for Prices and Circulars.  
When Writing Mention Florists' Exchange

**IF YOU WANT A GOOD SASH LIFT**  
For a Very Little Money Get



For Descriptive Catalogue Send to **J. D. CARMODY, Evansville, Ind.**  
When Writing Mention Florists' Exchange

**CYPRESS IS MUCH MORE DURABLE THAN PINE.**  
**CYPRESS SASH BARS**  
UP TO 32 FEET IN LENGTH OR LONGER.  
**GREENHOUSE AND OTHER BUILDING MATERIAL.**

Send for our Illustrated Book "CYPRESS LUMBER AND ITS USES."  
Send for our Special Greenhouse Circular.  
**THE A. T. STEARNS Lumber Co.,**  
Newspapers, Boston, Mass.,

When Writing Mention Florists' Exchange

**CYPRESS GREENHOUSE MATERIALS OF MANY DESCRIPTIONS**  
**JOHN C. MONINGER Co.**  
412 to 422 HAWTHORNE AV. CHICAGO, ILL.  
When Writing Mention Florists' Exchange

**LORD & BURNHAM CO.,**  
**HORTICULTURAL ARCHITECTS AND BUILDERS,**  
 STEAM AND HOT WATER HEATING ENGINEERS.

Plans and Estimates furnished on application.



Largest Builders of Greenhouse Structures. Six Highest Awards at the World's Fair. Send four cents postage for Illustrated Catalogue.

**LORD & BURNHAM CO.,**  
 ARCHITECTURAL OFFICE, 160 FIFTH AVE., COR. 21st STREET, NEW YORK.  
 Factory: Irvington-on-Hudson, New York. Mention paper.

**GLASS!** For Greenhouses, Conservatories, Graperies, Hotbeds and all other purposes, at Lowest Rates. **GLASS!**  
**N. COWEN'S SON** 392 & 394 West Broadway, New York.  
 Formerly 154 and 156 So. Fifth Avenue.  
 Get our Figures before buying Glass. Estimates Freely Given.



**THE TWIN COMET (Stationary) \$5.00**  
**THE LITTLE GIANT (Traveller) \$5.00**  
**LAWN SPRINKLERS.**  
 Best Sprinklers made for Florists and Nurserymen's use. Will save labor of one man, for they sprinkle 4 times greater area than any other machine.  
**E. STEBBINS MFG. CO.**  
 Made for J. B. FELLOWS & CO., SPRINGFIELD, MASS.  
 49 Warren St., N. Y. City. Will send on 5 days' trial Agents Wanted. Can make big money.

When Writing Mention Florists' Exchange

**A GOOD HOSE IS A GOOD INVESTMENT**

The best is the cheapest. To ascertain what a hose is worth, divide the cost per foot by the number of years it will last. We are in the market to compete in number of years with quality that is manufactured. Price 12cots. per foot for 1/2 inch; 16cots. per foot for 3/4 inch, and 30cots. per foot for 1 inch hose.

Address **J. G. & A. ESLER, Saddle River, N. J.**  
 When Writing Mention Florists' Exchange

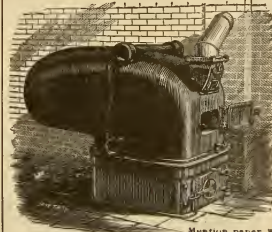
**GREENHOUSE GLASS.**  
 THE WOOD GLASS COMPANY  
 226 N. SALINA ST., SYRACUSE, N. Y.

**CALIFORNIA RED CEDAR**  
**Never Decays.**  
**A. DIETSCH & CO. 619 Sheffield Avenue, CHICAGO.**  
 MANUFACTURERS OF  
**RED CEDAR AND CYPRESS GREENHOUSE MATERIAL.**  
 When Writing Mention Florists' Exchange

**THE VAN REYPER**  
**PERFECT GLAZIERS' POINTS**  
 No rights or lefts. Price per box of 1000, 60c. by mail, 75c.; in lots of 5000 by ex., 55c. per 1000  
**HENRY A. DREER, 714 Chestnut St., Phila., Pa.**  
 When Writing Mention Florists' Exchange

SEND FOR OUR NEW CATALOGUE, WHICH SHOWS  
**The New Automatic Cable Ventilator**  
 As it is put up in the house complete. We also give you prices with a guarantee that each machine sent out will operate your house successfully. Sell machines new made in two sizes.  
**A. Q. WOLF & BRO., Dayton, Ohio.**  
 When Writing Mention Florists' Exchange

**GREENHOUSE HEATING AND VENTILATING,**  
 Horticultural Architecture and Building.



**Hitchings & Co**  
 ESTABLISHED 1844.  
 233 Mercer Street, NEW YORK  
**FIVE PATTERNS OF BOILERS.**  
 NINETEEN SIZES.  
 Perfect Sash Raising Apparatus.  
 Rosehouses, Greenhouses, Etc., of Iron Frame Construction erected complete or the Structural Iron Work shipped ready for erection.  
 Iron Frame Benches with the "Perfect Drainage Bench Tile" at Slate Tops.

SEND 4c. POSTAGE FOR ILLUSTRATED CATALOGUE.

**The Agricultural Drain Tile** made by JOHN H. JACKSON, ALBANY, N. Y., are the very best that have ever been made. They are made of the best material and are perfectly impervious. They are made in various sizes and are adapted for all kinds of soil. They are made in various colors and are adapted for all kinds of soil. They are made in various colors and are adapted for all kinds of soil.  
**ROUND TILE**  
 When Writing Mention Florists' Exchange

**TRADE GREENHOUSES.**  
 THE BEST MADE.

"Florists" Get Your Plans and Estimate from  
**PLENTY'S HORTICULTURAL WORKS,**  
 148-156 Randolph Ave., JERSEY CITY, N. J.  
 When Writing Mention Florists' Exchange

**STANDARD VENTILATING MACHINE.**  
 NONE EQUAL IT IN Strength AND Durability  
 NOTHING FLimsy OR Complicated about it.  
**E. HIPPARD, YOUNGSTOWN, OHIO**  
 When Writing Mention Florists' Exchange

**MASTICA**  
 FOR GLAZING GREENHOUSES. SUPERIOR TO PUTTY IN EVERY WAY.  
 It is not hardened by the extreme heat or cold that a greenhouse is constantly subjected to both inside and out. Mastica is adhesive and remains permanently elastic so that it is not forced out of place by expansion and contraction of the woodwork. It does not crack and does not become brittle with age. It is easy to apply and does not require any special tools or machinery.  
**HIGHEST AWARD OF SOCIETY OF AMERICAN FLORISTS AT PITTSBURG, 1895.**  
 Put up in gallons, \$1.00. Half gallons, 60cets. Quarter gallons, 35cets.  
**Mastical Glazing Machines, \$1.00 each.**  
 Send for full descriptive circular and testimonials. Agents in all the principal cities.  
**F. O. PIERCE CO., Sole Manufacturers, 170 Fulton St., New York.**  
 When Writing Mention Florists' Exchange

**The Ormsby Ventilating System**  
**F. O. Ormsby**  
 71 Summer St.  
 MELROSE, MASS.  
 When Writing Mention Florists' Exchange

**J. K. ALLEN,**  
Wholesale Commission Dealer in  
**CUT FLOWERS,**  
57 W. 29th St., New York.  
Orders by mail or telegraph promptly attended to.  
Telephone Call, 382 38th St.  
**ROSES and VIOLETS SPECIALTIES.**

**W. S. ALLEN,**  
17 West 28th St., New York.  
Correspondence Solicited.

**FORD BROS.**  
**WHOLESALE FLORISTS,**  
111 West 30th Street,  
NEW YORK.  
Consignments Solicited. Telephone 232 38th St.

**WM. H. CUNTER,**  
**Wholesale Florist**  
VIOLETS and CARNATIONS a SPECIALTY.  
Consignments Solicited.  
30 West 29th St., New York.  
Telephone No. 320-38th Street.

**MICHAEL A. HART,**  
**Wholesale & Commission Florist,**  
113 W. 30th St., New York.  
Telephone Call, 1307 38th St.  
All kinds of Roses, Violets and Carnations  
& Specialty.  
**ORDERS PROMPTLY ATTENDED TO.**

**H. A. HOFFMANN,**  
**Wholesale Florist**  
44 W. 29th St., NEW YORK.  
Telephone Call, 1558 38th St.  
American specialties. Carnations, White Violets,  
Specialties. CONSIGNMENTS SOLICITED.

**EDWARD C. HORAN,**  
**WHOLESALE FLORIST,**  
No. 34 W. 29th St., New York.  
The Bride, Merman and American  
Beauty, Specialties.

**JULIUS LANG,**  
**Wholesale Florist**  
53 WEST 30th St.  
Consignments Solicited. NEW YORK.

**MILLANG & CO.,**  
**Wholesale Commission Florists,**  
501 Sixth Avenue,  
Corner 30th Street, NEW YORK.  
BRANCH CUT FLOWER EXCHANGE.

**FRANK MILLANG,**  
**Wholesale Commission Dealer**  
...in Cut Flowers...  
408 East 34th St., New York City.  
Cut Flower Exchange, Telephone Call, 104-38th.  
When Writing Mention Florists' Exchange

**W. E. LYNCH,**  
**Wholesale Dealer in Cut Flowers.**  
We are Headquarters for finest Carnations and Roses, Violets, Valley, Romans, Smilax,  
Adiantum. Best selected stock reserved for shipping orders. Send us your name for our  
Semi-Monthly Price List. All orders given prompt attention.  
**19-21 RANDOLPH STREET, CHICAGO.**  
When Writing Mention Florists' Exchange

**CHAS. W. McKELLAR,**  
**WHOLESALE COMMISSION FLORIST**  
Largest and best market in Chicago. Constant supply of all seasons flowers.  
Gorgeousness of first grade goods selected. Complete stock of Florists'  
Supplies, Wire work, etc. All orders given prompt attention.  
**Telephone, Main 1129. 45, 47, 49 WABASH AVENUE, CHICAGO. ILL.**  
ED. F. WINTERSON, Manager.  
When Writing Mention Florists' Exchange

**WHOLESALE OF CUT FLOWERS AT LOW PRICES**

NAME and VARIETY.	NEW YORK	BOSTON	PHILADELPHIA	CHICAGO	St. LOUIS
	June 25, 1897.	June 18, 1897.	June 23, 1897.	June 23, 1897.	June 23, 1897.
A. Beauty, fancy and special	30.00 to 35.00	19.00 to 20.00	20.00 to 25.00	15.00 to 25.00	5.00 to 25.00
"    No. 1.	50 to 100.00	50 to 100.00	50 to 100.00	50 to 100.00	50 to 100.00
"    Cello and ordinary	5.00 to 8.00	5.00 to 8.00	5.00 to 8.00	5.00 to 8.00	5.00 to 8.00
Bennet, Queen	50 to 1.50	50 to 1.50	50 to 1.50	50 to 1.50	50 to 1.50
Bride	50 to 1.00	50 to 1.00	50 to 1.00	50 to 1.00	50 to 1.00
Bridemaid	50 to 1.00	50 to 1.00	50 to 1.00	50 to 1.00	50 to 1.00
Dagwood	50 to 1.00	50 to 1.00	50 to 1.00	50 to 1.00	50 to 1.00
E. A. Victoria	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00
La France, extra	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00
"    Ordinary	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00
Magnia Charta	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00
Mrs. Weston	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00
Motor	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00
Mrs. F. Morgan	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00
Paris, Royal	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00
Pink Goutier	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00
Perle	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00
Son of Woodson	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00
Ulrich Brunner	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00
Walsley	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00
Adaptus	75 to 1.00	75 to 1.00	75 to 1.00	75 to 1.00	75 to 1.25
Arsenal	50 to 1.00	50 to 1.00	50 to 1.00	50 to 1.00	50 to 1.00
Calais	1.50 to 3.00	1.50 to 3.00	1.50 to 3.00	1.50 to 3.00	1.50 to 3.00
All colors, inferior grades	10 to 25	10 to 25	10 to 25	10 to 25	10 to 25
"    White	15 to 50	15 to 50	15 to 50	15 to 50	15 to 50
STANDARD	15 to 50	15 to 50	15 to 50	15 to 50	15 to 50
YANKEE	15 to 50	15 to 50	15 to 50	15 to 50	15 to 50
"    (Yel. & Varie)	15 to 50	15 to 50	15 to 50	15 to 50	15 to 50
"    (Yel. & White)	15 to 50	15 to 50	15 to 50	15 to 50	15 to 50
"    FANCY	15 to 50	15 to 50	15 to 50	15 to 50	15 to 50
"    (GRAYS Highest)	50 to 1.00	50 to 1.00	50 to 1.00	50 to 1.00	50 to 1.00
"    (FINEST)	50 to 1.00	50 to 1.00	50 to 1.00	50 to 1.00	50 to 1.00
"    (OR and varieties)	50 to 1.00	50 to 1.00	50 to 1.00	50 to 1.00	50 to 1.00
"    (Yel. & Yel.)	25 to 75	25 to 75	25 to 75	25 to 75	25 to 75
"    NOVELTIES	50 to 1.00	50 to 1.00	50 to 1.00	50 to 1.00	50 to 1.00
CALIFORNIA	30.00 to 40.00	30.00 to 40.00	30.00 to 40.00	30.00 to 40.00	30.00 to 40.00
LAGO	10 to 30	10 to 30	10 to 30	10 to 30	10 to 30
LELIE	2.00 to 6.00	2.00 to 6.00	2.00 to 6.00	2.00 to 6.00	2.00 to 6.00
ISLE OF THE VALLEY	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00
MIGNONETTE	1.00 to 3.00	1.00 to 3.00	1.00 to 3.00	1.00 to 3.00	1.00 to 3.00
PARADISE	1.00 to 3.00	1.00 to 3.00	1.00 to 3.00	1.00 to 3.00	1.00 to 3.00
SWEET PEAR (NO BUNCHES)	8.00 to 10.00	12.00 to 15.00	15.00 to 20.00	10.00 to 15.00	8.00 to 12.00
VIOLETS	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00	5.00 to 10.00

For Prices of Fancy and Special Stock see our Correspondence Columns.  
Prices are for quantities of one hundred unless otherwise noted.  
Prices quoted above are given only after very careful inquiry, and while we do not  
guarantee their accuracy, they will be found practically correct up to the date mentioned.

**REINBERG BROS.,** Wholesale Growers of Cut Flowers.  
..... 500,000 Feet of Glass ..  
We can fill all orders on short notice with all leading varieties of ROSES and  
CARNATIONS. We are headquarters for fine AMERICAN BEAUTIES.  
Give us a trial and convince yourself.  
**SALESROOM 51 Wabash Avenue, CHICAGO, Ill.**  
When Writing Mention Florists' Exchange

**SAMUEL S. PENNOCK,** WHOLESALE  
FLORIST.  
...FOR JUNE WEDDINGS...  
A large stock of VALLEY, also Pink and White SWEET PEAS, of extra fine quality.  
A full line of all other desirable cut flowers.  
Will close at 6 P.M. after June 15.  
**1612-1614 Barker St., Bet. Chestnut & Market Sts., Philadelphia, Pa.**  
Local and Long Distance Phone 6210.  
When Writing Mention Florists' Exchange

**Illinois Cut Flower Co.,**  
J. B. DEAMUD, Manager.  
WHOLESALE COMMISSION FLORISTS,  
51 Wabash Ave., Chicago.  
Consignments Solicited.  
**KENNICOTT BROS. COMPANY,**  
**Wholesale - Cut - Flowers,**  
88 Wabash Avenue,  
CHICAGO, ILL.  
WIRE WORK A SPECIALTY.

**THE NEW YORK CUT FLOWER CO.**  
119-121 West 23d Street,  
112-114 West 24th Street,  
Telephones 733, 1233 St. NEW YORK.  
**THE LARGEST DEALERS IN CUT  
... FLOWERS IN THE WORLD ...**

**PURDY & BLAUVELT,**  
Wholesale and Commission Dealers in  
**CUT FLOWERS**  
MAIDENHAIR FEEN FEENDE A SPECIALTY.  
57 WEST 30th STREET,  
Bet. Broadway & 3rd Ave. NEW YORK.

**A. & F. ROLKER,**  
WHOLESALE DEALERS IN  
**CUT FLOWERS**  
53 West 28th St.  
Telephone 2379 38th St. NEW YORK.

**W. F. SHERIDAN**  
Wholesale Commission Dealer in  
**CUT FLOWERS**  
39 West 25th St., New York.  
Telephone, 214-38th St.  
PRICE LIST SENT ON APPLICATION.

FRANK H. TRAUBER, CHARLES SCHENCK,  
**TRAENDLY & SCHENCK,**  
Wholesale Florists,  
88 W. 28th St., and CUT FLOWER EXCHANGE.  
NEW YORK.  
Telephone 991-38th St.  
#2-Consignments Solicited.

**JOHN YOUNG,**  
**Wholesale Florist,**  
51 WEST 28th St.,  
NEW YORK.

**WM. J. BAKER,**  
**Wholesale Florist**  
1432 So. Penn Square,  
Philadelphia, Pa.

**DUMONT & CO.,**  
**WHOLESALE FLORISTS**  
CARNATIONS A SPECIALTY.  
No. 1305 Filbert St., Philadelphia.

**EDWARD REID,**  
**Wholesale Florist**  
...FIRST VARIETIES...  
ROSES, CARNATIONS,  
No. 40 South Sixteenth Street,  
Lombard and Locust, Philadelphia.  
Business TRUCK.  
A trial order will convince you that our consignments  
are the finest.

**ROGERS PARK FLORAL CO.,**  
**Wholesale Growers of Cut Flowers**  
OFFICE AND SALESROOM,  
41 WABASH AVE., CHICAGO.  
HEADQUARTERS FOR AMERICAN BEAUTIES.

**Wholesale Florists**  
 ALVARADO BROS.  
 CANTON, MASS.  
 BOSTON, MASS.  
 BOSTON, MASS.

*JOBBERS IN*

**FLORIST'S SUPPLIES.**

*F. W. Anthony & Co.*

**FLORISTS' VASES.**  
 140 different patterns,  
 84 HAWLEY STREET, - BOSTON.

**GEO. A. SUTHERLAND,**  
 Successor to WM. J. STEWART,  
**CUT FLOWERS and FLORISTS' SUPPLIES**  
 WHOLESALE.  
 67 Bromfield St., Boston, Mass.

**City Hall Cut Flower Market**  
**WELCH BROS., Props.**  
 Regular Customers Given Space Free of Charge. Space also to growers wishing to sell their own goods.  
 Flowers Shipped to all Ports.  
**SEND FOR PRICE LIST.**

**W. ELLISON,**  
**Wholesale Cut Flowers,**  
 Florist Supplies, Wire Designs.  
 2744 Franklin Ave., ST. LOUIS, MO.

**CHAS. G. FLECKENSTEIN,**  
**Wholesale Flowers,**  
 1323 PINE STREET,  
 ST. LOUIS, MO.

**C. A. KUEHN,**  
**Wholesale Florist,**  
 1122 Pine St., St. Louis, Mo.  
 A COMPLETE LINE OF WIRE DESIGNS.

**C. W. WORS,**  
**Wholesale Florist,**  
 313 N. LEFFINGWELL AVENUE,  
 ST. LOUIS, MO.  
**FINE ROSES**—Shipped carefully to all parts of the country.

**Buffalo Cut Flower Exchange,**  
**Wholesale Commission,**  
 481 WASHINGTON ST., BUFFALO, N. Y.  
 Telephone, Seneca 1366.

**HEADQUARTERS** in Western New York. Try us **ROSES, CARNATIONS AND ALL SEASONABLE FLOWERS.**  
**WM. F. KASTING,** Wholesale Commission Florist  
 495 Washington Street,  
 BUFFALO, N. Y.  
 Also Dealer in Florists' Supplies & Wire Designs

**St. Louis Cut Flower Co.**  
 Wholesale Florists,  
 1620 Olive St.,  
 ST. LOUIS, MO.  
 When Writing Mention Florists' Exchange

**TOBACCO DUST**  
 TO BURN, \$3.00 per bu., 180 lbs.  
 TO SPRINKLE, \$6 per case, 450 lbs.  
 G. A. Scott, 115  
 CORRECT KIND, 318 Madison Ave.,  
 N. Y. C.

When Writing Mention Florists' Exchange

**ASPARAGUS PLUMOSUS NANUS,**  
**W. H. ELLIOTT,** - Brighton, Mass.  
 When Writing Mention Florists' Exchange

**Fine Smilax,** 45 cent hundred strings  
**SWEET PEAS,** 45 cents hundred blooms.  
 Cash with order, please.  
**W. KEIR,** - Pikesville, Md.  
 When Writing Mention Florists' Exchange

**Galax Leaves.**  
**CHAS. H. RICKSECKER,** Linville, N. C.  
 When Writing Mention Florists' Exchange

... FOR FINEST ...

**Galax Leaves and**  
**Leucothoe Sprays,**  
 ALWAYS WRITE THE INTROUCERS,  
**Highlands Nursery, Kawana, N. C.**  
 When Writing Mention Florists' Exchange

**FLORISTS' FERNS!!**  
**Hardy Cut Ferns.**  
 A new crop of Ferns, 1897, first quality in a new line of foliage. **BANQUET FERN,** **SWISS FERN,** **FLORIST'S FERN,** **ROSEMARY FERN,** **LAUREL FERN,** **WAX FERN,** **SPIDER FERN,** **MASS.** 50¢ a barrel. All orders by mail or express promptly attended to. **THOMAS WILSON,** 6-10, Box 91, Houdon Ave., N. Y. C.

When Writing Mention Florists' Exchange

**E. G. HILL & CO.,**  
**Wholesale Florists,**  
**RICHMOND, INDIANA.**  
 When Writing Mention Florists' Exchange

**CUT SMILAX**  
 Choice 6 foot strings, \$2.00 per 100. Annual output, 5000 strings.  
**ADIANTUM CUNEATUM**  
 Extra fine fronds, \$1.00 per 100.  
 No attention will be paid to orders not accompanied by the cash.  
**JUSTAVE SCRADER,**  
 Cut Flower Exchange, and Hoffman Boulevard,  
 New York. - Newtown, L. I., N. Y.  
 When Writing Mention Florists' Exchange

**NEW FERNS!!**  
 75 cents per 1000,  
**HARDY CUT FERNS.**  
 We have **FIRST** quality, fancy fringes. Try us. We are sure to please you.  
**LAUREL ROPING**  
 4 cts. per yard.  
 All orders by mail or express promptly attended to.  
**CROWL FERN CO.,** Millington, Mass.  
 Telegraph Office, New Salem, Mass.  
 When Writing Mention Florists' Exchange

**COMPLETE LINE OF SUPPLIES**  
**WIREWORK**  
 WE CAN MAKE ALL THE WIREWORK IMPORTERS WANT  
**80 LBS. HAND MADE FINE STOCK WIRE FLOWERS**  
 PHONE 1227  
**BOOK 75**  
**ELLIS & POLLYWORTH**  
**MILWAUKEE, WIS.**  
 When Writing Mention Florists' Exchange

**SITUATIONS WANTED.**  
**FOREMAN and manager** want situation. American, married, 30 years, reliable, experienced grower, Christian, please refer. Address **J. M. care Florists' Exchange.**  
**SITUATION** wanted florist, single, German, 21, best experience in greenhouse, cut flowers and market plants and ferns. Gardener, care of hieker. **Borst, 128 E. 124th St., New York.**  
**SITUATION** wanted as assistant gardener or florist. One who has small capital in mind and do general work required. Good references; English. 11 years' experience. Address **J. S., care of Florists' Exchange.**  
**FLORIST,** young single man, as salesman, there in flower, decorative, willing to make himself general manager, experienced, moderate; reference, **B. T. care Florists' Exchange.**  
**SITUATION** wanted by married man, Scotch, no family, practical farmer of cut flowers, bedding plants and vegetables and all work on a private place, good references, and all work on a private place, **Schmitt, Florist, 45 Clark St., Brooklyn, N. Y.**  
**A GOOD** practical grower of cut flowers, with long experience in management of plant grower, on a private place, familiar with all details of the business, can produce **A1** stock. Full particulars and references by addressing **Florist H., 127 Madison Ave., Jersey City, N. J.**

**SITUATION WANTED.**  
 By a single man of fifteen years' experience in gardening and greenhouses; experienced in growing of ferns, palms, forcing bulbs, and all kinds of flowers, also planting and propagating; first-class references. Address **F. M. KERRY, Florist, 440 Broadway, New York.**  
**Care E. Weimer, Florist, Third Ave. & 5th St., Mount Vernon, N. Y.**

**HELP WANTED.**  
**WANTED**—A competent man who understands the growing of cut roses, especially roses, until one may be recommended as a housey, solitary and suitable for all purposes and already employed for the right man. **A. H., Box 3, Highland Park P.O., Detroit, Mich.**

**WANTED.**  
 Young man with some experience in greenhouse work. **Paul Mader, Florist, East Stroudsburg, Pa.**

**WANTED.**  
 A competent rose grower, must be well recommended. Good place to the right man. Address **H. G. Eyres, Albany, N. Y.**

**WANTED.**  
 Additional capital to increase an established seed and plant business. Investor can manage financial. **LONG EXPERTISE.** References exchanged.  
 Address, "**B. B.,"** care Florists' Exchange.

**FOUR MEN WANTED.**  
 For four rose houses. Each man to take one charge, under the supervision of foreman of the following varieties: **Tricolor, Maiden, Beauty or Director.** Only those who can grow these varieties successfully need apply. State experience and references. **Wages \$25.00 per month and board.**  
**DEAN & CO., Little Silver, N. J.**

**B. K. BARRIS,** Jacksonville, Fla., has opened a Seed Store, and would like Wholesale Catalogues and Price Lists.

**GREENHOUSES WANTED**  
**WANTED TO RENT**  
 300 to 500 foot of glass. Items trade preferable  
 Address, **R. L. Aches, care Wm Elliott & Sons, 51 Bay Street, New York.**

**WANTED TO RENT**  
 In vicinity of New York, about 500 or 600 foot of glass, in good running order. Send full particulars to **H. Englewood, N. Y.**

**FOR SALE.**  
**FOR SALE CHEAP.**  
 Extra good second-hand 3 and 4 inch pipe for hot water heating.  
**W. H. SALTER,** Rochester, N. Y.

**Six Boilers for Sale**  
 In good condition, at all prices.  
 Also want one small Hitchings Base Pumping Water Heater, Grimey Defence, or Furman Jr. For particulars address  
**B. E. WADSWORTH,** - Danville, Ill.

**BUSINESS OPPORTUNITIES**  
**TO LET.** A place with 8 small houses, 2 acres of land, a good farm, with a large stock of excellent cheese for young man to start in business. Excellent education. Maastricht cultivation will make money. Apply to **W. H. SALTER, Florists' Exchange, Rochester, N. Y.**

**FOR SALE.** Five greenhouses in New York City well patronized. In good order. Will be sold for less than cost. For particulars apply to **Francis Supler, 839 Park Ave., N. Y. City.**

**GREENHOUSES FOR RENT**  
 In thriving Western New York, 15,000 ft. glass; also building in progress. Well patronized, reliable permanent tenant. Rent reasonable. Address **127 Madison Ave., Jersey City, N. J.**

**FOR SALE OR TO RENT.** New greenhouse in New York City, well patronized. In good order. Will be sold for less than cost. For particulars apply to **Francis Supler, 839 Park Ave., N. Y. City.**

**FOR SALE AT A BARGAIN.**  
 First-class greenhouse property at Spring Lake, N. J. Fully equipped in growing good business. For particulars apply to  
**MILAN ROSS, Agency, 270 Broadway, New York, N. Y.**  
**Abury Park, N. J.**

**NEWPORT, R. I.**  
 For sale, the property of the late Gilbert I. Ward, comprising more than 5 acres, lies over the city of Newport, R. I. The house is well located, bounded on the east by Easton's Pond, on the west by the city waterworks, and on the north and south by the sea. It is a fine view of landscape, lake and ocean. For full description and particulars with plans, apply to **A. W. WARD, State Agent, 35 Centre Street, Newport, R. I.**

**FOR RENT.**  
**On the Most Favorable Terms.**  
 Nine homes modern construction, in first-class order, heated by hot water, as follows:  
 One house, 65 x 25 feet.  
 Two houses, 10 x 10 feet.  
 Two houses, 10 x 20 feet.  
 One house, 125 x 25 feet.  
 One house, 100 x 20 feet.  
 One house, about 125 x 15 feet.  
 One house, about 100 x 10 feet.

This range embraces the homes made vacant by the sale of the Orchidee, and is entirely distinct and separated from the same now occupied by the United States Nurseries. The most favorable terms will be accorded the right party. For full particulars apply to  
**JAS. R. FITCHER,**  
 24 Grove Street, New York

**HENDERSON'S BULB CULTURE.**  
 THIS is a large twenty-four page book, with 32 illustrations and 1000 photographs, containing the best and most reliable and up to the latest date. This book should be in the hands of every Florist.  
**50 CENTS PAID FOR SALE.**  
**THE FLORISTS' EXCHANGE**  
**P. O. BOX 1897, NEW YORK.**

**CHRYSANTHEMUMS** A7 the best standard varieties, from stock \$2.00 per doz. Mrs. J. Robinson, 1109 10TH ST.

**VIOLETS** California, Marie Louise, single white, from 25¢ inch pots, \$1.00 per 100.

**SMILAX** Strong bushy plants, 2½ inch pots, per hundred; 2 inch pots, \$2.00 per hundred.

**C. EISELE, 11th & Jefferson Streets, Philadelphia, Pa.**  
When Writing Mention Florists' Exchange

**HAVE YOUR COLLECTIONS MADE THROUGH THE NATIONAL FLORISTS' BOARD OF TRADE, 271 BROADWAY, NEW YORK.**  
When Writing Mention Florists' Exchange

**WELCH BROTHERS, DEALERS IN FLORISTS' SUPPLIES,**  
15 Folsom Street, BOSTON.  
Write Designs, What Sheaves, Baskets, Immortelles, Cape Flowers, Cut Flowers, Boxes, and all other supplies, at prices to meet competition.  
When Writing Mention Florists' Exchange

**M. RICE & CO., Importers and Manufacturers of FLORISTS' SUPPLIES.**  
25 N. 4th St., Philadelphia, Pa.  
NEW FALL CATALOGUE NOW READY  
When Writing Mention Florists' Exchange

**SHEEP FERTILIZER!**  
PULVERIZED. COMPRESSED.  
A Quick Fertilizer and Crop Forcior.  
NATURAL. ODORLESS. CLEAR TO HANDLE.  
**JOHN J. PETERS CO., Long Island City, N.Y.**  
When Writing Mention Florists' Exchange

**SHEEP MANURE.**  
We have the finest, prepared, at \$25.00 per 100 lbs.; ¼ ton at ten prices.  
**GODFREY ASCHMANN, 1012 Ontario St., PHILA., Pa.**  
When Writing Mention Florists' Exchange

**THE BEST FOR ALL Florists.**  
**ROSE LEAF TOBACCO EXTRACT**  
FOR SALE by Seed Store.  
For Free Pamphlet write to LOUISVILLE SEED STORE, Louisville, Ky.  
When Writing Mention Florists' Exchange

**SAVE THE BLOOMS! NIKOTEN**  
DOES NOT INJURE SENSITIVE PLANTS USED FOR FUMIGATION OR SPRAYING, INDOORS OR OUT.  
200 POUNDS TRAILING IN THE GARDEN  
Price \$1.50. **A. B. EEDSMEN**  
When Writing Mention Florists' Exchange

**CHOCOLATE COOLER CO., GRAND RAPIDS, MICH.**  
Manufacturers of  
**FLORIST'S REFRIGERATORS.**  
Send for Circular.  
When Writing Mention Florists' Exchange

**BRONZE FILTER**  
MANUFACTURERS OF FLORISTS' WIRE DESIGN  
125 W. 25th St. NEW YORK  
TELEPHONE 1782 18TH ST.  
When Writing Mention Florists' Exchange

**Standard Flower Pots.**  
Send for our New Price List with extra discounts. All our Pots, from 7 in. and upwards, have our Patent Flowerer Bottom, which is a great advantage, as it insures perfect drainage.  
**A FULL LINE OF BULB PANS.**  
**THE WHILLDIN POTTERY CO., 713 to 719 Wharton Street, PHILADELPHIA.**  
BRANCH HOUSES: 1 Kew-Forest and Westside Aves., Jersey City, N.J.; Jackson Ave. and Pearson St., Long Island City, N.Y.

**INDIAN BRAND. NO ADULTERATION BONE FLOUR NO ACID**  
References: Fred. Dörner & Sons Co., La Fayette, Ind.; John Taylor, Ft. Wayne, Ind.; P. C. Hill & Co., Richmond, Ind.; L. L. May & Co., St. Paul, Minn.  
**GEO. S. BARTLETT, 1255-1257 WEST 6TH ST., CINCINNATI, O.**  
SUCCESSOR TO CINCINNATI DESICCATING CO.

**AUCTION SALE. TUESDAY, JUNE 29, AT 11 A.M.**  
**PALMS, DRACÆNAS, Etc.** Catalogues on Application.  
**R. M. GARDNER & CO., AUCTIONEERS, 199 Fulton Street, New York.**

**Florists' Supplies.** Largest Stock in the Country.  
All goods up to date, and of superior quality.  
Send for Illustrated Catalogue.  
**H. BAYERSDORFER & CO., PHILADELPHIA, PA.**  
60 N. FOURTH STREET.  
When Writing Mention Florists' Exchange

**FLOWER POTS**  
We are Manufacturing a Full Line of  
**STANDARD FLOWER POTS and HANGING BASKETS OF THE BEST QUALITY.**  
Shipping Facilities First-Class, thereby Securing Lowest Freight Rates.  
Our goods are well packed, and breakage is nominal. Give us a trial. Send for Price List.  
**Address THE SYRACUSE POTTERY CO., 403 N. SALINA ST., SYRACUSE, N. Y.**  
When Writing Mention Florists' Exchange

**LARGEST AND BEST STOCK OF PREPARED CYCAS LEAVES**  
TO BE FOUND ANYWHERE.  
Metal Floral Designs, Sheaves, Doves, Baskets, Moss Wreaths, Wheat, Milkweeds, Cape Flowers, Wire Work, and all Florists' Supplies.  
Write for catalogue. Free to the trade.  
**A. HERRMANN, 404-412 East 34th Street (Near Ferry), New York.**  
Manufacturer of METAL FLORAL DESIGNS, Importer and Dealer in FLORISTS' SUPPLIES.  
When Writing Mention Florists' Exchange

**CYCAS LEAVES AND WIRE FRAMES, BASKETS AND SUPPLIES, FLORISTS' SEEDS AND BULBS.**  
At wholesale only; apply for lists. Address  
**AUGUST RÖLKER & SONS, NEW YORK,**  
136 and 138 West 24th Street. P. O. Station E.

**"JADOO" FIBRE**  
The New Material in Which  
**EVERY PLANT THRIVES WITHOUT EARTH,**  
And which has proved as invaluable to the Grower as to Amateur Gardeners.

**"JADOO" LIQUID,**  
Both Meat and Drink to Plants. Simply Invaluable in Pot Culture. The Best and Cheapest Fertilizer Made.  
TESTIMONIALS AND PRICES FURNISHED ON APPLICATION TO  
**THE AMERICAN JADOO CO.,**  
511 Fairmount Ave., PHILA., PA.  
When Writing Mention Florists' Exchange

**JOHN CONLEY & SON, MANUFACTURERS OF TIN FOIL**  
2 and 4 Dominick Street, NEW YORK.  
When Writing Mention Florists' Exchange

**STANDARD POTS.**  
We are now ready to supply a superior quality of Pots in unlimited quantities. Catalogues and price lists furnished on application.  
**A. H. HEWES & CO., NORTH CAMBRIDGE, - MASS.**  
When Writing Mention Florists' Exchange

**STANDARD FLOWER POTS**  
In any quantity, and of the best quality. Get my price list before ordering elsewhere.  
**W. H. ERNEST, Station M. N. E., WASHINGTON, D. C.**  
When Writing Mention Florists' Exchange

**HILFINGER BROS. STANDARD FLOWER POTS.**  
We manufacture a full line of Standard Flower Pots, Seed Pans, Cylinders, glass and unglazed, Lawn Vases and Hanging Vases. Write these bargains: Lawn Vases, 7 1/2 inch, \$1.00 each; 10 1/2 inch, \$1.50 each; extra strong 12 inch, \$2.00 each; 20,000 5 inch pots, at \$100 per 1000; 20,000 3 inch pots, at \$75 per 1000.  
Send for Price List for other sizes before ordering elsewhere. Address  
**HILFINGER BROS., Fort Edward, N. Y.**  
OR AT THE NEW YORK OFFICE, 136 E. 13th St., 24th St., N. Y. City  
When Writing Mention Florists' Exchange

**EL PASO BRAND PURE SHEEP MANURE.**  
ONCE TRIED, ALWAYS USED.  
Mixed liberally with the soil, nothing can equal it for results on **Plinks, Roses, Violets and Chrysanthemums.**  
Used in liquid form it beats all others.  
\$2.00 per 100 lbs.; \$20.00 per ton.  
F. O. B. Houston. 500 lbs. list at ton rate. Car load price on application.

**SCHLEGEL & FOTTLER, 26 So. Market St. BOSTON, MASS.**  
Send for our Import Prices on  
**DUTCH and FRENCH BULBS.**  
When Writing Mention Florists' Exchange

**Boston Florist Letter Co.**  
Manufacturers of  
**FLORISTS' LETTERS.**  
DISTRIBUTORS OF 1913 AND 1914  
When Writing Mention Florists' Exchange

This machine has plainly stated and verified, 18,000 size made in two sections, one for each size letter, green and blue ink, and 500 letters, 1 1/2 inch size, 100, \$2.00; 1 1/2 inch, 1 1/2 x 2 inch size, 100, \$2.00.  
Partner with each letter or word.  
Write by leading florists everywhere and for sale by all wholesale florists and supply dealers.  
**N. F. MCCARTHY, Treas. & Manager, 147 WASHINGTON ST., BOSTON, MASS.**

**DO NOT BE HUMBUCCED**  
Imitations of our **GREEN SILKALINE**

**SILKALINE**  
Contains more cereal and does more work than anything else on the market. The original and only SILKALINE made solely by **JOSEPH N. C. WYER & CO.,** 147 WASHINGTON ST., BOSTON, MASS.  
When Writing Mention Florists' Exchange

# THE FLORISTS' EXCHANGE

We are a straight shoot and aim to grow into a vigorous plant.

A WEEKLY MEDIUM OF INTERCHANGE FOR FLORISTS, NURSERYMEN, SEEDSMEN AND THE TRADE IN GENERAL.

VOL. IX. No. 27.

NEW YORK, JULY 3, 1897.

One Dollar Per Year

## ..PALMS..

Owing to our stock being grown with plenty of air the plants are all strong and sturdy, and will bear transportation for long distances. Florists intending to purchase this class of stock for their fall trade will do well to place their orders immediately, so that they can have them shipped by freight, thus avoiding the excessive cartage charges which they would have to pay, if shipped during the cold winter. The prices will also be very much higher in the fall than at the present time, owing to the high duty which will probably then be in force.

- ARECA LUTESCENS.**  
 4 inch pots, 15-18 inches high, 3 plants in a pot.....\$4.00 per dozen; \$45.00 per 100  
 6 inch pots, 21-24 inches high, 3 plants in a pot.....\$6.00 per dozen; \$50.00 per 100  
 8 inch pots, 28-33 inches high, 3 plants in a pot.....\$12.00 per dozen; \$100.00 per 100
- KENTIA BELMOREANA.**  
 3 inch pots, 8-12 inches high, 4-5 leaves.....\$3.50 per dozen; \$25.00 per 100  
 4 inch pots, 12-15 inches high, 4-5 leaves.....\$6.50 per dozen; \$50.00 per 100  
 5 inch pots, 15-20 inches high, 4-7 leaves, stocky.....\$9.00 per dozen; \$75.00 per 100  
 6 inch pots, 23-31 inches high, 6-7 leaves, stocky.....\$15.00 per dozen; \$100.00 per 100
- KENTIA FORSTERIANA.**  
 3 inch pots, 12-15 inches high.....\$4.50 per dozen; \$45.00 per 100  
 4 inch pots, 15-18 inches high.....\$4.50 per dozen; \$35.00 per 100
- LATANIA BORBONICA.**  
 3 inch pots.....\$10.00 per 100  
 4 inch pots, 12-15 inches high.....\$6.00 per dozen; \$40.00 per 100  
 5 inch pots, 15-18 inches high, stocky plants.....\$9.00 per dozen; \$75.00 per 100  
 6 inch pots, 20-28 inches high, stocky plants.....\$15.00 per dozen; \$100.00 per 100
- COCOS VEDELIANA.** 3 inch pots.....\$3.00 per dozen; \$25.00 per 100
- LIVISTONA HOOGENDORP.** 4 inch pots, 10-12 inches high, 7 leaves, 4.50 per dozen; \$30.00 per 100.
- LIVISTONA ROTUNDIFOLIA.** 5 inch pots, 12-15 inches high, 7-8 leaves, strong plants, \$1.50 each; \$18.00 per dozen.
- PHENIX REGLINATA.** 5 inch pots, 18-18 inches high.....\$4.00 per dozen; \$45.00 per 100

**PITCHER & MANDA, Short Hills, N. J.**  
 JOHN N. MAY, Receiver.  
 When Writing Mention Florists' Exchange

## WINTER FLOWERING ROSES.

Our stock of these is very large, and is of exceptionally fine shape. We offer all the leading varieties, strong plants in 2 1/2 in. pots, as follows:



- PERLE, BRIDESMAID, BRIDE and MME. CUSIN.**  
 \$5.00 per 100; \$40.00 per 1000.
- MME. CAROLINE TESTOUT and MRS. PIERPONT MORGAN.**  
 \$6.00 per 100; \$50.00 per 1000.
- AMERICAN BEAUTY.**  
 \$9.00 per 100; \$80.00 per 1000.
- PRESIDENT CARNOT.**  
 \$15.00 per 100; \$125.00 per 1000.
- We have a new stock, also, of the new climbing  
**YELLOW RAMBLER ROSE**  
 The only hardy yellow climbing rose yet introduced. A worthy companion to the wonderful Crimson Rambler. Strong plants, 2 1/2 in. pots, \$1.50 per doz.; \$10.00 per 100.  
 Strong plants, 3 1/2 in. pots, \$3.00 per doz.; \$20.00 per 100.

The above Rose Stock is in perfect shape and will please the most fastidious. Samples sent if desired. We invite inspection of stock.

## DOUBLE TUBEROUS BEGONIAS

On this stock we have as long as unsold at \$3.00 per 100; \$25.00 per 1000. This is only the price of ordinary Single Begonias, and considerably below cost. We offer at this unusual price only in order to close out stock.

We have a new **TUBEROSE PEARL**. Extra quality bulbs, 4-6 inches in circumference, perfect shape, 50c. per 100; \$1.00 per 1000, plus also of.

**SEEK QUICK IF YOU WANT THESE BARCAINS.**

Our Whole sale List of Palms, Decorative Plants, etc., will be sent free on application.

**F. R. PIERSON CO.,**  
 TARRYTOWN-ON-HUDSON, NEW YORK.  
 When Writing Mention Florists' Exchange

## To Close Out at One!

1000

**METEOR ROSES** for \$75.00;  
 \$8.00 per 100.  
 Fine, Strong, Clean Stock.

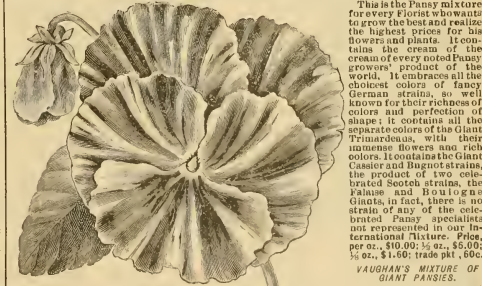
1000

**NEW CANNA AUS RA**  
 for \$80.00; \$10.00 per 100. Fine Stock.

**PALMS, FERNS and DRACÆNAS** of every Kind, Size and Price. **BAY TREES** all Sizes. All for the Trade.

**SIEBRECHT & SON,**  
 Rose Hill Nurseries, NEW ROCHELLE, N. Y.  
 When Writing Mention Florists' Exchange

## VAUGHAN'S INTERNATIONAL PANSY MIXTURE.



only, it contains the Cassier and Bignot strains, Giant Paris and the mixture of colors of Tinarand. It will produce a larger variety of colors than any other large flowering Pansy mixture and is especially suited to a trade that demands large Pansy flowers. Price, per doz., \$5.00; 1/2 doz., \$1.35; 1/4 doz., 75c. trade pkg., 60c. Send for complete list of Pansies in separate copy.

**SEASONAL FLOWER SEEDS**

**CINERARIA** Hybrid, best flowering, mixed, 50 seeds, 25 cts. Large flowering, dwarf mixed, per trade pkg., 25 cts. Double, extra choice mixed, per trade pkg., 20 cts. James' Giant, a very fine English strain, pkg., 50c. **VAUGHAN'S COLLEGIATE MIXTURE**, 100 seeds, 50c. **CYCLAMEN**, Giant Flowered, Mixed, 1000 seeds, \$1.00; 1/2 doz., \$2.00; 100 seeds, 50 cts. **PRIMULA SINENSIS**-VAUGHAN'S INTERNATIONAL MIXTURE, 100 seeds, 50c. This mixture is composed of the most suitable colors of Single Flowering Chinese Primulas, the best white shades, pinks and reds, with a sprinkling of other colors, enough to give a large variety of colors, the most important shades predominating. Price, per 100 seeds, 50c. 5 pkts., 1150 seeds, \$2.00; per 1-10 cts., \$3.50.

11 Barclay Street, **VAUGHAN'S SEED STORE,** 81 Randolph St., NEW YORK, CHICAGO.  
 When Writing Mention Florists' Exchange

SEASONABLE SEEDS!



PRIMULA FIMBRIATA

(Chinese Primrose).
Rulbra (Red), Alba (White), Alba Magnifica, Rubra Violacea, Chiswick Red, Meteor, Village Maid or Choice Mixed.
Trade Packages, 50c. and \$1.00.

CINERARIA

Hybrida Grandiflora choice mixed, Extra Fine Dwarf Mixed, Grandiflora Kermsedia, Dbl. Flowering.
Trade Packages, 50c. and \$1.00.

CALECOLARIA

Hybrida Grandiflora, choice mixed.
Trade Packages, 50c. and \$1.00.

WM. ELLIOTT & SONS

NEW YORK.
When Writing Mention Florists' Exchange

ALL TURNIP SEED, VARIETIES:
CUMBER SEED, Best for Pickling.
First consignment of our "SURE CROP" ENGLISH MUSHROOM SPAWN just arrived. Quality better than ever. Prices right to Dealers.
WEEDER & SON, Seed Merchants,
114 Chambers St., NEW YORK CITY.
When Writing Mention Florists' Exchange

P. OUWERKERK,

1123 Summit Ave., Jersey City, N. J.
Just received from our Holland

Nurseries:
RHODODENDRONS, AZALEAS,
SPIRÆA JAPONICA, LILIUUM SPECIOSUM,
PÆONIES, BLEEDING HEART,
POT GROWN LILACS, HYDRANGEA IN SORTS.
CLEMATIS and H. P. ROSES, in the best sorts

PRICES MODERATE.
When Writing Mention Florists' Exchange

When Writing Mention Florists' Exchange

PALM SEED

FRESH ON HAND
Per 100 1000 3000
Chamærops excelsa, \$5.00 \$50.00 \$500.00
Phoenix canariensis, . . . 5.00 50.00 500.00
" " leucodora, . . . 1.00 10.00 100.00
" " maximiliani, . . . 1.00 10.00 100.00
" " rostrata, . . . 1.00 10.00 100.00
Phoenix danielliana, . . . 1.00 10.00 100.00
" " ferox, . . . 1.00 10.00 100.00
" " rostrata, . . . 1.00 10.00 100.00
When Writing Mention Florists' Exchange

J. L. SCHILLER, Rutherford, N. J.
When Writing Mention Florists' Exchange

Pansies Worth Raising.

NEW CROP SEED.
Exceptionally well developed, can be had now in packages containing about 3000 seeds for \$1.00 per package.
CASH WITH ORDER.
G. Soltau & Co., 150 Grant Avenue, Jersey City, N. J.
When Writing Mention Florists' Exchange.

Prize-Winning DAHLIAS

AN UNPRECEDENTED RECORD.
23 First Prizes, Certificate of Merit, 2 Diplomas, and highest mention everywhere.

If you want the Very Best Dahlias that bloom, send for our 1897 descriptive trade list now ready. Address
W. P. PEACOCK,
Dahlia Specialist, ATCO, N. J.
When Writing Mention Florists' Exchange

When Writing Mention Florists' Exchange

SEEDS

KENTUCKY BLUE GRASS (POA PRATENSIS),
CHAS. E. PRUNTY,
MAIN AND MARKET, SAINT LOUIS.
When Writing Mention Florists' Exchange

ALLEN'S DEFIANCE MIGNONETTE

New Crop, Growing Outside and Looking Fine, will be Ready August 1st.
This stock is all grown from special selected spikes and is sure to prove good under proper treatment. \$1.00 per oz.; 50 cts. per packet.
Still a little of the original crop left which will germinate about 50 per cent., at \$1.00 per pkt.

CHARLES H. ALLEN, FLORAL PARK, N. Y.
When Writing Mention Florists' Exchange

PRICES ON

BULBS, ROOTS, and DECORATIVE PLANTS,
For Fall Delivery, Now Ready. Send for Catalogue.
F. W. O. SCHMITZ, JERSEY CITY, N. J.
When Writing Mention Florists' Exchange

PRIMULA SINENSIS SEED

The Wm. Scott strain (grown by Wm. Scott, Buffalo), includes:
Our "GREAT SCOTT MIXTURE," from assortment of 10 varieties.
Also 4 SEPARATE COLORS, Single White, Pink, Red and Double Red.

Sold only in sealed Trade Packages, at each, 60 cts. Liberal reductions on larger orders as per Free Priced Circular List, at their place to Sales Agents.

DAN'L B. LONG, Jobbing Florist and Grower, Buffalo, N. Y.
When Writing Mention Florists' Exchange

H. H. BERGER & CO., (ESTABLISHED 1878.)

Importers and Exporters of Bulbs, Seed, Palma, Rare Strawberry from the United States, Japan, Australia and Europe, will hereafter transact all business for the EASTERN STATES from their offices in New York City.
Address all letters to 220 Broadway. (Rooms N and O, 13th floor), New York.
Business for the PACIFIC COAST will be heretofore received attention. Addressed H. H. BERGER & CO., San Francisco, Cal.

READY FOR JULY AND AUGUST.

FREESIAS (Large sizes are very scarce).
CALLA ETHIOPICA (Send orders NOW).
LITTLE GEM CALLAS (Improved variety). A REAL GEM.
LIL. LONGIFLORUM EXIMUM, the Best for Forcing. Produces more flowers than the common sort.
When Writing Mention Florists' Exchange

BURPEE'S SEEDS PHILADELPHIA WHOLESALE PRICELIST FOR FLORISTS AND MARKET GARDENERS When Writing Mention Florists' Exchange

HEADQUARTERS FOR Callas and Freesia Bulbs

PAMPAS PLUMES, Palm, California Tree and Flower Seeds.

Please let us book your orders for BULBS at once. . . . . ASK FOR SPECIAL PRICES.

GERMAIN FRUIT CO. Los Angeles, Cal.
When Writing Mention Florists' Exchange

SEEDS

KENTUCKY BLUE GRASS (POA PRATENSIS),
CHAS. E. PRUNTY,
MAIN AND MARKET, SAINT LOUIS.
When Writing Mention Florists' Exchange

ALLEN'S DEFIANCE MIGNONETTE

New Crop, Growing Outside and Looking Fine, will be Ready August 1st.
This stock is all grown from special selected spikes and is sure to prove good under proper treatment. \$1.00 per oz.; 50 cts. per packet.
Still a little of the original crop left which will germinate about 50 per cent., at \$1.00 per pkt.

CHARLES H. ALLEN, FLORAL PARK, N. Y.
When Writing Mention Florists' Exchange

PRICES ON

BULBS, ROOTS, and DECORATIVE PLANTS,
For Fall Delivery, Now Ready. Send for Catalogue.
F. W. O. SCHMITZ, JERSEY CITY, N. J.
When Writing Mention Florists' Exchange

PRIMULA SINENSIS SEED

The Wm. Scott strain (grown by Wm. Scott, Buffalo), includes:
Our "GREAT SCOTT MIXTURE," from assortment of 10 varieties.
Also 4 SEPARATE COLORS, Single White, Pink, Red and Double Red.

Sold only in sealed Trade Packages, at each, 60 cts. Liberal reductions on larger orders as per Free Priced Circular List, at their place to Sales Agents.

DAN'L B. LONG, Jobbing Florist and Grower, Buffalo, N. Y.
When Writing Mention Florists' Exchange

H. H. BERGER & CO., (ESTABLISHED 1878.)

Importers and Exporters of Bulbs, Seed, Palma, Rare Strawberry from the United States, Japan, Australia and Europe, will hereafter transact all business for the EASTERN STATES from their offices in New York City.
Address all letters to 220 Broadway. (Rooms N and O, 13th floor), New York.
Business for the PACIFIC COAST will be heretofore received attention. Addressed H. H. BERGER & CO., San Francisco, Cal.

READY FOR JULY AND AUGUST.

FREESIAS (Large sizes are very scarce).
CALLA ETHIOPICA (Send orders NOW).
LITTLE GEM CALLAS (Improved variety). A REAL GEM.
LIL. LONGIFLORUM EXIMUM, the Best for Forcing. Produces more flowers than the common sort.
When Writing Mention Florists' Exchange

ROEMER'S SUPERB PRIZE PANSIES.
The finest strain of Pansies in the World.
Introducer and Grower of all the leading Novelties.
Highest Award, International Exhibition, London 1883.
Gained first prize in collection.
FRED. ROEMER, Seed Grower,
Quedlinburg, Germany.
When Writing Mention Florists' Exchange

GLUCAS & BODDINGTON CO.,
Importers, Exporters and Growers' Agents of
Plants, Seeds and Bulbs,
501 and 603 W. 13th St.,
Telephone Call, 403 13th St., NEW YORK CITY.
When Writing Mention Florists' Exchange

VAUTIER'S MAMMOTH PANSY.

New crop seed now ready. This is the largest and finest Pansy ever offered. Mr. Vautier has been for 20 years a specialist in the raising of the best novelties from florists from all parts of the U. S. practice its use and merit. Trade Price \$1.00 per doz.
H. G. FAUST & CO., 61 & 63 N. Front St.
When Writing Mention Florists' Exchange

NEW CROP SEED NOW READY

ZIRNGIBEL'S STANDARD PANSIES

Silver Medal in Boston and First Prizes everywhere.

\*Bugs jewels of velvet and gold.\*-Boston Transcript.

GIANT MARKET and GIANT FANCY STRAINS, in trade pkts., at \$1 each.

Printed directions with every package.
DENYS ZIRNGIBEL, Neodham, Mass.
When Writing Mention Florists' Exchange

Fresh Seeds-Calla Bulbs.

Apple Geranium (true), 25 cts. pkt.; \$1.00 per 1000 seeds; \$7.50 per 10,000 seeds.
Musa Zanclus, 75 cts. per 100 seeds; \$6.00 per 1000 seeds.
Scarfaria Elegans, 40 cts. per 100 seeds; \$3.00 per 1000 seeds.
Cyperus Alterniflorus, 25 cts. per pkt. \$1.00 per 1000.
P. Tenax Variegata, 50 cts. per 100 seeds; \$2.00 per 1000 seeds.
Asiophylla Australis (True Fern), 50 cts. per 1000.
Send for prices on Calla Lilies, August and September delivery. See for Trade List of Novelties and Specialties for Autumn delivery.
MRS. THEODOSIA B. SHEPHERD
Ventura-by-the-Sea, Cal.
When Writing Mention Florists' Exchange

SEED THE JENNINGS' STRAIN

SEED THE JENNINGS' STRAIN
of finest American grown Pansy seed; new crop now ready, saved from the very finest selected plants all large blooming, in great variety and most splendid colors; without doubt the finest strain in the market to-day. The following complimentary letter is one of many received every day:
BUFFALO, N. Y., June 28, '97.
Mr. B. Jennings' Pansy Seed supplied by you last August produced the most lot I have ever seen. They were uniformly first-class. Send me one of your best mixed as soon as you are ready. Respectfully yours,
WILLIAM SCOTT.
Try a packet of Jennings' Pansy mixed strain and you will not be disappointed. Finest mixed, per pkt. of 500 seed, \$1.00; \$6.00 per doz. of 3000. White, yellow, black and blue, in separate colors, \$1.00 per pkt.; 90c. per 1/2 pkt. postpaid by mail. Price to Seedmen on application. Cash with order.
E. B. JENNINGS, Lock Box Southport, Conn.
GROWER OF THE FINEST PANSIES.
When Writing Mention Florists' Exchange

INTERNATIONAL HORTICULTURAL EXHIBITION, AT HAMBURG, 1897, FROM MAY TILL OCTOBER.



When Writing Mention Florists' Exchange

## SEED IMPROVEMENT.

Points and information from seedmen, and all articles of this kind, are invited. Address: Editor SEED TRADE, care of Florists' Exchange, P. O. Box 1897, New York.

**New York.**—Louis Gieppinger, representing Polignaux & Co., has succeeded to Andre, Leroy & Co., arrived in the city this week, on his annual trip to the States.

**San Francisco.**—The Sunset Seed & Planting Co. will move business to the four-story warehouse, 33 Market Street, near the Overland Ferry Depot. As it is said, will give the finest seed warehouse west of the Rockies.

### European Notes.

**A Weed Plague.**  
One of the most striking features of the present season is the singular uniformity in the weather which has prevailed in all the seed-growing districts of Europe. A very damp autumn and mild winter have been followed by a cold and dry May. This succeeded a great heat, followed by heavy thunderstorms, which moistened the soil, rendering it very fertile. As far as possible, but not thoroughly moistening the soil.

The heat and rain combined have brought forth an abundant crop of weeds, which in many cases fairly smother the young plants, and it is doubtful if the seed grounds of Northern Europe have presented such an unpropitious appearance during the past ten years. Everybody is working at full strength and high pressure, but in spite of this the weeds still hold the field.

### Biscual Crop.

To the superficial observer the appearance of the biscual crop has been vastly improved by the recent rains. So far as this relates to beet, many of the earlier radishes and the spinach there is reason to hope that the improvement will be of a permanent character. In the case of the drought does not set in. Carrot is in many places badly attacked by the blight, but in many others it has been fully one-half of the plants have been killed. But it is when we examine the nature of the improved appearance becomes apparent.

**A Destructive Pest.**  
That destructive pest known as the black flea always accompanies a continuous spell of northeast wind and feeds upon the ovary of the flower. Where the work of fertilization has already taken place it deposits its eggs in the dry pod, and as soon as the eggs get to work a numerous brood of tiny worms is hatched out. These feed upon the seeds, and in the process they cause the pods to blister and drop. Only the very early pieces of turnip escape the ravages of this pest, as they are simply smothered with it. The last-named article may possibly yet produce a crop, but it is not so late for the numerous side shoots, which are now springing out to produce a moderate crop of medium-sized seed, but until the seed is thoroughly formed the crop is entirely at the mercy of the black flea.

**Flower Seeds.**  
In flower seeds nasturtium look much more promising, but growers do not to be content by them, however good the crop may be. The expense is too heavy.

**The Seed Crop.**  
Sweet peas are also improving daily and if the gloomy anticipations of the past are not entirely justified by results our growers may be disposed to take up their culture once more. This year the crop is more than expected and fully justified our expectations, although the color is different to what we have become accustomed to. The Blanché variety with the Cupid habit reproduced in every particular, and unfortunately has been so much retarded in its starting mature in store for us it will probably be the novelty for next season. The subject of novelties it is yet too early to speak.

EUROPEAN SEEDS.

**The Vitality of Seed Treated with Carbon Bisulphide.**—Circular No. 11 of the Division of Botany, Department of Agriculture, deals with some experiments that have been made for the purpose of testing the vitality of seed treated with carbon bisulphide, looking to the use of this material for the extermination of weevils and other insects that infest grain.

The common remedy advised by entomologists for destroying seed-infesting insects is to treat the seed for twenty-four hours with the fumes of carbon bisulphide at the rate of one pound to the hundred. This chemical when pure is a colorless liquid with a pleasant odor. Upon exposure to the air the carbon and sulphur composing the liquid are separated, each uniting with oxygen, for which they have a very strong affinity for each other. Thus are formed carbon oxide and sulphur dioxide, the latter being a very poisonous gas with a disagreeable odor. The statement is made that seed grain may be exposed to these fumes for thirty-six hours without injuring its germinating capacity.

The length of time seeds must be treated with carbon bisulphide depends not only upon the resistant power of the insect, but also upon its method of attack. In the case of the pea weevil the larva is embedded within the immature seed, becoming more and more firmly attached to it during its development, hence a treatment prolonged over twenty-four hours may be necessary to destroy the weevils.

Seedmen treat peas and other large-seed scale by placing the bags containing the seeds in a fire-proof, practically airtight building, and after being thus subjected to the fumes for about twenty-four, sometimes as long as forty-eight hours, the room is opened and thoroughly aired.

Some writers have advocated pouring the liquid through a pipe inserted into the bottom of the seed, while others suggest the use of a ball of cotton, soaked with the chemical and placed in the middle of the pile of seeds. Both of these methods are open to objection owing to the fact that the cotton is opened and thoroughly dried. Some writers have advocated pouring the liquid through a pipe inserted into the top of the pile of seeds, while others suggest the use of a ball of cotton, soaked with the chemical and placed in the middle of the pile of seeds. Both of these methods are open to objection owing to the fact that the cotton is opened and thoroughly dried.

The department's experiments were made in thirty-three different varieties of grains and vegetables, five of cotton, two of peas, three of Indian corn, two of buckwheat, two of kidney beans, two of Kaffir corn, two of barley, two of wheat, one of oats, etc. The results of the experiments were taken, being, so far as possible, from a single stock in each case. Two hundred seeds of each variety were used, 200 seeds of the larger species and 100 of the smaller kinds, were used. Similar quantities of untreated seeds were employed as checks.

In the first series of experiments the seeds were placed in glass vessels, resting on a plate of ground glass covered with a bell jar containing a saturated atmosphere of carbon bisulphide. At the end of forty-eight hours the seeds were transferred to the germinating trays, and the results were placed also the check lots of untreated seed.

The following seeds were uninjured by this severe test, the germinating percentages of both treated and untreated atmospheres of carbon bisulphide. Peas, cotton, beans, Kaffir corn, buckwheat, turnip, cabbage, cauliflower, and radish. It is concluded that, therefore, to conclude that none of the ordinary methods of treating these seeds with carbon bisulphide will impair their vitality.

On the other hand, the germinative power was impaired in the case of wheat, corn, crimson clover, millet and rice, the difference between the treated and untreated being from 85 per cent. in the case of rye to 9 per cent. in the chalky rice. With the exception of the wheat, the loss of vitality was more tender than that of other clovers, all of the injured kinds belong to the

# SEEDS

## SEED SEED

NEW CROP NOW READY.

### ROEMER'S SUPERB PRIZE PANSIES.

This strain includes all the leading novelties, **Odiar, Cassar, Bugnot and Parisian** mixture; the qualities of these varieties are so well-known as to render a description unnecessary. Mixed, per packet of 2500 seed, \$1.00; \$6.00 per oz.; \$3.00 per ½ oz.; \$1.75 per ¼ oz. White, yellow and black in separate colors, \$1.00 per packet. Plants ready September 15th.

CASH WITH ORDER.

## PETER BROWN, LANCASTER, PA.

When Writing Mention Florists' Exchange

grass family, oats alone of this group showing no injury. This resistant character of the oats is easily explained from the nature of its covering. This method was an extreme one and represents conditions which would probably never be attained in any practice. Here each seed, being exposed to a thoroughly saturated atmosphere of the chemical, had ample opportunity to imbibe as much of the vapor as it was capable of retaining. It is reasonable to suppose that seeds whose vitality was not affected by a forty-eight-hour test of this kind would be in no danger of deterioration in this respect from any treatment given them in ordinary practice.

The varieties which were damaged by the forty-eight hours' treatment were then subjected to another test of twenty-four hours' duration. Some of the varieties suffered no deterioration whatever in vitality with the twenty-four-hours' treatment, while there was a marked decrease in the amount of injury in all of them.

Ery proved the most susceptible to injury, with a difference of 41 per cent. between treated and untreated seed. Millet showed 17.5 per cent., barley 5 per cent. and crimson clover 6.5 per cent. difference. All differences in germinating tests amounting to 10 per cent. or less may be attributed to variation in the quality of each lot of seed used.

In order to ascertain whether similar injury to the seeds named in the foregoing table would result from treatment in bulk, one bushel each of wheat, rye, barley and field corn were subjected to a second series of experiments. The bulk of each kind of grain was placed in an airtight bin for twenty-four hours. Upon the surface of the grain were shallow glass vessels containing carbon bisulphide in the proportion of one pound to one hundred bushels, and as recommended by the Division of Entomology of this department. At the close of the twenty-four hours lots of each variety of seed, both treated and untreated, were germinated in duplicate.

**GANNAS** Austria, Italia, John White, in four inch pots, 25 per three for 10 cent. by express. Price list of seed free. H. BEAULIE, Belmont Ave., Woburn, N. Y. When Writing Mention Florists' Exchange

**PANSY SEED**  
Mixed together Bugnot, Cassar, Odiar, Triumphant, and many other varieties 1/2 oz. \$2.00; 1 oz. \$3.00. SWISS ALPINE, mixed, 3 in. pots, per 100, \$1.00 ALBERNANTHIA, yellow, \$1.00 GERANIUMS, mixed, 3 in. pots, \$1.75 FRIMROSES, 2 inch pots, \$2.00

**JOS. R. CUNNINGHAM, DELAWARE, OHIO.** When Writing Mention Florists' Exchange

## BUY FROM THE GROWERS DIRECT

### ALL BULBS AND PLANTS

For Summer and Fall Delivery, Quoted at Very Low Rates.

FREE ON BOARD CARS OR BOATS NEW YORK CITY.

**HULSEBOSCH BROS., Englewood, N. J.** When Writing Mention Florists' Exchange

As a result of these experiments the following conclusions are arrived at:

No appreciable difference in the vitality occurred in corn, barley or flax. Results from treating the seed in bulk with carbon bisulphide for twenty-four hours, and in the other cases, of a chemical to one hundred bushels of the grain.

In general, seeds of cotton, peas, beans, buckwheat, oats, the cabbage family and cow-peas will endure the forty-eight hours' treatment. The fumes of carbon bisulphide without their germination being injured to any appreciable extent. In the other cases, of corn, wheat, rye and other crops belonging to the grass family (except Kaffir corn and oats) should be treated with caution, as serious deterioration in vitality is likely to result from excessive exposure to the gas.



The Florist Millionaire.

Air: "The Man That Broke the Bank at Monte Carlo." When Thomas was a little kid away back...

CHORUS.

And ye wonder if he'd like to be a little boy again: To work around the potting shed...

He chose to be a florist, now he couldn't do it, he done much worse. For while it's awfully artistic, there is little for the purse...

They had no "setting snags" to make, no "clocks" nor "gates ajar." No "flowers" to build, nor the awful "railroad car."

Now here's a health, our trusty friend, May you live to be hundred, may we live as long as you.

The following poem was composed for the occasion by William K. Harris and read by TOM AND BILL.

More than fifty years ago, Tom, you be honest man. Your ambition was high, in your humble sphere.

Fifty years ago, Bill, my dealings were fair. I had what I required and nothing to spare. But the wisdom of sage was in early youth.

Fifty years ago, TOM, youth was our dearest friend; While I tried to get on humble sports he did me good and kind.

This life, Bill, is but a shadow at its best. When compared with our future eternal rest. Then spend your life in actions fair to the best of your power.

Life is here like the autumn gem, Sparkling a little while, then no longer is seen. Or like the April snowflake in beauty that melts away.

Several letters were read from prominent persons regretting their inability to be present at the banquet. Among them were James Dean and Joel Cooke.

long time and can guarantee him, single or double. He will work anywhere and we are sure to have him in years.

All the speeches were followed by songs, piano and vocal solos. In every way the night was an enjoyable one...

CORRESPONDENCE.

A General Invitation.

I hereby invite any and all seedsmen, florists and specialists in sweet peas to my garden July 15 to view my stock.

Pacific Express, leaving New York at 11:30 P. M. and Philadelphia at 11:30 P. M. on July 15th, returning to Altoona for breakfast, where you change, reaching here at 10 A. M.

NOTICES TO OUR BUSINESS.

DANBURY, CONN.—George F. Judd has discontinued his business.

WEST GROVE, PA.—Alfred F. Conrad, S. Morris Jones, and Antoine Wintzer, all of West Grove, Pa., have formed a partnership and obtained a charter under the name of Alfred F. Conrad & Joseph Company.

St. Paul.

The summer display in trade has been in and sales are slow. Good stock is scarce—especially in white and yellow.

The News.

Carlson & Lauritsen have purchased the Granddada Greenhouses, thus being the largest and the most complete in the East.

Hot-Bed Cassin Patent. Tansons white-labeled. Corners set with iron dovetails. Every detail of construction perfect.

Quick Shipments. We have in stock and can ship immediately: 3 ft. x 6 ft., 3 rows 10 in. glass.

LOCKLAND LUMBER CO., Lockland, Ohio. When Writing Mention Florists' Exchange

WILL EXCHANGE. 300 1 inch Bride'smaid Roses for Strong Smilax Plants. WAVERLY GREENHOUSES, - TUCKAHOE, N. Y.

COLEUS. 400 each two foot bot. or 4 doz. 100 plants. Mrs. M. GAVARRETT, Union Camera, New York.

HYDRANGEA OTAKSA. 2 1/2 inch pots, \$1.00 per 100. Cash with order. SAMUEL J. BUNTING, Elmwood Ave. & 6th St. Phila.

BRIDE AND BRIDESMAID. 2 1/2 in. pots, no Midway, \$30 per 100. Strong plants. Sell at sight. THE FLORAL EXCHANGE, Street, Philadelphia.

BOUVARDEA. White, Pink and Red, single flowering, 2 1/2 inch pots, \$3.00 per 100. VIOLETS. Lady Holmes Campbell, 2 1/2 inch pots, \$2.00 per 100.

ALLAMANDA GRANDIFLORA. From 4 inch pots, \$2.00 per doz. ASTER Plants.—Cheest color, Sem-double, single flowering.

ROSES. 2000 Golden Gate, 2 1/2 inch pots, \$1.00. 300 Beauty, 4 inch pots, \$1.00. 100 La France, 4 inch pots, \$1.00.

SMILAX PLANTS. 3 in. stock, healthy, \$1.75 to \$1.00. 2 in. stock, \$1.25 to \$1.00. 1 1/2 in. stock, \$1.00 to \$1.00.

CELEBY. Transplanted, ready to plant. Early London, \$2.00 a 100. GATTLER and large blooms, \$1.50 a 100.

SMILAX PLANTS. 3 in. stock, healthy, \$1.75 to \$1.00. 2 in. stock, \$1.25 to \$1.00. 1 1/2 in. stock, \$1.00 to \$1.00.

SMILAX PLANTS. 3 in. stock, healthy, \$1.75 to \$1.00. 2 in. stock, \$1.25 to \$1.00. 1 1/2 in. stock, \$1.00 to \$1.00.

R KILBURN, - Clinton, N. Y. When Writing Mention Florists' Exchange

SMILAX. Strong plants, from pot, \$2.00 per 100. \$1.00 per 100. Cash with order. SAMUEL J. BUNTING, Elmwood Ave. & 6th St. Phila.

FERNS!! FERNS!! Hands' Cut Ferns. A new crop of Ferns, 1907, first quality, at low prices.

CHEAP TO CLOSE OUT. Grand Duke Jasmine, in bud and in bloom, \$3.00 per 100.

COTTAGE ROSE GARDEN, Columbus, O. When Writing Mention Florists' Exchange

Cybas Leaves and Wire Frames, BASKETS AND SUPPLIES, FLORISTS' SEEDS AND BULBS.

AUGUST ROLKER & SONS, NEW YORK. 126 and 138 W. 24th St. N. P. Slaten E.

ROSES. Carefully Grown Forcing Stock, 2 1/2 in. strong. The Bride, M. de Chasteneux, \$3.00 per 100; \$25.00 per 100.

2c. GERANIUMS 2c. Nice well colored plants, from 2 1/2 in. pots, \$1.00 per 100.

2c. CARNATIONS. This new Hybrid Carnation is the most perfect pink picture from 2 1/2 in. pots that will make good plants for next season, \$1.00 per 100.

2c. FLOWERING BEGONIAS, good assortment. 2 50. CARNATIONS, well established potted plants in the following: Fred Brown, McDowar, Mrs. Harrison, Elizabeth Reid, Portland, \$1.25 per 100.

2c. FLOWERING BEGONIAS, good assortment. 2 50. CARNATIONS, well established potted plants in the following: Fred Brown, McDowar, Mrs. Harrison, Elizabeth Reid, Portland, \$1.25 per 100.

2c. FLOWERING BEGONIAS, good assortment. 2 50. CARNATIONS, well established potted plants in the following: Fred Brown, McDowar, Mrs. Harrison, Elizabeth Reid, Portland, \$1.25 per 100.

2c. FLOWERING BEGONIAS, good assortment. 2 50. CARNATIONS, well established potted plants in the following: Fred Brown, McDowar, Mrs. Harrison, Elizabeth Reid, Portland, \$1.25 per 100.

2c. FLOWERING BEGONIAS, good assortment. 2 50. CARNATIONS, well established potted plants in the following: Fred Brown, McDowar, Mrs. Harrison, Elizabeth Reid, Portland, \$1.25 per 100.

2c. FLOWERING BEGONIAS, good assortment. 2 50. CARNATIONS, well established potted plants in the following: Fred Brown, McDowar, Mrs. Harrison, Elizabeth Reid, Portland, \$1.25 per 100.

When Writing Mention Florists' Exchange

Carnation Cuttings

Strong and well rooted, of the following varieties: Jubilee, Triumph, Armadillo, Alsar, Fridenslund, Dean Hole, Goldfish, Lida McGowan, Mme. Albertini, Mraz, Peachflov, Rose Queen, Silver Spray, Wm. Scott, Uncle John.

PRIMULAS, 24 inch, \$2.00 per 100. Send for list and prices on large lots. Logan Ave. Greenhouses, Danville, Ill. When Writing Mention Florists' Exchange

CARNATIONS

F. DORNER & SONS CO., La Fayette, Ind. When Writing Mention Florists' Exchange

CARNATIONS

Of new and standard varieties, ready September and later. If you have never tried our Carnations do so this year. Our catalogue is unsurpassed for their successful growth in the field.

GEO. HANCOCK & SON, Grand Haven, Mich. When Writing Mention Florists' Exchange

Harrison's White CARNATION.

New Carnation, sport from Wm. Scott. JOHN HARRISON, 739 Bergen Ave., Jersey City, N. J. When Writing Mention Florists' Exchange

CARNATIONS Rooted Cuttings of the following varieties: Rose Queen, Mrs. Wm. Scott, Rose Queen, Thos. Cartridge, \$1.25 per 100; \$1.00 per 100.

ROSETTES Fine runners of Lady Campbell, Mrs. Wm. Scott, Rose Queen, violet cuttings. \$1.25 per 100; \$1.00 per 100.

JOSEPH RENARD, Unionville, N. C. When Writing Mention Florists' Exchange

EDW. J. TAYLOR, Wholesale

Carnation Grower, SOUTHPORT, CONN. When Writing Mention Florists' Exchange

MIRAZ

The New Scarlet. From soil.

HOPP & LEMKE, Esni Grand Rapids, Mich. When Writing Mention Florists' Exchange

A MISTAKE, to delay your orders for MINNIE COOK.

MEADOW VIEW GREENHOUSES, PARSIPPANY, N. Y. When Writing Mention Florists' Exchange

GRALLERT & CO.

CARNATION GROWERS

COLMA, SAN MATEO CO., CAL. When Writing Mention Florists' Exchange

Thanks to the Exchange HERB NEEMER, Grosvenor, N. Y., Feb. 5, 1897.

CHRYSANTHEMUMS

A few extra valuable commercial ones, of which we offer a large healthy plants from 2 and 2 1/2 pots.

Adelstein-A rare intense yellow, which we found nowhere for single stem up to middle of July plant for \$1.00 per 100. Liberty-Size late yellow, dwarf, plant now \$4.00 per 100. Geographic Flicker-A splendid yellow flower, large flowers, covered flowers, from 2 and 2 1/2 pots. Mrs. W. Williams-A leader among late yellow flowers, fine flowers, \$4.00 per 100. Helen Wilson-A leader among late yellow flowers, fine flowers, \$3.00 per 100. Mrs. Felix Prager-An elegant medium sized plant, flowers from 2 and 2 1/2 pots. At all plants, whether one or one dozen flowers in pot, \$1.00 per 100. Mrs. E. Beckler-A late very bright yellow, single flowers from, strong stem grower, \$3.00 per 100. Kate Wittke-A light pink variety that proved satisfactory in all climates; \$3.00 per 100. Also leading other varieties in strong healthy plants.

THEO. F. BECKER, 9 miles below Pittsburg, Pa. GLENFIELD, PA. When Writing Mention Florists' Exchange

CHRYSANTHEMUMS

Twenty-five best varieties for cut flowers; Pink, White and Yellow; at \$2.00 per 100; \$1.50 per 100; my selection, from pots.

R.H. MURPHEY, Urbana, Ohio. When Writing Mention Florists' Exchange

CARNATIONS ALL SOLD. SEND FOR LIST OF CHRYSANTHEMUMS

If not already received.

H. WEBER & SONS, P. O. Box 67, OAKLAND, Md. When Writing Mention Florists' Exchange

CHRYSANTHEMUMS

Rooted Cuttings all sold out but the following from Specialty Green Stock.

Glory of the Pacific, Marion Henderson, \$2.00 per 100. Mrs. H. Robinson, Mrs. Jerome Jones, Miss M. Wamaker, 170ry, \$1.50 per 100.

JOHN LANG, Chicago, Ills. Corner Melrose and Robey St. When Writing Mention Florists' Exchange

CHRYSANTHEMUMS!

24 in. pots, \$3.00 per 100.

Widener, Whittall, Mrs. H. H. Battles, Jove, White, Whore, Major Bonfom, Mandl, Mrs. J. Jones, The Queen, Mrs. J. Jones, Merry Monarch, Field, Castlewood, The Queen, Nomsia, Myra, Annie, Mrs. Robinson, Minnie Wamamaker, E. E. Lager, Mrs. Minn Friend, Pink Ivory, Lincoln.

Rooted Cuttings of the above varieties, \$2.00 per 100. EVENEDS BROS., Williamsport, Pa. When Writing Mention Florists' Exchange

CHRYSANTHEMUMS

FOR BENCHING.

Glory of Pacific, Lady Fitzgram, An-tuan Bride, Wm. Simpson, \$1.00 per 100. Marion Henderson, Marguie de Montmorency, Yellow Queen, Geo. W. Childs, Mme. Felix Prager, Missa Friend, Pink Ivory, Lady Playford, Mrs. Wm. Bruns-bill, E. Dailledore, Helga Bloodgood, Mrs. Wm. Brunsbill, \$1.00 per 100. Deduct 50c. per 100 on orders of 250 plants or over.

A COMPLETE LINE OF NOVELTIES FOR 97 Anemones, Pompan Anemones, Pompoms, and Warty Varieties.

Send list and prices for lowest cash price. NATHAN SMITH & SON, Adrian, Mich. When Writing Mention Florists' Exchange

CARNATION ROOTED CUTTINGS ALL SOLD. CHRYSANTHEMUMS

From 2 in. pots, strong plants, \$2.50 per 100; \$2.00 per 100. Mrs. Perrin, Wm. Simpson, Pink Ivory, Bergmann, Dailledore, Maud Dean, F. P. Full-mer, Marguie de Montmorency, Marion Henderson, Mrs. Henry Robinson, Mrs. Monarch, Wamamaker, Mrs. S. T. Murdoch, V. Morel, J. E. Lager, Lincoln, Mrs. Minn Friend, Mrs. Wm. Brunsbill, Mrs. F. Fisher, Marie Louise, Esch, The Queen, Pres. W. R. Smith, Miss M. J. Johnson, Whittall, Erminda, Elsie Pruss, Yellow Queen, and others.

W. H. WAT & CO., 62d St., near Elmwood Ave., PHILADELPHIA, Pa. When Writing Mention Florists' Exchange

ROSES.

Ventilation.

When we have finished planting it is then that rose growing commences in real earnest. To be on time and watch the proper requirements of our plants constantly will not only repay us now, but likewise in the future.

When visiting florists who have had rather poor success in growing roses, I am under the impression one of the chief causes of their trouble is improper ventilation. I believe that I am right in saying that ventilation is as thoroughly understood as it should be by many and that more err on the side of not giving enough than too much. It should be borne in mind that because a rose grown under glass needs the most careful and painstaking treatment, still that should not be construed into meaning coddling. Knowledge, experience and courage are three things that we must possess in order to succeed. In visiting different establishments I notice quite a number of growers close up their houses at quitting time, no matter what the state of the weather is, while others, if it warms up, will open their houses at quitting time, will either close ventilators up tight or have such a small particle of the window open that the wind never comes too humid. I have asked quite a number why they don't use more air, and they have said they are afraid to. What there is to be feared from the warm, summer air is a condensation of moisture.

It may be well for me to mention here that it is very possible (in fact, I think it is done) to have a very pretty-looking house of roses during summer by keeping the plants rather cool and shady, likewise by using a mulching of manure; but they most generally cut a very sorry figure when the sun begins to lose its power in the fall. The leaves fall and the plants become so sickly that they are an easy prey to rust, blight, etc., consequently what few flowers are cut are very inferior in size, texture and color. If we do not have them brought up with an iron-clad (if I may term it) constitution as soon as more artificial means are used, they will fall in the fall, instead of going backward, quickly respond to these means, and an improvement in nature will be the result. Every successful grower fully realizes the vast importance at this time of the year of closing up his plants and trying to tie them over the bad days of early winter.

I am a great advocate of lots of fresh air and a circulation through the plants at all times. As stated before, there are still some who do not seem to grasp the importance of doing warm summer time I keep all the air on possible, night and day, reducing only when permitted by the thermometer, and according to the severity of these; also in sudden cooler changes in the atmosphere. I do not know of any other plant that is more susceptible to sudden changes of temperature, or, in fact, of any other plant that requires so much the necessity of constant attention. Sometimes happens a storm comes up in the night during our worst weather, then the sooner we close up for the time being the better. As such air will blow directly on the plants is dangerous, I don't like it, if the current is direct, I like it. I have recently washed the bushes to and fro. Nothing would you suppose there plants have been kept clean and properly shaded, to give them the treatment I advocate right away; but, gradually, I am accustomed to give them a little

more air each day and partly removing the shading, until in about three weeks' time clear glass is reached. It is a mistake for us to go by date or season as regards heating, ventilating and watering. To go by outside conditions day by day, as they are, is proper; at least, I have always found it so.

This season has been a very remarkable one in this section—almost continual northwest winds, accompanied by cold nights, the thermometer often going down as low as 45 degrees. This has not only necessitated reducing our heat to about two-thirds, but string also has had to be done.

It is no uncommon thing to hear some say that they are afraid to open their houses, it is too expensive to give a little gentle heat to roses during summer when the ground is so warm. I believe that the great benefit derived therefrom, my conclusion is that people with no larger reasonings than this may get a very poor showing as rose-growers.

Surely, this season has taught many a lesson about mildew. H. H.

CHRYSANTHEMUMS

Preparing for Tying.

Before the plants on the benches begin to grow much it is a good plan to tie the stems up in such a manner as to make the plants. I run my wire lengthwise, about four to six inches above the ground, and tie the stems up in four pieces. For these I use two uprights, well braced, about five feet in height, between the uprights I run a wire four inches above the ground and one piece about three and one-half feet from the ground, two by three inches will answer for a seventy-five-foot house; but where the houses are longer the pieces can be two four foot inches, to make them stiff enough to stretch the wire in straight. After these are put in place, the stems are stretched in place. The upper wires can be left out yet, to be put in whenever the stems are high enough to be stretched. I will be a little later. Of course, this framework is only put in place for center benches. The side benches do not need two wires to hold the upright stakes.

I use a 16-gauge wire, No. 14 galvan-ized, it has only to hold the upright stakes in place. The upper wires can be left out yet, to be put in whenever the stems are high enough to be stretched. I will be a little later. Of course, this framework is only put in place for center benches. The side benches do not need two wires to hold the upright stakes.

I see that our old pest, the black aphid, is showing itself and ought to be combated at once. I put a liberal quantity of strong warm water on the benches and sprinkle them every few days. That will cause the fumes to permeate the atmosphere of the house and be quite sufficient to make that pest leave in short order.

It is a good plan to tie the stems up through the benches, to be stretched down on the walk, but that is not always best. In a retail place customers go through the benches, and besides the dirt during the season is left with the stems in the walks, and for cleanliness' sake it is better to tie the stems up.

If the plants on the benches begin to show that they have well taken hold, and are strong enough to be stretched, you can break the tops out, so that you get two or three leaders. When growing roses in houses, it is better to advise this, but to grow to a single stem and flower, which will give the best results. However, it is better to be used for cut flowers, the growing of two to three flowers to a plant will be more serviceable. THEO. F. BECKER

Washington.

A Government Comptroller. The florists of this city have met with considerable competition from the Industrial Home School greenhouses on Tennyson road, the managers of which rent a stall in the market for the sale of flowers. The latest report of the Comptroller is that the greenhouse venture is a losing one. The receipts for a year are given as \$1,159.26 and the total expenditures \$1,161.26, without taking into account heating, repairs to houses, etc. A local paper figures up what all things considered, the institution is "a flat expense to the Government of \$1,000," and comments on the competition in the following manner: "The regular florists as a rule are tax-payers, law-abiding citizens, and business men of integrity, but they are unable to enter into open competition with the Government, which takes their tax money to build greenhouses and pay the expenses of florists and growers, who stand on the public money and cry the wares at any figure, an anxious public is willing to pay."

"If it is found necessary to raise flowers at the Industrial Home School or other reformatory institutions, let them be raised for free distribution among the hospitals and other charitable institutions which now tax the regular dealers by frequent requests that cannot consistently be denied them."

"In a recent interview Mr. N. Studer said he was not opposed to instructing the boys in horticulture, but was opposed to their open competition with regular dealers, who frequently find it difficult to make both ends meet with our ruinous competition from men or boys supported at government expense."

ROSES FOR FORCING.

Clean, Healthy Stock, from 2 1/2 and 3 inch pots.

Table listing various rose varieties and their prices per 100. Includes: Perle des Jardins, Madame C. Testout, Augusta Victoria, Madame Hoste, American Beauty, The Bride, Bridesmaid, and Sunset.

ORDER NOW.

ROBERT SCOTT & SON, 19th & Catharine Sts., Philadelphia, Pa.

When Writing Mention Florists' Exchange

40,000 FIRST QUALITY FORCING ROSES

Ready for immediate planting. Fully equal to those sent out the last four years, first-class and perfectly healthy in every respect. Only selected growth from flowering shoots used in propagating. Includes varieties like American Beauty, Belle Siebeck, Meteor, Kaiserin A. V., etc.

PHILADELPHIA ROSES

Strictly first-class, clean stock, in 3 inch pots.

Beauty, Meteor, Bride, Bridesmaid...

MYERS & SAMTAN, Wyndmoor, Chestnut Hill, Phila., Pa.

When Writing Mention Florists' Exchange

50,000 BRIDE AND BRIDESMAID! 50,000 Extra Fine.

From 2 1/2 inch pots... From 3 1/2 inch pots... From 4 1/2 inch pots... Limited amount of Goutier and Niphetos, 2 1/2 in. pots, at \$3.00 per 100.

THE NATIONAL PLANT CO., Dayton, Ohio.

When Writing Mention Florists' Exchange

ROSES.

Strong 2 1/2 inch plants to splendid shape. Yellow Rambler Agata, \$1.00 per doz; \$8.00 per 100. Climbing Wootton, 75 cts per doz; \$5.00 per 100.

JOHN A. DOYLE, Springfield, Ohio.

When Writing Mention Florists' Exchange

Bride, Bridesmaid, Mermet, Goutier, Perle, Wootton, etc., in 4 inch pots, all first-class.

\$3.00 per 100; \$45.00 per 500; \$80.00 per 1000.

GEORGE L. PARKER, 807 Washington Street, Dorchester, Mass.

When Writing Mention Florists' Exchange

FOR SALE, 300 BRIDESMAID ROSES

On Manett Roots, one year old, clean and handsome. Just right to plant in solid bed.

F. E. PALMER, Brookline, Mass.

When Writing Mention Florists' Exchange

ROSES, GERANIUMS, COLEUS. All plants offered for sale and in stock. Includes: Geraniums, 2 1/2 inch pots, \$1.00 per 100; Coleus, 2 1/2 inch pots, \$1.00 per 100.

GEORGE E. EMMANS, Newton, N. J.

When Writing Mention Florists' Exchange

BRIDE AND BRIDESMAID, \$3.00 Per 100.

Cash with order, or will trade for PHILADELPHIA, GOUTIER, etc., etc.

DAVID CLIFFE, Wm. & Johnson Childs, PA.

When Writing Mention Florists' Exchange

ROSES.

Nice healthy plants, Bride and Bridesmaid, from 2 1/2 inch pots, \$2.75 per 100; \$30.00 per 1000. 3 1/2 inch pots, \$4.00 per 100; \$50.00 per 1000.

DE VOEGT & DE WILDE, Wilmington, Del.

When Writing Mention Florists' Exchange

FOR SALE, SURPLUS STOCK OF ROSES, Bride, Bridesmaid, PANSY SEED. No better in the market, packets, 95c to \$1.00 per 100.

328 Central Avenue, JERSEY CITY HEIGHTS, N. J.

When Writing Mention Florists' Exchange

LOOK HERE

The following plants are all in condition. ROSEN, out of 2 1/2 inch pots, Bridesmaid and Bride, \$2.50 per 100; \$20.00 per 1000. Meteor, \$4.00 per 100; \$40.00 per 1000.

C. MERKEL & SON, Mentor, Ohio.

JACKSON & PERKINS CO NEWARK, N. J.

Will have to offer for season of 1897-98, a choice assortment of Field Crown Roses, new and old varieties, Clematis, thronentali Shrubs, and Trees, Fruit Trees and Small Fruit Plants.

Price List ready in July. Write for it.

When Writing Mention Florists' Exchange

SURPLUS STOCK.

In fine condition, free from mildew. Includes: Perle, 4 in., \$5.00 per 100; Belle Siebeck, 3 in., \$6.00 per 100; Meteor, 3 in., \$4.00 per 100; etc.

GEORGE E. FANGOUR, Wilkes-Barre, Pa.

When Writing Mention Florists' Exchange

Sterling American Novelty, the

WHITE COCHET

In a sport from Mamma Cochet, which is considered now the best pink out-of-door rose. It has all the good qualities of the parent, in its color, pure white in winter, outside petals slightly tinged in summer, and it is the only one to give the best white out-of-door rose up to date.

Price, per dozen, from 3 inch to 4 1/2 inch pots, \$2.00 to \$3.00.

All Orders Must be Accompanied with Cash. J. COOK 318 CHARLES STREET, Baltimore, Md.

When Writing Mention Florists' Exchange

SURPLUS ROSES 50,000 ROSES

Table listing various surplus rose varieties and their prices per 100. Includes: Cath. Mermet, Bridesmaid, Perle des Jardins, etc.

MOSS ROSES.

Mousseline, Heerl Martin, James Veitch, Capt. Bassett, Blanche Double Lamell, etc.

MILLENY ROSES. Marie, Col. Brunner, George Permet, etc.

NANZ & NEUNER LOUISVILLE, KY.

When Writing Mention Florists' Exchange

ROSES

American Beauty, 3 inch pots, \$1.00 per 100. Bridesmaid, 3 inch pots, \$1.00 per 100. etc.

SMILAX

Strong, from 2 1/2 inch pots, \$2.50 per 100; \$30.00 per 1000.

VIOLETS.

Marie Louise, Lady Campbell, strong, healthy stock, from 2 1/2 inch pots, \$5.00 per 100; \$50.00 per 1000.

CHRYSANTHEMUMS.

For Varieties and Prices, see April 21st issue.

STRONG POTTS. IN CANNAS PLANTS.

Table listing various cannas plants and their prices per dozen. Includes: Pileosa's Premier, etc.

MISCELLANEOUS PLANTS.

Table listing various miscellaneous plants and their prices per 100. Includes: Alternanthera, Ageratium, etc.

New Trade List on Application. WOOD BROS., Fishkill, N. Y.

When Writing Mention Florists' Exchange

Pine Healthy Stock of Brides, 'Maids, . . .

Perles, Meteors, etc.

From 2 1/2 inch pots, ready for shifting, \$4.00 per hundred.

JOHN HENDERSON CO. Flushing, N. Y.

When Writing Mention Florists' Exchange

ROSES GOOD STOCK.

Brides, Bridesmaid, Perles, from 2 and 2 1/2 inch pots, \$3.00 to \$10.00. Also ADANIS V. CUNEATUS, from 2 1/2 inch pots, \$4.00 per 100.

RUBERS, 18 to 24 inches. RUXTON FLORAL & NURSERY CO., Md.

When Writing Mention Florists' Exchange

Rose and Carnation Growers

Are you burning your fingers? Have you purchased or are you contemplating purchasing, or using a ventilating system that appears like or has any features of

THE ORMSBY VENTILATING SYSTEM?

If so go slow, be very careful, consult your lawyer, your doctor, your neighbor. You are on dangerous ground. The Ormsby is patented and will be protected. A word to the wise is sufficient. Patent Dec. 29, '91 466,081.

E. A. ORMSBY, Melrose, Mass.

When Writing Mention Florists' Exchange

ABOVE ALL, have your advertisements susceptible. To be reasonable they must be changed often.

## Convention Souvenir Program.

The Florists and Gardeners' Club of Rhode Island is having prepared a Souvenir Program, which will contain the official programme of the convention, together with lists "of all the officers, the florists and gardeners, national and local associations, with names of officers and prominent florists of the United States, which is intended to include in this souvenir a number of illustrations of points of interest in Providence, which will go together with reading matter descriptive of same. The book will, it is said, comprise 125 pages, and will be handsome bound; at least one copy is to be mailed to each member of the society; the balance will be sold to members and seedsmen throughout the country, with a request to retain the book as a memento of the convention.

The promoters are soliciting advertisements for this souvenir programme. The interested should write to S. Aylesworth, 31 Dyer Street, Providence, R. I., for information as to rates, etc.

## Tariff Changes.

This week the Senate endorsed the Finance Committee's recommendation to change the duty on seeds of all kinds not otherwise provided for, which is to be placed on the list of dutiable articles at the rate of 25 per cent. ad valorem; also to make duty on beans 40c. instead of 60c. per bushel; on clover seed, alfalfa and spinach seeds, and sugar beet seed to be returned to the free list.

Paragraph 626, covering seeds on the free list, was modified so that clover, alfalfa and spinach seeds, and sugar beet seed were restored to the free list.

## Registered Letter Law.

The law with regard to registered letters, which was passed by Congress a year ago, when the office of Registered Letters was established, is being enforced by the law the government assumed to register letters for letters that were lost, but under the new law it is responsible for registered letters up to \$10.

## Chrysanthemum Tests at Cornell.

Bulletin 136, May, 1917, of the Cornell University Agricultural Experiment Station, Ithaca, N. Y., is devoted to the subject of chrysanthemum. It contains the results of the variety tests of 1916. The following kinds are classified as good varieties:

**WHITES**—Leawee, Lady Esther Smith, Mammoth, and White. **ORANGE**—Robert F. Hibson, Mrs. W. P. Raynor, Antuna Bride, and Mrs. H. Crawford. **PINKS**—Mrs. M. A. Perrin (in regard to this variety, the Bulletin states "color and form were not distinguishable from the Mme. Feltz Perrin; a few days later the only difference with it was: Wm. Simpson, Roy Empers, General Hoyt Kaye).

**YELLOWS**—Duchess of York and Modesto.

**SPUR COLORES**—Pluto, red, reverse yellow; Buff Gloré; Helen Owen, youngest rays tightly whorled and showing the soft inner ray; Jeanette, white, outer flesh and yellow; Violent; Oriental Glory, white, the whorled inner rays suffused with delicate pink; White Lady, as the flower becomes older, and Western Pride, cardinal, reverse greenish yellow.

**HAIRY**—Midnight; noted because it is the only hairy class, and Mrs. C. B. Freeman, yellow.

From the foregoing, the writers of the bulletin selected the following varieties: Wilhelm Miller) select the following for special purposes: General Chryso, of ten for commercial purposes—Leawee, Lady Esther Smith, Infatuation, Mme. Perrin, Pluto, Modesto, Duchess of York, White, Violent, Gretchen Buetterer.

Special varieties exhibition—Leawee, Lady Esther Smith, White, Modesto. To complete the set Mr. Hunn had better select in a practical routine, would choose Violent, Mrs. Miller would choose Oriental Glory.

Special varieties exhibition—Leawee, Mrs. Perrin, Pluto, Modesto, Duchess of York, Yanoam. Special varieties exhibition—Leawee, Duchess of York, Mrs. C. B. Freeman, Buff Gloré, Gretchen Buetterer. To complete the set, and to give the exhibitor a variety would choose Helen Owen; Mr. Miller would choose Western Pride. It contains a list of all degrees of merit, and especially those which by reason of interest

of arrival (e.g. the English, or poor quality) are to be avoided. The following are listed: Alps, F. Ashmead, Admiral Avellan, Bonnie Dundee, Emil Buetterer, dancing Queen, Mrs. J. G. Siga, Mrs. J. G. Siga, Emerald Gem, Mrs. J. W. Gouffey, Green Emerald, Inevitable, Admiral Itz, Kahm, Mrs. J. G. Siga, Mrs. J. G. Siga, Mrs. J. G. Siga, McHattie, Walter Owen, Lady Ridgeview, Gen. Roberts, Talvan, Triomphe de St. Louis, Mrs. J. G. Siga, Mrs. J. G. Siga, Mrs. J. G. Siga, Wright.

The following list is termed "unpopular (the Chinese type)," and the bulletin states the varieties, Charles H. Curtis and Signal, are not in this new popular class. These varieties are good of their type, but the bulletin states that the exhibitor should give a little favor that it seems almost necessary to put these varieties in the unpromising class. The bulletin states that the average of the year were much below the average of what we have formerly seen. Betty Hook, Washington, Chas. H. Curtis, George Waugh, Mrs. T. D. Hatfield, Mrs. E. C. Kingston, Mongolian Prince, and Signal Light.

Under the heading of "less promising varieties" are given "those novelties in which we seem to detect essentials that are likely to be disapproved by the general judgments are formed," says the Bulletin, "solely upon the behavior of the plants at Cornell." The bulletin states that the number of sorts that are no improvement on the old-established kind, but apparently not speaking of those that are identical, but of those that are not. It is to be noted that the Bulletin states that the exhibitor should not offer them as equivalents or substitutes for the old-established varieties. The Bulletin states that the exhibitor should not card the rest. Fine flowers do not make fine varieties. We know how the old plants are adapted to cultural conditions, but what of the new?

Varieties and fashions are proverbially ephemeral, and the exhibitor should be as ruthless as those of Time himself—the Prince of novelty testers. Probably the exhibitor should not offer new things which will be alive in another decade. The amateur who loves every thing that grows, and fails to fail, the florist, the appointment means dollars. What does the lover of plants care for shipping quality? The exhibitor should not offer flowers which do not meet the standards of the exhibitor's touch of trade.

The amateur who loves every thing that grows, and fails to fail, the florist, the appointment means dollars. What does the lover of plants care for shipping quality? The exhibitor should not offer flowers which do not meet the standards of the exhibitor's touch of trade. The Bulletin further states Hellem was the best of the group. Advised this was promise-yellow: "Ruth Ellis. Not true. Advertised as bluish white, was a faint yellow, fading more as the plant grew, and has obtained a high price." Mrs. Harry Toler. Advertised as flesh pink, slightly hairy, full and double. With the true blue, and the blue, the white, white, but Robert F. Hibson was more completely double. "Pink with a star." Regarding Chinese varieties, we were not hitherto aware that they should be classed as the one class. During the past year, year, was that these kinds were returning to popular favor, and trade growers were being introduced to them.

"As to those varieties that are classified as 'less promising,' there are some that, to the exhibitor, are of value. For example, Glory of the Pacific and Pink Glory, when well grown, are very desirable and profitable, and have obtained the highest price in their color. Henry Hurst is considered by experienced growers to be one of the best chrysanthemums in existence; its excellent build characterizes it as a superb specimen, and is very popular with chrysanthemum specialists and amateurs. Mrs. J. Liberty is also an excellent late yellow.

In the bulletin is pictured two separate blooms of one variety—Miss Magee—to show "the best that can be done with poor stock" and "what can be done with good stock," for the writer of the bulletin adds, "The name is nothing; the quality of the stock is everything."

Such a comparison, however, is a little misleading. The science in chrysanthemum culture is not in growing when asked what but to take. It is a well-known fact that many varieties from the crown bud and the stem bud, when properly cared for, and petaling, in fact, such kinds become stubborn, and are apt to properly develop flowers without artificial assistance. The variety in question being ranked among the best of the crown buds, it is to be shown one of these early Summer buds without an explanation, and to state that the exhibitor should not offer such stock having but little to do with the matter, as imperfect and badly formed flowers are not only more so, but the plants when taken from the crown or early Summer buds, as they are when the stock is kept, develop more so. The pictures in question clearly convey this, for on page 84 we see a terminal bud, evidently taken from a weak plant, making a well-formed and perfect bloom; and it is pictured against an imperfect flower formed from a crown bud.

## New York.

Most kinds of stock have been more abundant during the week, and prices offered for the week were generally lower than express charges. Sweet peas have dropped considerably in value, and at times, this has been due to the fact that the bundles, even for the highest grade, the supply of peas is simply enormous, and the quality generally speaking, has never before been equalled.

Carnations still remain in fine condition, but the market is somewhat soft, and prices are falling lower and lower, 50c per 100 has become a prevailing top figure. 75c being the highest price offered. The market for Lilium Harrisii, from frames and the open ground, is now very plentiful, and prices are falling lower and lower, 75c being taken. L. auratum is also in limited supply, and prices are falling lower. Iris (Japanese) is now abundant, as also is the market for Iris (Japanese).

Blauvelt received on Thursday a fine lot of Jacq. roses from Newport, R. I.

## Hill Trade.

This branch of the business is now practically at a standstill, as far as the Hill trade is concerned. The exhibitor is doing but little trade, and making window display. Many smaller stores up town are doing a good business, and some have gone into the soda water fountain business. G. M. Stump had the J. O'Donoghue floral department, which has a large number of flowers were used (more than have been seen at a funeral in a long time), in the house and in St. Patrick's Cathedral. Tree ferns and other large plants were freely utilized in the latter place, a fine lot of orchids, and a large number of plants being backed around by lilies. The floral pieces made by Mr. Stump and other firms, were used in the funeral. The exhibitor posed of sweet peas—mauve, lilac, and white. There were three colors mostly used. One variety of white was used in the funeral.

The floral and plant department at Bloomingdale's, Mr. Burnham is making about 1000 preparations for the plant trade in the Fall.

Mrs. Edith Purdy, sister of J. Purdy, was the one to be married at Sing Sing, the home of her brother, Wednesday, June 23. Thomas Garrett, late of the firm of Garrett and Sons, died at his home in England, on Wednesday, on the S. S. Paris. The trip is taken in order to gain rest and health.

John McQuaid, Englewood, N. Y., calls to-day on S. S. City of Rome, for Scotland. The exhibitor is representing John A. Scollay and the Chadborn Kennedy Mfg. Co., and has on exhibition a large number of plants. Scollay's manufactures, also a Chadborn automatic ventilator connected with wash water.

## Portchester, N. Y.

A society was properly organized here on Saturday last, and will be known as the Portchester District Horticultural Society. The officers are: W. W. Smith, Portchester, president; W. H. Harvey, Rye, secretary; J. W. Harvey, Rye, treasurer; A. Grierson, Rye, N. Y., secretary. It was decided to hold a convention at Portchester, N. Y., on the 10th of this end about \$500 has been promised by prominent people in the district.

## Exclusively a Trade Paper.

Entered as Second Class Matter

Published EVERY SATURDAY by

A. T. DE LA MARE PTC. AND PUB. CO. LTD.

2, 4, & 8 Duane St., New York.

P. O. Box 1697, Telephone 2164 Cortlandt

REGISTERED CABLE ADDRESS (Commercial Cable) Florez, New York.

**SUBSCRIPTIONS:** \$1.00 per year to United States, Canada and Mexico. \$3.00 per year to foreign countries. Payment in advance. New subscriptions will commence with the first number after receipt unless otherwise notified. Back numbers can be supplied when wanted. The date on address label shows when the subscription expires and in the subscriber's receipt. No other receipt is sent.

**ADVERTISEMENTS:** Copy must be sent to office not later than Thursday in order to secure insertion in issue of the following Saturday. Rates \$1.00 per line. Special positions extra. Discounts on contracts of one month or more. Orders from unknown parties must be accompanied by cash or satisfactory references.

## Exclusively a Trade Paper.

THE FLORISTS' EXCHANGE is published in the interests of those commercially identified with the Florist, Seed and Nursery business. New subscribers are requested to enclose business card or other proof of their connection with these trades.

## Contents.

CARNATIONS	636
CARTELOE DANUQUE, THE	638
CATALOGUES FROVISED	639
TESTS AT CORNELL	640
CHRYSAANTHEMUMS	641
QUESTIONS AND ANSWERS	642
ORDER BOX	643
REGISTERED LETTER LAW	644
ROSES	645
THE TRADE REPORT	646
TARIFF CHANGES	647
TRADE NOTES:	648
St. Paul, Minn.	649
New York	650
Baltimore, Boston, Cincinnati, Cleveland, Philadelphia, Springfield	651
London, Ind., Pittsburg, N. Y., Rochester, N. Y.	652
Chicago, Toronto	653
Puerto Rico, N. Y., Pittsburg	654
Providence	655

## For the Busy Man.

For convention news see page 63 of this issue.

The Senate has restored beet, radish and spinach seed to the dutiable list.

A black fly is damaging the European crops of clover, feeding and vegetable plants. There seed crop is to very slight extent.

The Chicago Horticultural Society is considering the proposition to hold its Fall show at the Columbia, in conjunction with the Illinois State Fair Board.

## CATALOGUES RECEIVED.

E. H. KREAGER & Son, Harlem, Holland. Wholesale Bulb list for 1917.  
 HORACE RIMBY, Colgateville, Pa.—Price list of carnations, bedding and vegetable plants.  
 JACKSON & PERKINS CO., Newark, N. Y.—Price list of Cumberland black cap raspberry, new.  
 PETER HENDERSON & Co., New York.—Midsummer Catalogue for Summer Planting.  
 H. H. PERCE & Co., 30 Broadway, New York. Price list of vegetable seeds, etc.  
 Price List (Japan List) of Bulbs, Flowering Plants, Plants, etc.  
 E. A. GRANBY, Melrose, Mass.— Pamphlet relative to the Ormsby Ventilating System, together a list of parties who are using and endorse the system.  
 JOHN LAING & Son, Forest Hill, London. Price List—Description of Catalogue of Tuberoses as Broomias; Special Catalogues of California and San Francisco, California and Carnations, and Bedding and Border Plants.



A New Orchard Establishment.

Dr. J. M. W. Kitchen has recently built and stocked seven greenhouses in the meadow below his residence in Prospect Street, East Orange, N. J., making a most unique and complete greenhouse plant business. The company and are all detached in order to allow of free bottom, as well as top ventilation, each house being supplied with ventilators the entire length of the houses, opening direct on the pipes. Considerable attention has been given to the water and heating system, and labor has been reduced to a minimum. Liquid manure water gravitates around the houses in service pipes from a tank over the stake-hole. A cylinder holding 300 gallons of hot water will be used to temper the water in winter for watering purposes. The heating is done by two Hitcheys boilers, using four-inch pipes and hot water without pumps. All the plants in the houses, etc., was supplied by Hitcheys & Co., New York City, but the work was done by the owner.

One point worth mentioning is in connection with the stands supporting the benches. In order to prevent snails climbing up to do damage, each support stands in a saucer, which is kept filled with common salt. The houses are well adapted for the purpose to which they are now being put, viz: orchard growing.

Dr. Kitchen recently purchased half of the entire collection from Short & N. J., and together with a quantity purchased from other sources, give him a big start commencing to bring his orchard into operation to open his establishment in September through out-and-out orchard men. The name of his place will be named "The Willow Mead Gardens." The present stock in the houses consists of a large number of different orchids, together with twenty-eight kinds of Cattleyas in 2,000 established plants; 2,000 orchids in 2,000 pots, 2,000 plants, and a number of unloved seedlings. New importations will be added in season.

Paterson, N. J.

A representative gathering of the florists of Paterson and vicinity was held in the Isonian Building last week for the purpose of organizing a florists' club. Ed. Seecy was chosen temporary chairman and John G. Esler temporary secretary. R. C. Nash, of Clifton; John Bingham, of Ridgewood; William T. Keestelo, of Passaic; Mrs. J. Kirberg and Harry Powell, of Paterson, were named as Committee on By-Laws, and T. C. Goble, of Verona; William Zeigler, of Little Falls, and Martin Zeigler, of Paterson, were named as a committee to select a name for the future club. John W. Hays, of Hackensack, son of the late William Walter Phelps, Minister to Germany, is prominently mentioned with names of thirty-three names were enrolled and on the 21st of July a meeting will be held to form a permanent organization.

Indian, Ind.

Stuart & Haugh will combine their greenhouse establishment on Third Street with the one they own on South Jackson. The change will take place next fall. The Third Street houses will be torn down. Several new buildings have been erected on Jackson Street. Stuart will erect a residence at the corner of Meridian and Twenty-third Streets, a very convenient location from his greenhouses.

Rochester, N. Y.

Wallace S. Wing, of Henrietta, the assistant of the late Fred E. Young, has filed a statement with County Clerk Shedd. The assets of Mr. Young are shown to be worth approximately \$6,983.87; actually, \$3,573.77. His debts foot up to \$6,160.88.

Madison, N. J.

Enos H. Daly has just placed one of Scollay's Invincible Boilers, No. 9, to heat his entire plant.

Montgomery, Ala.

Joseph Fingstall sailed for Europe Saturday, June 12, for a three-week trip to Europe. During his trip he will visit the Hamburg Exposition.

IMPERIAL WATERING

The Ormsby Ventilating System

Dec. 29, '91, U. S. Patent 466,081.

Florists should use extreme caution when they purchase or use an infringement on this patent. Secure the original and be at peace.

E. A. ORMSBY, - Melrose, Mass.  
When Writing Mention Florists' Exchange

GERANIUMS.  
Brunt, extra, \$5.00 per 100; \$3.00 per 1000.  
Brunt, 24 in. pots, \$1.00 per 100; \$2.00 per 1000.  
Brunt, best vase, \$8.00 per 100. Heliotrope, 24 in. pots, \$2.00. Cash with order.

WM. J. CHINICK, Trenton, N. J.  
When Writing Mention Florists' Exchange

THE MONEYMAKER!!!  
BRUSSELS SPROUTS, Deere's select matchless, 50 lbs. per 100, \$1.00 per 1000.  
CELEBY, White Plum, Giant Pascal, etc., 1 1/2 lbs. per 100, \$1.00 per 1000.  
ASPLEY, Sample's strain, 5 colors, 50 cts. per 100; \$5.00 per 1000.  
All translated through plants. Cash with order.

SHELL ROSE & EENHOUSE CO., North Point, Md.  
When Writing Mention Florists' Exchange

PEACH AND PLUM TREES DELIVERY INST.  
FOR FALL  
Reliable and clean stock at low wholesale rates. Give desirable leading varieties of PEACHES, old and new, in fruiting order. Have the new FRUIT, Greenhouse and semi-fruits. Buds can be supplied in season at low rates. Very large stocks of PLUM TREES all on plum roots, one and two years. Buds can be supplied of all kinds, etc. etc. etc. Cash with order. Have all the leading Japanese varieties. Abundance, Burbank, etc. etc. etc. Cash with order. Also the new Red Star and Wisconsin gold supply. Truly supply also of Apples and Peaches to order. ALEXANDER FULLER, Mixed Nurseries, Millard, Del.  
When Writing Mention Florists' Exchange

STORRS & HARRISON CO., Painesville, Ohio.

Wholesale Nurserymen and Florists.

When Writing Mention Florists' Exchange

HERP'S SIS

LATANIA HORBONICA..... 3 inch pots, \$5.00 per 100.

THE ELIZABETH NURSERY COMPANY, Elizabeth, N. J.  
When Writing Mention Florists' Exchange

GOOD STUBS STOCK BLEED

AGERATUM, 3/4 inch pots..... \$2.00 per 100  
CHRYSANTHEMUMS, 2 1/2 inch pots..... 2.00  
FUCHSIA, mixed, 2 1/2 inch pots..... 2.00  
GERANIUMS, double scarlet, 3 inch pots..... 3.00  
..... single scarlet, 3 inch pots..... 2.00  
..... double white, 3 inch pots..... 2.00  
mixed, 3 inch pots..... 2.00  
GREVILLEA ROBUSTA, 4 inch pots..... 10.00  
HELETTROPE, 2 1/2 inch pots..... 8.00  
HONEYUCKLE, golden, 4 inch pots..... 8.00  
..... 2 1/2 inch pots..... 2.50  
SALVIA, golden, 2 1/2 inch pots..... 2.50  
..... 2 1/2 inch pots..... 2.50  
STROBILANTHERA DYERIANUS, 2 1/2 inch pots..... 2.50  
CYCLAMEN GIGANTEUM, 1 inch pots..... 16.00  
ANEMONE PLUNDS WANTS..... 16.00  
Cash with order from unknown customers or C. O. D. Orders amounting to \$5.00 and over, F. O. B., N. Y. City.

SEAWANAHKA GREENHOUSES,  
OYSTER BAY, Queens Co., N. Y.

JAS. C. CLARK, Supt. P. O. BOX 34. WM. L. SWAN, Prop.  
When Writing Mention Florists' Exchange

EVERY FLORIST SHOULD TO INSURE HIS GLOSS AGAINST RAIL-

For particulars address JOHN S. KELLEY, Secy, Saddle River, N. J.  
When Writing Mention Florists' Exchange

CABBAGE PLANTS,

7 1/2 cents per plant. F. S. CUMBER, Wilmstadt, Succesor, Fottler's Brunswick and Fair Dutch.  
When Writing Mention Florists' Exchange

CELEBY PLANTS Strong and Sticky.

Satisfaction and Special Low Rates Guaranteed. Most Practical Book on Celery Growing, 15 cts. PETER J. SCHUUR, Kalamazoo, Mich.  
When Writing Mention Florists' Exchange

25,000 CELEBY PLANTS

Golden Dwarf, White Plum, and Giant Pascal, 50 cts. per 100; \$1.75 per 1000. Cultivated and strong. Send 10 cts. for sample. Cash with order.  
HORACE RIMBY, Collegetown, Pa.  
When Writing Mention Florists' Exchange

VEGETABLE PLANTS

CABBAGE—Henderson's Succession, Early Flea Dutch, Lapton, Autumn King, Harpers' Sure Head, Late Flat Dutch, Freedom Flat Dutch, Late Drumhead, Mammoth Rock Head and Drumhead Savoy. Field grown; 15 cts. per 100; \$1.00 per 1000; \$8.50 per 10,000.  
CELEBY—Dwarf Giant Heart, Golden Self Blanching, Royal Head, New York, White Plum and Giant Pearl Celeriac. 15c. per 100 and 2000; \$5.00 per 10,000.  
Cash with order.

R. VINCENT JR. & SON, White Marsh, Md.  
When Writing Mention Florists' Exchange

STORRS & HARRISON CO., Painesville, Ohio.

Fruit and Ornamental Trees, Shrubs, etc. etc. etc. Cash with order. Have all the leading Japanese varieties. Abundance, Burbank, etc. etc. etc. Cash with order. Also the new Red Star and Wisconsin gold supply. Truly supply also of Apples and Peaches to order. ALEXANDER FULLER, Mixed Nurseries, Millard, Del.  
When Writing Mention Florists' Exchange

ALBERT M. HERR, LANCASTER, PA.

Seed, \$1.25 per 1/4 ounce. Plants, \$5.00 per 1000; 75c. per 100; 2500 for \$10.00.  
When Writing Mention Florists' Exchange

ALTERNANTHERA.

A. AMABILIS and A. ANANA, (red and green) and A. BREVIFLORA, \$1.00 per 100. Cash with order. CHAS. T. DALLIN, New York, N. Y.  
When Writing Mention Florists' Exchange

VIOLETS M SPECIETY

All first-class plants. Orders received now for fall planting. Marie Louise, Lady Campbell, Swany, White, Fairgubar, Princesse de Galles, Callifortia. Price on application.  
FERD. BOLLON, See CHH. L. L. N. Y.  
When Writing Mention Florists' Exchange

FUCHSIA BLACK PRINCE.

The best window plant. \$1.00 per 100, by express, purchaser's expense. New Dwarf Flammaro Willmet. Beautiful emery yellow, fine for cutting, \$1.00 per dozen; 10 cts. per 100. \$1.00 per 100, by express, purchaser's expense.  
New Hydrogen Oakleaf Begonia. The best of all; numerous heads of bloom. A large cluster from a 1 1/2 pot, often measures 12 inches in length. Bred by J. C. H. Pland, 11 cts. per dozen, pot and cover.  
New Hybrid of the Plant. Strebilanthus (royal purple), beautiful purple and silver variegated, 10 cts. per 100. Cash with order.  
W. G. A. REED & CO., Urban, Ohio.  
When Writing Mention Florists' Exchange

20,000 ASTERS

Truffaut's Perfection, 4 colors. Victoria Perfection, 4 colors. Sample's Strain, 4 colors.  
Also Yellow quality.  
Per 100, by mail, 75c. per 1000, by express, 75c.  
JEWEL, 2 inch pots, \$1.00.  
2 inch pots, \$5.00.  
30,000 SOIL-LAX, 2 inch pots, per 100, \$1.50; per 1000, \$12.50.  
Cash with order, please.  
GEORGE J. HUGHES, Berlin, N. J.  
When Writing Mention Florists' Exchange

VEGETABLE PLANTS

All strong, well rooted plants, of standard varieties. 100 100  
Celery, strong, well-rooted..... \$0.20 \$2.00  
Celery, ordinary..... 15 100  
Pepper..... 25 200  
Cabbage..... 15 100  
Cauliflower..... 25 200  
Strawberry Plants, Poited, Garris and Earliest (new varieties), also Brandywine, Tennessee, etc. etc. etc.

TRADE PRICE LIST FREE.  
Samples for Stamp.  
E. C. HARGADINE, Felton, Del.  
When Writing Mention Florists' Exchange

HERE THEY GO.

Rex Begonia, 2 1/2 inch pots..... Per 100 \$1.00  
3 inch pots..... 5.00  
Vines var, 2 1/2 inch pots..... 2.50  
4 inch pots..... 2.50  
4 inch pots..... 6.00  
Vernon Begonia, 2 1/2 inch pots..... 3.00  
Petunia, single fringed, 2 1/2 inch pots..... 3.00  
Sweet Asters, 2 1/2 inch pots..... 3.00  
Cobean scardens, 2 1/2 inch pots..... 3.00  
M. of Snow Geraniums, 2 1/2 inch pots..... 2.00  
Nasturtium, 2 1/2 inch pots..... 2.00  
M. of Snow Geraniums, 2 1/2 inch pots..... 2.00  
..... 4 inch pots..... 4.00  
..... 6 inch pots..... 6.00  
Heliotrope, 2 1/2 inch pots..... 3.00  
50,000 Rooted Cuttings of Lohelia, Mixed colors, 100 per 1000, \$1.00.  
Verbenas, Sweet Asters, Strotilanthus, Petunias, etc. etc. etc. Cash with order.  
Per 100, \$1.00.  
Lemon and Lime Vines var. Double Gen. Gen. Geranium, per 100, \$1.25.  
Red Begonia, Mrs. Pollock Geraniums, Snow Great Daisy, Souv. de Jona Abutilon, per 100, \$2.00.  
Coleus, per 100, 20 cts.  
Dracena Indivisa, 5 inch pots, per 100, \$20.00.  
Terms Cash or C. O. D.  
GREENE & UNDERHILL, Watatown, N. Y.  
When Writing Mention Florists' Exchange

**Toronto.**

**Business Has Already Got Down** to the regular summer dullness. Bedding out is about finished and the stock is not nearly used up. Prices for the season have generally been fairly good, but the mainstay colors, etc., have been sold for about what was offered. There has not been, as yet, so good a demand for nice table plants this season, but cut flowers, although very plentiful, have sold very well. Last week the Jubilee entertainments were not so successful as they had. Prices generally were but little higher than usual. Outside flowers were very good and abundant. There was a very fine stock of Spanish Iris, and they sold very well. We find them very useful and they are quite hardy and easily grown. Paeonias are very plentiful and are mostly sold without much trouble. Gladioli, stand poppies and clematis also find a fair market.

**A Lucky Jubilee.**

At the Jubilee games on the 23d inst., F. Brown, manager of G. H. Dunlop's King Street store, won the first prize for the best floral decorated bicycle.

**Death of Mrs. Steve Lawrence.**

I am sorry to announce the death of the wife of Steve Lawrence, who has charge of the conservatory in the Horticultural Gardens. Steve and his sons have been favorably known to all the profession here and have the sincere sympathy of all in their sad loss. **THOS. MAYTON.**

**Chicago.**

**Wooded Island Rose Garden.**

This is the sixth year of the existence of the rose garden, the plants having been obtained from many sources, and set in the rose garden of the famed Wooded Island, the latter part of April 1921, and the report can be made, the wood having come to a favorable winter and early spring, the roses were at their very best, coming into flower on good, stout bushes, two to four feet high, the first week in June—early for this part of the country. This year, not so favorable a report can be made, the wood having come to rest in a rather soft condition, followed by a very hard winter, the thermometer went to 20 degrees below zero. All the best hybrids got severely frozen and many of the best of the season, the Lady Washington climber, for the first time, got ruthlessly slaughtered. The only ones standing in the garden are the growth of and flowering finely, although the flowers are rather small, are the June and Moss roses, and they seem all but iron-clad. The White Moss, Blanche Moran, the old red, Salet, Adelaide and the Perpetual are among the best. The rugosa bed stood well and looks fine. General Jacquemont is also doing very well and certainly a good outdoor rose here. Anne de Diesbach, Alfred Colomb, Marie Morrison, Pisonia, Mrs. John Manning, Mrs. Chertis, Martha W. Wilder (one of the best), were the most striking, in fine blossoms, although some of the plants are over eight feet in height, and all from new growth from the bottom. For the reason, plants are given. There are, however, indications that the flowering season will be more extended as each week rises from the bed, comes loaded with its buds.

The border of hardy perennial plants surrounding the garden is a very fine feature. The Wooded Island, as a whole, is also a very pleasing spot, and will continue to be a fine one as long as it is now—substantially as it was at the World's Fair, and with as pretty, and the only remnants of that once noted fair in Jackson Park.

**Trade Notes.**

Taken as a whole, trade the past week has been very quiet, as times, and the retailers seem satisfied. Counter trade has been poor and this seems now to be a prevalent complaint, partly explainable, no doubt, by the many places where flowers can now be purchased in a few, well-chosen and parties have helped things along, but commencements have been the big feature, this custom showing no signs of decrease as time rolls by.

The wholesale houses also seem satisfied with the week's sales, the only complaint being the poor quality of roses. New Beauty are beginning to come in, which, although somewhat stomped as yet, furnish a better grade of flowers. Carnations are still good and over-abundant. Paeonias remain plentiful and sell readily at slightly reduced prices. The carnation market is also in.

Summer prices on all stock, from this on, are generally looked for. **The News.** Mr. Washburn, of Bassett & Washburn, with his family have left for Denver, Col., for a three weeks' outing. A game of baseball will be played on the Fourth at Summerdale by a wholesale of teams made up of the men located north of Randolph Street, versus those south of it. The Executive Committee of the Chicago Horticultural Society met last Saturday and have taken under advisement the proposition to hold the fall show at the Coliseum in conjunction with the Illinois State Fair Board. **EDGAR SANDERS.**  
*Newburgh, N. Y.*

George Cravshaw is going into business himself and his family have left for St. Paul, where he is building six houses—two for carnations, two for violets and two for chrysanthemums.

**SMILAX**  
35-000 fine 2 in. Smilax, \$2.00 per 100; \$12.50 per 1000.  
**BETSCHER BROS., CANAL DOVER, O.**  
SMILAX From 2 inch pots, \$1.50 per 100  
From 3 inch pots, \$3.00 per 100  
HYDRANGEA 4 inch pots, \$4.00 per 100  
FRED. BERNER, Cape May City, N. J.

**SMILAX**  
35-000 fine 2 in. Smilax, \$2.00 per 100; \$12.50 per 1000.  
**BETSCHER BROS., CANAL DOVER, O.**  
SMILAX From 2 inch pots, \$1.50 per 100  
From 3 inch pots, \$3.00 per 100  
HYDRANGEA 4 inch pots, \$4.00 per 100  
FRED. BERNER, Cape May City, N. J.

**SMILAX**  
35-000 fine 2 in. Smilax, \$2.00 per 100; \$12.50 per 1000.  
**BETSCHER BROS., CANAL DOVER, O.**  
SMILAX From 2 inch pots, \$1.50 per 100  
From 3 inch pots, \$3.00 per 100  
HYDRANGEA 4 inch pots, \$4.00 per 100  
FRED. BERNER, Cape May City, N. J.

**SMILAX**  
35-000 fine 2 in. Smilax, \$2.00 per 100; \$12.50 per 1000.  
**BETSCHER BROS., CANAL DOVER, O.**  
SMILAX From 2 inch pots, \$1.50 per 100  
From 3 inch pots, \$3.00 per 100  
HYDRANGEA 4 inch pots, \$4.00 per 100  
FRED. BERNER, Cape May City, N. J.

**SMILAX**  
35-000 fine 2 in. Smilax, \$2.00 per 100; \$12.50 per 1000.  
**BETSCHER BROS., CANAL DOVER, O.**  
SMILAX From 2 inch pots, \$1.50 per 100  
From 3 inch pots, \$3.00 per 100  
HYDRANGEA 4 inch pots, \$4.00 per 100  
FRED. BERNER, Cape May City, N. J.

**SMILAX**  
35-000 fine 2 in. Smilax, \$2.00 per 100; \$12.50 per 1000.  
**BETSCHER BROS., CANAL DOVER, O.**  
SMILAX From 2 inch pots, \$1.50 per 100  
From 3 inch pots, \$3.00 per 100  
HYDRANGEA 4 inch pots, \$4.00 per 100  
FRED. BERNER, Cape May City, N. J.

**SMILAX**  
35-000 fine 2 in. Smilax, \$2.00 per 100; \$12.50 per 1000.  
**BETSCHER BROS., CANAL DOVER, O.**  
SMILAX From 2 inch pots, \$1.50 per 100  
From 3 inch pots, \$3.00 per 100  
HYDRANGEA 4 inch pots, \$4.00 per 100  
FRED. BERNER, Cape May City, N. J.

**SMILAX**  
35-000 fine 2 in. Smilax, \$2.00 per 100; \$12.50 per 1000.  
**BETSCHER BROS., CANAL DOVER, O.**  
SMILAX From 2 inch pots, \$1.50 per 100  
From 3 inch pots, \$3.00 per 100  
HYDRANGEA 4 inch pots, \$4.00 per 100  
FRED. BERNER, Cape May City, N. J.

**SMILAX**  
35-000 fine 2 in. Smilax, \$2.00 per 100; \$12.50 per 1000.  
**BETSCHER BROS., CANAL DOVER, O.**  
SMILAX From 2 inch pots, \$1.50 per 100  
From 3 inch pots, \$3.00 per 100  
HYDRANGEA 4 inch pots, \$4.00 per 100  
FRED. BERNER, Cape May City, N. J.

**SMILAX**  
35-000 fine 2 in. Smilax, \$2.00 per 100; \$12.50 per 1000.  
**BETSCHER BROS., CANAL DOVER, O.**  
SMILAX From 2 inch pots, \$1.50 per 100  
From 3 inch pots, \$3.00 per 100  
HYDRANGEA 4 inch pots, \$4.00 per 100  
FRED. BERNER, Cape May City, N. J.

**LATANIA BORBORICA**  
2 1/2 INCH POTS.  
Strong, \$5.00 per 100. Cash.  
**EDWIN A. SEIDEWITZ,**  
36 W. LEXINGTON ST., BALTIMORE, MD.  
When Writing Mention Florists' Exchange

**FERNS**  
Pieris Serrulata, Pteris caerulea, Pteris aquilina, Adiantum, Aspidium Tenensense, Cyclophilum, Polka Ferns.  
\$3.50 Per 100 CASH WITH ORDER.  
**CHAS. F. BAKER, Utica, N. Y.**  
When Writing Mention Florists' Exchange

**ASPARAGUS PLUMOSA NANA**  
Strong, well-grown plants, from 2 1/2 inch pots, \$5.00 per 100. Satisfaction guaranteed.  
**A. B. DAVIS & SON, Purcellville, Va.**  
(NEAR WASHINGTON, D. C.)  
When Writing Mention Florists' Exchange

**STRONG AND WELL GROWN SMILAX PLANTS**  
out of 2 1/2 in. pots, \$2.00 per 100; \$18.00 per 1000. Cash with order, satisfaction guaranteed or money refunded. Address  
**FRED. SCHNEIDER, Cleveland, Ohio.**  
1751 Crawford Road.  
When Writing Mention Florists' Exchange

**CLEMATIS.**  
In pot, good plants, \$2.50 per doz., \$30.00 per 100. Fine, heavy, large grown plants in twelve choice named varieties, \$2.00 per doz., \$24.00 per 100.  
**SMILAX** Strong plants from last year, 2 1/2 in. pots, \$2.50 per 100. Transplanted, \$1.00 per 100; \$7.50 per 1000.  
**F. A. BALLER, Bloomington, Ill.**  
When Writing Mention Florists' Exchange

**FOR SALE CHEAP.**  
1 *Latania Borborica*, 6 ft. high, 8 wide.  
2 *Dicksonia Anterioris*, 5 ft. high.  
2 *Trachoma Australis*, 10 ft. high.  
1 Rubber Fern, 5 ft. high.  
600 White Verbena, fine plants.  
2 Large Night Blooming Cereus, (true) about 1000.  
**H. W. HALES - Ridgewood, N. Y.**  
When Writing Mention Florists' Exchange

**FERNS**  
We make a specialty of small ferns for the Fall trade.  
Write for special prices on large quantities. Order early.  
**JOHN SCOTT,**  
KEAP STREET GREENHOUSES  
BROOKLYN, N. Y.  
When Writing Mention Florists' Exchange

**SMILAX AND FERNS**  
FINE STOCK.  
All the leading varieties of PALMS, from 4 inch pots to specimens in 10 inch pots.  
**FERNS**—Adiantum Cuneatum and aspid. varieties, in 2 1/2 inch pots, at \$5.00 per 100, \$50.00 per 1000.  
**LEMOUEL BAILL,**  
WISSINGING, PHILA., PA.  
When Writing Mention Florists' Exchange

**SMILAX AND FERNS**  
FINE STOCK.  
All the leading varieties of PALMS, from 4 inch pots to specimens in 10 inch pots.  
**FERNS**—Adiantum Cuneatum and aspid. varieties, in 2 1/2 inch pots, at \$5.00 per 100, \$50.00 per 1000.  
**LEMOUEL BAILL,**  
WISSINGING, PHILA., PA.  
When Writing Mention Florists' Exchange

**Nephrolepis Exaltata Bostoniensis.**  
In large and small quantities from \$4.00 to \$80.00 per 1000.  
**MINE IS THE GENUINE STOCK.**  
**FRED. C. BECKER,**  
1730 Cambridge Street, CAMBRIDGE, MASS.  
When Writing Mention Florists' Exchange

**PALMS**  
AND OTHER DECORATIVE PLANTS  
at First Estate Florists  
Stock large and in fine condition  
Send for new Wholesale list of special green or large colored sends in list of your wants.  
**W. J. HESSERLY,**  
102 West 42nd Street, N. Y.  
When Writing Mention Florists' Exchange

**JULIUS ROEHR'S**  
Headquarters for Palms and Decorative Plants.  
RUTHERFORD, N. J.  
P. O. Address, Carlton Hill, N. J.  
When Writing Mention Florists' Exchange

**PALMS AND FERNS.**  
The LARGEST STOCK in the West.  
**GEO. WITTBOLD,** 1709 N. Halsted St., CHICAGO.  
When Writing Mention Florists' Exchange

**ORCHIDS and GREENHOUSE PLANTS FOR SALE.**  
Address P. O. Box 665. ALBANY, N. Y.  
Having disposed of several of my Greenhouses and the remainder being over crowded, I have decided to offer for sale the excess, consisting of the greater portion and the choicest specimens of my collection for the past 20 years, either singly or in quantities. They are all well established, in fine condition, and many cannot be obtained in any other collection in America. A printed list sent on application. Sales made at reasonable prices.  
**E. CORNING.**  
When Writing Mention Florists' Exchange

**AZALEAS!**  
(INDICA.)  
8 to 9 in. heads, \$150.00 per 100; \$145.00 per 1000  
9 to 10 " " " 175.00 " 1700.00  
10 to 12 " " " 200.00 " 2000.00  
12 to 14 " " " 250.00 " 2500.00  
14 to 15 " " " 300.00 " 3000.00  
**PALMS, Etc.**  
For Palms, Aspidistras, Araticarias, etc., please refer to our advertisement in Florists' Exchange of May 15th and June 12th.

**BECONIAS.**  
(Erect Flowering) Single/Tuberous Roots.  
About 1 inch diam., separate colors, \$4.00 per 100.  
About 1 1/2 to 1 3/4 inch diam., separate colors, \$15.00 per 100.  
Double Flowering.  
About 1 1/2 inch diam., separate colors, \$22 per 100.  
About 1 3/4 to 2 inch diam., sep. colors, \$40 per 100.  
About \$35 to 1 1/4 inch diam., mixed, \$18.00 per 1000.  
\$80.00 per 1000.  
**GLOXINIAS** (Erect Flowering.)  
About 1 1/2 inch and above diam., mixed, \$18.00 per 1000; \$140.00 per 10,000.  
Forcing and other Nursery stocks grown in this country.  
CASH with packing fee, except on approved Credit.

**ROYAL NORTIES, LOUIS VAN HOUTTE PERE,** Ghent, Belgium.  
When Writing Mention Florists' Exchange

**ROYAL NORTIES, LOUIS VAN HOUTTE PERE,** Ghent, Belgium.  
When Writing Mention Florists' Exchange

**ROYAL NORTIES, LOUIS VAN HOUTTE PERE,** Ghent, Belgium.  
When Writing Mention Florists' Exchange

**ROYAL NORTIES, LOUIS VAN HOUTTE PERE,** Ghent, Belgium.  
When Writing Mention Florists' Exchange

**J. K. ALLEN,**  
Wholesale Commission Dealer in  
**CUT FLOWERS,**  
57 W. 28th St., New York.  
Orders by mail or telegraph promptly attended to.  
Telephone Call, 352 38th St.  
**ROSES AND VIOLETS SPECIALTIES.**

**W. S. ALLEN,**  
17 West 28th St., New York.  
  
Correspondence Solicited.

**FCRD BROS.**  
**WHOLESALE FLORISTS,**  
111 West 30th Street,  
NEW YORK.  
Consignments Solicited. Telephone 200 33th St.

**WM. H. CUNTER,**  
**Wholesale Florist**  
VIOLETS AND CARNATIONS A SPECIALTY.  
Consignments Solicited.  
30 West 29th St., New York.  
Telephone, 209-28th Street.

**MICHAEL A. HART,**  
**Wholesale & Commission Florist,**  
113 W. 30th St., New York,  
Telephone Call, 1307 38th St.  
All kinds of Roses, Violets and Carnations a specialty.  
**ORDERS PROMPTLY ATTENDED TO.**

**H. A. HOFFMANN,**  
**Wholesale Florist**  
44 W. 29th St., NEW YORK.  
Telephone Call, 1558 38th St.  
American Beauties, Carnations, White Violets,  
Specialties. CONSIGNMENTS SOLICITED.

**EDWARD C. HORAN,**  
**WHOLESALE • FLORIST,**  
No. 34 W. 28th St., New York.  
The Bride, Mornnet and American  
Beauty, Specialties.

**JULIUS LANG,**  
**Wholesale Florist**  
53 WEST 30th ST.  
Consignments Solicited. NEW YORK.

**FRANK MILLANG,**  
**Wholesale Commission Dealer**  
...in Cut Flowers...  
408 East 34th St., New York City,  
Cut Flower Exchange. Telephone Call, 365-38th.

**THE NEW YORK CUT FLOWER CO.**  
119-121 West 23d Street,  
112-114 West 24th Street,  
Telephone 733, 13th St., NEW YORK.  
THE LARGEST DEALERS IN CUT  
... FLOWERS IN THE WORLD ...

**W. E. LYNCH,**  
**Wholesale Dealer in Cut Flowers.**  
We are Headquarters for finest Carnations and Roses, Violets, Valley, Roman, Smilan,  
Adiantum. Best selected and preserved for shipping orders. Send us your name for our  
Semi-Monthly Free List.  
**19-21 RANDOLPH STREET, CHICAGO.**  
When Writing Mention Florists' Exchange

**CHAS. W. McKELLAR,**  
**WHOLESALE COMMISSION FLORIST**  
Largest and best market in Chicago. Constant supply of all seasonable flowers.  
Consignments of first grade goods solicited. Complete stock of Florists' Supplies. Wire work, etc. All orders given prompt attention.  
Telephone, Main 1129. 45, 47, 49 WABASH AVENUE, CHICAGO. ILL.  
ED. F. WINTERSON, Manager.  
When Writing Mention Florists' Exchange

NAME AND VARIETY.	NEW YORK July 2, 1897.	BOSTON June 30, 1897	PHILADELPHIA June 30, 1897	CHICAGO June 31, 1897.	ST. LOUIS
A. Beauty, fancy and special	25.00 to 25.00	12.00 to 20.00	20.00 to 25.00	15.00 to 20.00	7.00 to 20.00
" " Extra	10.00 to 15.00	5.00 to 10.00	10.00 to 20.00	5.00 to 10.00	...
" " No. 1.	6.00 to 10.00	...	...	...	...
" " Cult and ordinary.	2.00 to 4.00	1.00 to 5.00	2.00 to 5.00	3.00 to 5.00	...
Bennett, Charm.	.50 to 1.50	2.00 to 4.00	...	...	...
Bride.	.50 to 4.00	1.00 to 3.00	2.00 to 5.00	1.00 to 3.00	50 to 3.00
Bride, double.	2.00 to 4.00	...	...	...	...
Jacqueline.	...	1.00 to 4.00	...	2.00 to 6.00	...
E. E. Victoria.	...	2.00 to 5.00	...	...	1.00 to 3.00
La France, extra.	...	2.00 to 5.00	3.00 to 5.00	2.00 to 4.00	6.00 to 3.00
" " ordinary.	...	...	...	...	...
Magns Charm.	...	...	...	...	...
Mrs. Teaton.	.50 to 5.00	2.00 to 5.00	...	2.00 to 4.00	50 to 3.00
Meteor.	1.00 to 4.00	2.00 to 5.00	...	...	50 to 3.00
Mrs. F. Morgan.	...	2.00 to 4.00	...	...	50 to 3.00
Parade.	...	...	...	...	50 to 3.00
Paq. Gothic.	...	2.00 to 4.00	...	...	50 to 3.00
Pella.	.50 to 2.00	2.00 to 4.00	2.00 to 4.00	1.00 to 3.00	50 to 2.00
Penny.	...	...	...	...	50 to 2.00
Rev. of Wood.	...	...	...	...	50 to 2.00
Ulrich Bruner.	...	...	...	...	50 to 2.00
Verdella.	...	...	...	...	50 to 2.00
Violette.	75 to 1.00	...	50 to 1.00	40 to 50	1.00 to 1.25
W. M. S.	...	...	50 to 1.00	40 to 50	...
JALLES.	1.50 to 3.00	...	6.00 to 8.00	...	8.00 to 6.00
All colors, inferior grades	...	50 to 75	25 to 30	35 to 30	...
" " White	15 to 50	50 to 75	25 to 30	35 to 30	...
STANDARD	15 to 50	50 to 100	50 to 100	50 to 75	...
YANKEES (Red)	15 to 50	50 to 75	25 to 30	35 to 30	...
" (White)	15 to 50	50 to 75	25 to 30	35 to 30	...
" (Yel. & Varie)	15 to 50	50 to 1.25	50 to 1.00	50 to 75	...
" (White)	15 to 50	50 to 75	25 to 30	35 to 30	...
" (The richest)	50 to 75	100 to 2.00	1.00 to 2.00	50 to 75	...
" (grades of hand)	25 to 75	1.00 to 50	1.00 to 1.50	75 to 75	...
" (all varieties)	25 to 75	1.00 to 2.00	1.00 to 1.50	75 to 75	...
" (Novelties)	...	...	1.00 to 1.50	1.00 to 1.00	...
GRAYBEE	30.00 to 40.00	...	...	...	...
LILLO	10 to 30	...	...	...	...
LESLIE	20.00 to 40.00	...	...	...	...
LUTY OF THE VALLEY	2.00 to 3.00	2.00 to 4.00	2.00 to 4.00	3.00 to 8.00	2.00 to 3.00
MONROE	...	1.00 to 1.50	...	...	2.00 to 2.50
PANORAMA	...	...	...	...	2.00 to 2.50
SPELL	8.00 to 10.00	8.00 to 13.00	12.00 to 20.00	8.00 to 10 to 10.00 to 12.00	...
SURETY PINK (500 bunches)	2.00 to 1.00	25 to 50	50 to 40	35 to 40	10 to 15
VIOLETS	...	...	...	...	...

For Prices of Fancy and Special Stock see our Correspondence Columns.  
Prices are for quantities of one hundred unless otherwise noted.  
Prices quoted above are given only after very careful inquiry, and we do not  
warrant their accuracy, they will be found practically correct up to the date mentioned.

**REINBERG BROS.,** Wholesale Growers of Cut Flowers. .  
..... 500,000 Feet of Glass. .

We can fill all orders on short notice with all leading varieties of ROSES and  
CARNATIONS. We are headquarters for fine AMERICAN BEAUTIES.  
Give us a trial and convince yourself.  
**SALESROOM 51 Wabash Avenue, CHICAGO, III.**  
When Writing Mention Florists' Exchange

**SAMUEL S. PENNOCK, WHOLESALE FLORIST.**  
A fine stock of VALLEY on hand throughout the Summer. Also a full line  
of all seasonable cut flowers.  
During July August and September we close at 6 P. M.

1612-1614 Barker St. bet. Chestnut & Market Sts. Philadelphia, Pa.  
Local and Long Distance Telephone 6210.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**Buffalo Cut Flower Exchange,**  
WHOLESALE COMMISSION,  
481 WASHINGTON ST., BUFFALO, N. Y.  
Telephone, Seneca 1366.

**HEADQUARTERS** In Western New York Try us  
ROSES, CARNATIONS AND ALL SEASONABLE CUT FLOWERS.  
**WM. F. KASTING,** Wholesale Commission Florist  
495 Washington Street, BUFFALO, N. Y.  
Also Dealer in Florists' Supplies & Wire Designs

**PURDY & BLAUVELT,**  
Wholesale and Commission Dealers in  
**CUT FLOWERS**  
MADEIRA FEEN FRIENDS A SPECIALTY.  
57 WEST 30th STREET,  
Bet. Broadway & 6th Ave. NEW YORK.

**A. & F. ROLKER,**  
WHOLESALE DEALERS IN  
**CUT FLOWERS**  
53 West 28th St.  
Telephone 2379 38th St. NEW YORK.

**W. F. SHERIDAN**  
Wholesale Commission Dealer in  
**CUT FLOWERS**  
39 West 25th St., New York.  
Telephone, 215-38th St.  
PRICE LIST SENT ON APPLICATION.

FRANK H. TRAUBELT. CHARLES SCENOCK.  
**TREANDLY & SCENOCK,**  
Wholesale Florists,  
58 W. 28th St., and CUT FLOWER EXCHANGE,  
NEW YORK.  
Telephone 991-18th St.  
Consignments Solicited.

**JOHN YOUNG,**  
**Wholesale Florist,**  
51 WEST 28th ST.,  
NEW YORK.

**WM. J. BAKER,**  
**Wholesale Florist**  
1432 So. Penn Square,  
Philadelphia, Pa.

**DUMONT & CO.,**  
**WHOLESALE FLORISTS**  
CARNATIONS A SPECIALTY.  
No. 1305 Filbert St., Philadelphia.

**Illinois Cut Flower Co.,**  
J. B. DEAMUD, Manager,  
WHOLESALE COMMISSION FLORISTS,  
51 Wabash Ave., Chicago.  
Consignments Solicited.

**KENNICOTT BROS. COMPANY,**  
**Wholesale • Cut • Flowers,**  
88 Wabash Avenue,  
CHICAGO, ILL.  
WIRE WORK A SPECIALTY.

**ROGERS PARK FLORAL CO.,**  
Wholesale Growers of Cut Flowers  
OFFICE AND SALESROOM,  
41 WABASH AVE., CHICAGO.  
Headquarters for AMERICAN BEAUTIES.

Wholesale Florists  
JOBBER IN  
CATIONS  
CUT FLOWERS,  
BUCKS.  
N. F. McCarthy  
FLORIST'S  
SUPPLIES.

FLORISTS' VASES.  
Decorative and artistic.  
Retailers and Auctioneers.  
84 HAWLEY STREET, - BOSTON.

GEO. A. SUTHERLAND,  
Successor to W. J. STEWART,  
CUT FLOWERS and FLORISTS' SUPPLIES  
WHOLESALE.  
67 Bromfield St., Boston, Mass.

City Hall Cut Flower Market  
WELCH BROS., Props.  
Regular Customers Given Special Free of Charge. Space let to growers wishing to sell their own goods.  
Flowers Shipped to all Points.  
...SEND FOR PRICE LIST...

W. ELLISON,  
Wholesale Cut Flowers,  
Florial Supplies. Wire Designs.  
2744 Franklin Ave., ST. LOUIS, MO.

CHAS. G. FLECKENSTEIN,  
Wholesale Flowers,  
1323 PINE STREET,  
...ST. LOUIS, MO.

C. A. KUEHN,  
WHOLESALE FLORIST,  
1122 Pine St., St. Louis, Mo.,  
A COMPLETE LINE OF WIRE DESIGNS.

C. W. WORS,  
Wholesale Florist,  
913 N. LEFFINGWELL AVENUE.  
ST. LOUIS, MO.  
FINE ROSES—Shipped carefully to all parts of the country.

H. L. SUNDERBRUCH CO.,  
Wholesale Commission Florists,  
4th and Walnut Streets,  
CINCINNATI, OHIO.  
Consignments Solicited. Special Attention Given to Shipping Orders.

St. Louis  
Cut Flower Co.  
WHOLESALE  
FLORISTS,  
1620 Olive St.,  
ST. LOUIS, MO.

E. C. HILL & CO.,  
Wholesale Florists,  
RICHMOND, INDIANA.  
When Writing Mention Florists' Exchange

ASPARAGUS, PLOUMOS NANUS,  
W. H. BELLITT, - Brighton, Mass.  
When Writing Mention Florists' Exchange

Fine Smilax \$2.00 a hundred strings  
SWEET PEAS, 25 cents a hundred boxes.  
Cash with order. Pikesville, Md.  
W. KEIR,  
When Writing Mention Florists' Exchange

Galax Leaves.  
CHAS. H. RICKSECKER, Linville, N. C.  
When Writing Mention Florists' Exchange

... FOR FINEST ...  
Galax Leaves and  
Leucothoe Sprays,  
Always write the INTRODUCERS.  
Highlands Nursery, Kawana, N. C.  
When Writing Mention Florists' Exchange

COMPLETE LINE OF SUPPLIES  
WIREWORK  
WE  
IMPORTERS OF  
BULBS  
ALWAYS  
HAND  
FINE STOCK  
CUT FLOWERS  
ELLIS & POLLWORTH  
MILWAUKEE  
WIS.

When Writing Mention Florists' Exchange

Pittsburg.  
Dull Times.  
Dull times are here and very little is going on, existing funeral work. Stock is cheap and very abundant, particularly carnations, the retail price of which averages about 25 cents per dozen. Sweet peas are still held at 50 cents per hundred, but will soon drop. There is a dearth of cuttings on stock now. Candidum lilies are more plentiful than they have been for many years, but in little demand.  
Club Diseases Convention Matters.

The last regular Florists' Club meeting was quite an interesting one, and fairly well attended. Convention matters took up most of the time. A committee on transportation, consisting of E. C. Reineman, T. P. Leungans, E. C. Ludwig, was appointed to try to secure a better rate to Providence than the one and one-third certificate plan granted to the Society of American Florists. From present indications a very reasonable rate may be secured, and it might benefit those located west of Pittsburg, intending to go to Providence, to secure rate direct from Pittsburg. About twenty-five, so far, have intentions of going.  
A committee was also appointed to make arrangements for the first smoker to be given by the club at the first regular meeting in July, which promises to be very well attended. C. Blind was proposed for membership. Bowling with a like object and a team will certainly be on deck, as usual, with J. V. Ludwig in it, one of our heaviest bowlers to recently won several valuable trophies in contests.  
The News.  
J. E. Black, of Grove City, Mercer County, Pa., was in the city Wednesday. Alen Murdock, of A. M. & J. B. Murdock, has left for California, to be absent some time.

One of our wealthiest citizens, Mr. H. C. Frick, has broken ground for the erection of an iron, steel and stone conservatory on his place in the East End. The structure will be about 400 x 100 feet and will occupy a ground space of 150 x 200 feet. Messrs. Alden & Harlow prepared the plans.  
C. Hinkle is erecting more glass this season.  
E. C. REINEMAN.

Cut Sprigs, 10 to 12 feet long,  
50 cts. each.  
Shipped to any part of the country.  
W. H. BELLITT, - Brighton, Mass.  
When Writing Mention Florists' Exchange

Floral Park, N. Y.  
By the invitation of E. S. Miller, superintendent of John Lewis Childs' establishment, upwards of twenty horticulturists visited Floral Park on Wednesday, June 30, especially to see the four acres of Iris Kamfferi, which are now in flower. For magnificence and picturesque beauty, few gardens or bouffes describe. Individual blooms measured ten inches in diameter and fully one and a half pound, in many instances, twenty to twenty-five spikes. Fully one acre is covered with a white variety named Grand Bound, an excellent sort. Exquisite is, as its name implies, a charming variety pale mauve in color. Mahogany ranked as a grand late, dark purple. Blue Jay provides a fine change and variety. Two excellent whites for florists' use are Mrs. Saxon and Eclipse.  
The party, after carefully examining the collection of Iris, spent a pleasant time wandering through the 200 acres of hardy and other flowers, shrubs, etc., and the conclusion arrived at was that there need be no fear of the stock of hardy flowers running out while Mr. Childs has a large and fine collection and in such excellent condition. The visitors were entertained to lunch by the firm at the Floral Park Hotel.

SITUATIONS WANTED.

SITUATION wanted by a single man (German), to work in greenhouses, understands the care of boiler and can do odd jobs. Address P. O. Box No. 1969, Canada, Conn.

FOREMAN and manner wants situation, American, married, some experience grower. Christian people preferred. Address M. L. Galt, Florida's Exchange, Jacksonville, Fla.

SITUATION wanted by married man, thoroughly S understands the growing of cut flowers, especially peonies. For particulars inquire. Address Box 44, Grand Rapids, Mich.

I DESIRE to represent a leading wholesale florist and nursery to sell the trade in New England. Address Arthur W. King, 15 Arlington St., Hyde Park, Mass.

A D ROSE can recommend a first-class counter-claim and general line of Florists' plants. Address J. A. Ross, 200 West 45th St., Jersey City, N. J.

SITUATION wanted as assistant gardener or florist or taker of small private places and general work required. Good references. Address J. G. W. Williams, 114 West 45th St., New York City.

SITUATION wanted by married man, Scotch, so family; practical grower of cut flowers, bedding plants and vegetable and all work on a private case. Good references. Address W. W. Schmitz, Florist, 10 Clarkon St., Brooklyn, N. Y.

MISCELLANEOUS WANTS.

WANTED TO RENT OR PURCHASE 5000 FT. GLASS.  
Place must be in good condition.  
FLORIST, 1044 Washington St., Brody St., N. Y.  
When Writing Mention Florists' Exchange

WANTED  
Some YELLOW OLEANDERS. Can use large or small plants. State size, quantity and price.  
Address: W. H. B. GARDEN, Columbus, O.

WANTED.  
A No. 15 second-hand Hitchings Corrugated Boiler in good order. Address, stating price.  
P. A., Box 527, Greenwich, Conn.

WANTED.  
50 to 100 Second-hand Sash and Frames, must be in good order and cheap.  
FOR SALE. Emly Henderson and Blanche Buzzeo. See Post Office, 1000 Second St., New York City. No. 1000 Second St., N. Y. 10114 Sts. East 5th St., Lawrence, Brooklyn, N. Y.

WANTED.  
50 to 100 Second-hand Sash and Frames, must be in good order and cheap.  
FOR SALE. Emly Henderson and Blanche Buzzeo. See Post Office, 1000 Second St., New York City. No. 1000 Second St., N. Y. 10114 Sts. East 5th St., Lawrence, Brooklyn, N. Y.

WANTED.  
50 to 100 Second-hand Sash and Frames, must be in good order and cheap.  
FOR SALE. Emly Henderson and Blanche Buzzeo. See Post Office, 1000 Second St., New York City. No. 1000 Second St., N. Y. 10114 Sts. East 5th St., Lawrence, Brooklyn, N. Y.

WANTED.  
50 to 100 Second-hand Sash and Frames, must be in good order and cheap.  
FOR SALE. Emly Henderson and Blanche Buzzeo. See Post Office, 1000 Second St., New York City. No. 1000 Second St., N. Y. 10114 Sts. East 5th St., Lawrence, Brooklyn, N. Y.

When Writing Mention Florists' Exchange

HELP WANTED.

WANTED.  
Young man, must understand rowing, flower garden, etc. Apply with reference, Supt. Sewaugher, Mt. Kisco, N. Y.

FOUR MEN WANTED.

For four rose houses. Men to take charge under the supervision of foreman, of one house planted entirely with either of the following varieties: One of Beauty or Meteor. Only those who can grow these varieties successfully will be considered. Experience or references. Wages \$25.00 per month and board.  
DEAN & CO., Little Silver, N. J.

SECOND HAND MATERIAL.

FOR SALE.  
An upright Boiler, 8 horse power, can be used for steam or hot water, has 12 1/2 lbs. opening for flow and return. Boiler in the very 3rd condition, \$400 cash buys it. Address Greenhouse, Box 58, Springfield, N. Y.

Six Boilers For Sale

In good condition, at all prices.  
I also want small Hitchings Base Burning Water Heater, Gurney Defiance, or Furman Jr. For particulars address  
B. E. WADSWORTH, Danville, Ill.

FOR SALE.

A large also Albany Steam Trap will re-turn condensed water in from five to ten thousand feet of 1/4 in. steam pipe, back to boiler with return. Made of brass, and the boiler only on the trap, doing away with boiler traps. In good condition. Will sell for \$50 cash. Boxed weight, 350 lbs.  
Geo. H. Benedict, Yorkville, N. Y.

BUSINESS OPPORTUNITIES

GREENHOUSES FOR RENT  
13 Green St., New York City. 10,000 sq. ft. glass; established 20 years; business good; well practiced. Excellent chance for young man to start in business who understanding thorough cultivation will make money. Ample room every year. Exchange.  
Address: P. O. Box 157, New York City.

TO LET.  
A place with small houses, 2 acres one and a half with extensive lawn, etc. Excellent chance for young man to start in business who understanding thorough cultivation will make money. Ample room every year. Exchange.  
Address: P. O. Box 157, New York City.

FOR SALE.  
Shop for sale with 1000 ft. of little capital. Two greenhouses, two seasons lease, no opposition; will be excellent chance for young man to start in business who understanding thorough cultivation will make money. Ample room every year. Exchange.  
Address: P. O. Box 157, New York City.

FOR SALE CHEAP.

FIVE GREENHOUSES  
AT RAMSEYS, N. J.

HITCHINGS & CO., 233 Mercer St., N. Y.

FOR SALE AT A BARGAIN.

First-class greenhouse property at Spring Lakes, N. J., fully stocked and doing good business. For particulars address  
MILAN ROSS, Agency,  
Abery Park, N. J.

NEWPORT, R. I.

For sale, the property of the late Gilbert L. Ward, comprising more than 5 acres, just over the line in Middle-town, Rhode Island, situated bounded on the east by Easton's Pond, on the west by the Fall dam, and commanding an extensive unobscured scene of landscape, lake and ocean. For full description and particulars favorable terms will be accorded the right party. For particulars apply to  
A. W. VARD, Sole Agent,  
32 Clarke Street, Newport, R. I.

FOR RENT.

On the Most Favorable Terms.  
Nine houses modern construction, in first-class order, heated by hot water, as follows:  
One house, 65 x 26 feet.  
Two houses, 100 x 10 feet.  
Two houses, 100 x 25 feet.  
Two houses, 125 x 26 feet.  
Two houses, 100 x 20 feet.  
One house, 100 x 12 feet.  
One lean-to, about 400 x 6 feet.

This range embraces the houses made vacant by the sale of the property of the late Gilbert L. Ward, comprising more than 5 acres, just over the line in Middle-town, Rhode Island, situated bounded on the east by Easton's Pond, on the west by the Fall dam, and commanding an extensive unobscured scene of landscape, lake and ocean. For full description and particulars favorable terms will be accorded the right party. For particulars apply to  
A. W. VARD, Sole Agent,  
32 Clarke Street, Newport, R. I.

When Writing Mention Florists' Exchange

JOHN CONLEY &amp; SON,

MANUFACTURERS OF

**TIN FOIL**2 and 4 Dominick Street,  
NEW YORK.

When Writing Mention Florists' Exchange

**STANDARD POTS.**

We are now ready to supply a superior quality of Pots in unlimited quantities. Catalogues and price lists furnished on application.

**A. H. HEWES & CO.,**  
NORTH CAMBRIDGE, - MASS.  
When Writing Mention Florists' Exchange

**STANDARD  
FLOWER POTS**

In any quantity, and of the best quality. Get my price list before ordering elsewhere.

**W. H. ERNEST,**  
Station M. N. E., WASHINGTON, D. C.  
When Writing Mention Florists' Exchange

**HILFINGER BROS.  
STANDARD FLOWER POTS.**

We manufacture a full line of Standard Flower Pots, in 1 1/2, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000.

**HILFINGER BROS.,** Fort Edward, N. Y.  
or AUGUST ROLKE & SONS,  
528 to 530 24th St., N. Y. City

When Writing Mention Florists' Exchange

**EL PASO BRAND  
PURE SHEEP MANURE.**

ONCE TRIED, ALWAYS USED.  
Mixed liberally with the soil, nothing can equal it for results on **Pinks, Roses, Violets and CHRYSANTHEMUMS.**  
Used in liquid form it beats all others.  
\$5.00 per 100 lbs.; \$30.00 per ton.  
E. O. Heston, 500 lbs. at ton rate. Car load price on application.

**SCHLEGEL & FOTTLER,**  
26 So. Market St. BOSTON, MASS.

Send for our Import Prices on  
**DUTCH and FRENCH BULBS.**  
When Writing Mention Florists' Exchange

**Boston Florist Letter Co.**

This wafer has been recently standard and warranted, 10x20 size made in two sections, one for each side letter, given away with first order of 500 letters.  
Black Letters 1 1/2 or 2 inch size, per 100, \$2.00  
Small Letters \$1.00  
Patentee with each letter or word.  
List of leading florists everywhere and for sale by all wholesale florists and supply stores.

**N. F. MCCARTHY, Treas. & Manager.**  
of the CHEAP FRENCH SILKALINE  
imitations only our GREEN SILKALINE

**DO NOT BE HUMBUGGED**  
in using CHEAP FRENCH SILKALINE



Contains more cord and does more work than any other kind of the market. The original and a really made only by **JOHN C. MEYER & CO.,**  
47 Exchange Street, BOSTON, MASS., U.S.A.  
When Writing Mention Florists' Exchange

Market Good.  
**Providence.**

Owing to the annual closing of the various educational institutions in this vicinity and the number of fashionable weddings there has been a considerable briskness in the florist business and all have had a generous share of the work. This practically closes the business for the season which taken as a whole, has been a highly satisfactory one. Prices have ranged well, but the demand has been steady and the supply ample and of good quality.

**Preparing for the Convention.**  
The monthly meeting of the Florists and Gardeners' Club was held Friday evening, with the object of the annual convention in the Society of American Florists in this city during the third week in August.

William B. Hazard reported that the recent dance at the grounds of the Wescott-Hazard Dairy Farm netted the club about \$45, and President Macrae reported the club with \$93.25, on behalf of Mrs. Macrae and lady friends, as the proceeds of the lawn party held upon his grounds. The club adopted a seal, consisting of the coat of arms of Rhode Island surrounded by the name of the organization and the date of incorporation.

A letter was read from J. J. Butler, secretary of the Florists and Gardeners' Club of New York City, in which he stated that the latter club were making active preparations for the entertainment of the Florists' Club and the convention in Newport for one day, and asked that a conference be held between the two clubs in order that a suitable programme might be arranged. President Farquhar Macrae was appointed to represent the Providence Club at the proposed conference.

When the Executive Committee of the members of the Providence Club met here in March it was voted that the local club be invited to appoint one of its members to prepare an essay to be read before the convention on the subject, "The Year's Progress in the Retail Flower Business," and last evening the club selected Thomas J. Johnson, of this city, as the essayist. It was voted that steamer Day Star be chartered for the club and guests for the trip down the bay.

It was voted that subscription blanks be passed among the friends of the club for any assistance they might feel like contributing to the cost of the convention. The Rhode Island Horticultural Society has been invited to cooperate with the Florists' Club and every effort is being put forth to make the approaching visit of the Society of American Florists to Providence one long to be remembered. A committee consisting of James B. Canning, William E. Chappell and William B. Hazard, was appointed to procure the necessary music and President Farquhar Macrae, Thomas J. Johnson and Matthew J. Leach, of Pawtucket, were appointed to select a ladies' auxiliary committee.

The convention will be held in Music Hall during the third week in August, the sessions being held in the hall, while a trade exhibit is to be held in what is the billiard room below. William E. Chappell, of this city, superintendent of this exhibition, and already the number of applications for tickets is so large that it is difficult to display is assured. The convention will be opened at 9 o'clock Tuesday, August 7, and business will continue during the forenoon and afternoon. In the evening there will be a reception to President Adam Graham, of the national body. Wednesday and Thursday will be devoted to business sessions, with trips to various points of interest, while shooting and bowling tournaments will be held between teams representing various cities throughout the country. Friday will be given up wholly to pleasure, but no details have yet been made beyond a sail down the bay and a visit at Newport. These will be decided at a meeting of the Convention Committee of the local club Friday evening next.

**Notices.**  
W. C. Farnsworth, of Brooklyn, N. Y., representing the Ormsby Ventilating System, of Melrose, Mass., was in town last week.  
Alfred McCray has gone to his summer camp at Pleasant Bluff, overlooking Narragansett Bay. W. H. M.

**Clear Cypress  
Greenhouse Material.**

This with us means the best growth of Cypress Lumber and the best grade of that growth; and from this grade all the sap—bright sap, which only experts can detect—as well as stained sap, knots and other defects cut out. Others do not equal our quality if they do beat our prices. It is not hard to see the reason: You can not buy good dollars at fifty cents each. Experienced growers know that the best is not too good and cheapest in the long run.

Write for Circulars  
or Estimates.

**Lockland Lumber Co.,**  
LOCKLAND, O.

When Writing Mention Florists' Exchange

**Standard Flower Pots.**

Send for our New Price List with extra discounts. All our Pots, from 7 in. and upwards, have our Patent Escalator Bottom, which is a great advantage, as it means perfect drainage.

A FULL LINE OF BULB PANS.  
**THE WHILLDIN POTTERY CO.,** 713 to 719 Wharton Street, PHILADELPHIA.  
BRANCH HOUSES: J. Kearney and Westlake Ave., Jersey City, N. J.  
1 Jackson Ave. and Pearson St., Long Island City, N. Y.

**Emil Steffens** SUCCESSOR TO STEFFENS AND STEFFENS BRO.  
MANUFACTURER OF  
**FLORISTS' WIRE DESIGNS**  
AND SUPPLIES.  
ESTABLISHED 1866  
**335 EAST 21<sup>ST</sup> STREET, NEW YORK CITY.**

When Writing Mention Florists' Exchange

**FLOWER POTS**

We are Manufacturing a Full Line of  
**STANDARD FLOWER POTS and HANGING BASKETS**  
OF THE BEST QUALITY.

Shipping Facilities First-Class, thereby Securing Lowest Freight Rates.  
Our goods are well packed, and breakage is nominal. Give us a trial. Send for Price List.  
**Address THE SYRACUSE POTTERY CO., 403 N. SALINA ST., SYRACUSE, N. Y.**  
When Writing Mention Florists' Exchange

**S. A. F. TRADE EXHIBITION,**  
Providence, R. I., August 17, 18, 19, 20, 1897.

Now is the time to secure your space for the coming exhibition.  
Do not delay. There are good locations left for you.

For Terms, Etc., Apply to **WM. E. CHAPPELL, Supt.,**  
333 BRANCH AVENUE, PROVIDENCE, R. I.

When Writing Mention Florists' Exchange

**"48 to 1."****"JADOO" LIQUID**

Both Meats and Drink to Plants. Simply Invaluable in Pot Culture.  
The Best and Cheapest Fertilizer Made.

**"JADOO" FIBRE,** THE NEW MATERIAL IN WHICH  
Every Plant Thrives Without Earth,  
And which has proved as invaluable to the Grower as to Amateur Gardeners.

TESTIMONIALS AND PRICES FURNISHED ON APPLICATION TO  
**THE AMERICAN JADOO CO.,**  
Patented by U. S. Patent and Trade Mark.  
811 Fairmount Ave., PHILA., PA.  
When Writing Mention Florists' Exchange

**LORD & BURNHAM CO.,**  
**HORTICULTURAL ARCHITECTS AND BUILDERS,**  
**STEAM AND HOT WATER HEATING ENGINEERS.**  
 Plans and Estimates furnished on application.



Largest Builders of Greenhouse Structures. Six Highest Awards at the World's Fair. Send four cents postage for Illustrated Catalogue.

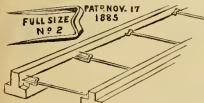
**LORD & BURNHAM CO.,**  
 ARCHITECTURAL OFFICE, 160 FIFTH AVE., COR. 21st STREET, NEW YORK.  
 Formerly 154 and 156 So. 21st Avenue. Factory Irvington-on-Hudson, New York. Mention paper

**GLASS!** For Greenhouses, Conservatories, Graperies, Hotbeds and all other purposes, at Lowest Rates.  
**N. COWEN'S SON** 392 & 394 West Broadway, New York.  
 Formerly 154 and 156 So. 21st Avenue. Estimates Freely Given  
 Get our Figures before buying Glass. When Writing Mention Florists' Exchange

**GREENHOUSE GLASS.**  
 THE WOOD GLASS COMPANY  
 226 N. SALINA ST., SYRACUSE, N.Y.

When Writing Mention Florists' Exchange

**CALIFORNIA RED CEDAR**  
 Never Degrades.  
**A. DIETSCHE & CO. 619 Sheffield Avenue, CHICAGO.**  
 MANUFACTURERS OF  
 RED CEDAR AND CYPRESS GREENHOUSE MATERIAL.  
 When Writing Mention Florists' Exchange

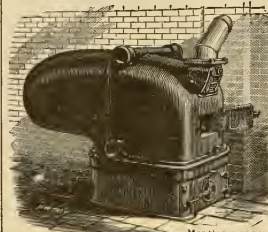


**THE VAN REYPER**  
**PERFECT GLAZIERS' POINTS**  
 No rights or lefts. Price per box of 1000, 60c. by mail, 75c.; in lots of 5000 by ex., 55c. per 1000  
**HENRY A. DREER, 714 Chestnut St., Phila., Pa.**  
 When Writing Mention Florists' Exchange

SEND FOR OUR NEW CATALOGUE, WHICH SHOWS  
**The New Automatic Cable Ventilator**  
 As it is put up in the house complete. We also give 75c. prices with a guarantee that each machine sent out will operate for years successfully. All machines now made in two sizes.  
**A. Q. WOLF & BRO., Dayton, Ohio.**  
 When Writing Mention Florists' Exchange

**FURMAN BOILERS**  
 especially adapted to  
**Greenhouse Heating.**  
 500 Styles and Sizes. Steam and Hot Water.  
 SAFE, SUBSTANTIAL, SIMPLE, ECONOMICAL.  
 Portable or Brick Set.  
**GREAT COAL SAVER.**  
 Send for catalogue. Estimates Free.  
**THE HERENDEN MFG. CO.,**  
 Illinois Office: 13 Fay St., Geneva, N. Y.  
 BRANCH OFFICES:  
 Boston, 54 Oliver St.; Philadelphia, 1019 Betz Bldg.;  
 New York, 28 Cortlandt St.; Milwaukee, 128 3d St.  
 When Writing Mention Florists' Exchange

**GREENHOUSE HEATING AND VENTILATING,**  
 Horticultural Architecture and Building.



**Hitchings & Co**  
 ESTABLISHED 1844.

233 Mercer Street, NEW YORK

**FIVE PATTERNS OF BOILERS,**  
 NINETEEN SIZES,  
 Perfect Sash Raising Apparatus.

Rosehouse, Greenhouses, Etc., of Iron  
 Frame Construction erected complete or  
 the Structural Iron Work shipped ready for erection.

Iron Frame Benches with the  
 "Perfect Drainage Bench Tie"  
 or Slat Tops.

SEND 4c. POSTAGE FOR ILLUSTRATED CATALOGUE.

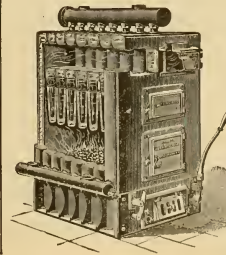
**TRADE GREENHOUSES.**  
 THE BEST MADE.

"Florists" Get Your Plans and Estimate from  
**PLENTY'S HORTICULTURAL WORKS,**  
 148-156 Randolph Ave., JERSEY CITY, N. J.  
 When Writing Mention Florists' Exchange

**STANDARD VENTILATING MACHINE.**  
 NONE EQUAL IT IN Strength AND Durability  
 NOTHING Flimsy OR Complicated about it.  
**E. HIPPARD, YOUNGSTOWN, OHIO.**  
 Send for Catalogue.  
 When Writing Mention Florists' Exchange

**MASTICA**

FOR GLAZING GREENHOUSES. SUPERIOR TO PUTTY IN EVERY WAY.  
 It not hardened by the extreme heat or cold that a greenhouse is constantly subjected to both inside and out. Mastica is adhesive and remains permanently elastic so that it is not forced out of place by expansion and contraction of the woodwork. Houses glazed with Mastica do not need re-glazing, thus saving time and expense. With Mastica can "bed-in" or use on the outside, but with a machine only.  
 Mastica and Mastica Glazing Machine were given  
**HIGHEST AWARD OF SOCIETY OF AMERICAN FLORISTS AT PITTSBURG, 1895.**  
 Put up in gallons, \$1.00. Half gallons, 60 cts. Quarter gallons, 35 cts.  
 Mastic Glazing Machines, \$1.00 each.  
 Send for full descriptive circular and testimonials. Agents in all the principal cities.  
**F. O. PIERCE CO., Sole Manufacturers, 170 Fulton St., New York.**  
 When Writing Mention Florists' Exchange



**ATTENTION, FLORISTS!**

It will be to your advantage to look into the merits of the Scollay "Invincible" Hot Water Boiler. It is all that its name implies, and don't forget it.  
 Cuts and full information mailed on application.

**JOHN A. SCOLLAY,**  
 74 & 76 MYRTLE AVE.,  
**BROOKLYN, NEW YORK.**  
 When Writing Mention Florists' Exchange

**GALVANIZED WIRE PLANT STAKES.**  
PURE GROUND BONE.  
**RUBBER HOSE. - PALMS.**


We can save you Dollars.  
**H. F. LITTLEFIELD,** Worcester, Mass.  
When Writing Mention Florists' Exchange

**FOR MILDOW AND BLACK ROT**  
on Roses, Fruits and Vegetables,  
and Carnation Rust.

**USE FOSTITE,** 3 pounds, 50 cts.  
25 pounds, \$2.00.  
**G. H. JOOSTEN,** Importer of PLANTS,  
193 Greenwich St., New York.  
When Writing Mention Florists' Exchange

**Chadborn's Automatic Ventilator**  
**CHADBORN, KENNEDY & CO.**  
NEWBURGH, N. Y.  
When Writing Mention Florists' Exchange

**VALVES, FITTINGS AND VENTILATING APPARATUS.**



**COLDWELL-WILCOX CO.,**  
Newburgh, N. Y.  
Mention paper.

**Erand's Improved Challenge.**



Roller bearing, self-oiling device, automatic self-oiling lubrication, makes the roller self-oiling. LEWIS the most perfect roller bearing in the world. Send for prospect before placing your orders else where.

**Quaker City Machine Co.,**  
RICHMOND, IND.  
When Writing Mention Florists' Exchange

**SUMMER IN WINTER**  
By Using  
**Standard Greenhouse Boilers**  
One cent goes our Catalogue.  
**GIBLIN & CO., - Utica, N. Y.**  
When Writing Mention Florists' Exchange

**CYPRESS GREENHOUSE MATERIAL**  
OF ANY DESCRIPTION.



**JOHN C. MONINGER CO.**  
412 to 422 WASHINGTON AV. CHICAGO, ILL.  
SEND FOR CATALOGUE.  
When Writing Mention Florists' Exchange

**IMPROVED GLAZING.**  
**J. M. GASSER'S PATENT ZINC JOINTS**  
For Butting Glass Without Laps.  
Makes a Good Air and Water Tight. Saves Fuel. No Breakage from Frost or Medium Sized Hail. Manufactured by  
**J. M. GASSER,**  
101 Euclid Avenue, CLEVELAND, OHIO.  
Wholesale and Retail Florist.  
Write for Prices and Circulars.  
When Writing Mention Florists' Exchange

**LARGEST AND BEST STOCK OF PREPARED CYCAS LEAVES**  
TO BE FOUND ANYWHERE

Metal Floral Designs, Sheaves, Doves, Baskets, Moss Wreaths, Wheat, Milkweeds, Cape Flowers, Wire Work, and all Florists' Supplies.  
Write for catalogue. Free to the trade.  
**A. HERRMANN, 404-412 East 34th Street (Near Ferry), New York,**  
Manufacturer of METAL FLORAL DESIGNS, Importer and Dealer in FLORISTS' SUPPLIES.  
When Writing Mention Florists' Exchange

**Florists' Supplies.**  
Largest Stock in the Country.  
All goods up to date, and of superior quality.  
Send for Illustrated Catalogue.  
**H. BAYERSDORFER & CO.,**  
56 N. FOURTH STREET, PHILADELPHIA, PA.  
When Writing Mention Florists' Exchange

**A GOOD HOSE IS A GOOD INVESTMENT**  
The best is the cheapest. To ascertain what a hose is worth, divide the cost per foot in number of years it will last. We are in the market to compete in number of years with anything that is manufactured. Free Hoses, per foot for 3/4 inch; Hoses, per foot for 1 inch hose.  
Address **J. G. & A. ESLER, Saddle River, N. J.**  
When Writing Mention Florists' Exchange

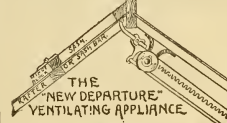
**BONE FLOUR** NO ADULTERATION NO AICIO  
References: Fred. Dörger & Sons Co., La Fayette, Ind.;  
John H. Taylor, Havana, N. Y.;  
E. H. Hill & Co., Richmond, Ind.;  
L. L. May & Co., St. Paul, Minn.  
**GEO. S. BARTLETT, 1255-1257 WEST 6TH ST., CINCINNATI, O.**  
SUCCESSOR TO CINCINNATI DESSICATING CO.

**GLASS** FOR GREENHOUSES, CONSERVATORIES, GRAPERIES, HOTBEDS AND FLORISTS' USE GENERALLY, AT LOWEST RATES.  
**L. HARRIS & SON,**  
497 W. BROADWAY, NEW YORK, 89 LIBERTY ST., NEW YORK  
Sole Locations and Exclusive Agts.

**GROW PLANTS IN "Jadoo" Fibre.**  
WATER THEM WITH "Jadoo" Liquid.  
When Writing Mention Florists' Exchange

**IF YOU WANT A GOOD SASH LIFT**  
For a Very Little Money Get

**THE "NEW DEPARTURE" VENTILATING APPLIANCE.**

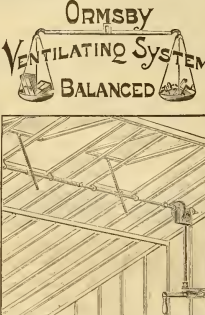


For Descriptive Catalogue send to  
**J. D. CARMODY, Evansville, Ind.**  
When Writing Mention Florists' Exchange

**CYPRESS DASH BARS**  
IS MUCH DURABLE THAN PINE.  
UP TO 12 FEET IN LENGTH OR LONGER.  
**GREENHOUSE AND OTHER BUILDING MATERIAL.**  
Send for our Illustrated Book "CYPRESS LUMBER AND ITS USES." Send for our Special Greenhouse Circular.  
**THE T. STEARNS LUMBER CO.,**  
Nepesin, Boston, Mass.  
When Writing Mention Florists' Exchange

Pays Well Even out of Season.  
My advt. in regard to the Model carnation sash etc. in your March 8th number, although out of season, proved a good investment.  
**THELON PARKER**  
Brooklyn, N. Y., March 30, '97.

**ORMSBY VENTILATING SYSTEM**  
BALANCED



**FLORISTS** Should refer back to the following pages and copies of the EXCHANGE and note my advertisements, they will do your soul good, (I should say your greenhouses):  
Page 364.... April 3..... 1897  
" 425.... April 24.... "  
" 487.... May 15.... "  
Pages 549, 559. June 5.... "  
**E. A. ORMSBY, Melrose, Mass.**  
When Writing Mention Florists' Exchange

**CHRYSANTHEMUMS** All the best standard varieties from \$2.00 per 100. Mrs. H. Robinson, \$3.00 per 100.  
**VIOLETS** California, Marie Louise, single white from 75 each pair, \$3.00 per 100.  
**MILAX** Strong bushy plants, 1 1/2 inch pots, \$2.50 per hundred; 2 inch pots, \$2.00 per hundred.

**C. EISELE, 11th & Jefferson Streets, Philadelphia, Pa.**  
When Writing Mention Florists' Exchange

**HAVE YOUR COLLECTIONS MADE** BY THE NATIONAL FLORISTS' BOARD OF TRADE, 271 BROADWAY, NEW YORK.  
When Writing Mention Florists' Exchange

**THE BEST FOR ALL Florists.**



FOR SALE BY Seed Store.  
For Free Pamphlet, write to LEONVILLE SPIRIT CO. TOBACCO CO. Louisville, Ky.  
When Writing Mention Florists' Exchange

**SAVE THE BLOOMS! NIKOTEN**  
DOES NOT INJURE SENSITIVE PLANTS USED FOR FUMIGATION OR SPRAYING, INDOORS OR OUT.  
200 POUNDS REBAGGED IN ONE PLY METER.  
Price \$1.50. ALL SEEDSMEN.  
When Writing Mention Florists' Exchange

**CHOCOLATE COOLER CO.,**  
GRAND RAPIDS, MICH.  
Manufacturers of  
**FLORIST'S REFRIGERATORS.**  
Send for Circular.  
When Writing Mention Florists' Exchange

**BEE & WATER**  
Manufacturers of  
**FLORISTS' WIRE NETS**  
NEW PATENT WIRE NETS



TELEPHONE 1782 18TH ST.  
When Writing Mention Florists' Exchange  
**WELCH BROTHERS,**  
DEALERS IN  
**FLORISTS' SUPPLIES,**  
15 Province Street, BOSTON.  
9 Chapman Place.

Wire Designs, What Sheaves, Baskets, Iron-moulds, Cape Flowers, Cut Flowers, Boxes and all other supplies, at prices to meet competition.  
When Writing Mention Florists' Exchange

**M. RICE & CO.,**  
Importers and Manufacturers of  
**FLORISTS' SUPPLIES.**  
25 N. 4th St., Philadelphia, Pa.  
NEW FALL CATALOGUE NOW READY  
When Writing Mention Florists' Exchange

**SHEEP FERTILIZER!**  
PULVERIZED. COMPRESSED.  
A Quick G-rminator and Crop Forcer.  
NATURAL. CHEAP. CLEAN TO HANDLE.  
**JOHN J. PETERS CO., Long Island City, N. Y.**  
When Writing Mention Florists' Exchange

**SHEEP MANURE.**  
We have the finest, prepared, at \$35.00 per 100 lbs., 1/2 ton at ton prices.  
**CODFERY ASCHMANN,**  
1012 Ontario St., PHILA., PA.  
When Writing Mention Florists' Exchange

# THE FLORISTS' EXCHANGE

We are a straight shoot and aim to grow into a vigorous plant.

A WEEKLY MEDIUM OF INTERCHANGE FOR FLORISTS, NURSERYMEN, SEEDSMEN AND THE TRADE IN GENERAL.

VOL. IX. NO. 28.

NEW YORK, JULY 10, 1897.

One Dollar Per Year.

## ..PALMS..

Owing to one stock being grown with plenty of air the plants are all strong and sturdy, and will bear transportation for long distances. Florists intending to purchase this class of stock for their fall trade will do well to place their orders immediately, so that they can have them shipped by freight, thus avoiding the excessive express charges which they would have to pay if shipped during the cold weather. The prices will also be very much higher in the fall than at the present time, owing to the high duty which will probably then be in force.

### ARECA LUTESCENS.

4 inch pots, 15-18 inches high, 3 plants in a pot.....\$5.00 per dozen; \$25.00 per 100  
5 inch pots, 20-24 inches high, 3 plants in a pot.....\$6.00 per dozen; \$30.00 per 100

### KENTIA BELMOREANA.

3 inch pots, 8-12 inches high, 4-5 leaves.....\$3.50 per dozen; \$25.00 per 100  
4 inch pots, 12-15 inches high, 4-5 leaves.....\$5.50 per dozen; \$30.00 per 100  
5 inch pots, 15-20 inches high, 5-7 leaves, stocky.....\$7.00 per dozen; \$35.00 per 100  
6 inch pots, 20-24 inches high, 5-7 leaves, stocky.....\$12.00 per dozen; \$60.00 per 100

### KENTIA FORSTERIANA.

3 inch pots, 12-15 inches high.....\$1.50 per 100  
4 inch pots, 15-18 inches high.....\$4.50 per dozen; \$25.00 per 100  
5 inch pots, 20-24 inches high.....\$9.00 per dozen; \$55.00 per 100

### LATANIA BORBONICA.

3 inch pots.....\$10.00 per 100  
4 inch pots, 12-15 inches high.....\$3.00 per dozen; \$25.00 per 100  
5 inch pots, 15-18 inches high.....\$6.00 per dozen; \$30.00 per 100  
6 inch pots, 18-20 inches high, stocky plants.....\$9.00 per dozen; \$50.00 per 100

**COCOS WEDDELIANA.** 3 inch pots.....\$3.00 per dozen; \$25.00 per 100

**LIVISTONA HOOGENDORPII.** 4 inch pots, 10-12 inches high, 7 leaves, \$4.50 per dozen; \$35.00 per 100

**LIVISTONA ROTUNDIFOLIA.** 5 inch pots, 12-15 inches high, 7-8 leaves, among plants, \$1.50 each; \$18.00 per dozen.

**PHENIX RECLINATA.** 6 inch pots, 15-16 inches high.....\$6.00 per dozen; \$45.00 per 100

## PITCHER & MANDA, Short Hills, N. J.

JOHN N. MAY, Receiver.

When Writing Mention Florists' Exchange

## WINTER FLOWERING ROSES.

Our stock of these is very large, and is exceptionally fine shape. We offer all the leading varieties, strong plants in 2 1/2 in. pots, as follows:

**PERLE, BRIDESMAID, BRIDE and MME. CUSIN.**  
\$5.00 per 100; \$40.00 per 1000.

**MME. CAROLINE TESTOUT and MRS. PIERPONT MORCAN.**  
\$6.00 per 100; \$50.00 per 1000.

**AMERICAN BEAUTY.**  
\$9.00 per 100; \$80.00 per 1000.

**PRESIDENT CARNOT.**  
\$15.00 per 100; \$125.00 per 1000.

We have a fine stock, also, of the new climbing

**YELLOW RAMBLER ROSE**

The only hardy yellow climbing rose yet introduced. A worthy competitor to the wonderful Citron Rambler.

Strong plants, 2 1/2 in. pots, \$1.50 per doz.; \$16.00 per 100.

Strong plants, 3 1/2 in. pots, \$3.00 per doz.; \$30.00 per 100.



The above Rose Stock is in perfect shape and will please the most fastidious. Samples sent if desired. We invite inspection of stock.

## DOUBLE TUBEROUS BEGONIAS

We offer only the stock we have as usual at \$3.00 per 100; \$25.00 per 1000.

This is only the price of ordinary Single Begonias, and considerably below cost. We offer at this nominal price only in order to close out stock we have left.

We have a sure-**TUBEROSE PEARL** Extra quality bulbs, 4 inches in circumference, perfect shape, 50c. per 100; \$4.00 per 1000

**SPEAK QUICK IF YOU WANT THESE BARAINS.**

Our Wholesale List of Palms, Decorative Plants, etc., will be sent free on application.

## F. R. PIERSON CO.,

TARRYTOWN-ON-HUDSON, NEW YORK.

When Writing Mention Florists' Exchange

## 1000 METEOR ROSES

For \$75.00; \$8.00 per 100. Fine, Strong, Clean Stock.

## 1000 NEW CANNA AUSTRIA

For \$80.00; \$10.00 per 100. Fine Stock.

**PALMS, FERNS and DRACÆNAS** of every Kind, Size and Price. **BAY TREES** all Sizes. All for the Trade.

## FRESH PALM SEEDS JUST ARRIVED

**KENTIA BELMOREANA**, . . . \$7.50 p r 1000.

**SEAFORTHIA ELEGANS**, . . . \$5.00 per 1000.

## SIEBRECHT & SON,

Rose Hill Nurseries, NEW ROCHELLE, N. Y.

When Writing Mention Florists' Exchange

## Special Offer to Close Out CANNAS—Fine Strong Stock.

	Per 100	Per 1000
From 3 and 4 in. pots—		
200 Mme. Crozy, . . . . .	\$1 00	
200 Chas. Henderson, . . . . .	4 00	
150 J. C. Vanzhar, . . . . .	5 00	
75 Sour. de A. Crozy, . . . . .	8 00	
STARTED PLANTS—1000 Mme. Crozy, . . . . .	3 00	
50 Star of '91, . . . . .	3 00	
100 St. Hilaire, . . . . .	2 00	
100 Austria, . . . . .	6 00	
BURBANK, . . . . .	75c. each.	
DORMANT ROOTS—Bouvier, Mme. Crozy, and Chas. Henderson, . . . . .	2 00	\$15 00

## CHRYSANTHEMUMS—\$2.50 per 100; \$20 per 1000.—

Major Bonaffon, E. Duillecouze, Gladys Spaulding, The Queen, Mrs. Perrin, Ivorie Rose, W. H. Lincoln, Wm. Simpson, Miss Johnson, Merry Monarch, W. C. Egan, Erminilda, W. N. Rudd. **\$4.00 per 100; \$35 per 1000.**—S. T. Murdock, Phryne, Violet King, Liberty, Mrs. Battles, Tippecanoe, Mrs. W. P. RAYOR, E. A. Kimball, F. B. Hayes, Red Warrior, Peabody.

## GERANIUMS—500 Beaute Polveine, from 4 in. pots, at \$4 per 100. From 2 1/2 in. pots, at \$2.50 per 100; \$20 per 1000.—Henri de

Bonnier, Crystal Palace Gem, Madonna, Marvel, La Fontaine, Mrs. J. M. Gaar. At \$3 per 100; \$20 per 1000.—Mrs. E. C. Hill, Mme. Buchner, Mme. Ch. Motin, Mrs. A. Hane, S. A. Nutt, Leonard Kelway, Gettysburg. At \$8 per 100.—Mme. de la Roux, Mme. Jaulin, Mme. Bruant, and Alph. Ricard.

**BEGONIA VERNON—Fine 3 inch Stock.** \$2.50 per 100, \$30.00 per 1000.

**BOSTON FERN—Strong 2 1/2 in. Stock.** (July Delivery). \$5.00 per 100; \$40.00 per 1000

## THE COTTAGE GARDENS, QUEENS, N. Y.

When Writing Mention Florists' Exchange

SEASONABLE SEEDS!



PRIMULA FIMBRIATA (Chinese Primrose). Rubra (Red), Alba (White), Alba Magnifica, Rubra Violacea, Chloanthina, Red Meteor, Village Maid or Choice Mixed. Trade Packages, 50c. and \$1.00.

CINERARIA

Hybrida Grandiflora choice mixed. Extra Fine Dwarf Mixed Grandiflora Kermissia, Dbl. Flowering. Trade Packages, 50c. and \$1.00.

CALECOLARIA

Hybrida Grandiflora, choice mixed. Trade Packages, 50c. and \$1.00.

WM. ELLIOTT & SONS NEW YORK.

When Writing Mention Florists' Exchange

BURPEE'S SEEDS logo with Philadelphia and Wholesale-Price-List for Florists and Market Gardeners.

TURNIP SEED, VARIETIES. COLUMBER SEED, best for Pickling. First consignment of our "SURE CROP" ENGLISH MUSHROOM SPAWN just arrived. Quality better than ever. Prices right to Dealers. Seed Merchants and Growers. WEBER & DON, and Growers, 114 Chambers St., NEW YORK CITY.

PAY Seed logo and table of prices for Chamomile, Phenix, and Phenix-Magnolia seeds.

J. L. SCHILLER, Rutherford, N. J. When Writing Mention Florists' Exchange

P. OUWERKERK, 1123 Summit Ave., Jersey City, N. J.

Just received from our Holland Nurseries:

- RHODODENDRONS, AZALEAS, SPIRÆA JAPONICA, LILIUUM SPECIOSUM, PÆONIES, LINDLEIGH HEART, POT GROWN LILACS, HYDRANGEA IN SORTS, CLEMATIS and H. P. ROSES, in the best sorts

PRICES MODERATE. When Writing Mention Florists' Exchange

...PANSY SEED...

Mixed together of Bugnot, Cassier, Odier, Frimdarken and many other varieties... 1/2 oz., \$2.00; 1 oz., \$3.50. SALIXAN (from 250 lb. pots) per 100, \$1.00 ALTERNATIFLORA, yellow " " 2.75 GERANIUMS, mixed, 3 in. pots " 2.75 FRIEDRICKS, 2 inch pots " 2.50

With Cash on order. JOS. H. GUNNINGHAM, DELAWARE, OHIO. When Writing Mention Florists' Exchange

Fresh Seeds—Calla Bulbs.

Apple Geranium (true), 25 cts. pkt., \$1.00 per 100 seeds; \$7.20 per 10,000 seeds. Musa Ensete, 10 cts. per 100 seeds; \$6.00 per 100 seeds. Scytharia Elegans, 40 cts. per 100 seeds; \$3.00 per 1000 seeds. Cyrtus Alternifolius, 25 cts. per pkt., \$1.00 per oz.

Phorinium Tenax, 25 cts. per 100 seeds; \$1.00 per 1000 seeds. P. Tenax Variegata, 50 cts. per 100 seeds; \$2.00 per 1000 seeds.

Also phila Australis (True Fern), 50 cts. 50 cts. Sent for prices on Calla Lilies, August and September delivery. Send for Trade List of Novelties and Specialties for Autumn delivery. MRS THEODOSIA B. SHEPHERD, Ventnor, N.J., the Sea, Cal.

When Writing Mention Florists' Exchange

SEEDS KENTUCKY BLUE GRASS (POA PRATENSIS).

MAS. E. PRUNTY, CHAS. E. PRUNTY, SAINT LOUIS. When Writing Mention Florists' Exchange

SEEDS HERR'S PANSIES

Are the Best. Seed, \$1.25 per 1/4 ounce. Plants, \$5.00 per 1000; 75c. per 100; 2500 for \$10.00. ALBERT M. HERR, LANCASTER, PA.

When Writing Mention Florists' Exchange

BULBS, ROOTS, and DECORATIVE PLANTS,

For Fall Delivery, Now Ready. Send for Catalogue. F. W. O. SCHMITZ, JERSEY CITY, N. J.

When Writing Mention Florists' Exchange

ALLEN'S DEFIANCE MIGNONETTE

New Crop. Growing Outside and Looking Fine, will be Ready August 1st. This stock, all grown from special selected spikes and is sure to prove good under proper treatment, 1.00 per oz.; 90 cts. per packet.

Still a little of the original crop left which will germinate about 90 per cent, at \$1.00 per pkt. CHARLES H. ALLEN, FLORAL PARK, N. Y.

When Writing Mention Florists' Exchange

PRIMULA SINENSIS SEED

The Wm. Scott strain grown by Wm. Scott, Buffalo, includes: Our "GREAT SCOTT MIXTURE" from assortment of 10 varieties. Also 4 SEPARATE COLORS, Single White, Pink, Red and Double Red. Sold only in sealed Trade Packets, at each, 60 cts. Liberal reductions on larger orders as per Free Priced Circular List, for which apply to Sales Agent.

DAN'L B. LONG, Jobbing Florist and Growers' Agent, Buffalo, N. Y. When Writing Mention Florists' Exchange

H. H. BERGER & CO., (ESTABLISHED 1878.)

Importers and Exporters of Bulbs, Seed, Pals, Rare Shrubs from the United States, Japan, Australia and Europe. Sole and exclusive agents for the EASTERN STATES from their office in New York City. Address all letters to 220 Broadway, (Rooms N and O, 13th floor), New York. Business for the PACIFIC COAST will be heretofore receive attention. Addressed H. H. BERGER & CO., San Francisco, Cal.

READY FOR JULY AND AUGUST.

FREEMIA (Large sizes are very scarce). CALLA ETHIOPIACA (Send orders NOW). LITTLE GEM CALLAS (Improved variety). A REAL GEM. LIL. LONGIFLORUM EXIMIUM, the Best for Forcing. Produces more flowers than the common sort.

When Writing Mention Florists' Exchange

Pansies Worth Raising.

NEW CROP SEED. Exceptionally well developed, can be had now in packages containing about 3.00 seeds for \$1.00 per package. CASH WITH ORDER.

G. Soltz & Co., 109 Grant Jersey City, N. J. When Writing Mention Florists' Exchange

PANSIES! SEED + SEED

NEW CROP NOW READY. ROEMER'S SUPERB PRIZE PANSIES.

This strain includes all the leading varieties, Dales, Cassier, Bugnot and Fatalella mixture: the qualities of these varieties are so well known as to render description unnecessary. Mixed, per packet of 250 seed, \$1.00; \$4.00 per oz.; \$1.00 per 1/4 oz. \$1.25 per 1/2 oz. White, yellow and black, in separate colors, \$1.00 per packet. Plants ready September 15th. Cash with order.

PETER BROWN, Wholesale Pansy Grower, LANCASTER, PA. When Writing Mention Florists' Exchange

VAUTIER'S MAMMOTH PANSY.

New crop seed now ready. This is the largest and truest Mammoth variety. It has the largest and truest 20 petals heretofore this strain. We have testimonials from horticulturists of all countries that it is superior to all others. Trade pkt., \$1.00; 100, \$4.00. Cash with order.

H. G. FAUST & Co., 614 & 616 N. Front St., Newark, N. J. When Writing Mention Florists' Exchange

ROEMER'S SUPERB PRIZE PANSIES.

The finest strain of Pansies in the World. Introducer and Grower of all the leading Novelties in this class. Awarded, International Exhibition, Philadelphia, 1876. Medal and Diploma of Honor. FRED. ROEMER, Seed Grower, Quedlinburg, Germany.

When Writing Mention Florists' Exchange

PANSIES.

Bugnot, trade pkt., 25c. 100, \$4.00. King Tricolor, yellow, 25c. 100, \$4.00. Giant Tricolor, mixed, 25c. 100, \$4.00. Cassier, trade pkt., 25c. 100, \$4.00. True, 25c. 100, \$4.00. Fatalella, trade pkt., 25c. 100, \$4.00. Dales, trade pkt., 25c. 100, \$4.00. Double mixed, 25c. 100, \$4.00. Double mixed, 25c. 100, \$4.00. Double mixed, 25c. 100, \$4.00. Double mixed, 25c. 100, \$4.00. Double mixed, 25c. 100, \$4.00. Double mixed, 25c. 100, \$4.00.

Those used seed and get new varieties. C. G. Williams, 25 cents, 25c. alium grandiflorum, 25 cents, 25c.

Cash or Credit, Trade List Free. COMB AND SEND ME.

H. BAUILLON, Belmont Ave., WOODHAVEN, N. Y. Selling Agent for Ch. Brill, Lyons, France. Catalogue free. When Writing Mention Florists' Exchange

NEW CROP SEED NOW READY

GIANT MARKET and GIANT FANCY STRAINS, in trade packets, at \$1 each. Printed directions with every package.

DENYS ZIRNGIBEL, Neoham, Mass. When Writing Mention Florists' Exchange

PANSY SEEDS

The best commercial strain for general use is the DIANORUS STRAIN. Large flowers, thick velvety petals, and the greatest variety of rich colors and markings. Once used, it is never again used. Sent from American grower, and it grows.

From S. T. YARNAB, Professor of Horticulture at the Mass. Agricultural College and president of the Horticultural Society of the Hort. Exh. 1876. Boston, August, 1887—"It gives me pleasure to say that your Pansy seeds have done well. It gives me even greater."

Price, over fifty distinct sorts and an endless variety of markings, all sold per 1/2 oz., \$1.00; 3/4 oz., \$1.75; 1/2 oz., \$3.00; 100, \$5.00. Cash with order. 200, \$9.00. Sent from American grower.

L. W. GOODELL, PARK, DWIGHT, MASS. When Writing Mention Florists' Exchange

SEED PANSIES

THE JENNINGS' STRAIN

of finest American grown Pansy seed now grown from seeds saved from the very finest selected plants, all large flowering, in great variety and most pleasing colors; without doubt the finest strain in the market to-day. The following complimentary letter from one of our many correspondents: "I am very glad to hear that you are growing the Pansy Seed selected by you last August. The Pansy Seed selected by me has given me very fine flowers in the first-class. Send me one of the same size as soon as you are ready." Truly yours,

Yours truly, J. W. GOODELL, PARK, DWIGHT, MASS.

When Writing Mention Florists' Exchange

SEED PANSIES

THE JENNINGS' STRAIN

of finest American grown Pansy seed now grown from seeds saved from the very finest selected plants, all large flowering, in great variety and most pleasing colors; without doubt the finest strain in the market to-day. The following complimentary letter from one of our many correspondents: "I am very glad to hear that you are growing the Pansy Seed selected by you last August. The Pansy Seed selected by me has given me very fine flowers in the first-class. Send me one of the same size as soon as you are ready." Truly yours,

Yours truly, J. W. GOODELL, PARK, DWIGHT, MASS.

When Writing Mention Florists' Exchange

SEEK THE REPORT.

Potato and information from seedmen, and all interested in this column, notified. Address EDWARD... P.O. Box 1677, New York.

The Free Seed Record Broken.—Over 2000 packages of vegetable, flower and field seed have been distributed by the Department of Agriculture...

This is the largest distribution of seed ever attempted by the Department of Agriculture, and it is said that it is the largest...

The distribution of seed in 1893 and 1894, 8,800 packages for the member of Congress, at a total cost of \$95,548, in 1894 each Congressman got kind...

Philadelphia.—Mr. W. Altie Burpee and English and English are the partners per steamship Germanic, of the White Star Line, on Wednesday, July 7.

Early Consignments of Lilies.—Bermuda lilies have been received in small parcels by several stores and dealers...

California Seeds.—The weather of late has been cool, causing everything to take on a better appearance. It certainly has a beneficial effect on everything that is in bloom...

Union Crop.—This crop is now in bloom and what heads there are are filling out. Late frosts and heavy dews at this season caused the bloom to burn and this year was very poor.

Hyacinths.—This crop is not yet dried, but under the influence of the hot tropical heat are maturing very rapidly. On the whole, they promise to be fairly good...

Spinach.—This crop is just about harvested. The crop was somewhat small. The crop was just a fair one. Lettuce is now in bloom and if the weather improves there will be no shortage.

Sweet Peas.—This crop has come very early this year; in fact, some pieces are now on the sheets ready to be thrashed and packed.

W. Altie Burpee & Co.'s new varieties show up very well. Aurora is one of the best. Triumph resembles Goldenfaint of Honor is an improvement on Butterfly and ought to replace this variety...

California growers have had no trouble in germinating Cupid this year. All small quantities of seed of this variety is remarkable how long this little imp keeps up its bright appearance.

European Notes.—Crops suffer by storms. The clerk of the weather appears to have fairly lost his head over the Diamond...

The work of digging up the tulips in Holland goes on apace and the effect of the dry, cold weather in May is very apparent, in the limited number of flowers that have been exposed.

The work of digging up the tulips in Holland goes on apace and the effect of the dry, cold weather in May is very apparent, in the limited number of flowers that have been exposed.

Hyacinths.—This crop is not yet dried, but under the influence of the hot tropical heat are maturing very rapidly. On the whole, they promise to be fairly good...

pears to be dying out. It is held by many that the yellow disease is fostered in this way.

In spite of the higher prices noted in the sale of bulbs, held in no green auction, the quotations of the dealers are lower than ever, and even now it is not certain that rock bottom has been reached.

Narcissi are in much the same condition respecting diseased bulbs are equally numerous. Over-fording is one of the principal causes of the pest, as it has been proved that fair, ordinary garden soil produces the best bulbs and the finest flowers. Lily of the valley crocus are very variable in quality and great care will have to be used in their selection.

Visitor.—Chas. C. Massie, secretary Northrup, King & Co., Minneapolis, is in Europe.

EUROPEAN SEEDS.

Heating by Coil Boiler.—I have a new coil boiler about five feet in length, three feet in height and twenty-eight inches wide, composed of 31 pieces of 1 1/2-inch pipe, each 4 feet long; 72 return bends and two 3-inch return headers...

What style of grate would be best to use with this boiler? In the bottom of boiler should it be placed? How much glass should this boiler be able to take care of...

—Set the grate so as to have fourteen inches in the clear for an ash pit and brick in the coil, leaving about two inches on all sides, with six or eight inches in the clear for the rods through which the tubes can be cleaned.

Headquarters for Pallas and Fresia Bulbs.—If you want the very best Dahlias that bloom, send for our 1897 descriptive trade list now ready. Address W. P. PEACOCK, Dahlia Specialist, ATCO, N. J.

Headquarters for Pallas and Fresia Bulbs.—If you want the very best Dahlias that bloom, send for our 1897 descriptive trade list now ready. Address W. P. PEACOCK, Dahlia Specialist, ATCO, N. J.

Heating by Circular Coil Boiler.—I am using in my small greenhouse a circular 20x55 feet. I can get a circular coil 2 inches inside diameter, 24 inches outside diameter and 30 inches in length. Will the coil be large enough to heat the house...

Fertilizers.—Bulletin 45. Hatch Experiment Station, Amherst, Mass. THE AMERICAN TUB.—Bulletin 46 of the same station is the most interesting pamphlet on the habits and economic value of this botanical...

GLUCAS & BODDINGTON CO., Importers, Exporters and Growers Agents of Plants, Seeds and Bulbs, 501 and 603 W. 13th St., Telephone Call, 403 18th St. NEW YORK CITY.

...SPANISH IRIS... BLUE BEAUTY \$1.00 per 100; \$7.50 per 1000. DAFFODILS and NARCISUS Mrs. I. W. KERSEY, Pat. Daff. Gardener, Hayward, Cal. When Writing Mention Florists' Exchange

MAMMOTH PANSY. American grown. It contains the cream of the cream from the Giant Primardene, Cassio, Omer, Rosen Schoss, Strain, and the Mammouth after the Fairy German Giant Strain, the same, making for every flower, it will stand the longest time in the market to date... \$1.00 per 100; \$7.50 per 1000. SHELLROD GREENHOUSE CO., North Point, Md. When Writing Mention Florists' Exchange

BUY FROM THE GROWERS DIRECT ALL BULBS AND PLANTS For Summer and Fall Delivery, Quoted at Very Low Rates. FREE ON BOARD CARS OR BOATS NEW YORK CITY. HULSEBOSCH BROS., Englewood, N. J. When Writing Mention Florists' Exchange

Prize-Winning PALLAS AND FREZIA AN UNPRECEDED RECORD.

23 First Prizes, Certificate of Merit, 2 Diplomas, and highest mention awarded in the New York Horticultural Exhibition, 1894. If you want the very best Dahlias that bloom, send for our 1897 descriptive trade list now ready. Address W. P. PEACOCK, Dahlia Specialist, ATCO, N. J.

W. P. PEACOCK, Dahlia Specialist, ATCO, N. J. When Writing Mention Florists' Exchange HEADQUARTERS FOR Pallas and Fresia Bulbs. PAMPAS PLUMES, Palm, California Tree and Flower Seeds.

Please let us book your orders for BULBS at once. ... ASK FOR SPECIAL PRICES.

GERMAIN FRUIT CO. Los Angeles, Cal. When Writing Mention Florists' Exchange

THE EXPERIMENT STATIONS. FERTILIZERS—Bulletin 45. Hatch Experiment Station, Amherst, Mass.

THE AMERICAN TUB.—Bulletin 46 of the same station is the most interesting pamphlet on the habits and economic value of this botanical...

THE ARMY WORK.—Bulletin 133. Cornell University, Ithaca, N. Y. NEW YORKERS UNDER GRASS.—Bulletin 134. Cornell University, Ithaca, N. Y.

# SMILAX

35,000 Inc 2 in. Smilax, \$3.00 per 100; \$12.50 per 1000.  
BETSCHER BROS., CANAL DOVER, O.

# ALMANDA GRANDIFLORA

From 4 inch pots, \$2.00 per 100.  
ASTER PLANTS—Choicest, elegant, Simple's Branching Chrysanthemum flowering, imported to our seeds, and Oct. 25th condition, \$1.00 per 100.  
SMILAX—Strong plants from pots, \$1.00 per 100.

JOHN C. EISEL, PHILADELPHIA, PA.  
20th & Ontario Sts., Philadelphia, Pa.  
When Writing Mention Florists' Exchange

# Ampelopsis Veitchii.

POT-GROWN SEEDLINGS,  
\$3.00 per 100; \$25.00 per 1000.

J. KADLETZ, P. O. Box 170, Dongan Hills, N. Y.  
When Writing Mention Florists' Exchange

# AMPELOPSIS VEITCHII

Strong, healthy, young plants, \$3.00 per 100.  
Dwarf Strain (Cereus-like), 3 inch, in bud and bloom, \$1.00 per 100.  
Climax, 4 inch, in bud and Golden Bedder, \$2.50 per 100, \$2.00 per 100.  
Climax, 4 inch, \$1.50 per 100.  
Will Exchange for Perle Ross, La Favorite and all best varieties of other plants.  
EVERITT & INSALL, Hackettstown, N. J.  
When Writing Mention Florists' Exchange

# SMILAX!

2 1/2 inch best of stock ready for planting,  
\$2.00 per 100; \$18 per 1000.

ADOLPH G. FEHR, Belleville, Ills.  
When Writing Mention Florists' Exchange

# ASPARAGUS PLUMOSA NANA

Strong, well-grown plants, from 2 1/2 inch pots, \$5.00 per 100. Satisfaction guaranteed.

A. B. DAVIS & SON, Purcellville, Va.  
(NEAR WASHINGTON, D. C.)  
When Writing Mention Florists' Exchange

# STRONG and WELL GROWN SMILAX PLANTS

out of 2 1/2 in. pots, \$5.00 per 100; \$15.00 per 1000. Cash with order. Satisfaction guaranteed or money refunded. Address:

FRED. SCHNEIDER, Cleveland, Ohio,  
751 Crawford Road,  
When Writing Mention Florists' Exchange

# SMILAX PLANTS

5 in. strong, healthy, \$12.50 per 100; \$117.00 per 1000; \$1.00 per 100; \$12.50 per 1000; \$1.00 per 100; \$12.50 per 1000.

CLERRY. (Transplanted from White Plumb and Giant Pascal, \$2.00 per 100. SATIN FLOWER condition, \$1.00 per 100; \$10.00 per 1000.)  
Yacht crown, strong, Fother's Stenwick and Large Redwood, \$2.00 per 100; \$18.00 per 1000. Cash with order please.

R. KILBURN, — Clinton, N. Y.  
When Writing Mention Florists' Exchange

# SMILAX

Strong leaves 1 year old, plants 3 1/2, \$1.00 per 100, strong plants 1 year old, \$1.25 per 100; \$10.00 per 1000.

A. B. REICHSUM—Pots, double and single on 750 and single knobs, 2 1/2, \$1.00 per 100; \$10.00 per 1000.  
ADANTUM REGALIS—Indispensible for floral work, \$1.00 per 100.

F. A. BALLER, Bloomington, Ill.  
When Writing Mention Florists' Exchange

# GREAT REDUCTION IN PRICES FOR TWO WEEKS.

30,000 SMILAX, strong, 2 inch pots, \$1.25 per 100; \$10.00 per 1000.

50,000 CELERY PLANTS, from seed bed, 6 to 8 in. high, White Lung, White Perfection and Golden Self-Blanching, per 1000, by mail, \$1.00.

Cash with order.  
GEORGE J. HUGHES, Berlin, N. J.

When Writing Mention Florists' Exchange

# Nephrolepis Exaltata Bostoniensis.

In large and small quantities from \$40.00 to \$80.00 per 1000.  
MINE IS THE GENUINE STOCK.

FRED. C. BECKER, 1730 Cambridge Street, CAMBRIDGE, MASS.  
When Writing Mention Florists' Exchange

# PALMS

LATANIA HORBONICA.....3 inch pots, \$5.00 per 100.  
THE ELIZABETH NURSERY COMPANY, Elizabeth, N. J.  
When Writing Mention Florists' Exchange

# PALMS and FERNS

FINE STOCK.  
All the leading varieties of PALMS, from 4 inch pots to specimens in 10 inch pots.

LEMUEL BALL, WISSINOMING, PHILA., PA.  
When Writing Mention Florists' Exchange

FEARNS—Adiantum Cuneatum and seed. 1 variety, 4 inch pots, \$2.00 per 100; \$30.00 per 1000.

LEMUEL BALL, WISSINOMING, PHILA., PA.  
When Writing Mention Florists' Exchange

# FERNS

We make a speciality of small ferns for the Fall trade.  
Write for special prices on large quantities. Order early.

JOHN SCOTT, KEAP STREET GREENHOUSES, BROOKLYN, N. Y.  
When Writing Mention Florists' Exchange

# BUY AT HOME

And Save 30 Per Cent. Duty.  
PALMS.—Latania horbonica, One specimen plants, from 4 to 6 pots, 2500 (Coco Secum, 5 and 6 ft. high, \$1.00 each. Neorhodia elegans, 4 and 5 ft. high, \$1.00 each. Kentia blumeana, 10 to 12 ft. high, \$2.00 per doz. Strong plants, 10 to 12 ft. high, \$2.00 per doz. Weddelliana, 10 to 12 ft. high, \$2.00 per doz. Pandanus utilis, 10 to 12 ft. high, \$2.00 per doz. Other plants, 10 to 12 ft. high, \$2.00 per doz. All others 10 per cent. discount by the 100.

(Cereus, fine assortment, small plants, 50 cts. and large 60 cts. in pots, \$1.00 per doz. in variety. Dracaena recurvata, 3 in. pots, one plant, \$5.00 per doz. Ferns, in sorts, from 50 cts. to \$1.00 per doz. Selaginella Emulans, 6 cts. per doz. Maranta arundinacea, Almandana Jeanmariani, 10 cts. per doz. Magnolia grandiflora and Acacia Japanica, 10 cts. per doz. in pots.

Cereanthes, in bud and bloom, from 2 1/2 in. pots, double white, 10 cts. per doz. in variety. Resaca, from 3 in. pots, stock, Meloc, Bromeliads, Bride Palm, Curled Palm, 40 cts. per doz. in variety. Philod. M. Washington, A. Carreri, Jacquemontii, etc., from 4 and 5 in. pots, \$1.00 per 100, in variety.

Cash with Order, Please.  
N. STUDDER, Anacostia, D. C.  
When Writing Mention Florists' Exchange

# ORCHIDS and GREENHOUSE PLANTS FOR SALE.

Address P. O. Box 665. ALBANY, N. Y.  
Having disposed of several of my Greenhouses and the remainder being over crowded, I have decided to offer for sale the excess, consisting of the palms and the choicest specimens of my collection for the past 20 years, either singly or in quantities. They are all well established, in the condition, and many cannot be obtained in any other collection in America. A printed list sent on application. Sales made at reasonable prices.

E. CORNING.  
When Writing Mention Florists' Exchange

# AZALEAS!

(INDICA.)  
8 to 9 in. buds, \$15.00 per 100; \$145.00 per 1000  
9 to 10 " " " 17.50 " 170.00 " 1000  
10 to 12 " " 20.00 " 190.00 " 1000  
12 to 14 " " 28.00 " 250.00 " 1000  
14 to 15 " " 30.00 " 280.00 " 1000

PALMS, Etc.  
For Palms, Begonias, etc., please refer to our advertisement in Florists' Exchange of May 16th and June 12th.

# BEGONIAS.

(Erect Flowering) Single Tuberos Rooted.  
Each 1 inch diam. separate colors, \$5.00 per 100; \$50.00 per 1000.  
Each 1 to 1 1/2 inch diam. separate colors, \$10.00 per 100; \$100.00 per 1000.  
Double Flowering.  
Each 1 in. diam., separate colors, \$22 per 1000.  
About 1 1/2 in. and above, same colors, \$40 per 1000.

CLOXINIAS (Erect Flowering).  
About 3/4 to 1 inch diam., mixed, \$15.00 per 1000; \$90.00 per 10,000.  
About 1 inch and above diam., mixed, \$18.00 per 1000; \$100.00 per 10,000.

Forcing and other Nursery stocks grown in quantities.  
CASH with packing fee, except on approved Credit.

ROYAL NURSERIES,  
LOUIS VAN HOUTTE PÈRE,  
Ghent, Belgium.

When Writing Mention Florists' Exchange

# JESSAMINE GARDENS.

When Writing Mention Florists' Exchange

# Printing...

We are outfitted to do everything in this line required by the florist, the seedsman and the nurseryman, from an envelope to the most stylish kind of a catalogue. Write us. . .

A. T. DE LA MAR PTD. and PUB. CO. LIMITED.  
RHINELANDER BUILDING,  
COR. ROSE and DUANE STS. NEW YORK.

# SMILAX

Strong plants, from pots, \$2.00 per 100; \$18.00 per 1000.  
SAMUEL J. BUNTING, Elmwood Ave. & 65th St. Phila.  
When Writing Mention Florists' Exchange

# A. CUNEATUM FERNS

We have a large stock of these plants in 2 1/2 and 3 inch pots at \$1.00, \$5.00 and \$10.00 per 100. Special prices on large orders.

SHIPPED BY CUT FLOWERS.  
We Want Stock Rubber Plants.  
THE WILLIAMS-WILSON CO., 284 Erie St., Cleveland, O.  
When Writing Mention Florists' Exchange

# JULIUS ROEHR'S

Headquarters for Palms and Decorative Plants,  
RUTHERFORD, N. J.  
P. O. Address, — Carlton Hill, N. J.

When Writing Mention Florists' Exchange

# FOR SALE CHEAP.

1 Latania Horbonica, 5 ft. high, 1 s.w.d.  
2 Dichocarya Atrichoides, 5 ft. high.  
2 Brazeana Australis, 10 ft. high.  
1 Rubber Tree, 9 ft. high.  
600 White Verbenas, one plant, almost in bloom.

H. W. HALES, — Ridgewood, N. J.  
When Writing Mention Florists' Exchange

# FERN PTERIS TREMULA

In excellent condition, from 2 1/2 in. pots, 10 to 25 in. high, ready to shift to 4 1/2, \$5.00 per 100; \$50.00 per 1000.

R. WITTERSTÄTTER, Sedamsville, Ohio.  
When Writing Mention Florists' Exchange

# LATANIA HORBONICA

2 1/2 inch POTS.  
Strong, \$5.00 per 100. Cash.

EDWIN A. SEIDWITZ,  
36 W. LEXINGTON ST., BALTIMORE, MD.  
When Writing Mention Florists' Exchange

# FERNS

Pteris Struthiofolia, Pteris Cretica alba, Adiantum, etc.  
" Magnifica, " Aspidium Tennessense, " Psychodes, etc.

\$3.50 Per 100. CASH WITH ORDER.  
CHAS. F. BAKER, Utica, N. Y.  
When Writing Mention Florists' Exchange

**Japanese Floral Art.**

In a very interesting article on this subject, appearing in a recent issue of the Chicago Post, the contributor has the following to say of the present day floral art of our country:

"Americans are quick to grasp that which is in vogue, and in this we are presented with bouquets correct in composition, faultless in taste, artistically receptacled and aesthetic as any Japanese fingers can make them, will it not be surprising if afterward we gaze upon the classic and the modern, hills, meadows, fountains, flanked by masses of green, inappropriate vessels—I repeat, will it not be a bit surprising if we do not experience a keen sense of humiliation in our national ignorance of the very fundamental principles of so delicate, polite and refining an art?"

We certainly possess more real latent aestheticism than we are credited with, and once fully aroused, and our aesthetic culture can be developed as fully as is our business talent, there is no reason why American florists should not have an established school of arrangement, the style of which would be both artistic and American. It is not to be supposed that American technicalities, as any of the different schools of Japan.

Our massive bunches of flowers seem to carry their sale-ticket ever upon them, revealing the commercial valuation put upon them rather than an underlying appreciation of the aesthetic value of each and every flower, and that which will be welcomed, coming from what source it may, which will tend to the subversion of that omniscient which generally makes us forget our perfect enjoyment of the beautiful."

He then proceeds to treat of Japanese floral arrangement as follows: To appreciate their highly artistic flower arrangement we must view flowers and floriculture from the Japanese viewpoint. The term *hana* means more to the Japanese than its English equivalent, flower, and includes all shrubs, trees, evergreens, and even the redolent many leafed ones of their seven autumn flowers. They do not view a single bloom as highly as a growing plant, but derive its value from its open character to their compositions to simulate, in their arrangement of cut flowers, the growth of the plant. The development of the plant life is what particularly interests them, not a mere physical delight in the bloom. With us only masses of bloom and leaves play a part.

This conception of flower life gives rise to the fundamental principles of their floral art of arrangement; and in all their schools, each of which claims to be the only true exponent of fine art, and to possess secrets called hidden, only imparted to the very profane, this art of arrangement is based upon the representations of floral growth. The first and fundamental principle is that the lines showing the direction of branches form the basis of all floral art. This is called the "language of line," and certain fixed rules govern it in all the schools.

As floral growth and vitality are what he wishes to express, the Japanese artist will study carefully the lines of the plant as it proceeds out of the earth. In arranging flowers in receptacles he regards the water as the earth which nourishes the plant, and the different stems or branches must rise from the water by the same natural rules by which they rise from the earth.

In this respect he has mastered nature's methods, and a true artist will carefully avoid weak bends and angles in the stems, and will be slow to break, and impart the idea of strength and vigorous growth by keeping the stems or branches united to some distance above the water.

Of course to effect this natural development of the stems can be perfectly familiar with the flowers he uses, in all their stages of plant life, and in their reason plants which would with us be sought as "rare" would be immediately rejected, and we find our true idea of "choice-ness" associated with rarity directly opposed to all their rules of art.

(To be continued)

**BOUVDIA** White, Pink and Red, single flowering, 2½ inch petals. \$3.00 per 100.

**VIOLETS** Lady Helen Campbell, 2½ inch petals, \$2.00 per 100; \$15.00 per 1000.

**ASPARAGUS PLUMOSUS NANUS**, from 1 inch petals, \$1.00 per dozen; \$2.00 per 100. Cash with order, please.

**R. VINCENT JR. & SON, White Marsh, Md.**  
When Writing Mention Florists' Exchange

**CABBAGE PLANTS** Improved Flat Dutch and late Drumhead, \$1.00 per 100; Large Red Heads, \$1.50 per 100. White Plume and Golden Self-Blanching, \$1.00 per 100.

**J. C. SCHMIDT & CO., Bristol, Pa.**  
When Writing Mention Florists' Exchange

**GERANIUMS.**  
Brunel, extra, \$6.00 per 100; \$50.00 per 1000. Blue, \$4.00 per 100; \$35.00 per 1000. Mixed best vars., \$6.00 per 100. Heliotrope, 2½ inch, \$2.00 per 100. Cash with order, please.

**W. J. CHIRNICK, Trenton, N. J.**  
When Writing Mention Florists' Exchange

**HYDRANGEA OTAKSA**  
2½ inch petal, \$1.50 per 100. Cash with order.

**SAMUEL J. BOWING, Elmwood, 4.5th St. Phila.**  
When Writing Mention Florists' Exchange

**VIOLETS MY SPECIALTY**  
All first-class plants. Orders received now for fall planting. Marie Louise, Lady Campbell, Swaney White, Fairburn, Princess de Galles, California. Price on application.

**F. ERD. BOULON, See CHIEF, L. L. N. Y.**  
When Writing Mention Florists' Exchange

**250,000 CELERY PLANTS**  
Golden Dwarf, White Plume, and Giant Pascal, 50 cents per 100; \$1.75 per 1000. Cultivated and strong. Send 10c. for sample. Cash with order.

**HORACE RIMBY, Collegeville, Pa.**  
When Writing Mention Florists' Exchange

**VEGETABLE PLANTS**  
All strong, well rooted plants, of standard varieties.

Celery, strong, well-rooted.....	\$9.00	100	1000
Celery, ordinary.....	15	100	
Pepper.....	25	20	
Cabbage.....	15	100	
Cauliflower.....	25	20	

Strawberry Plants, Potted, Carrie and Earliest (see varieties), also Brandywine, Tennessee and Grand.

**TRADE PRICE LIST FREE.**  
Samples for Stamp.

**E. C. HARGADINE, Felton, Del.**  
When Writing Mention Florists' Exchange

**CABBAGE PLANTS,**  
**75 Cents per 1000.**  
E. Summer Winters, Succession, Fottler's Brunswick and Flat Dutch.

**E. J. HULL, Olyphant, Pa.**  
When Writing Mention Florists' Exchange

**CELERY PLANTS** Strong and Stocky.  
\$1.00 per 100; \$2.00 per 1000.

Satisfaction and Special Low Est. Rates Guaranteed.  
Most Practical Book on Celery Growing, 75 cents.

**PETER J. SCHUR, Kalamazoo, Mich.**  
When Writing Mention Florists' Exchange

**VEGETABLE PLANTS**  
**CABBAGE**—Henderson's Succession, Early Flat Dutch, Lupton, Autumn King, Burpee's Flat Dutch, Late Flat Dutch, Premium Flat Dutch, Late Drumhead, Mammoth Flat Red and Drumhead Saved. Field grown; 15c. per 100; \$1.00 per 1000.

**CELERY**—Dwarf Golden Heart, Golden Self-Blanching, Giant Pascal, New Green, White Plume and Giant Parake Celery, 15c. per 100; \$1.00 per 1000; \$5.50 per 10,000. Cash with order.

**R. VINCENT JR. & SON, White Marsh, Md.**  
When Writing Mention Florists' Exchange

**AMERICAN BEAUTY,**  
California Violets, 2½, 3 and 4 in. Asparagus Plumage, 4 and 5 in.

**A. S. MAC BEAN, Lakewood, New Jersey.**  
When Writing Mention Florists' Exchange

**STORRS & HARRISON CO.,** Painesville, Ohio, Wholesale Nurserymen and Florists,  
When Writing Mention Florists' Exchange

**F. E. McALLISTER CO.**  
SEED AND BULB MERCHANTS,  
69 CORTLANDT STREET, NEW YORK.

Selections Florists' Flower Seeds.  
Primula Sinensis Fimbriata, alba, alba magnifica, light red, rose blue or mixed. Per Trade Pkt., (500 seeds), \$1.

Cineraria James' Giant Strain. Highly recommended by all who have grown it. Per Trade Pkt., \$1.

**SMILAX STRING, RUSTY BASKETS, SPRINKLING CANS, BAMBOO CANES,** and all other kinds of Florists' Requisites always on hand.

... Address all... Communications to JOHN S. GARRISON, Assignee, 69 Cortlandt St., N. Y.  
When Writing Mention Florists' Exchange

**PEACH AND PLUM TREES** FOR FALL DELIVERY 1897.  
Reliable and clean stock of low wholesale rates. All desirable leading varieties of PEACH TREES, old and new in fruiting orchards. Have the new Triumph, Girard's, and Sauer fruiting. Buds can be supplied in season at low rates.  
Very large stock of PLUM TREES all plum roots, one and two years. Buds can be supplied of these also, either from nurseries or orchard trees. Have all the leading Japanese varieties. Abundance, Burbank, Chabot, Goshima, 3 7/8 and 4 in. etc.; also the new Red June and Wisconsin in good supply. All kinds of Apples and Spruces. Plants to order.  
**ALEXANDER PULLEN, Milford Nurseries, Milford, Del.**  
When Writing Mention Florists' Exchange

**FORCING BULBS**  
Special Import Price List Ready.

**=CANNAS=**  
BURBANK - 75c. ITALIA - - - 40c. VEL. GROZY - \$1.50. AUSTRIA - - - 20c.  
All Standard and New at Market Price.

**VAUGHAN'S SEED STORE,**  
NEW YORK, CHICAGO,  
14 Barclay St., 84-86 Randolph St.  
When Writing Mention Florists' Exchange

IN THE PRESS. PRICE, \$1.00.

# The Water Garden

(PROFUSELY ILLUSTRATED.)

BY WILLIAM TRICKER.

THIS volume, which has been prepared by the foremost aquaculturist of the country, and to whose efforts the present growing popularity of the Water Garden is largely due, is designed to serve as a SOUND, PRACTICAL CULTURAL HANDBOOK for amateur and professional alike.

The book will be freely illustrated with plates and illustrations in the text, and will describe all operations, from the growing of plants in tubs to construction of the large pond, planting, seed saving, propagation, wintering, and all other necessary details of cultivation.

→ ORDERS RECEIVED NOW. ←

A. T. DELAMARE PTG. & PUB. CO., Ltd., - - - - - Box 1697, New York.

## Individual Credits.

(Continued from page 617.)

### Obtaining Information Regarding Customers.

Considerable strategy must be used at times to secure information touching individuals supposed to be possessors of large means, and who are so reticent about their affairs that it is not deemed prudent to ask questions. You would be surprised to learn that some of the richest and most substantial houses in the larger cities will seek for data through the instrumentality of Janitors of apartments, butchers and tradespeople generally. Perhaps information thus gleaned is not always of value, but at the same time such people hear and see things of which it is important that the dispenser of individual credits should have knowledge. The question may be asked why are such methods resorted to, and the only answer that can be given is that retailers are fearful of making too many inquiries direct and driving away trade that is a source of profit to them. These practices should not be necessary, and remedial measures against giving information to the part of individuals will be overcome

edness, because of their large number and the comparative insignificance of each single account, which renders it less likely that the details will become known to the public, and this feeling of security influences the individual seeking credit and increases the probability of his account growing beyond conservative limits. Very few retail dealers have the courage to discontinue trading with a customer who does not pay promptly. They are seemingly unable to break off the habit of extending long credit to old patrons.

Something should be known regarding the financial resources and character of each debtor. Information respecting business can be secured with comparative ease, but in the case of professional men, and those living on incomes, the problem is not so simple. Therefore references should be required in all cases, and they should be looked up with great care for the reason that while the first purchase may be small, the account, once opened, may increase in importance without attracting attention. If the customer is buying goods on credit from other sources, inquiry should be made as to whether his payments are satisfactory. Where real estate is owned, some speculative data can be ascertained if gathered.

After the investigation is completed, and all the available information is at hand, a credit limit should be carefully fixed, and beyond this point the account should not be permitted to pass until it is ascertained

grown until it seems to me that a reform should be instituted, and they should be taught that the mere fact that they are possessors of wealth does not entitle them to exceptional privileges, or to a lenient attitude of those not so fortunately situated.

It has been truly said that the period of the "rich man's panic" had never been the "rich man's panic," and it is of the wealthy people who have allowed their accounts to grow beyond all bounds, that the most flagrant abuse of credit can be afforded. They are not noted for trying a trip to Europe, or out of town, leaving their accounts with their butcher, grocer and tradesmen generally, who grow more careless, and through fear to bring the least pressure upon them, as they usually take the greatest offense when asked to meet an obligation that may, perhaps, have been long past due.

Very often an account that has run for some time becomes difficult of collection merely because the debtor, under many necessities may be none too acute, feels he is asked to give something for nothing, especially when the account in question is so large as to be out of consumed, and the creditor is in sight for the money he is expected to collect.

One should insist upon the payment of all bills in strict accordance with the terms thereof, and necessary expense should be spared in order to prevent wealthy delinquent to a settlement. He may be unscrupulous, and withhold his name from the books, but in many instances that require extra effort to collect are not desirable.

### Bills should be Rendered Promptly.

I would lay special emphasis upon the importance of retailers rendering their bills promptly, as such a practice will undoubtedly increase their sales, and will also have the effect of educating their customers as to proper business methods.

Some merchants, who are disposed to be conservative, are influenced by the fact that although the precise character of a customer already has a sufficient number of accounts for the income he is receiving, and that the creditor already has credit he will feel that his honesty has been questioned and will make complaint against the retailer. On the other hand, there are people who will not permit anything to be charged on accounts, and the retailer should be sure they will allow their names to be engraved on the books. They are, indeed, quite intelligent at the suggestion.

### Whom to Trust.

Extreme care should be exercised in trusting people of narrow means, dependent upon moderate salaries, that are received with a regularity that renders continuous credit unnecessary, for the mere fact that they are seeking credit, except in rare instances, is evidence that they are living beyond their prolific source of loss. Extraordinary and, of course, should be discouraged.

Credit should always be refused to those who spend their income before it reaches the man who drinks to excess or gambles about town, or to those who spend on the promise of a future return. Outstanding factions, which often play altogether too large a part in credit.

Many houses will not properly insist upon guarantees, if the financial facts of the applicant for credit is doubtful.

Some large houses decline to enter into investigations of the accounts of those who have no substantial property in real estate investments; while others will accept accounts of customers whose who hold good titles to property. In the latter case, of course, it is well to ascertain that the customer's ability to meet obligations where retail credit is safely be predicted. A strong ability, earning capacity and honor.

It is also of comparative degree of resources, if he is possessed of those resources that inspire confidence in his ultimate ability to meet contingency in the case of that he may be afflicted with some misfortune, such as sickness or loss of property, it is a recognized fact that people in moderate circumstances are usually more punctual in meeting their obligations than the wealthy.

All honor to the man who pays his debts. He is entitled to the confidence and respect of his fellow-men.

The surety of a large number of people of practically no means, living in crowded districts of large cities, who are unable to credit to the retailer for the sake of obtaining the necessities of life, but to gratify a strange desire to surround themselves with more luxuries in these localities, the greatest killing of notes and swapping of checks dated to the retailer, is one of the most flagrant abuses of credit that exist to some extent in recognized business communities.

(To be continued.)

## A Royal Orchid Bouquet.

The "Gardeners' Chronicle," London, in its issue of June 28, editorially comments as follows on the bouquet ordered by Her Majesty the Queen for the decoration of the dining-room at Buckingham Palace on Jubilee Day. The flowers were furnished by P. Sander & Co., St. Albans, England:

"The framework of the bouquet consisted of a mass of white and pink work, heavily gilt, standing on a polished mahogany base; in shape triflingly resembling a crown. From the three corners spring the handle, its three branches forming a dome, and from the center of the crown, the letters 'V. R. L.' twelve inches in length, being arranged between the crown and the base. Several hundreds of flowers of *Odontoglossum citreum*, the letters being composed of petals of orange-colored *Epidendrum vitellinum*, Millais' favorite orchid. It is impossible to attempt to describe the many thousands of orchids used in this, the most superb bouquet ever seen, endless spikes of white and pink, raised from Her Majesty's dominions being used, together with almost priceless blossoms of the highest quality raised in our country, and our Queen's accession, many of them unique and of great value, among them being a rose from the *Empress of India*, C. Our Queen, C. Victoria Regina, which receive a award of the highest honor from the Horticultural Society on the 16th inst. The Princess of Wales *Odontoglossum* was particularly noted, the spikes of the *Dias* from *Lord Dalhousie's* Dendrobe, with its nankeen-yellow and maroon stripes, the *Stenoglossum* from *Table Mountain*; *Stenoglossum fimbriata longiflora*, also from South Africa; the month-weaver *Stenoglossum* from Australia and British New Guinea; *vandas*, from the British East Indies; cactaceas and richly-colored orchids, from British Guiana, and the lovely scarlet *Epidendrum vitellinum* and *Laelia xanthina*.

"Among the more rare species and varieties employed, mention may be made of the *Laelia* which adorned the beautiful hybrid *Phalaenopsis* *Vanada*, *Vanada* *Hookeri*, the white-rosy *Phalaenopsis* *Vanada*, the *Phalaenopsis froyes* *leucociliata* var. *Godseffiana*, an importation possessed only by Mr. R. Meade of the *Phalaenopsis* *Vanada* var. *Caudatum*, *Dendrobium* *Phalaenopsis*, the spikes of which were of the most striking character-making; *Oncidium* *Batemanianum*, with its beautiful yellow expansion; *Oncidium* *Vanada*, from *Launcehana*, a cross between C. *Sanderiana*, and C. *veratrifolia*, the flowers of which were of the most striking variety, *massevalliana*, chiefly varieties of *Harrisonia*, and a few M. *Chilmeri*.

"The flowers of the bouquet were all of a basket of orchids were fitted with flutes or sockets, and the flowers were placed with a glass in the position of the petals, and constructed for the occasion, is one central dome, forming a solid foundation for the bouquet. The flowers, blossoms, which, perfectly finished and arranged, had a height of eight feet, with a diameter of twelve feet. The number of flowers in the bouquet in 1887 was 50,000, but this huge trophy contained a great many more flowers. The bouquet is better, and rarer, greater; and by command it was delivered at Buckingham Palace on the 28th inst. The bouquet, on the termination of the court dinner, was carried into the Queen's bedroom, where it served to adorn for several days."

### View in Tourer Park, Newport, R. I.

by proper educational work, just as reluctance to give information on the part of borrowers is being removed by the requirement of signed statements.

During the past few years we have been suffering not alone from the failure of business firms and corporations, but from the straining of individual credit which, in my opinion, has been responsible in a large degree for the prevalent unsatisfactory conditions in business affairs. Many people have been living beyond their means, and since the panic of 1890 especially individual credit has been extended far beyond its normal limits; as a result the habit of credit has become disturbed, and the slow undermining of the foundation has gradually weakened and finally destroyed many of our noble institutions of trade and commerce. We have been passing through an era of extravagance that has been more pronounced than at perhaps any other period in our history. The credit structure has been upon a false and dangerous supposition, rather than upon tangible property and financial strength.

The Reverend Charles H. Spurgeon testified: "Living beyond their means is the ruin of many of my neighbors. It can hardly afford to keep a rabbit, and must needs drive a pony and chaise."

by further research that the increased line can be safely extended.

A retail creditor should know when to say No, and should have the force of character necessary to say it; moreover, he should make the refusal in a way that will give no offense.

Many people, especially those who are wealthy, are very negligent about paying their personal bills; and tradesmen and professional men are obliged to carry them longer than should be necessary, thus entailing upon them heavy losses of interest and profit.

**Laxity in Collections Cause of Failures.** It is a conceded fact that frequent salesmen, given credit, and credit contribute to better profits in all lines of trade; whereas laxity in making them pay credits and collections is the direct cause of a large proportion of the failures of retail merchants throughout the country.

A well-known writer on Political Economy says: "It is difficult or impossible to make a man pay his credit, and I find it is almost invariably their experience that the slowest customers are those who could most easily pay cash. It is almost impossible to collect from them."

The custom of allowing people of means to suit their own convenience in making payments has gradually

### Some of Newport's Gardens.

Newport, the queen of watering places, is without a driving park and for the very good reason that she needs none. The summer residence section is a park in itself of magnificent proportions and unsurpassed beauty, whether judged by American or European standards. Here one may ride or drive over many miles of the smoothest and best macadamized roads, many of them bordered by overhanging trees, and all lined by the most costly and pretentious villas to be seen in the country. Nothing that money can buy in the line of architectural or horticultural attractions is wanting for wealth and culture centre in this city by the sea as scarcely anywhere else.

It may not be generally appreciated that the Newport cliffs are the highest

park is that of Mr. Joseph Tuckerman, which is of especial interest to the horticulturist as well as the antiquarian and historian. The house was built in 1770 and stands as a fine specimen of colonial architecture, and in marked contrast with some of the new and more modern forms. Among its former occupants were General Nathaniel Greene, who was second to General George Washington in command during the War of the Revolution. In its spacious halls General Greene received and entertained such guests as Washington, Lafayette, Steuben, Kosciuszko and other distinguished men of those and former times. The present owner has largely rebuilt the eastern mansion, taking care, however, to preserve the historic features in all their perfection. The estate is a large one, and is shared with many others in the city, containing but little more than an acre of ground, but it is safe to say that in its planting it is a gem of rarest worth. In front and on the street line are several English hickories, the stately magnolias, a beautiful fern-leaved beech;

inuation that such a claim is made, but a literal statement of fact. A shrubbery can be, as this actually is, as beautiful as a bed of flowers during the entire season, and especially when colored foliage-specimens are employed to assist in making up the combination. Take for instance such shrubs not small trees as *Quercus concinna*, *Prunus pissardi*, *Sambucus aurea*, *Berberis purpurea*, *Philadelphus coronarius*, *Spirea opulifolia*, *avrea*, *Cornus sanguinea variegata*, *Ligustrum tricolor*, *Corylus purpurea*, *Weigela amabilis variegata*, *Prolea trifoliata aurea* and others that readily suggest themselves as affording variety in color leaf, and it will be seen at a glance how large are the possibilities in this direction. The opportunities for selection are so numerous when looking to a constant succession of flowers in such a plantation. Nor does it require large areas, mostly lawns, for the display of blossoms. I need not suggest the flowering peaches, apples and crabs, the flowering almonds, the beautiful magnolias, the rhododendrons and azaleas,

not sufficient room in which to grow poor ones.

I have already mentioned the fern-leaved beech on this estate, which leads me to call attention to the famous tree of that variety on the grounds of the Redwood Library in the immediate vicinity, and which has almost a national reputation. It is claimed to be the oldest and largest of its class in the country, having been brought here and planted where it now stands about the year 1835 by Mr. Samuel Johnson, a resident of the city, who had been many months abroad and had visited numerous countries, and it is not now known where he obtained it. It is not the ordinary *Fagus lacinata* as sold by the nurserymen, though much resembling that variety.

No horticulturist or florist who visits Newport should fail to see old Newport's pride, Redwood Library and its noble trees. At present almost every estate of any pretension whatever has its fern-leaved beech, however small and unpretentious. The late Miss Catherine Wolf, in fitting up Vineland, her



Shrubby in the Garden of Mr. Joseph Tuckerman, Newport, R. I.

of any on the Atlantic coast line between Florida and Maine; but such is the case. And even then they are neither lofty nor rugged. Everywhere the closely-shaven and always well-kept lawns extend to the sea, and trees, shrubs and flowers, representatives of many lands, though often maintained with great difficulty, are abundant.

And yet Newport has several small parks, of which her people are justly proud. Among them is the Ocean Park, the gift to the city of the Hon. Levi P. Morton; and Tourou Park, presented many years ago by Mr. Judah Tourou, which park is in the very centre of the city. Here it is that the "old stone mill" or "Newport round tower," the mystery of Newport mysteries, has its place. Whether the work of the ancient Northmen, who it is supposed have visited the place long before Christopher Columbus started on his famous voyage of discovery, or of the early settlers, no one knows or can well know, as there is not a scrap in ancient records relating to its origin or early history. The botanists search out many mysteries and solve numerous questions in their line, but it may be taken for granted that even the combined wisdom of the Society of American Florists, soon to visit the city, will fail in attempting to solve the problem when the members come to analyzing and classifying in this presence.

Among the estates fronting on this

*Fagus heterophylla* and one of the finest specimens of *Liquidambar styraciflua*, though by no means the largest to be seen in Newport. This, the well-known "sweet gum" of the south, is not reported entirely hardy in our northern climate, but it is here grown as easily and as surely as the oaks and maples. Its peculiarly shaped leaves and their rich coloring in autumn make it one of the most attractive trees for the lawn, or even for the street, which we have. Experience shows that it can be satisfactorily grown not only in this locality but in the vicinity of Boston and still farther north. Another of the features of the tree planting on this estate that never fails to attract attention is the three weeping beeches in the western border, which stand side by side and so hang together as to make them appear at first sight as one. Standing thus they present something of a flat surface having a rounded top, the least appearance of stiffness or undue formality. Every tree and shrub in the border is choice and grown to the most perfect form.

The shrubbery, as shown in the illustration, is partially planted on an artificial mound in the rear and farthest from the street. It contains many of the well-known hardy species and varieties, and these are so selected and arranged as to afford flowers in succession from early spring to late autumn. It is by no stretch of the imag-

ination that such a claim is made, but a literal statement of fact. A shrubbery can be, as this actually is, as beautiful as a bed of flowers during the entire season, and especially when colored foliage-specimens are employed to assist in making up the combination. Take for instance such shrubs not small trees as *Quercus concinna*, *Prunus pissardi*, *Sambucus aurea*, *Berberis purpurea*, *Philadelphus coronarius*, *Spirea opulifolia*, *avrea*, *Cornus sanguinea variegata*, *Ligustrum tricolor*, *Corylus purpurea*, *Weigela amabilis variegata*, *Prolea trifoliata aurea* and others that readily suggest themselves as affording variety in color leaf, and it will be seen at a glance how large are the possibilities in this direction. The opportunities for selection are so numerous when looking to a constant succession of flowers in such a plantation. Nor does it require large areas, mostly lawns, for the display of blossoms. I need not suggest the flowering peaches, apples and crabs, the flowering almonds, the beautiful magnolias, the rhododendrons and azaleas,

the viburnum plicatum, *Rosa rugosa*, *Cercis japonica*, *Cornus Mas*, *Clethra alnifolia*, *althica* in variety, *Hydrangea grandiflora*, *Lspedeza bicolor*, *Cydonia japonica*, *Spirea* in variety, the lilacs, roses, and a multitude of others, which furnish material always at hand. A poor or uninteresting shrubbery is all that is needed to detract from the horticultural knowledge or want of skill in making the application of that knowledge to the best uses.

In Mr. Tuckerman's border only a small part of the plants named have a place, but the end sought is practically attained. In front of the shrubs and at the base of the mounds is a bed of roses, mostly hardy perennials, but not extending the whole distance. And occasionally a showy annual is thrown in to fill a temporary vacancy, for Mr. Beatty, who is in charge of the grounds, is too good a gardener not to improve every opportunity to secure the desired effects.

In the rear of all this and separated by a series of brick arches, which are well covered with vines, is a model vegetable garden where fruit is grown to perfection and also many flowers, and last of all the conservatory, which, though not large, houses many choice plants. On calling the attention of Mr. Tuckerman on one occasion to what seemed to be a fact that every plant was a choice specimen of its kind, his reply was that it had to be, for he had

villa at Ochre Point, brought two of these trees from away at an expense of nearly a thousand dollars each, or transportation and transplanting alone. They still live, are quite large and were shipped with balls, but are not the best specimens of the class to be found in the city. That honor belongs to one on the villa of James Gordon Bennett, directly opposite the Casino, and was probably planted by the late Sidney Brooks, of Boston. It is in full view from the street and there is another planted at the same time almost equally good. This estate of Mr. Bennett attracts considerable attention, though the proprietor himself has not occupied it for several years; but whether in use or not it is always kept in perfect order. The grounds are well planted with choice trees and shrubs and the "bedding out plants" are not wanting. One of the peculiarities of the place is that the gateways in front are surmounted with bronze eyes, whose eyes at night are lighted with gas and thus mildly burned on the passers-by.

This section, the immediate vicinity of the Ocean House, marks the boundary line more nearly than any other between the old and the new city, though there are summer residences in all parts of the town. From this point southward Bellevue Avenue is almost exclusively devoted to summer villas, some of which I will describe later.

L. D. DAVIS.







Riverton, N. J.

It is several years since Mr. J. D. Bland... grand clearing up previous to the "Glorious Fourth"...

In any business it is of decided importance that a periodical cleanup and no more is this necessary than in ours, where so much remains to be straightened out after the spring rush is over...

To carry out this system is comparatively easy in a smaller establishment, but in a large one as is this considerable forethought is required...

Words fail to express admiration for the amount of ready work of addition by all who believe in a well-regulated household.

I understand that Mr. Bland is about to leave for Europe incidentally for recreation, but nothing in the way of new things, particularly in plants, will be overlooked.

2c GERANIUMS 2c

Many of the following plants, from 2 1/2 inch pots, in splendid shape, the very best varieties.

COLEUS, best varieties. Per 100 \$1.50

UMBRELLA PLANT. Per 100 \$2.50

FLORERING BEGONIAS, good assortment. Per 100 \$2.50

CARANTIONS, well established, dotted plants in the following: Fred Dorrer, McGowan, Mr. Harrison, Elizabeth Reynolds, Fortia, Mrs. E. B. Eldred, Mrs. E. H. Heller. \$3.50 per 100. Cash with order.

JOHN A. DOYLE, SPRINGFIELD, OHIO. When Writing Mention Florists' Exchange

HERE THEY GO.

- Red Begonia, 2 1/2 inch pots. Per 100 \$2.00
3 inch pots. 4.00
4 inch pots. 4.00
Lemon Verbena, 2 1/2 inch pots. 1.00
Vernon Begonia, 2 1/2 inch pots. 1.00
Petunia in flower, 2 1/2 inch pots. 1.00
Sweet Alyssum, 2 1/2 inch pots. 1.00
4 inch pots. 1.50
Nasturtium, 2 1/2 inch pots. 1.00
New Swiss Geraniums, 2 1/2 inch pots. 1.00
Cytisopsis, 2 1/2 inch pots. 1.00
Heliotrope, 2 1/2 inch pots. 1.00
Mimulus, 2 1/2 inch pots. 1.00
Mixed Geraniums, extra. Heliotrope, 2 1/2 inch pots. 1.00
Mimulus, 2 1/2 inch pots. 1.00
Alexandria, Vienna var., Double Gem Grand Geranium, per 100 \$1.25
Red Begonia, 2 1/2 inch pots. 1.00
Columb. per 100 \$0.75
Dwarfed Begonia, 2 1/2 inch pots, per 100 \$3.00. Terms Cash or C. O. D.

GREENE & UNDERHILL, Watertown, N. Y. When Writing Mention Florists' Exchange

ROSES FOR PLANTING

I have abt 5000 each of BRIDE and MAID. These are exceptionally fine...

THOS. FOULDS, - Hoyt, Pa. When Writing Mention Florists' Exchange

ROSES.

- 2000 Golden Gate, 2 1/2 inch pots. 30.00
400 Healthy 4 inch pots. 10.00
2000 Bride, 2 1/2 inch pots. 30.00
3000 MAIRIE LOUVE, 2 1/2 inch pots. 30.00
3000 MAIRIE LOUVE VIOLETS, 2 1/2 inch pots. 30.00
J. R. FREEMAN, 612 13th Street, N. W., WASHINGTON, D. C. When Writing Mention Florists' Exchange

ROSES.

- Strong 3/4 inch plants in splendid shape. Yellow Rambler Aegla, \$1.00 per doz.; \$5.00 per 100. Climbing Wagon, 75 cts per doz.; \$5.00 per 100. JOHN A. DOYLE, - Springfield, Ohio. When Writing Mention Florists' Exchange

LOOK HERE

The following plants are in AI condition. ROSEN, out of 2 1/2 pots, Bride and Maid, \$2.50 per 100, \$25.00 per 1000. Meteor, \$3.00 per 100, \$30.00 per 1000. Extra lot of 2 1/2 inch pots, \$2.00 per 100. \$20.00 per 1000.

50,000 BRIDE AND BRIDESMAID! 50,000

- From 2 1/2 inch pots. \$2.50 per 100, \$25.00 per 1000
From 3 1/2 inch pots. \$4.00 per 100, \$40.00 per 1000
From 4 1/2 inch pots. \$5.00 per 100, \$50.00 per 1000

THE NATIONAL PLANT CO., Dayton, Ohio. When Writing Mention Florists' Exchange

40,000 FIRST CLASS QUALITY FORGIC ROSES

Wootton, LA FRANCE, AMERICAN BEAUTY, BELLE SIBERIE, METEOR, KAPISIN, BU SINEK, BUN SILENE, MERMET, PERLE, NIPPON, GENTLE MISS, HOUSTON BRIDESMAID, SARKANO. J. L. DILLON, Bloomsburg, Pa.

PEARL BELLA ROSES

Strictly first-class, clean stock, in 3 inch pots. Beauty, Meteor, Bride, Bridesmaid

MYERS & SAMTAN, Wyndmor, Chestnut Hill, Phila., Pa. When Writing Mention Florists' Exchange

BRIDE AND BRIDESMAID

2 1/2 inch pots, no Mildew, \$30 per 1000. Strong plants. Sell at sight.

THE FLORAL EXCHANGE, 414 Chestnut Street, PHILA. When Writing Mention Florists' Exchange

JACKSON & PERKINS CO., NEWARK. Will be glad to offer for season of 1897-'98, a choice assortment of Field Green Roses, new and old varieties, Clematis, Ornamental Shrubs, and Trees, Fruit Trees and Small Fruit Plants.

Price List ready in July. Write for it. When Writing Mention Florists' Exchange

SURPLUS STOCK.

In fine condition free from Mildew. Perles, 4 in., \$8.00 per 100. Brides, Bridesmaids, 3 in., \$6.00 per 100. Perles, Brides, Bridesmaids, 2 1/2 in., \$4.00 per 100. Extra the stock. Cash with order or C. O. D. GEO. E. FANOURT, Wilkes-Barre, Pa. When Writing Mention Florists' Exchange

ROSES

GOOD STOCK. Brides, Bridesmaids, Perles, from 2 and 2 1/2 in. pots, \$2.00 per 100. Also

ADIANTUM CUNEATUM, from 2 1/2 in. deep pots, \$4.00 per 100.

RUBBERS, 18 to 24 inches.

RUXTON FLORAL & NURSERY CO., BOSTON. When Writing Mention Florists' Exchange

FOR SALE.

300 BRIDESMAID ROSES

On Manetti Root, one year old, clean and handsome. Just right in plant in solid bed.

F. E. PALMER, Brookline, Mass. When Writing Mention Florists' Exchange

ROSES, GERANIUMS, COLEUS.

Geraniums all planted out and sold will have in stock of field plants in the Fall. Strong 2 1/2 inch plants in solid beds and Bridesmaid Roses, ready to plant, \$4 00 per 100. \$40.00 per 1000. Bridesmaid, \$4.00 per 100. Meteor, \$4.00 per 100. Alterniflorus, red, red yellow, white, \$4.00 per 100. Bridesmaid, \$4.00 per 100. Schaffell and Golden Bolder, red cuttings, 75c per 100. In stock, \$2.00 per 100. Cash or satisfactory reference.

GEO. M. EMMANS, Newton, N. J. When Writing Mention Florists' Exchange

Sterling American Novelty, THE COGHET

Is a sport from Mamam Cogh, which we considered to be the best, just out-of-door rose. It has all the good qualities of its parent, its color, pure white in winter, outside petals slightly tinged in Summer, and no doubt it will prove the best white out-of-door rose up to date.

Price, per dozen, from 3 inch, \$4.00. Per 100, \$40.00. All Orders met by Accompany with Cash.

J. COOK 318 CARLES Baltimore, Md. STREET. When Writing Mention Florists' Exchange

ROSES

Carefully Grown Forcing Stock, 2 1/2 in., strong, Meteor.

The Bride, \$3.00 per 100, \$35.00 per 1000. W. L. France, \$3.00 per 100, \$35.00 per 1000. Calceolaria, \$2.00 per 100, \$20.00 per 1000.

Chrysanthemum, \$3.00 per 100, \$30.00 per 1000. Cheleze, The Pearl, \$3.00 per 100. SWANSON'S spindens, only true pink, \$4.00 per 100, \$40.00 per 1000.

Cheleze, The Pearl, \$3.00 per 100. SWANSON'S spindens, only true pink, \$4.00 per 100, \$40.00 per 1000.

Price from 3 inch, \$4.00 per 100, \$40.00 per 1000. W. L. HEISS, 116 So. Main St., Dayton, O. When Writing Mention Florists' Exchange

American Beauty, 3 inch pots, \$100, \$10.00 per 1000. Heliconia, \$1.00 per 100, \$10.00 per 1000. Meteor, \$3.00 per 100, \$30.00 per 1000. Price from 2 1/2 inch pots, \$4.00 per 100, \$40.00 per 1000. W. L. HEISS, 116 So. Main St., Dayton, O. When Writing Mention Florists' Exchange

Extra Fine. Price from 3 inch, \$4.00 per 100, \$40.00 per 1000. W. L. HEISS, 116 So. Main St., Dayton, O. When Writing Mention Florists' Exchange

SMILAX. Strong, from 2 1/2 in. pots, \$2.00 per 100, \$20.00 per 1000. VIOLETS. Marie Louise, Edith Campbell, \$2.50 per 100, \$25.00 per 1000. For Varieties and Prices, see April 24th issue.

CHRYSANTHEMUMS. For 3 1/2 in. CANNAS STRONG. POTS. Plover's Premier, Per doz. Per 300 \$2.00 \$60.00

Asiatic, \$2.00 per 100, \$20.00 per 1000. W. J. White, variegated foliage, \$1.00 per 100, \$10.00 per 1000. Florence Vaughan, Chas. Heider, \$1.00 per 100, \$10.00 per 1000. Wm. J. C. Hays, \$1.00 per 100, \$10.00 per 1000. Wm. J. C. Hays, \$1.00 per 100, \$10.00 per 1000.

MISCELLANEOUS PLANTS. Ready for immediate sales. Alterniflorus, all leading varieties, \$3.00 per 100, \$30.00 per 1000. Bridesmaid, \$4.00 per 100, \$40.00 per 1000. Caroleana, from 2 1/2 inch pots, \$2.00 per 100, \$20.00 per 1000. Meteor, \$3.00 per 100, \$30.00 per 1000. Geraniums, double and single, \$1.00 per 100, \$10.00 per 1000. Mimulus, \$1.00 per 100, \$10.00 per 1000. Heliotrope, from 3 in. pots, \$1.00 per 100, \$10.00 per 1000. Hydrogen Otakun, 6 in. baby, \$2.00 per 100, \$20.00 per 1000. Parthenoclad, 2 1/2 inch pots, \$2.00 per 100, \$20.00 per 1000. Negu Flower, 2 1/2 inch pots, \$1.00 per 100, \$10.00 per 1000. Pines in bud and bloom, \$2.50 per 100, \$25.00 per 1000. All Trade on a Par.

WOOD BROS., Fishkill, N. Y. When Writing Mention Florists' Exchange

FOR SALE BY THE GROWER

AGERATHUM, 2 1/2 inch pots. \$2.00 per 100, \$20.00 per 1000. GERANIUMS, mixed, 2 1/2 inch pots. \$2.00 per 100, \$20.00 per 1000. PUEBLEN, single rose, 2 1/2 inch pots. \$2.00 per 100, \$20.00 per 1000. PUEBLEN, double white, 3 inch pots. \$2.00 per 100, \$20.00 per 1000. CYCLOPS GIGANTEA, 4 inch pots. \$2.00 per 100, \$20.00 per 1000. GREVILLEA, \$2.00 per 100, \$20.00 per 1000. HELIOTROPE, 2 1/2 inch pots. \$2.00 per 100, \$20.00 per 1000. HENNEY-CAT, 4 inch pots. \$2.00 per 100, \$20.00 per 1000. MUSA ENSETTE, \$2.00 per 100, \$20.00 per 1000. SALVIA, \$2.00 per 100, \$20.00 per 1000. STROBILANTHES DYERIANUS, 3 1/2 inch pots. \$2.00 per 100, \$20.00 per 1000. CYCLOPS GIGANTEA, 4 inch pots. \$2.00 per 100, \$20.00 per 1000. ASPERAGUS PLUMOSUS NANUS, 3 1/2 inch pots. \$2.00 per 100, \$20.00 per 1000. Cash with order from unknown customers or C. O. D. Orders amounting to \$5.00 and over, P. O. No. N. Y. City.

SEAWAHAKA GREENHOUSES,

OYSTER BAY, Queens Co., N. Y. JAS. C. CLARK, Supt. P. O. BOX 34. WM. L. SWAN, Prop. When Writing Mention Florists' Exchange

**J. K. ALLEN,**  
Wholesale Dealer in  
**CUT FLOWERS,**  
57 W. 28th St., New York.  
Orders by mail or telegraph promptly attended to.  
Telephone Call, 502 38th St.  
**ROSES and VIOLETS SPECIALTIES.**

**W. S. ALLEN,**  
17 West 28th St., New York.  
  
Correspondence Solicited.

**FORD BROS.**  
**WHOLESALE FLORISTS,**  
111 West 30th Street,  
NEW YORK.  
Consignments Solicited. Telephone 500 38th St.

**WM. H. GUNTHER,**  
**Wholesale Florist**  
VIOLETS and GERANIUMS A SPECIALTY.  
Consignments Solicited.  
30 West 29th St., New York.  
Telephone, 300-38th Street.

**MICHAEL A. HART,**  
**Wholesale & Commission Florist,**  
113 W. 30th St., New York.  
Telephone Call, 1307 38th St.  
All kinds of Roses, Violets and Geraniums a specialty.  
**ORDERS PROMPTLY ATTENDED TO.**

**H. A. HOFFMANN,**  
**Wholesale Florist**  
44 W. 29th St., NEW YORK.  
Telephone Call, 1538 38th St.  
American Beauties, Carnations, White Violets, Specialties. **CONSIGNMENTS SOLICITED.**

**EDWARD C. HORAN,**  
**WHOLESALE FLORIST,**  
No. 34 W. 29th St., New York.  
The Bride, Mornnet and American Beauty, Specialties.

**JULIUS LANG,**  
**Wholesale Florist**  
53 WEST 30th ST.  
Consignments Solicited. NEW YORK.

**FRANK MILLANG,**  
**Wholesale Commission Dealer**  
...in Cut Flowers...  
408 East 34th St., New York City.  
Cut Flower Exchange. Telephone Call, 364-39th.

**THE NEW YORK CUT FLOWER CO.**  
119-121 West 23d Street,  
112-114 West 24th Street,  
Telephone 723, 12th St., NEW YORK.  
THE LARGEST DEALERS IN CUT  
FLOWERS IN THE WORLD...

**W. E. LYNCH,**  
**Wholesale Dealer in Cut Flowers.**  
We are Headquarters for finest Carnations and Roses, Violets, Valley, Romanas, Smilax.  
Admission Free solicited stock reserved for shipping orders. Send us your name for our  
Semi-Monthly Price List.  
**19-21 RANDOLPH STREET, CHICAGO.**  
When Writing Mention Florists' Exchange

**CHAS. W. McKELLAR,**  
**WHOLESALE COMMISSION FLORIST**  
Largest and best market in Chicago. Constant supply of all seasonable flowers.  
Consignments of first grade goods solicited. Complete stock of Florists' Supplies, Wire-work, etc. All orders given prompt attention.  
Telephone, Main 1129. 45, 47, 49 WABASH AVENUE, CHICAGO, ILL.  
RD. F. WINTERSON, Manager.  
When Writing Mention Florists' Exchange



NAME AND VARIETY.	NEW YORK July 9, 1897.	BOSTON July 8, 1897	PHILADELPHIA July 6, 1897	CHICAGO July 7, 1897.	St. Louis June 29, 1897.
A. Beauty, fancy and special	20.00 to 25.00	12.00 to 20.00	...	6.00 to 10.00	6.00 to 20.00
" " extra	10.00 to 15.00	5.00 to 10.00	...	...	...
No. 1	5.00 to 8.00	...	...	...	...
" Culls extraordinary	.50 to 3.00	1.00 to 4.00	1.00 to 2.00	.75 to 3.00	...
BRIDES, Plain	...	2.00 to 4.00	...	...	...
Bride	.50 to 3.00	1.00 to 6.00	2.00 to 5.00	.60 to 3.00	.50 to 3.00
Bridemaid	.50 to 3.00	1.00 to 5.00	2.00 to 5.00	.50 to 3.00	.50 to 3.00
Jacqueline	...	3.00 to 4.00	...	2.00 to 3.00	...
K. A. Violets	2.00 to 5.00	3.00 to 8.00	4.00 to 6.00	1.00 to 3.00	.50 to 3.00
La France, extra	...	2.00 to 4.00	...	...	...
" " ordinary	...	...	...	...	...
Mega Chen	...	...	...	...	...
Mega Teton	.50 to 5.00	2.00 to 6.00	...	1.00 to 3.00	.50 to 3.00
Melior	.50 to 4.00	1.00 to 8.00	5.00 to 6.00	.50 to 3.00	.50 to 4.00
Mrs. F. Moran	...	2.00 to 4.00	...	...	...
Nippon, Rose	...	2.00 to 4.00	...	...	...
Papa Gontier	...	2.00 to 4.00	...	...	...
Perle	.50 to 2.00	2.00 to 4.00	2.00 to 3.00	.50 to 1.00	.50 to 2.00
Revy	...	2.00 to 4.00	...	...	...
Ulrich Branner	...	...	...	...	...
Waterloo	...	...	...	...	...
WALTON	.75 to 1.00	...	...	.40 to .50	1.00 to 1.25
ASPARAGUS	...	...	...	50.00 to 60.00	60.00 to 60.00
DAISY	...	...	...	5.00 to 6.00	3.00 to 6.00
If all colors, inferior grade	.25	.50 to .75	.60 to 1.00	.10 to .15	.10 to .15
STANDARD	.15 to .25	.40 to 1.00	.50 to 1.00	.25 to .30	...
VARIETY	.15 to .50	.50 to 1.00	.50 to 1.00	.25 to .30	...
Val. & Paris	.15 to .50	.50 to 1.00	.50 to 1.00	.25 to .30	...
*FANCY	.50 to .75	1.00 to 2.00	...	1.50 to .50	...
White	.50 to .75	1.00 to 2.00	...	1.50 to .50	...
Red	.50 to .75	1.00 to 2.00	...	1.50 to .50	...
Grass seed	.50 to .75	1.00 to 2.00	...	1.50 to .50	...
Yellow	.50 to .75	1.00 to 2.00	...	1.50 to .50	...
NOVELTIES	...	...	...	...	...
CUTTERS	30.00 to 40.00	...	...	...	...
LILAC	...	...	...	...	...
LELIS, LongFlower	1.00 to 2.00	...	...	...	...
LELIS OF THE VALLEY	2.00 to 3.00	2.00 to 4.00	...	...	...
MIGNONETTE	...	1.00 to 2.00	...	...	...
PAONIES	...	...	...	...	...
SMILAX	8.00 to 10.00	5.00 to 12.00	...	8.00 to 10.00	6.00 to 8.00
SWEET PEAR (100 bunches)	.50 to 1.00	.50 to .75	.60 to .75	.10 to .20	.10 to .15
TOILETS	...	...	...	...	...

For Prices of Fancy and Special Stock see our Correspondence Column.  
Prices are for quantities of one hundred unless otherwise noted.  
Prices quoted above are given only after very careful inquiry, and while we do not guarantee their accuracy, they will be found practically correct up to the date mentioned.

**REINBERG BROS.,** Wholesale Growers of Cut Flowers. . . 500,000 Feet of Glass. . .  
We can fill all orders on short notice with all leading varieties of **ROSES and CARNATIONS.** We are headquarters for fine **AMERICAN BEAUTIES.** Give us a trial and convince yourself.  
**SALESROOM 51 Wabash Avenue, CHICAGO, Ill.**  
When Writing Mention Florists' Exchange

**SAMUEL S. PENNOCK,** WHOLESALE FLORIST.  
A fine stock of **VALLI** on hand throughout the Summer. Also a full line of all seasonable cut flowers.  
During July, August and September we close at 6 P. M.  
**1612-1614 Barker St. Bet. Chestnut & Market Sts. Philadelphia, Pa.**  
Local and Long Distance Phone 5210.  
When Writing Mention THE FLORISTS' EXCHANGE

**H. L. SUNDERBRUCH CO.,** Wholesale Commission Florists,  
4th and Walnut Streets,  
CINCINNATI, OHIO.  
Consignments Solicited. Special Attention Given to Shipping Orders.  
**HEADQUARTERS** in Western New York. Try us **ROSES, CARNATIONS and ALL SEASONABLE FLOWERS.**  
**WM. F. KASTING,** Wholesale Commission Florist  
405 Wabash Ave., Buffalo, N. Y.  
Also Dealer in Florists' Supplies & Wire Designs

**PURDY & BLAUVELT,**  
Wholesale and Commission Dealers in  
**CUT FLOWERS**  
MADEIRA PENN FRENCH A SPECIALTY.  
57 WEST 30th STREET,  
Bet. Broadway & 6th Ave. NEW YORK.

**A. & F. ROLKER,**  
WHOLESALE DEALERS IN  
**CUT FLOWERS**  
53 West 28th St.  
Telephone 2379 38th St. NEW YORK.

**W. F. SHERIDAN**  
Wholesale Commission Dealer in  
**CUT FLOWERS**  
39 West 25th St., New York.  
Telephone, 21-38th St.  
PRICE LIST SENT ON APPLICATION.

**FRANK H. TRENDLY, CHARLES SCRENCK,**  
**TRENDLY & SCRENCK,**  
Wholesale Florists,  
38 W. 28th St. and CUT FLOWER EXCHANGE,  
NEW YORK.  
Telephone 961-18th St.  
Consignments Solicited.

**JOHN YOUNG,**  
**Wholesale Florist,**  
51 WEST 28th ST.,  
NEW YORK.

**WM. J. BAKER,**  
**Wholesale Florist**  
1432 So. Penn Square,  
Philadelphia, Pa.

**DUMONT & CO.,**  
**WHOLESALE FLORISTS**  
CARNATIONS A SPECIALTY.  
No. 1305 Filbert St., Philadelphia.

**Illinois Cut Flower Co.,**  
51 Wabash Ave., Chicago.  
Special discounts on Wire Work during July and August.

**KENNIGOTT BROS. COMPANY,**  
**Wholesale - Cut - Flowers,**  
88 Wabash Avenue,  
CHICAGO, ILL.  
WIRE WORK A SPECIALTY.

**ROGERS PARK FLORAL CO.,**  
**Wholesale Growers of Cut Flowers**  
OFFICE AND SALESROOM,  
41 WABASH AVE., CHICAGO.  
Headquarters for AMERICAN BEAUTIES.

**Wholesale Florists**  
 JOBBER'S IN  
 FLORIST'S  
 SUPPLIES.  
 M. F. Wobbe  
 FLORISTS' VASES.  
 Horticultural Auctioneers,  
 84 HAWLEY STREET, - BOSTON.

**GEO. A. SUTHERLAND,**  
 Successor to Wm. J. Stewart,  
**CUT FLOWERS and FLORISTS' SUPPLIES**  
 WHOLESALE.  
 67 Bromfield St., Boston, Mass.

**City Hall Cut Flower Market**  
**WELCH BROS., Props.**  
 Regular Consignors Given Special Free of Charge. Space left to growers wishing to sell their own goods.  
 Flowers Shipped to all Points.  
**SEND FOR PRICE LIST.**

**W. ELLISON,**  
**Wholesale Cut Flowers,**  
 Florist Supplies. Wire Designs.  
 2744 Franklin Ave., ST. LOUIS, MO.

**C. A. KUEHN,**  
**WHOLESALE FLORIST,**  
 1122 Pine St., St. Louis, Mo.  
 A COMPLETE LINE OF WIRE DESIGNS.

**C. W. WORS,**  
**Wholesale Florist,**  
 313 N. LEFFINGWELL AVENUE,  
 ST. LOUIS, MO.  
 FINE ROSES—Shipped carefully to all parts of the country.

**St. Louis**  
**Cut Flower Co.**  
 WHOLESALE  
 FLORISTS,  
 1620 Olive St.,  
 ST. LOUIS, MO.

**E. G. HILL & CO.,**  
**Wholesale Florists,**  
 RICHMOND, INDIANA.

**COMPLETE LINE OF SUPPLIES**  
**WIREWORK**  
 WE MAKE  
 WE SELL  
 IMPORTERS  
**BULBS**  
 PHONE 1574  
 BOX 75  
**ALWAYS ON HAND**  
**PANS**  
**STICK FLOWERS**  
**ELIJS & POLLWORTH**  
 MILWAUKEE  
 WIS.

When Writing Mention Florists' Exchange

**ASPARAGUS DIMOSUS NANUS,**  
 Cut Strigs, 10 to 12 feet long,  
 30 cts. each.  
 Shipped to every part of the  
 country.  
**- Brighton, Mass.**  
 When Writing Mention Florists' Exchange

**Galax Leaves.**  
**CHAS. H. RICKSECKER,** Linville, N. C.  
 When Writing Mention Florists' Exchange  
**... FOR FINEST ...**

**Galax Leaves and**  
**Leucothea Sprays,**  
 ALWAYS WRITE THE INTRODUCERS,  
**Highlands Nursery, Kawana, N. C.**  
 When Writing Mention Florists' Exchange

**... FOR FERNS! FERNS!**  
 A neat receipt for keeping.  
 Hardy cut ferns, for outside use only, of the following varieties, 60c per 100 for size cut, 75c per 100 for size cut.  
 THOMAS'S MAIL OR DISPATCH  
 ORDERS BY MAIL OR DISPATCH  
**THOMAS'S MAIL OR DISPATCH**  
**Hillsdale, Mass.**  
 When Writing Mention Florists' Exchange

**St. Louis.**  
 Market Quiet.  
 The usual cry of demoralization of business is heard on every side now since last summer weather has set in, a little funeral work once in a while creating a slight stir in the market.  
 The best quality of cut roses is bringing about \$1 per 100 at wholesale, but supply is very limited by the hot weather, which produces large quantities of poor quality flowers, which go begging at \$1 to \$2 per 100. Good extra-ordinary bring \$1 per 100, but there are so many poor ones sold at 50 cents that many florists believe the latter figure to be the market price.  
**The Wedding Plant Trade.**  
 It is very evident from the stocks of bedding plants on the hands of the retail plant growers that the spring plant business has this year been quite a disappointment to most of the vintners, in particular, and all other bedding plants, in a greater or less degree, are found in large quantities among the greenhouse establishments throughout the city, and the plant men, as a rule, feel very blue about the future.

**The News.**  
 Fred. C. Weber is making preparations to occupy his new store in West End, which promises to outclass everything else in the city.  
 The auction sale at Michael Plant and Bulb Company's, on June 23 and 24, was, in a sense, a failure, as the attendance was too light for the amount of stock which had to be sold. In accordance with the prices bid on such of the stock as was sold, there was a total of about \$4,000 worth of plants to be offered. Not over twenty florists were in attendance.  
 Frank M. Ellis succeeds C. G. Fleckenstein as manager of the Fleckenstein Floral Company. He reports business very poor, but has bright hopes for the fall trade. Mr. Fleckenstein, it is understood, has settled permanently in Indiana.  
 A visit to Joseph Kern, at Alton, Ill., shows that the same state of affairs has made life and business a burden to the florists of that little burg this spring.  
 William Trilow, recently of Old Orchard, Mo., has assumed charge of the St. Clair Floral Co., at Belleville, where he will grow carnations and roses next winter.  
 His florist patrons will take place at Fern Glen on July 22. A special train has been chartered for the day and will make two trips to the picnic grounds. The florists are all invited. Further particulars can be had of Jules J. Benoit, 219 Olive Street.

The St. Louis Cut Flower Company has purchased seven greenhouses at Old Orchard, Mo., where it will grow palms, ferns and other decorative plants. M. H.

The Annual Exhibition.  
 The St. Louis Florists' Club will hold its seventh annual chrysanthemum exhibition November 1st, inclusive. In former years one of the halls in the Exposition Building was used, but, owing to changes, it was decided to hold the exhibition this year in the new Coliseum.

**Boston.**  
**Trade on a Summer Basis**  
 The hot weather has arrived; and though slightly behind schedule time its force is not less potent, and what little life exists in trade circles has departed and business is now run strictly on a Summer basis.  
**A Ball Game.**  
 An interesting event of the celebration of the Fourth was a closely contested game of base ball between two nines representing W. E. Doyle and Welch Brothers, respectively. The players were from Dorchester and several hundred spectators, including a great many members of the profession, witnessed the fine points which the contestants brought out. The game resulted to be in favor of the Doyle team. Another game has been arranged between the two teams to be played on Labor Day.

**Weekly Exhibition.**  
 A fine exhibition was presented at the rooms of the Massachusetts Horticultural Society on Saturday last. Wm. Thatcher carried off the honors in Iris, Kamper and Campanula media. Miss M. S. S. carried off the prizes for Iris, and the Bussey Institution one for campanulas. The Society's silver medal was awarded to J. E. Rothwell for Miltonia vexillaria, and W. E. Coburn received honor medals for the Begonia "Lion-ly." Certificate of Merit was awarded to T. C. Thurlow for Rhus colubis atopurpurea, and a similar award to W. H. Loring for Rosa lucida var. alba.

**On Pleasure Boat.**  
 Robert Farquhar left on Thursday to visit and study the Yellowstone Park and the new flow of a hot fountain. His trip will undoubtedly prove of interest to himself, and unquestionably be beneficial to the horticultural profession, information which is sure to be obtained by so careful an observer in such an available locality.  
 George A. Sutherland left on Friday for a two weeks' vacation in Digby, N. S.

F. H. Houghton, of Houghton & Clark, is front fishing at Tim Pond, near Eastis, Maine. On his return the latter part of next week he will go to Newport, where for a time he will manage the business of decorating department of Miss Fadden's business.  
 Your correspondent has had the pleasure of rustivating at Tim Pond for the past two weeks, and can heartily recommend it as a satisfactory resort for one tired of seeking trout, rest, recreation, mountain scenery, good air, and the best of treatment. W. K. W.

**SITUATIONS WANTED.**  
 Rate, 10 cents per line (9 words), each insertion. Cash on application. Apply to situation wanted advertisements and when not answered, send 10c to advertiser to cover our care and receipt to cover expense forwarding.  
**FOREMAN** and manager wanted, American growing, Christian people preferred. Address M. I. care Florists' Exchange.  
**SPRING WATER** by single man, American, with 12 yrs. experience in commercial commerce, 3 years in restaurant. Address "Rosa Crown," care Florists' Exchange.  
**A. D. ROSE** can recommend a first-class commercial grower of roses, carnations, chrysanthemums, etc. Address of latter place, Address A. D. Rose, 200 West 5th Ave., Jersey City, N. J.

**SITUATION** wanted by young Englishman as florist, with 7 yrs. experience. Write care Thomas Conroy, 22 West 53d Street, New York.

**WANTED TO RENT.**  
 Good sized of New York, from 5000 to 8000 feet of glass in running order. Address  
 J. 1019 Magazine Ave., Elizabeth, N. J.

**WANTED.**  
 50 to 100 Second-hand Sash and Frames, for sale. Enly Henderson and Elmhurst Purjes Sweet, Pcs. Bloomsom, delivered in Brooklyn or New York, \$2.00 per 100 stems. P. O. Box 1018, St. Lawrence, Brooklyn, N. Y.

**FOR SALE—SECOND HAND.**  
**SECOND-HAND BOILER MADE NEW**  
 Send for prices on Standard Flower Pot-plant and facer, Jardiniere, etc.  
**WANTED.**  
 By September list, Carnation Plants, 200 S. Spruce, Wm. Scott, and 500 good stock. Give best prices.

**B. E. WADSWORTH,** Danville, Ill.

**FOR SALE.**  
 A large size Albany Steam Trap will return condense water in from five to ten thousand feet of 1/4 in. steam pipe, back to boiler with from 3 to 5 lbs. of steam. The boiler being in the atom, doing away with boiler water, and in good condition. Will sell at \$60.00. Boxed weight, 850 lbs.  
**GEO. H. BENEDICT,** Yorkville, N. Y.

**BUSINESS OPPORTUNITIES**  
**GREENHOUSES FOR RENT.**  
 In thriving Western New York city, 10,000 ft. glass, 12 large greenhouses, about 9,000 feet of glass, well stocked with carnations; good home trade in plants; terms easy. Address  
**PROSSER IMMEDIATE.**  
**Box 367, Oxford, Pa.**

**FOR RENT.**  
 In south eastern Pennsylvania, in center of town, close to station, 50 miles from Philadelphia, twelve large greenhouses, about 9,000 feet of glass, well stocked with carnations; good home trade in plants; terms easy. Address  
**Box 367, Oxford, Pa.**

**FOR RENT.**  
 For a term of five years, in immediate neighborhood of New York; five greenhouses, all well stocked with roses, for further particulars address  
**S. T., care of Florists' Exchange.**

**FOR SALE OR RENT**  
 On easy terms, near Philadelphia, 4 greenhouses, a 7 room dwelling house. Lot 100x250 ft. For particulars apply to  
**MR. THOMAS CARLDEGE,**  
 1514 Chestnut St., Philadelphia.

**TENANT WANTED.**  
 Tenant for my place, autumn, 1 mile out, 12 acres, lots of fruit, ferns of nursery, good for a vacation, about 100 feet of glass, propagator of plants and fruits. Buildings excellent. Furnishings complete. Party engaged. Cause, death in family. No children wanted. Tenant must be first stripe and good chance given.  
**HOWARD MILLER,** Lewisburgh, Union Co., Penna.

**FOR SALE CHEAP.**

**FIVE GREENHOUSES**  
**AT RAMSEYS, N. J.**  
**HITCHINGS & CO., 233 Mercer St., N. Y.**

**FOR SALE AT A BARGAIN.**  
 First-class greenhouse property at Spring Lake, N. J. Fully stocked and doing good business. For particulars apply to  
**MILAN ROSS, Agency,**  
 Ashbury Park, N. J.

**NEWPORT, R. I.**  
 For sale, the property of the late Gilbert L. Ward, comprising more than 5 acres, just over the line in Middletown, having a striking bounded on the east by Einton's Pond, on the west by the New Haven river, commanding an extensive unobscured access of landscape, lake and sea. For full description and particulars with plans, apply to A. J. WALED, Sole Agent, 53 Clarke Street, Newport, R. I.  
 When Writing Mention Florists' Exchange

## Greenhouse Woodwork

Open-air-dried Cypress Lumber is more durable, and better suited to Greenhouse conditions, than kiln-dried stock. But you cannot get it from those that are engaged in the business in a small way—even though their entire business is confined to greenhouse material—for it takes a long time for the lumber to thoroughly dry and this means an investment in lumber that only those of large capital can make. The only way to have air-dried lumber is to buy green lumber and hold it until it dries. Those that order dry lumber from the producers of Cypress get kiln-dried stock. It is cheaper for them to kiln-dry than to hold the stock long enough to season it in the open air. We carry a large stock and fill all orders with open-air-dried Cypress clear of knots, sap and all other defects.

Write for Circulars  
or Estimates.

**Lockland Lumber Co.**

LOCKLAND, OHIO.

When Writing Mention Florists' Exchange

**WELCH BROTHERS,**  
DEALERS IN  
**FLORISTS' SUPPLIES,**  
15 Province Street,  
BOSTON.

Wire Cases, Waxed Sheaves, Baskets, Im-  
mortelles, Deso Flowers, Cut Flowers, Boxes,  
and all other supplies, at prices to meet com-  
petition  
When Writing Mention Florists' Exchange

**M. RICE & CO.,**  
Importers and Manufacturers of  
**FLORISTS' SUPPLIES.**

25 N. 4th St., Philadelphia, Pa.  
NEW FALL CATALOGUE NOV REE & Y  
When Writing Mention Florists' Exchange



NO ADULTERATION

**BONE FLOUR**

NO ACID

References: Fred. Horner & Sons Co.,  
John H. Taylor,  
J. H. Hill & Co.,  
A. F. L. LANE OF BURLINGTON, Vt.

La Fayette, Ind.,  
Rayne, L. I., N. Y.,  
Richmond, Ind.,  
St. Paul, Minn.

Geo. S. Bartlett, 1255-1257 West 6th St., Cincinnati, O.  
Cincinnati Desiccating Co.

## Standard Flower Pots.

Sent for our New Price List with extra discounts. All our Pots, from 1 in. and upwards, have our Patent Eteolator Bottom, which is a great advantage, as it assures perfect drainage.

**THE WHILLDIN POTTERY CO., 713 to 719 Wharton Street, PHILADELPHIA.**  
BRANCH HOUSES: Kearney and Westside Aves., Jersey City, N. J.  
Jackson Ave. and Pearson St., Long Island City, N. Y.

## A GOOD HOSE IS A GOOD INVESTMENT

The best is the cheapest. To ascertain what a hose is worth, divide the cost per foot by the number of years it will last. We are in the market to compete in number of years with anything that is manufactured. Price 12 cts. per foot for 3/4 inch; 16 cts. per foot for 1 inch, and 20 cts. per foot for 1 1/4 inch hose.

Address J. G. & A. ESLER, Saddle River, N. J.

When Writing Mention Florists' Exchange

## FLOWER POTS

We are Manufacturing a Full Line of  
**STANDARD FLOWER POTS AND HANGING BASKETS**  
OF THE BEST QUALITY.

Shipping Facilities First-Class, thereby Securing Lowest Freight Rates.  
Our goods are well packed, and breakage is minimal. Give us a trial, send for Price List.  
Address THE SYRACUSE POTTERY CO., 403 N. SALINA ST., SYRACUSE, N. Y.  
When Writing Mention Florists' Exchange

"48 to 1."

## "JADOO" LIQUID

Both Meat and Drink to Plants. Simply Invaluable in Pot Culture.  
The Best and Cheapest Fertilizer Made.

THE NEW MATERIAL IN WHICH  
"JADOO" FIBRE, Every Plant Thrives Without Earth,  
And which has proved as invaluable to the Grower as to Amateur Gardeners.

TESTIMONIALS AND PRICES FURNISHED ON APPLICATION TO

THE AMERICAN JADOO CO.

811 Fairmount Ave., PHILA., PA.

When Writing Mention Florists' Exchange

Patented by U. S. Patent and  
Trade Mark.

## Pittsburg.

Trade Fair

Last week's trade was fairly good for the summer season and consisted mainly of funeral flowers for the market is overstocked with cut flowers of all kinds. The first asters are being cut and the carnations are beginning to show the effects of hot weather. From the pleasant weather of the past few days an excessive hot spell of the last week is quite trying to plant life, particularly the roses. On the other hand, the market in the nineties for almost a week, reaching 99 degrees several days in succession. On the 20th of the month with a severe storm passed over the two cities, heavy rain and hail doing some damage to crops, but none to glass houses.

The News.

Langhans & Co. furnished a new order of plants for the first roof garden opened in town by the new Hotel Lincoln on Penn Avenue.

John Rader and daughter sail for Europe next week to be absent for several months.

Several of our florists belong to the Elks and are attending the annual meeting in Minneapolis. Among them are C. Ludvigson and family, and Robert Faulk and wife. The latter will likely extend their trip to Yellowstone and is expected to be absent for six or eight weeks.

J. E. Killen was a visitor during the week; also J. A. Evans, of Richmond, Ind.

Invitations are out for the first meeting to be given by the Florists' Club and an enjoyable time is looked forward to. E. C. REINEMAN.

## Chicago.

Scorching Weather Creates Slow Market.

We are experiencing scorching weather, the temperature seldom being below 90 degrees at night and up as high as 95 degrees daytime. This has had its effect on trade, stock and human capacity. In only one case of froststroke among the gardening fraternity that have come under our notice were these roses planted in a semi-utility box, at Kiehm's wholesale store, who was in a bad condition for a time, but is around again, and Maxmaier, who was overcome while mowing the lawn in Humboldt Park. He also is convalescing.

A glorious rain on the night of the Fourth cooled off things somewhat, but the weather is still too much to grow in. Summer is the best time to grow in. Sweet peas are abundant and prices low, even the best of the growing above 15 cents per 100.

The seasonable rains and hot weather have at last started the cannas into good growth, as well as other tender bedding plants that were previously hard-looked subjects. Bedding out is completed. Prices have ruled low, but those parties who attended to this work have, on the whole, quite as good a report to make as those who have to depend upon cut flowers.

John Lang, of Melrose Place, finished planting his chrysanthemums, all from three-inch pots, the first week in July. The number of plants in 700 varieties being Glory of the Pacific, Lady Fitzgibbon, Yellow Queen, Mrs. H. Robinson, Mrs. George Jones, Miss Wanamaker, Ivory, Madine, Liberty and Yanoma.

Mrs. W. E. Lynch left this week for her old New England home. Mr. Lynch expects to pay his annual visit there towards the end of the month.

Bassett & Washburn have invited the

## JOHN CONLEY & SON,

MANUFACTURERS OF

# FOLIAGE

2 and 4 Dominick Street,  
NEW YORK.  
When Writing Mention Florists' Exchange



TELEPHONE 1782 18TH ST.  
When Writing Mention Florists' Exchange

Florists' Club to visit their place in August. The big class of new houses are now nearing completion.

The framework of the new Washington Park conservatory is ready for the glass. They are imposing structures and will afford Mr. Kants much needed room for his stock.

S. Nelson, who has been noted for working up hardy herbaceous gardening in 2nd Avenue, has retained his position as head gardener there. EDGAR SANDERS.

## Cincinnati.

Results of Hot Weather.

We are still doing a little business, but it's a case of sell out every day or feed the cat every next morning. Ice does very little good. Roses will open in spite of your best efforts to prevent them.

Two of the men employed by the Hofmeister Floral Co. were overcome by the heat on the first of the week, but their condition was not serious. This firm has about finished planting and is in a new line of stage for fall business. Their chrysanthemums are looking splendid.

Among Growers.

B. P. Critchell's Sons are still busy planting. I noticed one large house planted with Mountain of Snow chrysanthemum. Mr. Critchell's prices on this variety pays well. Of course, it is not ready much before Christmas, which makes it valuable.

Huntsman & Co. are about through planting their roses. By the number of Beauty being planted at the different growers' establishments I should say that Cincinnati will be well supplied this fall. Quite a number are planting Morgan.

Notings.

A. Peterson and wife leave on the 8th for an extended Eastern tour. George F. Brehmer, of Chillicothe, O., spent several days in the city during the week of the 20th. He has been shipping the roses. John W. Holland, O., was also a caller. He tells me the firm has put up a new line of boxes, 10x6 feet in which to grow roses.

W. W. Coles, of Kokomo, Ind., was a caller on the 20th of the week. He is sending the writer some of the best Beauty and K. A. Victoria roses that I have ever seen in this line of year, the stems are 23 to 35 inches in length and he says he can cut some much longer in the future. The foliage also is perfect for the season. Mr. Coles grows his roses entirely in solid beds. Meteor did equally well in the city.

E. G. GILLETT.

Lansing, Mich.

George W. Park, a pioneer nurseryman, died here recently, aged 95 years.

Baltimore.

The establishment of Maurice A. Hantske, on Gettings Avenue, sold at auction on June 28.

## CATALOGUES RECEIVED.

HENRY BEAULIEU, Woodhaven, L. I.—Price List of Seeds, Bulbs, Plants and Garden Supplies.

HENRY A. DREER, Philadelphia.—Quarterly Wholesale Price List of Bulbs, Seeds, Plants, etc.

Ch. Molin, Lyon, France (H. Beaulieu, Woodhaven, Long Island). Catalogue of seeds, Plants, Trees, etc.

**LORD & BURNHAM CO.,**  
**HORTICULTURAL ARCHITECTS AND BUILDERS,**  
**STEAM AND HOT WATER HEATING ENGINEERS.**

Plans and Estimates furnished on application.



Largest Builders of Greenhouse Structures. Six Highest Awards at the World's Fair. Send four cents postage for Illustrated Catalogue.

**LORD & BURNHAM CO.,**  
 ARCHITECTURAL OFFICE, 160 FIFTH AVE., COR. 21st STREET, NEW YORK.  
 Factory: Irvington-on-Hudson, New York. Mention paper?

**CHOCOLATE COOLER CO.,**  
 GRAND RAPIDS, MICH.

Manufacturers of

**FLORIST'S REFRIGERATORS.**

Send for Circular.

When Writing Mention Florists' Exchange

**THE BEST FOR ALL Florists.**

FOR SALE BY Seed Stores. For Free Pamphlet, write to **ROSE LEAF TOBACCO CO.** Louisville, Ky.

When Writing Mention Florists' Exchange

**EVERY FLORIST OUGHT TO INURE HIS GLASS AGAINST THIEF.**

For particulars address **JOHN G. ENLOR, 307y, Saddle River, N. J.**



**VALVES, FITTINGS AND VENTILATING APPARATUS.**  
**COLDWELL, HILCOX CO.,**  
 Newburgh, N. Y.  
 Mention paper.

**Boston Florist Letter Co.**



This machine has nicely stained and varnished, 18x30 1/2 size, in two sections, one for each size letter, given away with first order of 1000 letters. Black Letters, 1 1/2 or 2 inch size, per 100, \$2.00 Script Letters, \$4.00  
 Pattern with supply letter. Used by leading florists everywhere and for sale by all wholesale florists and other dealers.  
**N. F. MCCARTHY, Trade & Manager.**  
 252 1/2 St., BOSTON, MASS. 02107.

**DO NOT BE HUMBUGGED Into Using CHEAP Imitations of our GREEN SILKALINE**



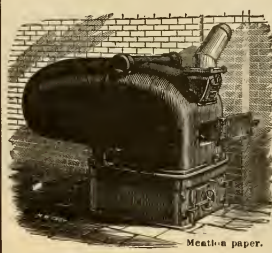
\*Contains more cord and does more work than anything else on the market. The original GREEN SILKALINE made solely by **JOHN C. MEYER & CO.,** 25 Summer Street, BOSTON, MASS., U. S. A.

**SCOLLAY'S IMPROVED PUTTY BULB**  
 For Glazing Sash, Etc., Also THE PATENT PLANT SPRINKLER

For sale by your Seedman or sent, postpaid for \$1.00.  
**JOHN A. SCOLLAY,**  
 14 & 17 Myrtle Ave.,  
 BROOKLYN, N. Y.

SEND STAMP FOR CATALOGUE. When Writing Mention Florists' Exchange

**GREENHOUSE HEATING AND VENTILATING,**  
 Horticultural Architecture and Building.



Month's paper.

**Hitchings & Co**

ESTABLISHED 1844.  
 233 Mercer Street, NEW YORK

**FIVE PATTERNS OF BOILERS.**  
 NINETEEN SIZES.  
 Perfect Sash Building Apparatus.  
 Roshouse, Greenhouses, Etc., of Iron Frame Construction erected complete or the Structural Iron Work shipped ready for erection.  
 Iron Frame Frames with the "Perfect Drainage Bench Tie" or Slate Top.

SEND 4c. POSTAGE FOR ILLUSTRATED CATALOGUE.

**HAVE YOUR COLLECTIONS MADE THROUGH THE NATIONAL FLORISTS' BOARD OF TRADE,**  
 271 BROADWAY, NEW YORK.

**GROW PLANTS IN "Jadoo" Fibre. WATER THEM WITH "Jadoo" Liquid.**  
 When Writing Mention Florists' Exchange

**STANDARD POTS.**

We are now ready to supply a superior quality of Pots in unlimited quantities Catalogues and price lists furnished on application.

**A. H. HEWS & CO.,**  
 NORTH CAMBRIDGE, - MASS.

**STANDARD FLOWER POTS**

In any quantity, and of the best quality. Get my price list before ordering elsewhere.

**W. H. ERNEST,**  
 Station M. N. E., WASHINGTON, D. C.  
 When Writing Mention Florists' Exchange

**HILFINGER BROS. STANDARD FLOWER POTS.**

We manufacture a full line of Standard Pots, Seed Pans, Cylinders, slanted and upright, Lava Pots and Hanging Vases. Each of our standard Lava Vases, 12 1/2 inch, \$1.00 each 12 1/2 inch, \$1.50 each. Extra sizes, 12 inch, \$1.00 each 10 1/2 inch, \$1.00 each 10 inch, \$1.00 each 8 1/2 inch, \$1.00 each 8 inch, \$1.00 each 6 1/2 inch, \$1.00 each 6 inch, \$1.00 each 4 1/2 inch, \$1.00 each 4 inch, \$1.00 each 3 1/2 inch, \$1.00 each 3 inch, \$1.00 each 2 1/2 inch, \$1.00 each 2 inch, \$1.00 each 1 1/2 inch, \$1.00 each 1 inch, \$1.00 each

Send for Price List for other sizes before ordering elsewhere. Address  
**HILFINGER BROS.,** Fort Edward, N. Y. or AUGUST ROLKER & SONS, 136 & 138 W. 24th St., N. Y. City  
 When Writing Mention Florists' Exchange

**CHANGED PRICE LIST OF Neponset Flower Pots**

IN FORCE FROM JULY 1st, 1897.  
 Terms—Net cash with order. If ordered shipped by freight, add 50 cents cartage.

Rise	Gross Weight	Per 100 Per 100
14 1/2 inch	1000	about 30 lbs. \$0 25 \$2 50
14 inch	1000	24 " " 20 " 2 00
13 1/2 inch	1000	24 " " 20 " 2 00
13 inch	1000	24 " " 20 " 2 00
12 1/2 inch	1000	24 " " 20 " 2 00
12 inch	1000	24 " " 20 " 2 00
11 1/2 inch	1000	24 " " 20 " 2 00
11 inch	1000	24 " " 20 " 2 00
10 1/2 inch	1000	24 " " 20 " 2 00
10 inch	1000	24 " " 20 " 2 00
9 1/2 inch	1000	24 " " 20 " 2 00
9 inch	1000	24 " " 20 " 2 00
8 1/2 inch	1000	24 " " 20 " 2 00
8 inch	1000	24 " " 20 " 2 00
7 1/2 inch	1000	24 " " 20 " 2 00
7 inch	1000	24 " " 20 " 2 00
6 1/2 inch	1000	24 " " 20 " 2 00
6 inch	1000	24 " " 20 " 2 00
5 1/2 inch	1000	24 " " 20 " 2 00
5 inch	1000	24 " " 20 " 2 00
4 1/2 inch	1000	24 " " 20 " 2 00
4 inch	1000	24 " " 20 " 2 00
3 1/2 inch	1000	24 " " 20 " 2 00
3 inch	1000	24 " " 20 " 2 00
2 1/2 inch	1000	24 " " 20 " 2 00
2 inch	1000	24 " " 20 " 2 00
1 1/2 inch	1000	24 " " 20 " 2 00
1 inch	1000	24 " " 20 " 2 00

See quantities than full rates at 100 rates.  
**F. W. BIRD & SONS, Manufacturers.**  
 Address orders to our Agents.  
**August Rolker & Sons**  
 NEW YORK.  
 R. & J. FARQUHAR & CO., Boston, Mass.  
 When Writing Mention Florists' Exchange

**Evans' Improved Challenge.**  
 Roller bearing, self-acting device, automatic stop, solid link chain, makes the LITTLE CHALLENGER the most perfect apparatus in the market.  
 Write for catalogue and prices before placing your orders elsewhere.  
**Quarter City Machine Co.,**  
 RICHMOND, IND.

**SUMMER IN WINTER**

By Using **Standard Greenhouse Boilers**  
 One cent gets our Catalogue.

**GIBLIN & CO.,** Utica, N. Y.  
 When Writing Mention Florists' Exchange

**Chadborn's Automatic Ventilator**  
**CHADBORN, KENNEDY & CO.**  
 NEWBURGH, N. Y.

**IF YOU WANT A GOOD SASH LIFT**  
 For a Very Little Money Get



THE "NEW DEPARTURE" VENTILATING APPLIANCE

For Descriptive Catalogue Send to **J. D. CARMODY, Evansville, Ind.**  
 When Writing Mention Florists' Exchange

**CYPRESS**  
 IS MUCH MORE DURABLE THAN PINE.  
**CYPRESS SASH BARS**  
 UP TO 2 FEET IN LENGTH OR LONGER.  
**GREENHOUSE**  
 AND OTHER BUILDING MATERIAL.  
 Send for our Illustrated Book "CYPRESS LUMBER AND ITS USES" for our Special Greenhouse Circular.  
**THE A. T. STEARNS Lumber Co.,**  
 Neponset, Boston, Mass.

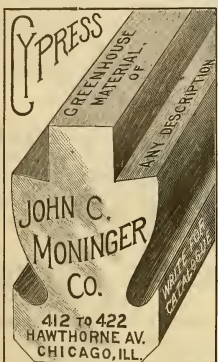
When Writing Mention Florists' Exchange

**IMPROVED GLAZING.**

**J. M. GASSER'S PATENT ZINC JOINTS**

For Butting Glass Without Laps. Makes a Roof Air and Water Tight. Saves Fuel. No Breakage from Frost or Medium Sized Hail. Manufactured by

**J. M. GASSER,**  
101 Euclid Avenue, CLEVELAND, OHIO.  
Wholesale and Retail Florist.  
Write for Prices and Circulars.  
When Writing Mention Florists' Exchange



When Writing Mention Florists' Exchange

**CHRYSANTHEMUMS** All the best standard varieties. From pots, \$2.00 per 100. Mrs. H. Robinson, \$3.00 per 100.  
**VIOLETS** California, Marie Louise, single stem. From 3/4 inch pots, \$1.50 per hundred.  
**SMILAX** Strong bushy plants, 3/4 inch pots, \$2.00 per hundred; 7 inch pots, \$2.00 per hundred.

C. EISELE, 11th & Jefferson Streets, Philadelphia, Pa.

**Cycas Leaves and Wire Frames, BASKETS AND SUPPLIES, FLORISTS' SEEDS AND BULBS,**  
At wholesale only. Apply for list. Address  
**AUGUST RÖLKER & SONS, NEW YORK,**  
136 and 138 W. 24th St. P. O. Station E.

**Look at he-er!**

That's my back yard. In that back yard are my greenhouses, and in those greenhouses we find

**Ormsby's :::: Ventilating System.**

It's the best you ever saw. It's the nearest you ever need to see. It's the best adapted to nice houses. If you don't believe it write to

**E. A. ORMSBY, Melrose, Mass.**  
When Writing Mention Florists' Exchange

**HAVE RICH MELLOW LAND.**

**AGRICULTURAL DRAIN TILE.** This condition is sure to follow through drainage with JACKSON'S Round and Sewer Pipe, Best and Fire-Brick, Green Tile, Chimney and Water Pipe, and Best and Fire-Brick, Green Tile, Chimney and Water Pipe. Write for prices. John H. Jackson, 11 3rd Av. Albany, N.Y.

When Writing Mention Florists' Exchange

**PIPE VALVES**

Wrought Iron Pipes, Valves, Cooks, Fittings, etc., for Stams and Hot Water; Rubber Hose, Pumps and Wall Fittings.  
**WM. H. KAY, 42 Day St., New York.**

When Writing Mention Florists' Exchange

**GLASS**

FOR GREENHOUSES, CONSERVATORIES, GRAPERIES, HOTBEDS AND FLORISTS' USE GENERALLY, AT LOWEST RATES.  
**L. HERRIS & SON,**  
497 W. BROADWAY, NEW YORK, 821 Broadway and Church Sts., Detroit and Rochester N.Y.

When Writing Mention Florists' Exchange

**GLASS!**

For Greenhouses, Conservatories, Graperies, Hotbeds and all other purposes, at Lowest Rates.  
**N. COWEN'S SON, 392 & 394 West Broadway, New York.**  
Formerly 184 and 156 So. Fifth Avenue.  
Get our Figures before buying Glass. Estimates Freely Given.

When Writing Mention Florists' Exchange

**GREENHOUSE GLASS.**  
THE WOOD, W. F. Gable & CO. COMPANY,  
226 N. SALINA ST., ROCHESTER, N.Y.

When Writing Mention Florists' Exchange

**CALIFORNIA RED CEDAR**

Never Decays.  
**A. DIETSCH & CO. 619 Sheffield Avenue, CHICAGO.**

MANUFACTURERS OF RED CEDAR AND CYPRESS GREENHOUSE MATERIAL.  
When Writing Mention Florists' Exchange

**LARGEST AND BEST STOCK OF PREPARED CYCAS LEAVES**

TO BE FOUND ANYWHERE

Metal Floral Designs, Sheaves, Doves, Baskets, Moss Wreaths, Wheat, Milkweeds, Cape Flowers, Wire Work, and all Florists' Supplies.

Write for catalogue. Free to the trade.

**A. HERRMANN, 404-412 East 34th Street (Near Ferry), New York,**  
Manufacturer of METAL FLORAL DESIGNS, Importer and Dealer in FLORISTS' SUPPLIES.

When Writing Mention Florists' Exchange

**Florists' Supplies.**

Largest Stock in the Country.

All goods up to date, and of superior quality. Send for Illustrated Catalogue.

**H. BAYERSDORFER & CO., 56 N. FOURTH STREET, PHILADELPHIA, PA**

When Writing Mention Florists' Exchange



**THE VAN REYPER PERFECT GLAZIERS' POINTS**

No rights or lefts. Price per box of 1000, 60¢ by mail, 75¢; in lots of 5000 by ex., 55¢ per 1000.  
**HENRY A. DREER, 714 Chestnut St., Phila., Pa.**

When Writing Mention Florists' Exchange

SEND FOR OUR NEW CATALOGUE, WHICH SHOWS  
**The New Automatic Cable Ventilator**  
As it is put up in the house complete. We also give you prices with a guarantee that each machine sent out will operate your house successfully. 800 machines now made in two sizes.  
**A. Q. WOLF & BRO., Dayton, Ohio.**

When Writing Mention Florists' Exchange

**TRADE GREENHOUSES.**

THE BEST MADE.

"Florists" Get Your Plans and Estimate from  
**PLENTY'S HORTICULTURAL WORKS,**  
148-156 Randolph Ave., JERSEY CITY, N.J.

When Writing Mention Florists' Exchange

**STANDARD VENTILATING MACHINE.**

NONE EQUAL IT IN Strength AND Durability. NOTHING Flimsy OR Complicated about it.  
**E. HIPPAID, YOUNGSTOWN, OHIO.**

When Writing Mention Florists' Exchange

**MASTICA**

FOR GLAZING GREENHOUSES. SUPERIOR TO PUTTY IN EVERY WAY.  
Is not hardened by the extreme heat or cold that a greenhouse is constantly subjected to both inside and out. Mastica is adhesive and remains permanently elastic so that it is not forced out of place by expansion and contraction of the wood-work. Houses glazed with Mastica do not need re-glazing, thus saving time and expense. With Mastica can "bed-in" or sag on the outside, but with a machine only. Mastica and Mastica Glazing Machine were given  
**HIGHEST AWARD OF SOCIETY OF AMERICAN FLORISTS AT PITTSBURGH, 1895.**  
Put up in gallons, \$1.00. Half gallons, 80 cts. Quarter gallons, 35 cts.  
Mastical Glazing Machines, \$1.00 each.  
Send for full descriptive circular and testimonials. Agents in all the principal cities.

**F. O. PIERCE CO., Sole Manufacturers, 170 Fulton St., New York.**  
When Writing Mention Florists' Exchange

# LIFE FLORISTS' EXCHANGE

We are a straight shoot and aim to grow into a vigorous plant.

A WEEKLY MEDIUM OF INTERCHANGE FOR FLORISTS, NURSERYMEN, SEEDSMEN AND THE TRADE IN GENERAL.

VOL. IX. No. 29.

NEW YORK, JULY 17, 1897.

One Dollar Per Year.

## ..PALMS..

Owing to our stock being grown with plenty of air the plants are all strong and sturdy, and will bear transportation for long distances. Florists intending to purchase this class of stock for their fall trade will do well to place their orders immediately, so that they can have them shipped by freight, thus avoiding the expensive express charges which they would have to pay if shipped during the cold weather. The prices will also be very much higher in the fall than at the present time, owing to the high duty which will then be in force.

### ARECA LUTESCENS.

4 inch pots, 15-18 inches high, 3 plants in a pot.....\$4.50 per dozen; \$35.00 per 100  
6 inch pots, 20-24 inches high, 3 plants in a pot.....\$6.00 per dozen; \$50.00 per 100

### KENTIA BELMOREANA.

3 inch pots, 8-12 inches high, 4-8 leaves.....\$3.50 per dozen; \$31.00 per 100  
4 inch pots, 12-15 inches high, 4-8 leaves.....\$5.50 per dozen; \$50.00 per 100  
6 inch pots, 18-23 inches high, 6-7 leaves, stocky.....\$8.00 per dozen; \$75.00 per 100

### KENTIA FORSTERIANA.

3 inch pots, 12-15 inches high.....\$15.00 per 100  
4 inch pots, 15-18 inches high.....\$4.50 per dozen; \$35.00 per 100  
6 inch pots, 20-24 inches high.....\$9.00 per dozen; \$75.00 per 100

### LATANIA BORBONICA.

3 inch pots.....\$10.00 per 100  
4 inch pots, 12-15 inches high.....\$5.00 per dozen; \$35.00 per 100  
6 inch pots, 18-23 inches high.....\$6.00 per dozen; \$50.00 per 100  
8 inch pots, 24-28 inches high, stocky plants.....\$9.00 per dozen; \$75.00 per 100

**COGOS WEDDELIANA.** 3 inch pot.....\$3.00 per dozen; \$35.00 per 100

**LIVISTONA HOOGENDORPII.** 4 inch pots, 10-12 inches high, 7 leaves, \$4.50 per dozen; \$35.00 per 100.

**LIVISTONA ROTUNDFOLIA.** 5 inch pots, 12-15 inches high, 7-8 leaves, strong plants, \$1.50 each; \$18.00 per dozen.

**PHENIX RECLINATA.** 5 inch pots, 15-18 inches high.....\$6.00 per dozen; \$45.00 per 100

## PITCHER & MANDA, Short Hills, N. J.

JOHN N. MAY, Receiver.

When Writing Mention Florists' Exchange

## WINTER FLOWERING ROSES.

Our stock of these is very large, and in exceptionally fine shape. We offer all the leading varieties, strong plants, 2 1/2 in pots, as follows:

- PERLE, BRIDESMAID, BRIDE and MME. CUSIN.** \$5.00 per 100; \$40.00 per 1000.
- MME. CAROLINE TESTOIT and MRS. PIERPONT MORCAN.** \$6.00 per 100; \$50.00 per 1000.
- AMERICAN BEAUTY,** \$9.00 per 100; \$80.00 per 1000.
- PRESIDENT CARNOT.** \$15.00 per 100; \$125.00 per 1000.

We have a fine stock, also, of the new climbing **YELLOW RAMBLER ROSE**

The only hardy yellow climbing rose yet introduced. A worthy companion to the wonderful Crimson Rambler. Strong plants, 2 1/2 in. pots, \$15.00 per doz; \$10.00 per 100. Strong plants, 3 1/2 in. pots, \$3.00 per doz; \$20.00 per 100.



The above Rose Stock is in perfect shape and will please the most fastidious. Samples sent if desired. We invite inspection of stock.

## DOUBLE TUBEROUS BEGONIAS

In order to close out stock remaining on hand of **DOUBLE TUBEROUS BEGONIAS** we offer what stock we have as long as unsold at \$3.00 per 100; \$25.00 per 1000. This is only the price of ordinary Single Begonias, and considerably below cost. We offer at this nominal price only in order to clear out stock we have left.

We have a sur- **TUBEROSE PEARL** Extra quality bulbs, 4 1/2 inches in circumference, plus also, of **TUBEROSE PEARL** perfect shape, 50c. per 100; \$4.00 per 1000.

**SPEAK QUICK IF YOU WANT THESE BARGAINS.**

Our Wholesale List of Palms, Decorative Plants, etc., will be sent free on application.

## F. R. PIERSON CO.,

TARRYTOWN-ON-HUDSON, NEW YORK  
When Writing Mention Florists' Exchange

## 1000 METEOR RISES

For \$75.00; \$8.00 per 100. Fine, Strong, Clean Stock.

## 1000 NEW CANNA AUSTRIA

For \$80.00; \$10.00 per 100. Fine Stock.

**PALMS, FERNS and DRACÆNAS** of every Kind, Size and Price. **BAY TREES** all Sizes. All for the Trade.

## FRESH PALM SEEDS JUST ARRIVED

- KENTIA BELMOREANA.** . . \$7.00 per 1000.
- SEAFORTHIA ELEGANS.** . . \$5.00 per 1000.

## SIEBRECHT & SON,

Rose Hill Nurseries, NEW ROCHELLE, N. Y.

When Writing Mention Florists' Exchange

## VAUGHAN'S INTERNATIONAL PANSY MIXTURE.



This is the Pansy mixture for every Florist who wants to grow the best and realize the highest prices for his flowers and plants. It contains the cream of the cream of every noted Pansy grower's product of the world. It embraces all the choicest colors of fancy German strains, so well known for their richness of color and perfection of shape; it contains all the separate colors of the Giant Tricolors, with their immense flowers and rich colors. It contains the Giant Cassier and Bugnot strains, the product of two celebrated Scotch strains, the Faisne and Boulogne Giants. In fact, there is no strain of any of the celebrated Pansy specialists not represented in our International Mixture. Price, per lb. \$10.00; 5 lb. \$50.00; 1/2 ct., \$1.50; trade pkt. 50c.

**VAUGHAN'S MIXTURE OF GIANT PANSIES.**  
This mixture is composed of Giant Flowering Pansies and the separate colors of Tricolors. It will produce a larger variety of colors than any other large flowering Pansy mixture and is especially suited to a trade that demands large Pansy flowers. Price, per lb. \$10.00; 5 lb. \$50.00; 1/2 ct., \$1.50; 1/4 ct., 75c; trade pkt. 50c. Send for complete list of Pansies in separate copies.

## HARRISII AND FREESIAS READY.

14 Barclay Street, **VAUGHAN'S SEED STORE,** 84 Randolph St. NEW YORK, CHICAGO.

When Writing Mention Florists' Exchange

**SEASONABLE SEEDS!**



**FRIMULA FIMBRIATA**

(Chinese Primrose).  
 Rubra (Red), Alba (White), Alba Magnifica, Rubra Violacea, Chiswick Red, Meteor, Village Maid or Choice Mixed.  
 Trade Packages, 50c. and \$1.00.

**CINERARIA**

Hybrida Grandiflora choice mixed, Extra Fine Dwarf Mixed, Grandiflora, Kermesina, Duu. Flowering.  
 Trade Packages, 50c. and \$1.00.

**CALECOLARIA**

Hybrida Grandiflora choice mixed, Trade Packages, 50c. and \$1.00.

**WM. ELLIOTT & SONS**  
 NEW YORK.

When Writing Mention Florists' Exchange

HAVE YOUR COLLECTIONS MADE THROUGH THE NATIONAL FLORISTS' BOARD OF TRADE, 271 BROADWAY, NEW YORK.

**BURPEE'S SEEDS**  
 PHILADELPHIA  
 WHOLESALE PRICE LIST FOR FLORISTS AND MARKET GARDENERS  
 When Writing Mention Florists' Exchange

**TURNIP SEED, VARIETIES**  
**CUCUMBER SEED**, Best kinds for Pickling.  
**First consignments of Our "SURE CROP" ENGLISH MUSHROOM SPAWN** just arrived, quality better than ever. Prices right to Dealers.  
**WEBER & DON**, Seed Merchants and Growers,  
 114 Chambers St., NEW YORK CITY.  
 When Writing Mention Florists' Exchange

**Fresh Seeds—Calla Bulbs.**

**Apple Geranium** (true), 35 cts. per pkt.; \$1.00 per 100 seeds; \$7.50 per 10,000 seeds.  
**Missa Francica**, 75 cts. per 100 seeds; \$6.00 per 1000 seeds.  
**Scarfonia Elegans**, 40 cts. per 100 seeds; \$3.00 per 1000 seeds.  
**Cyperus Alternifolius**, 25 cts. per pkt. \$1.00 per 1000 seeds.  
**Phormium Tenax**, 25 cts. per 100 seeds; \$2.50 per 1000 seeds.  
**P. Tenax Variegata**, 50 cts. per 100 seeds; \$5.00 per 1000 seeds.  
**Alysharia Australis** (Tree Fern), 50 cts. per 50.  
 Send for prices on Calla Lilies, August and September delivery. Send for Trade List of varieties and Specialities for Autumn delivery.  
**MRS. THEODOSIA B. SHEPHERD**  
 Venturers by the Sea, Cal.  
 When Writing Mention Florists' Exchange

**建 FREESIAS! FREESIAS! FREESIAS!**

Callas, Callas, Callas Ethiopica, and Improved Little Gem.

We also offer until sold

**FRESH SEED CORYPHA AUSTRALIS, FRESH SEED SEAFORTHIA ELEGANS,**

Delivered at \$2.75 per 1000 to clear stock. Cash with order. 100 seeds for 50 cts.

**SEND FOR OUR NEW PRICE LIST.** Send us list of wants and will estimate for you. Prices given on all Japan, California, French and Dutch Bulbs, Seeds, Plants and anything pertaining to the florists' line  
 Address, **H. H. BERGER & CO., 220 Broadway, New York.**  
 Branch Office, San Francisco, Cal. (Established 1878).  
 When Writing Mention Florists' Exchange

**CYCLAMEN PERSICUM GIGANTEUM.**

**NEW CROP SEED JUST RECEIVED.**

OUR supply of this important Florist flower is grown especially for us by the most successful cultivator in Europe. Each variety is grown in a separate house insuring purity of color. We can supply in the following distinct colors.

Pure Snow White	Per 100 Seeds	Per 1000 Seeds
White with Carmine Eye	1.25	10.00
Deep Rose Color	1.25	10.00
Brilliant Blood Red	1.25	10.00
Choicest Mixed Colors	1.00	8.00

250 Seeds or over at 1000 rate.

**NEW CROPS OF PANSY, PRIMULA, &c., EXPECTED DAILY.**

Send for our Wholesale Price List of Seeds, Bulbs, Plants, &c.

**HENRY A. DREER, 714 Chestnut St., Philadelphia, Pa.**  
 When Writing Mention Florists' Exchange



**BUY FROM THE GROWERS DIRECT**

**ALL BULBS AND PLANTS**

For Summer and Fall Delivery, Quoted at Very Low Rates.

**HULSEBOSCH BROS., Englewood, N. J.**

When Writing Mention Florists' Exchange

**PALM**  
 Seed. FRESH ON HAND  
 Chameroe excellent, Per 100 1000 5000  
 Philadelphica, \$0.50 \$5.00 \$20.00  
 to Iowaensis, 1.00 7.50 30.00  
 to Florida, 1.00 7.50 30.00  
 to California, 1.00 7.50 30.00  
 to Texas, 1.00 7.50 30.00  
 Phenol slanted, 1.00 7.50 30.00  
 to Florida, 1.00 7.50 30.00  
 to Texas, 1.00 7.50 30.00  
**J. L. SCHILLER, Rutherford, N. J.**  
 When Writing Mention Florists' Exchange

**SEEDS**  
 KENTUCKY BLUE GRASS (POA PRATENSIS).  
**CHAS. E. PRUNTY,**  
 MAIN AND MARKET, SAINT LOUIS.  
 When Writing Mention Florists' Exchange

**AMERICAN BULB COMPANY, BULBS, PLANTS AND SEEDS.**

Successors to the Bulb and Seed business of **PITCHER & MANDA.**  
 Our prices are lowest for guaranteed quality. Get our special prices on anything you require before ordering.  
**3 one packet \$1.**  
 3 one packet \$1.  
**SHORT HILLS, NEW JERSEY.**  
 When Writing Mention Florists' Exchange

**BULBS, ROOTS, and DECORATIVE PLANTS,**  
 For Fall Delivery, Now Ready. Send for Catalogue.  
**F. W. O. SCHMITZ, JERSEY CITY, N. J.**  
 When Writing Mention Florists' Exchange

**ALLEN'S DEFIANCE MIGNONETTE**  
 New Crop, Growing Outside and Looking Fine, will be Ready August 1st.  
 This stock is all grown from special selected spikes and is sure to prove good under proper treatment. \$1.00 per doz.; 50 cts. per packet.  
 Still a little of the original crop left which will germinate about 50 per cent., at \$1.00 per pkt.  
**CHARLES H. ALLEN, FLORAL PARK, N. Y.**  
 When Writing Mention Florists' Exchange

**HERR'S PANSIES**  
 ARE THE BEST.  
 When Writing Mention Florists' Exchange

Seed, \$1.25 per 1/4 ounce.  
 Plants, \$5.00 per 1000;  
 75c. per 100; 2500  
 for \$10.00.  
**ALBERT M. HERR,**  
 LANCASTER, PA.  
 When Writing Mention Florists' Exchange

**F. E. McALLISTER CO.**  
 SEED AND BULB MERCHANTS,  
 69 CORTLANDT STREET, NEW YORK.

**Seasonable Florists' Flower Seeds.**  
**Primula Sinensis Fimbriata**, alba, sibirica magnifica, bright red, rose, blue or mixed. Per Trade Pkt. (250 seeds), \$1.  
**Cineraria James' Giant Strain**, Highly recommended by all who have grown it. Per Trade Pkt. \$1.  
**SHILAK STRING, RUSTIC BASKETS, SPRINKLING CANS, BAMBOO CANS**, and all other kinds of Florists' Requisites always on hand.  
 Communications to **JOHN S. GARRISON, Assignee, 69 Cortlandt St., N. Y.**  
 When Writing Mention Florists' Exchange

**CLUCAS & BODDINGTON CO.,**  
 Importers, Exporters and Growers' Agents of Plants, Seeds and Bulbs,  
 601 and 603 W. 13th St.,  
 Telephone Call, 405 18th St., NEW YORK CITY.  
 When Writing Mention Florists' Exchange

**HEADQUARTERS FOR Callas and Freesia Bulbs**  
**PAMPAS PLUMES,**  
 Palm, California Tree and Flower Seeds.  
 Please let us book your orders for BULBS at once. . . . .  
 ASK FOR SPECIAL PRICES.

**GERMAIN FRUIT CO. Los Angeles, Cal.**  
 When Writing Mention Florists' Exchange

A CHANGE of Air, is often as necessary as a change of diet, and for the same reason—to keep true and body healthy.



**GALVANIZED WIRE PLANT STAKES** From \$5.00 per 1000 upwards.

RUBBER HOSE from 6 cents per foot.

H. F. LITTLEFIELD, WORCESTER, MASS.  
When Writing Mention Florists' Exchange



**NO ADULTERATION BONE FLOUR NO ACID**

References: Frnd. Horner & Sons Co., La Fayette, Ind.  
John H. Taylor, Bayard, N. Y.  
E. H. Hill & Co., Richmond, Ind.  
E. J. May & Co., St. Paul, Minn.

GEO. S. BARTLETT, 1255-1257 WEST 6TH ST., CINCINNATI, O.  
SUCCESSOR TO CINCINNATI DESSICATING CO.

When Writing Mention Florists' Exchange

**Standard Flower Pots.**

Send for our New Price List with extra discounts. All our Pots, from 7 in. and upwards, have our Patent Escalator Bottom, which is a great advantage, as it insures perfect drainage.

A FULL LINE OF BULB PANS.

THE WHILLDIN POTTERY CO., 713 to 719 Wharton Street, PHILADELPHIA.  
BRANCH HOUSES: } Kearney and Westside Aves., Jersey City, N. J.  
} Jackson Ave. and Pearson St., Long Island City, N. Y.

When Writing Mention Florists' Exchange

**A GOOD HOSE IS A GOOD INVESTMENT**

The best is the cheapest. To ascertain what a hose is worth, divide the cost per foot by the number of years it will last. We are in this market to compete in number of years with anything that is manufactured. Price 12cts. per foot for 1/4 inch; 15cts. per foot for 3/4 inch, and 21cts. per foot for 1 inch hose.

Address J. G. & A. ESLER, Saddle River, N. J.

When Writing Mention Florists' Exchange

**Emil Steffens** SUCCESSOR TO H. STEFFENS  
Manufacture of H. STEFFENS Bros.  
ESTABLISHED 1866  
**WIRE DESIGNS**  
AND SUPPLIES  
335 EAST 21<sup>ST</sup> STREET, NEW YORK CITY.

When Writing Mention Florists' Exchange

**FLOWER POTS**

We are manufacturing a Full Line of **STANDARD FLOWER POTS and HANGING BASKETS** OF THE BEST QUALITY.

Shipping Facilities First-Class, thereby Securing Lowest Freight Rates. Our goods are well packed, and breakage is nominal. Give us trial for Price List.  
Address THE SYRACUSE POTTERY CO., 403 N. SALINA ST., SYRACUSE, N. Y.

When Writing Mention Florists' Exchange

The live Florist is now planning for next season. Are you he? If so, or not, do not overlook the assisting features that might go with use of a set of

**LONG'S FLORISTS' PHOTOGRAPHS.**

INTENDED FOR USE IN TAKING ORDERS. NEW CATALOGUE FREE.  
Also a new and adaptable FLORISTS' CATALOGUE of Cut Flowers and Arrangements.  
CIRCULAR ON APPLICATION.

DAN'L B. LONG, Publisher, BUFFALO, N. Y.  
When Writing Mention Florists' Exchange

"48 to 1."

**"JADOO"**

Both Meat and Drink to Plants. Simply invaluable in Pot Culture.  
The Best and Cheapest Fertilizer Made.

**"JADOO" FIBRE**, THE NEW MATERIAL IN WHICH Every Plant Thrives Without Earth, And which has proved as invaluable to the Grower as to Amateur Gardeners.

TESTIMONIALS AND PRICES FURNISHED ON APPLICATION TO  
THE AMERICAN JADOO CO.,  
811 Fairmount Ave., PHILA., PA.  
When Writing Mention Florists' Exchange

**PLANT LABELS!**

Best grade, 15 cts. per 1000. Tean manilla. Catalogues Wras press 25 cts. per 100. Send for samples. Marshall & Hill, Printers, Yellow Springs, Ohio.  
When Writing Mention Florists' Exchange

**FOR MILDEW AND BLACK ROT**

on Roses, Fruits and Vegetables, and Carnation Leaves.

USE FOSTITE, 5 pence, 50 cts. 25 pounds \$2.00.  
C. H. JOOSTEN, IMPORTER OF PLANTS, 193 Greenwich St., New York.  
When Writing Mention Florists' Exchange

**SHEEP MANURE.**

We have the finest, prepared, at \$25.00 per 100 lbs.; 1/4 ton at ten prices.

GODFREY ASCHMANN, 1012 Ontario St., PHILA., PA.  
When Writing Mention Florists' Exchange

THE BEST FOR ALL Florists.

ROSE LEAF INSECTICIDE

FOR SALE BY Seed Stores.

For Free Pamphlet, write to LOUISVILLE SPIRIT TRUST Tobacco Co., Louisville, Ky.

When Writing Mention Florists' Exchange

**SHEEP FERTILIZER!**

PULVERIZED. COMPRESSED.  
A Quick Germinator and Crop Fecor. NATURAL. ODORLESS. CLEAN TO HANDLE.

JOHN J. PETERS CO., Long Island City, N. Y.  
When Writing Mention Florists' Exchange

SAVE THE BLOOMS!

**NIKOTEEN**

DOES NOT INJURE SENSITIVE PLANTS USED FOR FUMIGATION OR SPRAYING INDOORS OR OUT.

200 POUNDS STRAPPED IN ONE PAIL NIKOTEEN.

Price \$1.50. ALL SEEDSMEN.

When Writing Mention Florists' Exchange

**STANDARD POTS.**

We are now ready to supply a superior quality of Pots in unlimited quantities. Catalogues and price lists furnished on application.

A. H. HEWS & CO., NORTH CAMBRIDGE, - MASS.  
When Writing Mention Florists' Exchange

**CHOCOLATE COOLER CO., GRAND RAPIDS, MICH.**

Manufacturers of **FLORIST'S REFRIGERATORS.**  
Send for Circular.  
When Writing Mention Florists' Exchange

**Boston Florist Letter Co.**

Illustration of a wooden box with the text "BOSTON FLORIST LETTER CO." and "MADE IN U.S.A." on it.

"This wooden box neatly stained and varnished, 18x30 1/2 inches deep, with inside shelves, when away with first order at \$50 letters, 12 1/2 inch boxes per 100, \$1.00 Single Letters, \$4.00

Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

N. F. MCCARTHY, Treas. & Manager, 100 N. BOSTON, MASS.

**EVERY FLORIST OUGHT TO INSURE HIS GLASS AGAINST THEFT.**

For particulars address  
JOHN G. ESLER, 807 7/8, Saddle River, N. J.

**STANDARD FLOWER POTS**

In any quantity, and of the best quality. Get your price list before ordering elsewhere.

W. H. ERNEST, Station M. N. R. WASHINGTON, D. C.  
When Writing Mention Florists' Exchange

**HILFINGER BROS. STANDARD FLOWER POTS.**

We manufacture a full line of Standard Flower Pots, 5 1/2 inch, 6 1/2 inch, 7 1/2 inch, 8 1/2 inch, 9 1/2 inch, 10 1/2 inch, 11 1/2 inch, 12 1/2 inch, 14 1/2 inch, 16 1/2 inch, 18 1/2 inch, 20 1/2 inch, 22 1/2 inch, 24 1/2 inch, 26 1/2 inch, 28 1/2 inch, 30 1/2 inch, 32 1/2 inch, 34 1/2 inch, 36 1/2 inch, 38 1/2 inch, 40 1/2 inch, 42 1/2 inch, 44 1/2 inch, 46 1/2 inch, 48 1/2 inch, 50 1/2 inch, 52 1/2 inch, 54 1/2 inch, 56 1/2 inch, 58 1/2 inch, 60 1/2 inch, 62 1/2 inch, 64 1/2 inch, 66 1/2 inch, 68 1/2 inch, 70 1/2 inch, 72 1/2 inch, 74 1/2 inch, 76 1/2 inch, 78 1/2 inch, 80 1/2 inch, 82 1/2 inch, 84 1/2 inch, 86 1/2 inch, 88 1/2 inch, 90 1/2 inch, 92 1/2 inch, 94 1/2 inch, 96 1/2 inch, 98 1/2 inch, 100 1/2 inch.

Send for Price List for other sizes before ordering elsewhere. Address  
HILFINGER BROS., Fort Edward, N. Y. or AUGUST ROLKER & SONS, 136 & 138 W. 24th St., N. Y. City

When Writing Mention Florists' Exchange

**Cane Plant Stakes**

3 to 6 ft. \$2.00  
6 to 8 ft. \$3.00  
8 to 10 ft. \$4.00

Cash with Order.

W. W. HENDRIX, Bowling Green, Ky.

When Writing Mention Florists' Exchange

...THE COMPLETE...

**BOOK CATALOGUE.**

We have just issued the most Select and Complete Catalogue of Books on Horticultural and Allied Subjects, ever published. The catalogues of the various book publishers of this country as well as of Europe, have been carefully gone through, and such works taken therefrom as were considered suitable for our patrons.

This catalogue contains 66 pages, and embraces

- ...BOOKS for
- The Florist
  - The Market Gardener
  - The Nurseryman
  - The Fruit Grower
  - The Seedsman
  - The Student of Botany, Entomology and Ornithology
  - The Poultry Keeper
  - The Farmer
  - The Lover of Plants and Flowers

and the Student of Nature in general, in fact

**BOOKS FOR EVERYBODY**

interested in the science and practice of rural economy. A select clubbing list of periodicals, home and foreign, is also furnished, through which a considerable saving may be effected in their purchase. This handy catalogue will be sent on application, accompanied by a two-cent stamp. Address

A. T. DE LA MARE PT., AND PUB. CO. LTD. P. O. Box 1697, New York.

**Ready Sales and Quick Returns.**

Have found something new in every number of the FLORISTS' EXCHANGE during the past year and it has not only helped me to replenish my stock at reduced rates but to grow the same in such a way that it would bring ready sales and quick returns. LISA V. NEW YORK, MISS HEDBROS. Bridge Hampton, N. Y., June 15, '96.

**The Early History of Sweet Peas\***

BY S. B. DICKS.

So widespread and intelligent an interest is now felt in America in all that concerns sweet peas, that an excuse is necessary for presenting a few facts connected with their origin and early history.

Hitherto the Botanical Dictionary of Curtis has been the authority usually

having their location in the neighborhood of Panormi. In addition to the two purely botanical works referred to in this article, and which were published in his lifetime, he had prepared for the press his Pamphyrus Siculum, an illustrated natural history of plants, animals, fishes, etc. etc. to be published with the kind consent of the EDITOR, reference will be made by the writer in some future number of The Florists' Exchange. Cupani died in 1711 and the work was first published in the following year.—S. B. D.

The interest taken by Cupani in the sweet pea is evidenced by the zeal with which it was distributed by him. In 1699 some seed was sent to Dr. Uvedale at Enfield, England, where the plants were visited by many eminent botanists. Some seed was also sent by

pears on the opposite page the following passage occurs: "I am sowing seeds of this most elegant and very pleasant plant lately received from the Reverend astronomer Patru Francisco Cupani, who was pleased to communicate with me, and to send me these from Panormi, together with other somewhat rare seeds, in the beginning of 1699; which being sown, in the same year produced flowers and seeds, of which plant for the sake of the elegance and pleasantness which it possesses, I have wished to set forth a delineation and description by that name which the Reverend Pater Cupani has proposed for it in the catalogue of the most learned and excellent Catholic Prince.

"This Lathyrus, an annual, rises to a height of 6 or 7 feet; the root is thin,

to the hairy pods no illustration of the flower is given.

**LINNÆUS' DESCRIPTION.**

Before referring to the numerous botanical works published in the early part of the 18th century it may be well to refer to the first of the above mentioned plants as given by Linneus in his Systema Plantarum Europæ. Under the name of Lathyrus, the section biflorus we find Lathyrus odoratus: a. Lathyrus siculus. Rupp. linn. 210. b. Lathyrus siculus, Lathyrus siculus. Comm. hort. 2, p. 219.

b. Lathyrus Zeylanicus, odorato flore et siculis. Rivini (see above) Hort. Burm. Zeyl. 138 Knip. Cent. IV. N. 37.

Habit: (a) In Sicilia; (b) in Zeylona (Ceylon).

Of the authorities cited by Linneus, the first is of very great importance because from it we learn that the white variety is Sicilian origin.

In the Flora Jencensis (Francfort, 1718), H. B. Kupp! places in the class for plants with irregular flowers, Lathyrus siculus, Rivini (see above) and states: "In gardens they generally call it the musk-scented Lathyrus (L. moschatum). Sometimes it varies with a white flower."

The reference to the Hort. Amstel. of Commelin has already been fully dealt with.

**THE SWEET PEA OF CEYLON.**

Respecting the Lathyrus Zeylanicus, Burm. Zeyl. is the Thesaurus Zeylanicus, setting forth the plants native to the island of Ceylon, published at Amsterdam 1737 by Joannis Burmanni, Medic. Doct. et Botanices Professoris in Horto Medico Amstelodamensis.

In this work the plant appears as follows:—(a) Lathyrus Zeylanicus, var. amano ex albo et rubro vario. Nobis. (b) Lathyrus Zeyl. hirsutus flore variegato odorato Hart. This plant differs from the Lath. odorato of Cupani only in the variety of the flower, and since it has been described and figured in the Hort. Amst. part 2, we do not further describe it here, since, also, in addition to the plants as well known to all since they frequently occur in our gardens.

The reference to Nobis is not been able to verify, but regarding Hert, Hart, Burmannus says: "Hartog or Hertog is a herbarium which I possess and which is also contained very many most elegant Zeylanian plants, and was sent once to him from Ceylon to Cornelius Vossius, the gardener at Amsterdam."

In the same work also appears a variety, Lathyrus Zeylanicus, rubro pulchro. The omission of the word odorato may be accidental; if so, we have here the red variety, also ascribed to Ceylon. This is cited by Burmannus on the authority of the Prodrum Burmanni published at Gedan, 1696. If this surmise be correct these two varieties were known at the same time as the Cupani was calling attention to those of Sicilian origin.

The reference to Knip. Cent. IV. is a very important one. In 1757-1763 Johann Hieronymus Knipfoph, a celebrated Professor of Medicine, published at Magdeburg a work entitled

**"Botanico in Originali Sev. Herbarium vivum."**

The work is in several volumes of four sizes and from Dr. and V. are given colored illustrations of pressed flowers of the Painted Lady and the Yellow Fly, while in Vol. 2, two flowers are one-flowered only (see Fig. II.). I represents a cultivated plant and the second represents a dried specimen. Both illustrations are thus named.

"Lathyrus pedunculatus, albidus, ciliobiflorus, Linn. S. P. 732. Lathyrus siculus, Linn. S. P. 732. Lathyrus odoratus Zeylanicus."

It is remarkable that Knipfoph should give the barbarously descriptive name of Linnæus, and that at a later date Linneus should adopt in his "Systema" the name of the shorter one, thus placing the authority of Knipfoph. The two illustrations vary slightly in some minor details, but are evidently those of the same plant. The colors are those of the Painted



FIG. 1.—LATHYRUS DISTOPLATYPHYLLUS hirsutis mollis et odoratus. LATHYRUS odoratus Siculus et LINN.

(Reproduced from Horti Medicæ Amstelodamensis Vol. 2, Figs. 80, 169-1701.)

From a sketch made from the original engraving by Mr. G. H. Dicks (son of the writer of this article), by special permission of the Principal Librarian of the British Museum, London.

Cupani to Caspar Commelin and the result was an illustration of the plant in the Horti Medicæ Amstelodamensis, published in 1697-1701. It is a fine folio work and in Vol. II. tabula 89 is given full page drawing, very well executed, showing the foliage as we now know it; the heavy footstalks mostly carrying two flowers. (See Fig. 1.) The individual flowers are large, with the standards mostly rounded and well developed, but among them are a few monstrous forms; these, however, are very variable in character. The name given on the head line is Lathyrus distoplatyphylus, hirsutus, mollis et odoratus.

In a very elaborate article which ap-

pear on the opposite page the following passage occurs: "I am sowing seeds of this most elegant and very pleasant plant lately received from the Reverend astronomer Patru Francisco Cupani, who was pleased to communicate with me, and to send me these from Panormi, together with other somewhat rare seeds, in the beginning of 1699; which being sown, in the same year produced flowers and seeds, of which plant for the sake of the elegance and pleasantness which it possesses, I have wished to set forth a delineation and description by that name which the Reverend Pater Cupani has proposed for it in the catalogue of the most learned and excellent Catholic Prince.

"This Lathyrus, an annual, rises to a height of 6 or 7 feet; the root is thin,

MR. S. B. DICKS.

It should be borne in mind that Curtis was a trader as well as a botanist, and that the apparent object of his valuable work is to present such facts relating to the subject treated of, as would be connected with the introduction of the plant into Great Britain, and in particular that part of it which comprised Cupani's botanical Garden.

**EARLIEST MENTION OF THE PLANT.**

The earliest mention of the plant that I have been able to discover is in the Hortus Plantarum of Joannes Bauhinus, Elbroduni 1659-51 where (on the authority of J.as. Justice) it is catalogued as Lathyrus angustifolius, flore ex albo et rubro variegato, odorato. In the Hortus Blesensis of Robert Morrison, London, 1668, I find Lathyrus latifolius annuus, siliqua hirsuta. This in some respects resembles the sweet pea, but it is surmise be correct it must be the purple variety that is referred to. Conjecture gives place to certainty when we turn to the Historia Plantarum of John Ray, London, 1686-1704, where we find in Book XVII. Lathyrus major et Siciliæ, a very sweet-scented Sicilian flower, with red standard; the lip-like petals surrounding the keel are pale blue, its seed pod is hairy." In another part of the same work the plant is quoted as "Lathyrus distoplatyphyllos, hirsutus, mollis, magno et peramano flore odoratissimo purpureo," but the latter word has been added to Cupani's descriptive name on the authority of Domenico Suard.

The next and by far the most important work is the Hortus Catholicus of Pater Franciscus Cupani, Neapoli, 1696. The name of Pater was not only a very devout Italian monk, as a perusal of his book amply testifies, but a very able and authentic botanist. Picking in his Chronological History of Plants, Boston, 1873, states that Cupani was the principal cultivator of the Sweet Pea, at Panormus, in Sicily, in 1699, but of this we shall speak later. The work is merely a catalogue of names, and the sweet pea appears simply as quoted above from Ray. No color is given, neither is anything said as to the country of its origin.

**CUPANI AND HIS WORK.**

(Since the foregoing was written, I have been able to examine the first work published by Cupani, viz., Silibus Plantarum Sicilicæ super detectarum a P. F. Franciscus Cupani, Panormi, 1687.) It is a very amply work, 12 mo., and among the plants newly discovered in Sicily by Cupani, is the Lathyrus distoplatyphyllos, etc. afterwards transferred to the Hort. Cathol. published in 1696.

As the name of Cupani naturally occupies such an important place in the early history of sweet peas, the following facts in connection with his history may be of interest to the reader: Franciscus Cupani was born in 1655 and died in 1711. He was a Sicilian, his order transferred to the Hort. Cathol. published in 1696.

\*Copyrighted 1897 by the A. T. De Mare Printing and Publishing Co., Ltd., Rhineclander Building, New York.



FIG. II.—*LATHYRUS pedunculis bifloris*, cirrhii diphyllus, foliis ovato-oblongis, leguminibus hirsutis. LINN. S. P. 732. LEUW. D. G. P. 488. odoratus glaucus.

(Reproduced from *Kniphoffii* Vol. 2, 1757-1763.)

From a sketch from the original engraving, made by Mr. G. H. Dicks (son of the writer of this article), by special permission of the authorities of the Patent Office Museum Library, London, England.

Lady, as now grown, but the standards are small and of poor substance, the wings being in each case the most prominent parts of the flower.

#### AN IMPORTANT DISCOVERY.

In the summer of 1886, while inspecting for Cooper, Taber & Co., a field of the Mrs. Sankey growing on a strong, rich loam, I discovered a plant identical in every respect with Kniphoff's illustrations. I dried the plant as carefully as possible and have had much pleasure in handing it over to the editor of *The Florist's Exchange*, and he will doubtless be very pleased to show it to any caller interested in this subject.

#### FIRST COLORED ILLUSTRATION OF THE FLOWER.

Retracing our steps to the year 1730 the first colored illustration of a sweet pea that I have been able to discover is contained in a set of very fine engravings afterwards painted by hand and entitled, "Twelve Months of Flowers," designed by Peter Castels, from the collection of Robert Farber, gardener at Kensington, and engraved by H. Fletcher. The flowers of the various months are arranged in the form of bouquets and in the June month appears the purple sweet pea. The form of the flower is very loose and straggling; the standard small and reflexed and the wings very large and awkwardly arranged (see Fig. IV.). The coloring is a uniform greyish-purple, shaded with brick red, but the latter is evidently added from artistic motives.

#### FIRST TRADE OFFER OF SWEET PEAS.

The first trade offer of sweet peas is contained in the explanatory catalogue of the aforesaid Robert Farber, but only the purple variety is quoted. This had evidently come into his possession through Dr. Uvedale, to whom it had been sent by Cupani.

In the "Universal Gardener and Botanist" published a few years later under Lathyrus, we find: "Varieties of, are, purple-flowered sweet pea, white-flowered sweet pea, variegated or

Painted Lady sweet-scented pea." The careful reader will note a slight difference in the description of the latter variety, but the point to which particular attention is here directed is that at this time three quite distinct varieties were known and cultivated in ordinary gardens in England. This naturally leads us to "The Scots Gardiners' Director," by James Justice, F. R. S., Edinburgh, 1754. At that time a great effort was made by the Dutch dealers to capture the British trade in flower seeds and their catalogues were sent broadcast through the land. Referring to these catalogues, the said Justice observes that "they are neither rightly named botanically or otherwise." He then proceeds to quote from:

"Catalogus van Schone Bloem-Zaaden te vinden by Dirk en Pierre Voorhelm Bloemisten te Haarlem.

"No. 176. *Lathyrus odorate* flore albo et rubro variegato.

"No. 177. *Lathyrus odorate* flore purpureo et rubro variegato.

"The first-named," says Justice, "is the *Lathyrus angustifolius* flore ex albo et rubro variegato odorato, mentioned by J. Bauhinus, 1659. (Any person carefully examining the appended specimen now in the hands of the editor of *The Exchange* will recognize the appropriateness of the name). This is the Painted Lady pea *vulgo*, a variety seminal of the 177, but not so sweet as smelled." Respecting 177 he says: "This is the *Lathyrus distoplatyphylus* of Hort. Cathol., the sweet-scented pea *vulgo*; of this kind of pea there is both the purple and the white-flowered."

#### THE PARENT OF THE RACE.

Before resuming our consideration of the works of later writers I may remark that the opinion of Justice that the Painted Lady is the parent of the race is shared by Mr. Eckford, who, in a complete list, with which he has kindly furnished me, styles the Painted Lady "the original variety." There seems no reasonable doubt that it was known to botanists before the Sicilian purple. One singular fact in connec-

tion with it is that while Pickering states on the authority of C. C. Sprenger, whose work, "Gehinnis der Natur," was published at Berlin in 1793, that "Linnaeus received the sweet pea from Ceylon and on this account calls it the *Lathyrus odoratus* of Ceylon," the plant is not mentioned and the name by Linnaeus in his "Flora Zeylanica," published in 1747. The absence of the plant from this important work may have caused other botanists to bring it under the notice of the illustrious Swede, for very shortly after, in his "Systema Plantarum," we find him adopting the name from the work of Burmannus, published 1737.

#### THE SWEET PEA OF SICILY.

If the sweet pea is truly of Sicilian origin it is very remarkable that no mention is made of it in that very complete work by Paolo Bocconi, "Icones Plantarum Siciliæ," published 1674.

During my visit to Naples in 1886 I brought these facts to the notice of that eminent authority, Mr. G. Sprenger. He courteously undertook to investigate the matter during his approaching trip in Sicily and has, since his return, written me as follows:

"I retain that the plant is really a native of the two most important Italian islands, Sicily and Sardinia. I have just come from Sicily, where I could see the plant in the neighborhood of Corleone, a town lying in the interior on a range of hills, and in several other wild regions round about, together with other papilionacea. The plant has all the appearance of being spontaneous form and not an imported one. The above locality has been but very rarely visited and it is apparently to be excluded that *L. od.* was brought there. It is surprising that the *Lathyrus* has been found in but a few places, but this does not mean much. From what I could deduct the plant grows in three or four places in Sicily, where it could be found in Sardinia. Our most learned men retain that the *Lathyrus* is really an indigenous kind in Sicily, because it presents all the characters of being of spontaneous growth. The flowers of our kind are purple (purplea) while those of Ceylon are rose-colored. This could be a variation due to the climate, but I was unable to find

out if the *Lathyrus* varies or if the white-flowered variety is found growing spontaneously.

The statements of Mr. Sprenger are in full accord with the quotations from Cupani's *Tablæ* set above, and until further evidence is forthcoming I am compelled to question the correctness of the position taken up by Justice and Eckford. The evidence of the authorities quoted in this article leads me to the conclusion that the purple and white varieties are of Sicilian origin, while the Painted Lady and most probably the red have their origin in Ceylon.

As no history of sweet peas would be complete without a reference to "Curtis's Botanical Magazine," 1788, I copy the following from Vol. II, p. 30. After giving the Latin descriptive name, as it appears in the *Kniphoff*, he writes: "There is scarcely a plant more generally grown than the sweet pea, and no wonder, since, with the most delicate blossoms, it unites an agreeable perfume. Several varieties of this plant are enumerated by authors, but general cultivation extends to two only; the one with blossoms perfectly white, the other white and rose-colored, commonly called the Painted Lady pea."

The sweet pea is described as a native of Sicily, the Painted Lady as an inhabitant of Ceylon. The colored plate accompanying this description is a little too red in tone for the purple, as now grown. A reproduction of it with the same fault appears in the "Ladies' Manual of Botany," published 1788. It is possible that the deep purple shade is a development, for in Ray's work, before referred to (pub. 1688) the standard is described as red, which term might be used for a reddish purple.

#### THE SWEET PEA IN FRANCE.

The early French botanists do not appear to have taken very kindly to sweet peas, for the earliest reference I have been able to discover is in a work entitled "Plantes de la France. Descriptions et Plantes d'après nature par M. Jaume Saint Hilaire, Paris, 1809." The French name is given as "Gesse odorante" and the known "varieties" are described as follows:

1. *espèce standard de couleur rose, ailes et carène blanchâtres.*



FIG. III.—*LATHYRUS pedunculis bifloris*, cirrhii diphyllus, foliis ovato-oblongis, leguminibus hirsutis. LINN. S. P. 732. LEUW. D. G. P. 488. odoratus glaucus.

(Reproduced from *Kniphoffii* Vol. 5, 1757-1763.)

From a sketch from the original engraving, made by Mr. G. H. Dicks (son of the writer of this article), by special permission of the authorities of the Patent Office Museum Library, London, England.

2e. étendard de couleur pour-rose, violet ou violet-noirâtre, ailes et carène de couleur bleu foncé, et tige de Fleuret; durant les mois de Juillet et d'Aout.  
Habitant la terre, variétés est originaire de Sicile de Célian; la 2e. se trouve en Sicile.

The accompanying colored plate shows a complete branch with two blossoms on each stem. The coloring has been done entirely in the artist's fancy, as different colored flowers appear on the same stem; while the colorings of the unpicked buds, which could they be discovered in nature, drive those enthusiasts, Eckford and Hutchins, wild with joy.

AS AN ARTICLE OF COMMERCE.

With this as a final reference to literary authorities, we may leave this branch of our subject and very briefly touch upon the seedsmen's connection with the sweet pea as an article of commerce. Reference has already been made to the offer of Robert Furber, in 1730, and also that of Dirk and Voorebinder, in 1827. Next in order is the catalogue for 1733 of John Mason at the sign of the Orange Tree in Fleet Street, London, originally (under the name of the business of Cooper, Taber & Co.), wherein I find quoted: Black, purple, scarlet, white, and Painted Lady. This list shows that some intelligent work had been done during the previous thirty-nine years, but by whom I am unable to discover. The catalogues issued by this firm did not exhibit any change for many years, but in 1837 James Carter founded his business in Holborn, and in his first catalogue quoted black, Painted Lady, painted, scarlet, white, striped, and yellow. To the foregoing Noble, Cooper and Bolton, in 1850, added new large, dark purple, and mixed, showing that two selections had been made from the parent purple variety.

Shortly after this date it became customary for the wholesale seed merchant in this vegetable to be Messrs. List Nasturtiums, Mignonette and Sweet Peas, and in 1873 Robert Cooper quoted the following varieties:

Sweet Peas, mixed, do. do. named, white, and yellow.

This style continued until 1881, when they were simply offered as sweet peas mixed and named. This is of interest, as it records a peculiarity in the treatment of sweet peas at that time. For some reason, which I never clearly understood, several of the wholesale seedsmen did not include the white variety in their mixtures, unless it was specially ordered, but in the 70's the practice was generally abandoned. The indifferent permutation of the brown-seeded class varieties has always been a source of trouble to the seedsman and this may in some measure account for the custom.

Going back as far as 1860, James Carter had offered blue-edged to which the Royal Horticultural Society gave a first-class certificate many years later. On August 22, 1883, this novelty was first named Blue Hybrid, and it was understood to have been a true hybrid between the annual white sweet pea and the perennial Lord Anson's blue. It was the outcome of a series of experiments made with the object of raising a real blue-flowered variety by Colonel Trevor Clarke, of Davenport (vide Gard. Chron., Mar. 6, 1870). The latter variety offered by Sutton & Sons, in 1880, is practically identical with this variety.

On July 11, 1855, a first-class certificate was awarded to Stephen Brown for Invincible Scarlet, which, if properly grown, is one of our very best varieties to-day, and is undoubtedly the parent of the brilliant-colored class. The seeds of this variety were sold at two pence (4 cents) each, but no word of complaint came from the purchasers for its character had been thoroughly fixed before it was placed upon the market.  
About 1868 the Crown Princess of Prussia appeared in Germany, an incident of direct and valuable as any that had been offered. Who really was the raiser of this variety I have not been able to discover. It has originally been assigned to Mr. Ernst Beane, but that gentleman writes me distinctly that he has no recollection it was offered in his catalogue for 1870.  
(Since the foregoing was written I

have learned from Messrs. Haage & Schmidt, Erfurt, that Crown Princess of Prussia was sent out by them in 1868-69. The same firm also sent out Fairy Queen in 1873-74 and in the same year offered a lilac variety which they claimed to be superior to Captain Clarke; later on this variety was omitted.



FIG. IV.—THE PURPLE SWEET PEA. (No. 33)

As it appears in the set of engravings published under the title of "Twelve Months of Flowers," by Robert Furber, Gardener at Kensington, in 1730.  
Photo engraved from a set of engravings in the possession of Harry Simpson, Esq., F.R.H.S., 99 Southwark Street, London, England.

ted from their list and Captain Clarke retains possession of the field. A very pretty and distinct variety named Bronze King is the latest introduction of this well-known firm—S. B. D.)  
In 1859 Carters offered Violet Queen, an entirely new color, but a very poor flower. Adonis was offered by the same

questionable practice of naming new varieties of this lovely flower after titled and untitled nobles came into vogue.

ADVENT OF ECKFORD.

In 1852 Eckford entered the field with Bronze Prince and the history of sweet

my unstinted praise for the foresight, patience and skill he has all along displayed. Who else will be able to maintain his position as leader in the face of the great wave of Western varieties the close of another decade will show. Of the work done by that Cupani of the Rev. W. T. Hutchins, this is not the place to write; but a passing reference may be permitted to the remarkable parallel existing between the position and work of the Eastern and Western enthusiasts. I trust that the spirit of the true botanist in Hutchins will continue to animate the work of Mr. Hutchins, so that when in the distant future some student intending to write an article on the Florist's Exchange on the "Renascence of Sweet Peas" shall discover amongst the treasured archives of a grateful country the classic works bearing his name, he will find them as pleasing, instructive and helpful as those of Cupani and his co-workers have proved to yours faithfully.

S. B. DICKS.

QUESTIONS BOX.

OPEN TO ALL. . . . . FREE TO ALL.  
Answers Solicited from Those Who Know.

(115) A Flowering Vine for Brick Wall.—If the wall is cold and dark, as the query suggests, English Ivy is the best thing to cover the wall; the leaves are always useful. For a warm wall there are many flowering vines that are both pretty and useful, such as Clerodendron Balfourii, Bougainvillea glabra or B. g. Sandieriana, Stephanotis floribunda, several tecomias, aristolochias and solanums also suggest themselves.

(116) Plants for Shaded Bench.—If the bench is so shaded and cold it is difficult to suggest anything. Fannies, stevia, eupatorium, alyssum, and geranium may do well and at the same time be fairly profitable.

(117) White Greases Destroying American Beauty Plants.—The remedy is to search the soil and destroy the grubs. They are found by scratching the soil slightly with the back of a trowel.

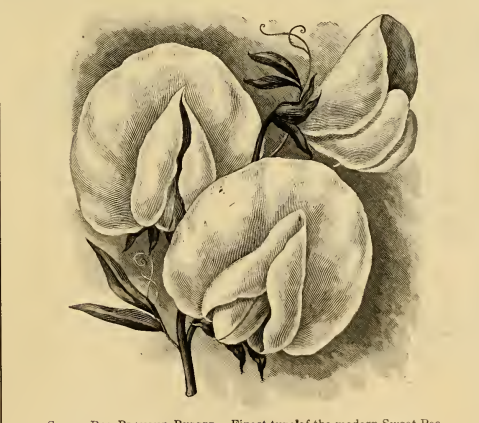
(118) Freesia and Allium Neapolitanum.—What is the proper treatment for freesia? When should they be put in the soil? Should they be treated in any way? Should Allium neapolitanum be treated the same way? What is the best temperature for same?—S. B. Dicks.

—A few freesia bulbs are already to hand from Bermuda. These are being set out at once. Freesia can be grown either in flats and pots or they may be planted out in the benches. The best results are obtained from the latter method when it is possible to spare the room. After potting in the ordinary way they should be stored in a cold frame and shaded. When the roots are working properly and head growth begins take the plants indoors in the early fall and grow on in a moderate or greenhouse temperature.

Alliums may be treated much in the same way.

(119) Plant Lice on Maples.—We send you to-day package containing some insects which were taken from a maple tree and are strangers around here. I would like to know their name and whether they are destructive to trees other than maples?—W. McBRIDE, JR., Walden, N. Y.

—The insects covered with a cottony secretion and found on the leaves of maple are a species of plant louse known as Pemphigus acerifolii. It is such a rare insect that it has never been supplied with a common name. It should not be called "the maple louse" as there are several other species of plant lice that occur on the maple. I think this is the first time that this species has been recorded for this State. The species was described by Dr. Riley, while he was State Entomologist of Missouri. Specimens have also been taken in New Jersey. Like all species of plant lice it will prove injurious wherever and whenever it occurs in large numbers. This species is known to occur on any other kinds of trees or shrubs, but it is known that most of the species of the genus Pemphigus are known to occur any other time of the year to some annual plants. What these plants are is known in only a few cases.  
F. A. S.



SWEET PEA BLANCHE BURKE.—Finest type of the modern Sweet Pea.

firm in 1882, but this was displaced in 1883 by the New Carlisle Rose of Muskett & Sons, afterwards renamed Princess Beatrice, and, to this day, one of the most popular and beautiful of the rose section. From this time onwards the purely descriptive names appear to have been discontinued and the

copy a back seat, for no variety now in commerce is of French origin.

THE "CUPANI OF THE WEST."  
The work of Eckford has been so fully placed before the American public by the Rev. W. T. Hutchins that it is only necessary for me to record here



July 17, 1897.

Commissioners, or, if fortunately one of them should be a man of good taste the superintendent should show a readiness to learn and profit by any and all the suggestions.

Although the ideal park superintendent will have an intimate knowledge of the park and all its features brought in close relations with the Park Commissioners and his fellow-workmen...

It may be conducted in such a manner as to exert an elevating influence on all who go to see it, to teach them to respect other rights, to wish them what is in good taste and to give them the purest kind of enjoyment...

ROSES.

Seasonable Pointers.

The past week was one of the hottest we have known. Still, in going through the unshaded houses, I found but very few traces of burning.

There is now lots of water to be done in the houses, and as the heat is becoming unbearably during mid-day we should make the most of the early morning hours and during dull periods...

To get the best results from plants growing outdoors frequent cultivation is resorted to, and it is just as important as the soil at the same time should be practiced inside.

Disbudding should not be neglected at any time. If the constant syringings the soil will soon begin to turn green and sour, preventing the air working through it...

The most important remedy to be applied, therefore, on the under side of the leaf and care should be exercised to avoid touching the tender shoots of the plant...

comes in contact seriously impaired, and then they are a prey for fungus diseases, which contaminate the healthier ones surrounding...

While mentioning black spot, now is the time for us to use every means in our power to get rid of it before fall arrives. Every leaf or part of one on which is found a particle of black spot should be picked off...

During the hottest weather green fly is not very troublesome, but if we get cooled by cool weather they breed generally put in an appearance. I am very adverse to fumigating a house...

CHRYSANTHEMUM.

Insertion will be given in this column to all communications on this article, but the opinions expressed do not necessarily reflect our own.

A Chrysanthemum Pest.

In answer to Mrs. C. L. Humphrey's desire to know how to get rid of the Chrysanthemum (Gossippi) or C. irrortata, Corythia, I enclose a small quantity of this most faithful weevil...

The emulsion should be applied, therefore, on the under side of the leaf and care should be exercised to avoid touching the tender shoots of the plant...

40,000 FIRST CLASSITY FORGING ROSES Ready for immediate planting.

Only selected growth from flowering shoots used in propagating. Fully equal to those sent out the last four years. Good and perfectly healthy in every respect.

METOR. KAISERIN A. V. SUNSET. BUN SILENE. MEMPHIS. GONTEL. H. H. HOWE. R. H. D. 3 inch pots, \$7.50 per 100. 4 inch pots, \$10.00 per 100.

50,000 BRIDE AND BRIDESMAID 50,000 Extra Fine

From 2 1/2 inch pots..... \$2.50 per 100; \$20.00 per 1000. From 3 inch pots..... \$3.00 per 100; \$30.00 per 1000.

HYDRANGEA OTAKSA BRIDES, Bride, Bridesmaid, Mermel, Gonier, Perle, Woolton, etc.

ROSES GEORGE L. PARKER, 807 Washington Street, Dorchester, Mass.

ROSES Sterling American Novelty, the WHITE COCHET

is a sport from Mammoth Cochet, which is considered v. the best pink out-of-door rose. It has all the good qualities...

J. GOOK 310 CHARLES Baltimore, Md. When Writing Mention Florist's Exchange

JACKSON & PERKINS CO., NEWARK, N. J.

Will have for export for season of 1897-'98, a choice assortment of the following plants...

LOOK HERE

The following plants are in all condition. ROSES, out of 2 1/2 inch pots, Bridesmaid and Bride, 1 bush each, \$20.00 per 100; at least \$3.00 per 100.

ROSES

Carefully Grown Forcing Stock, 2 1/2 in. strong. Metor, 50,000, \$5.00 per 100; \$50.00 per 1000. W. de Chalosse, \$5.00 per 100; \$50.00 per 1000.

W. DE CHALLOSSE, \$5.00 per 100; \$50.00 per 1000.

J. B. HEISS, 116 So. Main St., Dayton, O. When Writing Mention Florist's Exchange

Ready for immediate planting. \$25.00 per 100. \$200.00 per 1000. \$10.00 per 100. \$100.00 per 1000. \$2.50 per 100. \$20.00 per 1000. \$3.00 per 100. \$30.00 per 1000. \$100.00 per 100. \$1000.00 per 1000. \$5.00 per 100. \$50.00 per 1000. \$2.00 per 100. \$20.00 per 1000. \$1.50 per 100. \$15.00 per 1000. \$1.00 per 100. \$10.00 per 1000. \$2.00 per 100. \$20.00 per 1000. \$1.00 per 100. \$10.00 per 1000. \$1.00 per 100. \$10.00 per 1000. \$1.00 per 100. \$10.00 per 1000.

## EXCLUSIVELY A TRADE PAPER.

Entered as Second Class Matter, July 16, 1879, at New York, N. Y., under Post Office No. 254, Post Office of Second Class Matter.

Published Every Saturday by

A. T. DE LA MARE PTD. AND PUB. CO. LTD.,

2, 4, 6, 8 Duane St., New York.

P. O. B. 1637. Telephone 2164 Cortlandt

REGISTERED CABLE ADDRESS  
(Commercial Cable) Florist, New York.

### SUBSCRIPTIONS:

\$1.00 per year to United States, Canada and Mexico. \$2.00 per year to foreign countries in postal union. Payable in advance. New subscribers will commence with the first number after receipt unless otherwise specified. Back numbers can be supplied when wanted. The rate on address label goes when the subscription expires and in the subscriber's receipt. No other receipt is sent.

### ADVERTISEMENTS:

Copy must reach this office not later than 10 o'clock in order to secure insertion in issue of the following Saturday.  
Rate, \$1.00 per inch. Special positions extra. Discount on contracts of one month or longer.  
Orders from unknown parties must be accompanied by cash or satisfactory references.

## Exclusively a Trade Paper.

THE FLORISTS' EXCHANGE is published in the interests of those commercially identified with the Florist, Seed and Nursery business. New subscribers are requested to enclose business card or other proof of their connection with these trades.

### Subscribers

Should give notice to the publishers at the end of their time if they do not wish to continue taking paper, otherwise it is continued and payment expected.

### Contents.

A LEADER AND MEETING PLACE FOR '98	684
BISULPHIDE OF CARBON	684
CARNATIONS	684
CATALOGUES RECEIVED	687
CURTAIN THRESHOLDS	687
CORRESPONDENCE	687
EXPERIMENT STATIONS	687
FIRE INSURANCE CO., MUTUAL	687
GREEN HATH	687
LILY DISEASE, THE BERMUUDA	686
NEWPORT CLIFF WALK (Two Illus.)	688-689
OBITUARY:	
John Lambert, James S. Reid	670
ORCHIDS, THE MENDING OF	677
PARK SUPERINTENDENT, THE IDEAL	682
ROSES	683
SEED TRADE	683
STREET FACES, THE EARLY HISTORY OF (Illus.)	626, 660, 661
TRADE NOTES:	
New York	684
Boston, Pittsburg, St. Louis, Washington	685
Cleveland	686
Chicago, Toronto	686
Baltimore, Cincinnati, Indianapolis, Providence, Savannah, Syracuse	678

## For the Busy Man.

Johnann Lambert, the German rose grower, is dead.

Flour by Mitchell Ash is the name of a new insecticide manufactured in Baltimore.

An article on the Bermuda Lily Disease appears on page 686.

Mr. Vasey contributes another interesting communication on Fire Insurance this week; see page 687.

Excuse hot weather prevailed throughout the entire country last week. Our florist was prostrated by the heat.

Some intending to enter into the bowling and shooting contests at the Providence convention next month are requested to notify Wm. H. Sells, chairman of the Executive Committee, Exchange Place, Providence.

## Bisulphide of Carbon.

In publishing the government report on the use of bisulphide of carbon for the destruction of weevils and other insects that weaken the vitality of seeds, we have done so with a view to simply wishing the department to state clearly its case and show plainly the benefit, if any, that may be derived to those who handle seeds—the producer, dealer or consumer.

Upon careful perusal of the report we find it far short of what it should be. It shows by the use of bisulphide of carbon an average of 10 per cent when there should be a positive gain; not that seed which tests 100 per cent, but before treatment, and is made to test more than that, which is an impossibility so long as we look at the report in detail. It says:

"Our experiments were made with thirty-two different varieties of grains and vegetables, five of cotton, two of peas, three of Indian corn, two of rice, two of common garden beans, two of Kaffir corn, two of barley, two of wheat, one of oats, etc. In all the experiments only one variety was shown to be, so far as possible, from a single stock in each case. Two lots of treated seeds and two of untreated seeds of the larger species and 100 of the smaller kinds were used. Similar lots of untreated seeds were also used." It then goes on to give the results, which, when taken as a whole, do not show a greater difference than is often in fact most generally shown when two or more tests are made from the same sample either for vitality or for the value of the strain. We infer from the report that both tests were made from the same common garden beans, two after the treatment. This report is misleading, as it does not show the slightest benefit derived or that can be derived from the use of bisulphide of carbon.

Now what does a practical test prove and how is it made? The growers and dealers in peas and beans (and the same is true with many other seeds) know that there is an egg deposited in the seed when the pod is very tender; and that the weevil in due time, and that the weevil destroys the seed's vitality by feeding upon it, and that the weevil dies by feeding upon the seed itself. Now, it naturally follows that the vitality of the bisulphide of carbon lies in its power of destroying the egg before it reaches the larval state. To that end it is used in the form of an application as soon as the crops are taken in store, and they have found that seeds treated in this way will stand as high as though the eggs had never been deposited, or the weevil had never been sown, while the seeds not treated have been so badly eaten as to become useless. This is the practical way of testing the merits of the bisulphide of carbon.

If the Department of Agriculture wishes to do this, it should state the value to the country let it imitate the seedmen's example—take samples from the various sources of supply and treat a given number of seeds, and set aside the same number for trial at some future time. The results will show the value of the treatment will become apparent. Planting time is when all seeds should be sown, and the weevil is not as the active principle of growth is then stronger than at any other time. We do not wish to minimize the work of department or underrate its usefulness, but sincerely hope it will show us a better way to fight the insect enemies than we have yet tried.

If the Department of Agriculture wishes to do this, it should state the value to the country let it imitate the seedmen's example—take samples from the various sources of supply and treat a given number of seeds, and set aside the same number for trial at some future time. The results will show the value of the treatment will become apparent. Planting time is when all seeds should be sown, and the weevil is not as the active principle of growth is then stronger than at any other time. We do not wish to minimize the work of department or underrate its usefulness, but sincerely hope it will show us a better way to fight the insect enemies than we have yet tried.

## A Leader and a Meeting Place for '98.

There are two factors connected with the well-being of the Society of American Florists, and these are the various conventions have ever taken a lively interest, but without previous notice by the majority. These are the election of a president and officer and the selection of a place of meeting. While a high regard for the important feature, however, we incline to believe, materially heighten the interest in the subject, and thus draw a larger gathering, as the friends of the opposing parties would surely be present to do better than to be absent.

Hitherto it has not been customary to parade publicly through the horri-

cal press or otherwise the names of those parties who are the choice of certain members of the Society for the presidency or other office; but the present year a breach of this unwritten law has been committed. The name presented the name of a gentleman who, it is said, would prove a very acceptable choice.

It is not our purpose at this time to discuss the merits of the gentleman in question, or to say whether or not he is a member of the S. A. F. What we desire to do is to call attention to the fact that the law is one that we wish whom the members would like to precede over them, as well as to fill the various offices of the Society. With a choice of a meeting place for another year, is necessary; more particularly having regard to the more exacting nomination and election demanded by the altered by-laws. This is all the more needful when we remember that the uncalculated and unseemly wrangle connected with the nomination of officers at the Cleveland convention last year. To prevent a recurrence of that the present time is none too early for the members to do their thinking cases and select their favorites—those whose election they consider would make for the welfare of the society—so as to be ready at the Cleveland meeting, and in the proper place. Every member of the S. A. F. should be given the right and privilege to name candidates on the informal ballot, and every member should exercise it to the full.

Two cities are making bids as the next meeting place, Milwaukee and Cleveland. Both of these places offer as inducements the fact that an exposition is to be held within their walls at the year period of the assembling of the society.

Setting aside any selfish motive which may prompt such exhibitions may have in extending an invitation to the society to hold its meeting in the cities named. Both of these places offer to decide upon a meeting place where the best interests of the society will be promoted. Both of these places offer to decide upon a meeting place where the best interests of the society will be promoted.

where its presence would exert the greatest influence and create the most favorable impression upon the membership, and the claims that certain sections of the country have upon the S. A. F. are not to be overlooked, where its presence would exert the greatest influence and create the most favorable impression upon the membership, and the claims that certain sections of the country have upon the S. A. F. are not to be overlooked.

At all events, the time is now at hand for considering these matters by intending delegates, who are to prevent haphazard selections both of men and cities.

## New York.

Wholesale Market. Business for the week has been light. Some of the goods have been considerably interfered with by the storms which prevailed; since then the supply has been better. The market has been few inquiries for high-class roses, an article which is now very scarce. The hot spell, which has prevailed since the 15th, has had the sweet peas almost out of existence; but this loss will be more than made up by the quantity of winter article quite plentiful this week.

The supply of lilies has lightened, and as the S. C. and C. are now in season, with S. C. and C. as taking figures.

Valley has been most plentiful for the drawing of some of the varieties, which prevailed—82 is the top notch.

Bound for Europe. Thom Young, Jr., sailed for England on the S. S. Euraria, Saturday, July 10. George Young sailed on the S. S. Campania, Sunday, July 11.

S. Kellor, of the firm of Reed & Kellor, who works, sails for Hamburg on July 11. He will visit the International Exposition at the above city, where his firm has an exhibit of its specialties and wire designs.

A Narrow Escape. Considerable anxiety was felt in the week, owing to the absence of James Hammond, of P. O. No. 1, near the Long Island Sound on his boat out.

On Tuesday morning, following the severe gale, a rumor got about that the boat was blown down. The rumor was a very terrible sea, wind and rain, Mr. Hammond and his little boy and a party of three gentlemen were on board. The boat was blown down, and when supposed to be lost were safely anchored at New Rochelle.

A Pleasant Fire. Mr. Siebrecht, Sr., had considerable excitement on Sunday evening last. Just as he was about to leave New Rochelle for his home in the city, a fire broke out in the sexton, in extinguishing the lights, caused the center hanging lamp to fall with what it contained upon the floor.

Mr. Siebrecht was first on the spot and attempted to extinguish the flames with his hands. He was very successful, but in the meantime some light work in the ceiling had caught fire. This he also extinguished. It was then discovered that there was fire away up in the cupola, and after that the church was doomed. Mr. Siebrecht was assisted however, being exhausted from his effort. He had his eyebrows and other parts of his face much singed, and by falling in the drenched church his knee cap was badly hurt. How well he is getting on, we do not know, which was the second oldest M. E. church in New York State and the third oldest in the United States, was entirely destroyed.

Death of G. Hallman. G. Hallman, aged 407 Third Ave., died Tuesday night at the Manhattan Beach Hotel from kidney trouble. The deceased was a well-known florist, and was highly and greatly respected. He was for seven years chief driver for Klinder, afterwards for the New York and New Jersey, and established himself as a retail florist on Third Ave., between 35th and 36th streets, where he had built up a good business, for nine years he had been engaged during the summer season as head checker at the hotel through the annual seasons of the year, and leaves a widow and three little girls, the oldest being 7 years. Solom Highmore, of 30th Street, was the funeral director, 28th street, Friday, at 10 A. M., and the interment took place later in his wife's parlors at 30th Street.

There was a very large gathering of friends, also of members of the "Bright" columns and the "Lily" columns at the funeral.

Much interest is being exhibited in the forthcoming convention at Providence, and it is expected to be held in September.

C. S. Ford, Jr., Philadelphia, was a visitor this week; he is on his eastern trip. His wife, G. of Simcoe, Ont., was also in town.

At the annual meeting of the New York Cut Flower Co., July 4, all the incumbents of the office will resign in September.

Miller & Long, 386 Columbus Avenue, have closed their store for the summer, and will reopen in September.

Samuel Henshaw, head gardener botanical gardens, Bronx Park, has returned from Europe after an extended tour through the principal gardens there.

A Business Embarrassment. Winifred and Joseph Rolker, doing business under the style of August Rolker & Sons, are the principal importers of bulbs and florist supplies at Nos. 126 and 128 West Twenty-fourth Street, New York.

Joseph Rolker, who died in 1871, was established in 1835 by his father, August Rolker, who died in 1871. Winifred was born in 1838, and died in 1886. In March, 1884, Herman, who was a partner for many years, with Winifred, died, and August Rolker, Jr., now deceased, also withdrew. The firm heretofore did a large business and was one of the oldest and most successful where most of their supplies came from. The liabilities are \$17,000; nominal assets, \$19,000; actual assets, \$19,000.

The firm of August Rolker & Sons is the oldest and most successful of the bulb and florist supply line in America. The had business of recent times, compared with the business of the late August Rolker, who died in 1871, and the subsequent thereon, and the poor collections, were the cause of the assignment. The business was sold to the creditors, who are mostly, if not exclusively, foreign houses; but it is extraordinary in its character, and something in regard to its future action shortly.

Be sure that those of our readers who have had dealings with the Rolkers will join with us in the wish that they may be able to make some arrangement may be of temporary duration.





**The Manuring of Orchids.**

Some interesting experiments, says the *Gardener's Chronicle*, have recently been made with a view to determining the gradual degeneration that takes place in some cactuses. For this purpose a number of cactuses were cultivated at the time of importation, and after some years when degeneration had set in they were set to rest. It was noted also that the production of flowers is an exhaustive process and that the plants are unable to recover if the loss of the cactuses at the time of importation, and after some years when degeneration had set in they were set to rest. It was noted also that the production of flowers is an exhaustive process and that the plants are unable to recover if the loss of the cactuses at the time of importation, and after some years when degeneration had set in they were set to rest.

"The result of these experiments shows that cactuses, when degenerate, contain less dry matter, organic substances, nitrates and ash. Among these elements, diminution is evident in the amount of potash, lime, magnesia and phosphoric acid—that is to say, in the principal fertilizing elements. The cactuses were grown in a soil almost destitute of fertilizing matter, and their weakness is attributable to the production of flowers for which they were cultivated. To verify this the experimenters proceeded to analyze the flowers and discovered what amount of loss of fertilizing elements these plants sustained as a consequence of flowering. It was said that the main matter of the flowers contains a considerable quantity of nitrogen, and that the cactus is particularly rich in potash, lime, magnesia and phosphoric acid. The dwindling of cactuses in respect to these elements, therefore, as explained very clearly in this way, the results plainly showing that degeneration is due to the exhaustion of the plants to the exhaustion caused by the production of flowers.

From the standpoint of practical horticulture we may conclude from this investigation that cactuses should receive, to counteract the degeneration, a mixture of suitable manures, containing nitrogen, phosphoric acid, potash, lime and magnesia.

The following information on the same subject, furnished to the *Orchid Compter* by the Royal Horticultural Society by Mr. A. H. Smee, is very interesting. Mr. Smee experimented with an old and a new variety of *Cattleya Trianae*. He says:

"I fed this plant once a week, during the growing season, with one or two ounces of water, which contained nitrate of potash, nitrate of ammonia, phosphate of potash, carbonate of magnesia, of the strength of half an ounce of nitrate of potash and half an ounce of nitrate of ammonia, with a small quantity of the other salts, with the result that the plant made stronger and more and produced a greater number of flowers, which were brighter in color. In 1885 I tried a larger number of plants and I was so satisfied with the result that in 1886 I added nitrate of potash and nitrate of ammonia each, during the summer to the rain water tanks of the cactusa house. The total quantity used during the summer was one pound and one ounce of ammonia and one pound of the nitrate of potash. This worked out at the rate of one grain per gallon of rain water. The flowers of the cactusa this year were larger, brighter and had more substance than at previous years.

"This year I intend to increase the amount to five grains per gallon during the summer, so that to say from May to September. I also propose to treat some of the plants with small quantities of phosphate of ammonia and carbonate of magnesia, in addition to the nitrate of ammonia and potash. I expect that I shall be able to make a favorable report on a future occasion on the results of these experiments. I am sure that further observations will prove that the assimilation of phosphates by plants sets free the phosphoric acid contained with the nitro-hydro-carbons of the tissues with tend to promote inflorescence, and will probably increase the germinating power of the seed of epiphyllal orchids."

**CATALOGUES RECEIVED.**

STRAWBERRY & SON, New York, N. Y. Price List of Pot Grower and Layer Strawberry Plants.  
 THE LOVETT COMPANY, Little Silver, N. J. Price List of Pot Grower and Layer Strawberry Plants.  
 E. M. THORBERG & Co., New York.—Trade Price List of Turpin and other seeds adapted to the present season.  
 F. SANDER & Co., St. Albans, Eng. and Brussels, Belgium.—Descriptive List of Novelties for 1897 prepared by the author. These seeds of desirable novelties should procure a copy of this list.

**GERANIUMS.**

Brannet, extra, \$2.00 per 100; \$3.00 per 1000.  
 Brannet, 3 1/2 in. pots, \$1.00 per 100; \$1.00 per 1000.  
 Mixed best, var., \$2.00 per 100; \$3.00 per 1000.  
 In pots, \$1.50 per 100; \$2.00 per 1000.  
**WM. J. CHINNICK, Trenton, N. J.**  
 When Writing Mention Florists' Exchange

**SMILAX**

Strong plants, from pots, \$2.00 per 100; \$3.00 per 1000.  
**SAMUEL I. BUNTING, Elmwood Ave. & 58th St., Fla.**  
 When Writing Mention Florists' Exchange

**SMILAX**

35,000 fine 2 1/2 Smilax, \$2.00 per 100; \$15.00 per 1000.  
**BETSCHER BROS., Canal Dover, O.**  
 When Writing Mention Florists' Exchange

**ALLAMANDA GRANDIFLORA**

From 1 inch pot, \$1.00 per 100.  
**ASTER PLANTS**—(choicest color, Sample's) from 1/2 in. pots, \$1.00 per 100; \$1.00 per 1000.  
 In pots, \$1.00 per 100; \$1.00 per 1000.  
**JOHN C. EISELE, 20th & Ontario Sts., PHILADELPHIA, PA.**  
 When Writing Mention Florists' Exchange

**SMILAX!!! SMILAX!!!**

Strong plants, from 2 in. pots, \$2.00 per 100; \$15.00 per 1000. Extra strong, from 3 in. pots, \$3.00 per 100; \$25.00 per 1000. 25,000 fine 1000.  
**W. T. & F. P. BUTZ, Successors to Paul Butz & Son, New Castle, Pa.**  
 When Writing Mention Florists' Exchange

**SMILAX!!!**

3 1/2 inch best of stock ready for planting.  
 \$2.00 per 100; \$15 per 1000.  
**ADOLPH G. FEHR, Belleville, Ills.**  
 When Writing Mention Florists' Exchange

**SMILAX**

Strong 2 1/2 inch plants, \$2.00 per 100; \$3.00 per 1000.  
**V. A. BAKER, Bloomington, Ill.**  
 When Writing Mention Florists' Exchange

**SMILAX**

Strong 2 1/2 inch plants, \$2.00 per 100; \$3.00 per 1000.  
**V. A. BAKER, Bloomington, Ill.**  
 When Writing Mention Florists' Exchange

**SMILAX**

Strong 2 1/2 inch plants, \$2.00 per 100; \$3.00 per 1000.  
**V. A. BAKER, Bloomington, Ill.**  
 When Writing Mention Florists' Exchange

**SMILAX PLANTS**

out of 2 1/2 in. pots, \$2.00 per 100; \$15.00 per 1000.  
**FRED. SCHNEIDER, Cleveland, Ohio.**  
 When Writing Mention Florists' Exchange

**SMILAX PLANTS**

2 1/2 INCH POTS.  
 \$2.00 per 100. Cash.  
**EDWIN A. SEIDEWITZ, 36 W. LEXINGTON ST., BALTIMORE, Md.**  
 When Writing Mention Florists' Exchange

**SMILAX PLANTS**

2 1/2 INCH POTS.  
 \$2.00 per 100. Cash.  
**EDWIN A. SEIDEWITZ, 36 W. LEXINGTON ST., BALTIMORE, Md.**  
 When Writing Mention Florists' Exchange

**SMILAX PLANTS**

2 1/2 INCH POTS.  
 \$2.00 per 100. Cash.  
**EDWIN A. SEIDEWITZ, 36 W. LEXINGTON ST., BALTIMORE, Md.**  
 When Writing Mention Florists' Exchange

**SMILAX PLANTS**

2 1/2 INCH POTS.  
 \$2.00 per 100. Cash.  
**EDWIN A. SEIDEWITZ, 36 W. LEXINGTON ST., BALTIMORE, Md.**  
 When Writing Mention Florists' Exchange

**SMILAX PLANTS**

2 1/2 INCH POTS.  
 \$2.00 per 100. Cash.  
**EDWIN A. SEIDEWITZ, 36 W. LEXINGTON ST., BALTIMORE, Md.**  
 When Writing Mention Florists' Exchange

**SMILAX PLANTS**

2 1/2 INCH POTS.  
 \$2.00 per 100. Cash.  
**EDWIN A. SEIDEWITZ, 36 W. LEXINGTON ST., BALTIMORE, Md.**  
 When Writing Mention Florists' Exchange

**PALMS**

**LATANIA HORRONICA**..... 3 inch pots, \$5.00 per 100.  
**THE ELIZABETH NURSERY COMPANY, Elizabeth, N. J.**  
 When Writing Mention Florists' Exchange

**STORRS & HARRISON CO., Painesville, Ohio, ...**

Wholesale Nurserymen and Florists, ...  
 When Writing Mention Florists' Exchange

**Nephrolepis Exaltata Bostoniensis.**

In large and small quantities from \$40.00 to \$50.00 per 1000.  
**MINE IS THE GENUINE STOCK.**  
**FRED C. BECKER, - - - 1730 Cambridge Street, CAMBRIDGE, MASS.**  
 When Writing Mention Florists' Exchange

**FOR SALE CHEAP. A. CUNEATUS FERNS**

1 *Latania Horronica*, 2 ft. high, \$7.00.  
 2 *Dicksonia Antiarifolia*, 5 ft. high.  
 2 *Dracopis Australis*, 10 ft. high.  
 1 *Rubus Tree*, 5 ft. high.  
 600 *White Verbeena* the plants.  
 2 *Large Night Blooming Cereus*, (tree) almost in bloom.  
**H. W. HALES, - Ridgewood, N. J.**  
 When Writing Mention Florists' Exchange

**THE WILLIAMS-WILSON CO., 224 First St., Cleveland, O.**

**FERNS + + Palms, Ferns, Etc.**

*Pteris Serrata*, \$1.00 per 100.  
*Pteris trifida* alba, \$1.00 per 100.  
*Adiantum*, \$1.00 per 100.  
 Magnolia, \$1.00 per 100.  
 Aspidium tenax, \$1.00 per 100.  
 \$45.00 per 100. CASH WITH ORDER.  
**CHAS. F. BAKER, Union, N. Y.**  
 When Writing Mention Florists' Exchange

**JULIUS ROEHR'S, Headquarters for**

**Palms and Decorative Plants,**  
 RUTHERFORD, N. J.  
 P. O. Address, 107 Park Hill, N. J.  
 When Writing Mention Florists' Exchange

**PALMS**

Decorative Plants at Greatly Reduced Prices.  
 Stock large and in the coolest climate.  
 Send for new Wholesale List. Special prices on large orders. Send in list of your wants and we will, at our best, please.  
**W. H. S. PIERCE, Plantations, N. B.**  
 When Writing Mention Florists' Exchange

**FERNS**

We make a specialty of small ferns for the Fall trade.  
 Write for special prices on large quantities. Order early.  
**JOHN SCOTT, KEAP STREET GREENHOUSE, BROOKLYN, N. Y.**  
 When Writing Mention Florists' Exchange

**PALMS AND FERNS.**

**THE LARGEST STOCK IN THE WEST.**  
**GEO. WITTBOLD, 1708 N. Chicago St., CHICAGO, ILL.**  
 When Writing Mention Florists' Exchange

**PALMS**

**ROYAL NURSERIES, LUIS VAN HOUTTE PÈRE, Ghent, Belgium.**  
 When Writing Mention Florists' Exchange

**PALMS**

**ROYAL NURSERIES, LUIS VAN HOUTTE PÈRE, Ghent, Belgium.**  
 When Writing Mention Florists' Exchange



provisions. An attempt was once made to have a walk laid out by a distinguished lawyer, who walked up the pathway, as it entered grounds, but this plan was not strong enough to stand the combined force of the winds that blow in that locality, assisted, as they were, by that of public opinion, which stood for the traditions of the fathers. There are times when almost everybody goes a-fishing. And so, by common consent, the villa owners laid out this walk in front of their "cottages" and dedicated it to the public, making it equal to any within the grounds, and trusting to the courteous instincts of humanity, that given such a path the visitors would keep off the grass and leave the plants and flowers unharmed.

In entering upon this walk it is well to begin at the bathing beach and proceed southward. In going so one first passes the Chanler estate, the early home of the husband of Amelia Rives Chanler, the novelist, who, of course, is not now a Newport resident. Then comes the New Cliffs Hotel, the only one in the city that is in sight of the ocean. In crossing Narragansett Avenue, which terminates at the "forty steps" and heading down the cliff to the sea, no one will need advice to pause and for a few moments study the situation. The rocks here make a favorite resort for the hook and line fishermen, though it is not safe to presume too much on the rocks being a favorite resort, as more than one man has been washed off at this point and drowned. From the beach above the outlook is magnificent. As Newport is situated on a neck of land extending southward, the visitor is already beyond the average line separating the land from the water, and so the view sweep takes a long coast line with its curves and clearly-defined points jutting out into the sea even to Gay Head, on Martha's Vineyard. And as the walk continues these are shown more and more clearly, making up a marine view of surpassing interest.

On leaving the "forty steps" the visitor passes at once into the grounds of some of the finest estates in the city. The first is that of Mr. Robert Goelet, of New York, where is to be found some of the best of Newport. During the past winter the walk has been cut down or depressed at this point, so that the visitor can see the sea, but as the estate is nearly square, with a street on each side, and the wall is low, the view is open to inspection. Here are to be seen shrubs and herbaceous perennials, mostly planted in the past few years, arranged by our best landscape architects. For instance, there are hundreds of *Retinospora plumosa* aurea, closely planted and sheared so as to present an unbroken surface, with perhaps a border of darker shade of foliage. The same is true of some of the varieties of the popular Japan maples, the golden junipers and many of the more common sorts. It was here the *Rosa rugosa* was first introduced and popularized in Newport, and there are hundreds of them still in use, as well as everywhere else on similar estates. One of their especial uses is as a windbreak, some of these hedges being on the very brow of the cliff, and not only holding their own but doing good service in protecting less hardy specimens behind them. A few years ago, after one of the most terrific autumnal storms I have ever known, when trees were uprooted and gardens made desolate, I went around the entire shore from Hallowell plain to the bathing beach, a distance of from six to eight miles, to study and take notes of the effect of the storm. A sufficient time having elapsed to show clearly what had occurred in this direction. The *Rosa rugosa*, though whipped and twisted out of shape and all proper proportions, everywhere was in the best condition of anything on the line. I followed up the inquiry and found that in nearly, if not quite, every instance these plants recuperated and grew the next season with their customary vigor. They should be cut in very sharply every autumn, as otherwise they become coarse and uncomely in appearance. In some instances they are cut back to three twelve to eighteen inches every year, and with the best results. The illustration shows a bed of these roses growing in a very sheltered spot, the most exposed point on all the Newport grounds, indicates how compactly the plants are packed and used as a hedge plant, for which it is in every way fitted.

One or two experiments in this direction have been tried here which proved unsatisfactory through failure to use the pruning shears vigorously in the fall or early spring before the growth had started. A *Rosa rugosa* hedge, well

in America, if not in the world. Here Mr. Cornelius Vanderbilt has his more than thirteen acres of lawn and garden spread out, including horticultural treasures gathered from all parts of the globe.

and kept as closely and carefully shaven as any in the city.

This famous Cliff Walk proper terminates at what is known as Bailey's Beach, the popular resort for bathing on the part of the summer people now



The Cliff Walk, Newport, R. I.

grown and well kept, is a thing of beauty all the summer and impenetrable to man or beast. And yet I have never seen but one good one and that was not in Newport.

Separated only by a very narrow street, which extends from Bellevue Avenue to the shores, is the millionaire villa of Mr. Ogden Golet, which is a veritable castle by the sea, a massive pile of stone and a wealth of horticultural treasures worthy of the situation. Then comes "Vineland," the name given it by its founder, Miss Catherine Wolfe, which, since that

it is not within the possibilities of an article like this to even name the villas or their owners along the line of this pathway. The course extends through the estates of such parties as J. H. Drexel, August Belmont, William C. Whitney, Jr., Mrs. William Astor, W. K. Vanderbilt, William Waldorf Astor, Dr. C. M. Bell, Ogden Mills, F. W. Vanderbilt, H. M. Brooks and many others, which would be worthy a visit either as a pleasure or a study.

The illustration shows the walk at a point across the villa grounds of Dr. C. M. Bell, of New York, where for a little

that the old and in itself better bathing place, but for the presence of the many who now go there as excursionists and townspeople. This beach is held as private property and is fitted up for the especial use of the owners, though the beach itself cannot be sequestered from the use of the general public. The villa beyond the bathing place, known as "The Rocks," is the summer home of Mr. Henry Clews, and is rightly named, as there are several acres of the solid and bare stone spread out between his house and the ocean. Here is the wonderful "spouting rock."



Hedge of *Rosa rugosa*, used as a Windbreak on Estate of Mr. Robert Goelet, Newport, R. I.

lady's death, was the property of Mr. Louis L. Lorillard, and was sold by him a year or so ago to Mr. H. McK. Twombly, the present proprietor. We have no sooner passed it than we enter "The Breakers," the largest by far and the most costly summer home

used the natural conditions permitted the passage at the base rather than on top of the cliff. The steep embankment rises some thirty or forty feet, and as seen, at a sharp decline, but the lawn in front of the mansion on its brow is extended down the declivity

with its cavern, into which at certain winds and tides the waves rush with such fury as to be forced out through an opening farther back in a column from twenty to fifty feet in the air—certainly a great natural curiosity.

L. D. DAVIS.

## Cypress

## Greenhouse Material

We are the pioneers in Clear Cypress Greenhouse Material. We discovered that Cypress is better than any other wood for greenhouses from top of posts up and we introduced it, and fought for it against many prejudices, and finally succeeded in bringing it into general use.

Others have attempted to follow where we lead, others are trying to reap what we sowed, but we have the experience and are recognized as experts in greenhouse construction.

Write for Circulars  
or Estimates.

Lockland Lumber Co.

LOCKLAND, OHIO.

When Writing Mention Florists' Exchange

**GLASS!** For Greenhouses, Conservatories, Graperies, Hotbeds and all other purposes, at Lowest Rates.

**N. COWEN'S SON, 392 & 394 West Broadway, New York.**  
Formerly 184 and 156 So. Fifth Avenue.

Get our Figures before buying glass. Estimates Freely Given.

When Writing Mention Florists' Exchange

## Eras Improved Challenge.

Roller bearing, self-oiling device, automatic set, solid iron chair, make the IMPROVED CHALLENGE the most perfect apparatus in the market. Write for catalogues and prices before placing your order elsewhere.

Quaker City Machine Co.,  
RICHMOND, IND.

When Writing Mention Florists' Exchange

## IMPROVED GLAZING.

J. M. GASSER'S  
PATENT ZINC JOINTS

For Roofing Glass Without Laps.  
Makes a Roof Air and Water Tight. Saves Fuel. No Breakage from Frost or Medium Sized Hail. Manufactured by

**J. M. GASSER,**  
Wholesale and Retail Florist.

Write for Prices and Circulars.

When Writing Mention Florists' Exchange

## WHAT I KNOW

. . . of the . . .

Ormsby  
Ventilating System

BRIDGEPORT, CONN., June 16, 1897.

Mr. Ormsby,

DEAR SIR:—To express my appreciation of your ventilating system would be to say "If I had twenty more greenhouses to build besides the three I have already finished I would have them all ventilated with your system, even if a number of those in the market would put theirs in for nothing." Having had three years' experience with it, and now having 2000 feet of your ventilating apparatus, which we consider the lightest, quietest, and the best in the market, we feel in recommending it to every one that they will not be running any risk in buying it, and they will find in using it that it will prove in every respect satisfactory.

Yours respectfully,

JAMES E. BEACH.

For particulars address,

E. A. ORMSBY, Melrose, Mass.

When Writing Mention Florists' Exchange

## OBITUARY.

Johann Lambert.

Johann Lambert, partner of Lambert & Reiter and Lambert & Sons, of Trier, Germany, died on the 25 at a long illness, in the 67th year of his age. His firm is one of the largest and best known in Germany. Besides growing trees and shrubs, they raised large stock of roses. Among the latter they were the originators of Kaiserin Augusta Victoria.

James S. Reid.

James S. Reid, late foreman for Julius Wolf, Jr., whose death was reported last week, was born in Aberdeen, Scotland, in 1853. After serving his apprenticeship in his own country he went to England and spent several years on prominent places. He came to this country about 1887 and spent two years around Boston. He returned to Europe during the late Paris Exposition, having secured employment in the Horticultural Department there, and while there received a silver medal for artistic work in the exposition grounds. He returned to this country in 1892 and was employed by Julius Wolf, Jr., which position he held at the time of his death. He was an excellent plantsman and well liked by his employer.

On Sunday, July 4, deceased went for a bicycler ride to Valley Forge, Pa., along with the Diamond Wheelmen of this city. Arriving there a party went in bathing in the Schuylkill river. Mr. Reid being one of the party. For some time he had been affected with a weak heart, and being attacked while in the river he sank and was drowned before help could reach him. He has left a widow and two small children. He was a member of the Order of Rose Men and also of the Odd Fellows. These two orders have taken charge of his affairs and are now making arrangements to send the widow and children back to Scotland.

LID RUST.

## Chicago.

Market News. Another week of intensely hot weather brought roses to the lowest ebb possible. But for Kaiserin and Meteor matters would be even worse than they are. The best of these roses, too, would be little better than scrubbs at any other season of the year. "Parties fortunate enough to have these varieties in anything like fair condition commanded \$3 to \$4 per 100, while the balance had to go at very low figures—50 cents to \$2.

Carnations, especially the pink ones, are of fair quality, but 50 cents to 75 cents is about as high as the price of the blooms would go.

Sweet peas have been a drug at 15 cents to 20 cents, while the rose-gone as low as 6 cents to clear out.

We saw a wagon load of Kiehm's promise delivered from the cold storage room. From 180 to 200 dozen remain, so that the end is nearing. It is astonishing how well the flowers open after their thirty days of cold storage treatment. The price is \$2 to \$3 per 100; and with roses so poor the carnations may be said to have been a cinch for the

firm that caught on to this method of preservation.

The hot weather has affected all classes of outdoor flowers. On the afternoon of the 9th another glorious rain fell and at this writing the condition of the American gardeners livable on earth once more. A few days with prevailing weather conditions will improve the present quality downward.

There is not much trade outside of funeral work, but those who want a few extra dollars, may, perhaps, be able to obtain them. Beauty, particularly, is scarce, the best bringing about \$1 per dozen.

## Horticultural Society.

The stated meeting of this society was held on the 10th, the principal feature being a paper read by O. C. Simonds on "The Ideal Park Superintendent." Mr. Simonds is the well-known superintendent of Graceland Cemetery, but also does a good deal of landscape work around this city. All well-wishers of our park system can only pray that such persons as outlined by him should be selected and then left to carry out their own ideas without interference through the agency of political pigs, the bane of most municipal work nowadays.

## Club Notes.

The Florists' Club has been invited to give a party at Graceland at Arlington Heights, on the 18th inst., and no doubt a large crowd will accept the invitation. The guests, however, and sons, are noted for their hospitality.

Mr. Lang, of Harms & Lang, left this week for a two-weeks' outing to Manitowoc. EDGAR SANDERS.

## Toronto.

## Hot Weather Kills Business.

The weather here has been for the past nine or ten days so very hot that it has nearly killed what business there was. Excepting a little funeral work there is but little doing. The heat has made roses and carnations generally poor. Sweet peas and other summer flowers are also scarce. The North League Convention is to be held in the city this week and there will be some thousands of visitors here, so perhaps they will use up a little of the surplus stock.

## A Cricket Match.

A number of the boys met at the exhibition grounds last Wednesday for a game of cricket, and a very enjoyable time was had. After playing for nearly three hours the game was adjourned. The Park Commissioner, entertained the players in good style. It has been decided to ask Harry Dale and his boys down from Brampton for a day's amusement early next month.

## Meeting of Horticultural Society.

The July meeting of the Horticultural Society was held on Tuesday, the 6th inst., and in spite of the heat it was well attended. The subject for discussion. The meeting was an open one and many of the public were present. Mr. Dunlop, the president, read a short paper by J. H. Dunlop on the cultivation of tea roses in greenhouses. He also read a very interesting talk on hardy roses and climbers. He mentioned many varieties of roses as among the best for our country that had been in cultivation for over fifty years. While he highly praised many of the newer kinds, he said that some of these old ones had proved so good and so hardy that we could hardly do without them. It was certainly information to many of us that so many of our favorites had been in cultivation for so long. The visitors were quite interested in the talk and many questions were asked before Mr. Chambers was allowed to take his seat.

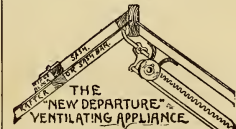
Some good seedling geraniums were on display from Messrs. Hay and Gallardias and delphiniums from Mr. Frost and Manton Bros. The next meeting will be on the 13th inst. and will be devoted mostly to the subject of sweet peas. If the weather be favorable there will be quite a show of them. Mr. Utley is an enthusiast in their culture and there are several other good growers among the members.

The members of the Gardeners and Florists' Association go to Niagara Falls on the 10th inst. for their annual picnic. THOS. MANTON.

Chadborn's Automatic Ventilator  
**CHADBORN, KENNEDY & CO.**  
NEWBURGH, N. Y.

**CYPRESS GREENHOUSE MATERIAL**  
OF ANY DESCRIPTION.  
SEND FOR CATALOGUE.  
IF YOU WANT A GOOD SASH LIFT For a Very Little Money Get

LOUHOAN CO. MONINGER CO. CHICAGO, ILL.  
412 N. 422 W. HATHORN AV. CHICAGO, ILL.



THE "NEW DEPARTURE" VENTILATING APPLIANCE.

For Descriptive Catalogue Send to  
**J. D. CARMODY, Evansville, Ind.**  
When Writing Mention Florists' Exchange

**CYPRESS**  
IS MUCH MORE DURABLE THAN PINE.  
**CYPRESS SASH BARS**  
UP TO 12 FEET IN LENGTH OR LONGER.  
**GREENHOUSE**  
AND OTHER BUILDING MATERIAL.  
Send for Illustrated Book "CYPRESS LUMBER AND ITS USES."  
Send for our Special Greenhouse Circular.  
**THE T. STEARNS Lumber Co.**  
Newburgh, Boston, Mass.

When Writing Mention Florists' Exchange

**VALVES, FITTINGS, AND VENTILATING APPARATUS**  
**COLDWELL-WILCOX CO.**  
Newburgh, N. Y.  
Mention paper.

## SUMMER IN WINTER

By Using  
**Standard Greenhouse Rollers**

One cent gets our Catalogue.

**GIBLIN & CO., Utica, N. Y.**

When Writing Mention Florists' Exchange

**LORD & BURNHAM CO.,**  
**HORTICULTURAL ARCHITECTS AND BUILDERS,**  
**STEAM AND HOT WATER HEATING ENGINEERS.**

Plans and Estimates furnished on application.



Largest Builders of Greenhouse Structures. Six Highest Awards at the World's Fair. Send four cents postage for Illustrated Catalogue.

**LORD & BURNHAM CO.,**  
 ARCHITECTURAL OFFICE, 160 FIFTH AVE., COR. 21st STREET, NEW YORK.  
 Factory: Irvington-on-Hudson, New York. Mention paper

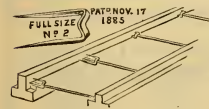
**GLASS** FOR GREENHOUSES, CONSERVATORIES, GRAPERIES, HOTBEDS AND FLORISTS' USE GENERALLY, AT LOWEST RATES.  
**L. HARRIS & SON.**  
 497 W. BROADWAY, NEW YORK. 89 LIBERTY ST., NEW YORK.  
 Est. Westcott and Hleecker Sts. Est. Broadway and Church Sts.

When Writing Mention Florists' Exchange

**CALIFORNIA RED CEDAR**  
 Never Decays.  
**A. DIETSCH & CO.** 619 Sheffield Avenue, CHICAGO.  
 MANUFACTURERS OF  
 RED CEDAR AND CYPRESS GREENHOUSE MATERIAL.  
 When Writing Mention Florists' Exchange

**GREENHOUSE GLASS.**  
 THE WOOD GLASS COMPANY.  
 226 N. SALINA ST., SYRACUSE, N. Y.

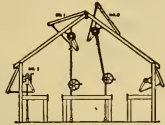
When Writing Mention Florists' Exchange



**THE VAN REYPER**  
**PERFECT GLAZIERS' POINTS**  
 No rights or lefts. Price per box of 1000, 60c. by mail, 75c.; in lots of 5000 by ex., 55c. per 1000  
**HENRY A. DREER, 714 Chestnut St., Phila., Pa.**

When Writing Mention Florists' Exchange

**STANDARD VENTILATING MACHINE.**  
 NONE EQUAL IT IN Strength AND Durability  
 NOTHING Flimsy OR Complicated about it.  
**E. HIPPARD, YOUNGSTOWN, OHIO.**



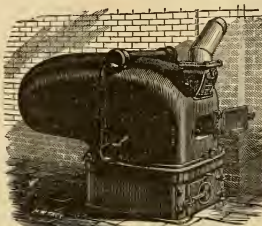
When Writing Mention Florists' Exchange

**TRADE GREENHOUSES.**  
 THE BEST MADE.

"Florists" Get Your Plans and Estimate from  
**PLENTY'S HORTICULTURAL WORKS,**  
 148-156 Randolph Ave., JERSEY CITY, N. J.

When Writing Mention Florists' Exchange

**GREENHOUSE HEATING AND VENTILATING,**  
 Horticultural Architecture and Building.



Mention paper

**Hitchings & Co**

ESTABLISHED 1844.  
 233 Mercer Street, NEW YORK.

**FIVE PATTERNS OF BOILERS.**  
 NINETEEN SIZES.  
 Perfect Sash Raising Apparatus.  
 Recesses, Greenhouses, Etc., of Iron Frame Construction erected complete or the Structural Iron Work shipped ready for erection.  
 Iron Frame Penches with the "Perfect Drainage Bench The" or Slate Tops.

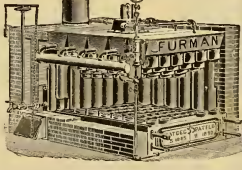
SEND 4c. POSTAGE FOR ILLUSTRATED CATALOGUE.

SEND FOR OUR NEW CATALOGUE, WHICH SHOWS  
**The New Automatic Cable Ventilator**  
 As it is put up in the house complete. We also give you prices with a guarantee that each machine sent out will operate your house successfully. Sash machines now made in two sizes.  
**A. Q. WOLF & BRO., Dayton, Ohio.**  
 When Writing Mention Florists' Exchange

**MASTICA**

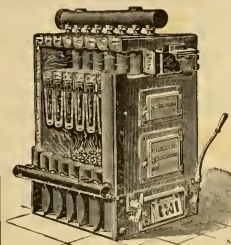
FOR GLAZING GREENHOUSES. SUPERIOR TO PUTTY IN EVERY WAY.  
 It is hardened by the extreme heat or cold that a greenhouse is constantly subjected to both inside and out. Mastic is adhesive and remains permanently elastic so that it is not forced out of place by expansion and contraction of the woodwork. Houses glazed with Mastic do not need re-glazing, thus saving time and expense. With Mastic use "bed-nails" or use on the outside, but with a machine only.  
 Mastic and Dissect Glazing Machine were given  
**HIGHEST AWARD OF SOCIETY OF AMERICAN FLORISTS AT PITTSBURG, 1895.**  
 Put up in gallons, \$1.00. Half gallons, 60 cts. Quarter gallons, 35 cts.  
 Mastic Glazing Machines, \$1.00 each.  
 Send for full descriptive circular and testimonials. Agents in all the principal cities.  
**F. O. PIERCE CO., Sole Manufacturers, 170 Fulton St., New York.**  
 When Writing Mention Florists' Exchange

**FURMAN BOILERS**



especially adapted to  
**Greenhouse Heating.**  
 300 Styles and Sizes. Steam and Hot Water.  
**SAFE, SUBSTANTIAL, SIMPLE, ECONOMICAL.**  
 Portable or Brick Set.  
**GREAT COAL SAVER.**  
 Send for catalogue. Estimates Free.  
**THE HERENDEEN MFG. CO., N. Y.**  
 Home Office: 13 Fay St., Geneva, N. Y.  
 BRANCH OFFICES:  
 Boston, 54 Oliver St.; Philadelphia, 1019 Betz Bldg.;  
 New York, 39 Corlandt St.; Milwaukee, 135 2d St.

When Writing Mention Florists' Exchange



**ATTENTION, FLORISTS!**

It will be to your advantage to look into the merits of the Scollay "Invincible" Hot Water Boiler.  
 It is all that its name implies, and don't forget it.  
 Cuts and full information mailed on application.

**JOHN A. SCOLLAY,**  
 74 & 76 MYRTLE AVE.,  
**BROOKLYN, NEW YORK.**  
 When Writing Mention Florists' Exchange

**J. K. ALLEN,**  
Wholesale Commission Dealer in  
**CUT FLOWERS,**  
57 W. 28th St., New York.  
Orders by mail or telegraph promptly attended to.  
Telephone Call, 32 38th St.  
**ROSES and VIOLETS SPECIALTIES.**

**W. S. ALLEN,**  
17 West 28th St., New York.  
  
Correspondence Solicited.

**FORD BROS.**  
**WHOLESALE FLORISTS,**  
111 West 30th Street,  
NEW YORK.  
Consignments Solicited. Telephone 260 39th St.

**WM. H. CUNTER,**  
**Wholesale Florist**  
VIOLETS and CARNATIONS a SPECIALTY.  
Consignments Solicited.  
30 West 29th St., New York.  
Telephone, 230-38th Street.

**MICHAEL A. HART,**  
**Wholesale & Commission Florist,**  
113 W. 30th St., New York.  
Telephone Call, 187 28th St.  
All kinds of Roses, Violets and Carnations a specialty.  
**ORDERS PROMPTLY ATTENDED TO.**

**H. A. HOFFMANN,**  
**Wholesale Florist**  
44 W. 29th St., New York.  
Telephone Call, 168 38th St.  
American Beauties, Carnations, White Violets.  
Specialties. CONSIGNMENTS SOLICITED.

**EDWARD C. HORAN,**  
**WHOLESALE FLORIST,**  
No. 34 W. 29th St., New York.  
The Bride, Hermet and American Beauty, Specialties.

**JULIUS LANG,**  
**Wholesale Florist**  
53 WEST 30th ST.  
Consignments Solicited. NEW YORK.

**FRANK MILLANG,**  
**Wholesale Commission Dealer**  
...in Cut Flowers...  
40B East 34th St., New York City.  
Cut Flower Exchange. Telephone Call, 164-38th.

**THE NEW YORK CUT FLOWER CO.**  
119-121 West 23d Street,  
112-114 West 24th Street,  
Telephone 733, 19th St. NEW YORK.  
**THE LARGEST DEALERS IN OUT  
FLOWERS IN THE WORLD**

**W. E. LYNCH,**  
**Wholesale Dealer in Cut Flowers.**

We are Headquarters for finest Carnations and Roses, Violets, Valley, Romans, Smilax.  
Assortment. Best selected stock reserved for shipping orders. Send us your name for our  
Semi-Monthly Price List.  
**19-21 RANDOLPH STREET, CHICAGO.**  
When Writing Mention Florists' Exchange

**CHAS. W. McKELLAR,**  
**WHOLESALE COMMISSION FLORIST**  
Largest and best market in Chicago. Constant supply of all seasonable flowers.  
Consignments of first grade goods solicited. Complete stock of selected Florists' Supplies, Wire work, etc. All orders given prompt attention.  
Telephone, Main 1129. **45, 47, 49 WABASH AVENUE, CHICAGO, ILL.**  
E. O. F. WILKINSON, Manager.



NAME AND VARIETY.	NEW YORK	BOSTON	PHILADELPHIA	CHICAGO	ST. LOUIS
	July 16, 1897.	July 15, 1897.	July 14, 1897.	July 14, 1897.	July 14, 1897.
A. Beauty, fancy and special	20.00 to 35.00	12.00 to 20.00	15.00 to 25.00	8.00 to 10.00	10.00 to 15.00
" extra	10.00 to 15.00	6.00 to 10.00	10.00 to 16.00	5.00 to 7.00	7.00 to 10.00
" No. 1 roses	1.00 to 3.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
Calls and ordinary	1.00 to 3.00	1.00 to 4.00	2.00 to 3.00	1.00 to 2.00	1.00 to 2.00
Beauties, Omaha	.50 to 1.00	2.00 to 4.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
Bride	.50 to 1.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
Bridemaid	.50 to 1.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
Chrysanthemum	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
S. A. Violets	2.00 to 5.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00
La France, extra	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
ordinary	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
Major Charts	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
Miss. Vermont	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
Mrs. F. Morgan	.50 to 1.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
Nippon, Hosts	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
Papa Ontario	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
Peris	.50 to 1.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
Rock of Wootton	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
Urich's Beauty	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
Waverley	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
VALLEY	75 to 1.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
ASHLAND	50 to 60.00	50.00 to 60.00	45.00 to 55.00	40.00 to 50.00	50.00 to 60.00
LETTER (not done, bunches)	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
VALLEY	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
All colors, inferior grades	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
" standard	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
" standard Pink	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
VALLEY Bed	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
VALLEY Bed & Vario	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
" fancy	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
" the highest Pink	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
" the highest Yellow	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
" the highest Yellow & Vari	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
NOVELTIES	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
CARNATIONS	30.00 to 40.00	30.00 to 40.00	30.00 to 40.00	30.00 to 40.00	30.00 to 40.00
LEAF	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
LEAF Long Horn	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
LEAF OF THE VALLEY	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
MONROE	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
PANONIA	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
SMILAX	8.00 to 10.00	8.00 to 10.00	13.00 to 15.00	8.00 to 10.00	10.00 to 12.00
SWEET PEA (100 bunches)	8.00 to 1.00	8.00 to 1.00	8.00 to 1.00	8.00 to 1.00	8.00 to 1.00
TUBEROSES	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00

For Prices of Fancy and Special Stock see our Correspondence Columns.  
Prices are for quantities of one hundred unless otherwise noted.  
Prices quoted above are given only after very careful inquiry, and while we do not guarantee their accuracy, they will be found practically correct up to the date mentioned.

**REINBERG BROS.,** Wholesale Growers of Cut Flowers.  
... 500,000 Feet of Glass. ...

We can fill all orders on short notice with all leading varieties of ROSES and CARNATIONS. We are headquarters for fine AMERICAN BEAUTIES. Give us a trial and convince yourself.

**SALESROOM 51 Wabash Avenue, CHICAGO, Ill.**  
When Writing Mention Florists' Exchange  
**SAMUEL S. PENNOCK,** WHOLESALE FLORIST.  
A fine stock of VALLEY on hand throughout the Summer. Also a full line of all seasonable cut flowers.  
During July August and September we close at 6 P. M.  
**1612-1614 Barker St. Bet. Chestnut & Market Sts. Philadelphia, Pa.**  
Local and Long Distance Phone 5210.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**H. L. SUNDERBRUCH CO.,** Wholesale Commission Florists,  
4th and Walnut Streets,  
CINCINNATI, OHIO.  
Consignments Solicited. Special Attention Given to Shipping Orders.  
**HEADQUARTERS** in Western New York. Try us  
ROSES, CARNATIONS and ALL SEASONABLE FLOWERS.  
**WM. F. KASTING,** Wholesale Commission Florist  
438 Washington Street,  
Buffalo, N. Y.  
Also Dealer in Florists' Supplies & Wire Designs

**PURDY & BLAUVELT,**  
Wholesale and Commission Dealers in  
**CUT FLOWERS**  
MADEIRA FEIN FLOWERS a SPECIALTY.  
57 WEST 30th STREET,  
Bet. Broadway & 6th Ave. NEW YORK.

**A. & F. ROLKER,**  
WHOLESALE DEALERS IN  
**CUT FLOWERS**  
53 West 28th St.  
Telephone 2379 38th St. NEW YORK.

**W. F. SHERIDAN**  
Wholesale Commission Dealer in  
**CUT FLOWERS**  
39 West 25th St., New York.  
Telephone, 314-38th St.  
PRICE LIST SENT ON APPLICATION.

FRANK H. TRANDLY, CHARLES SCRENCK.  
**TRANDLY & SCRENCK,**  
Wholesale Florists,  
38 W. 28th St., and CUT FLOWER EXCHANGE,  
NEW YORK.  
Telephone 90-39th St.  
Consignments Solicited.

**JOHN YOUNG,**  
**Wholesale Florist,**  
51 WEST 28th ST.,  
NEW YORK.

**WM. J. BAKER,**  
**Wholesale Florist**  
1432 So. Penn Square,  
Philadelphia, Pa.

**DUMONT & CO.,**  
**WHOLESALE FLORISTS**  
CARNATIONS a SPECIALTY.  
No. 1305 Filbert St., Philadelphia.

**Illinois Cut Flower Co.,**  
51 Wabash Ave., Chicago.  
Special discounts on Wire Work during July and August.

**KENNICOTT BROS. COMPANY,**  
**Wholesale - Cut - Flowers,**  
88 Wabash Avenue,  
CHICAGO, ILL.  
WIRE WORK A SPECIALTY.

**ROGERS PARK FLORAL CO.,**  
**Wholesale Growers of Cut Flowers**  
OFFICE and SALESROOM  
41 WABASH AVE., CHICAGO.  
Headquarters for AMERICAN BEAUTIES.



**JOHN CONLEY & SON,**  
MANUFACTURERS OF  
**TIN FOIL**  
2 and 4 Dominick Street,  
**NEW YORK.**

When Writing Mention Florists' Exchange

**CELERY PLANTS** Strong and  
Healthy. \$1.00 per 100; \$2.00  
per 1000.  
Satisfaction and Special Low Rates Guaranteed.  
Most Practical Book on Celery Growing, 25 cts.

**PETER J. SCHUR,** Kalamazoo, Mich.  
When Writing Mention Florists' Exchange

**CELERY PLANTS**

**WHITE PLUME.** Field-grown plants  
at \$1.00 per 1000. Cash with order. Samples  
free.

**C. M. GROSSMAN,** Waterville, Ind.  
When Writing Mention Florists' Exchange

**250,000 CELERY PLANTS**

Golden Dwarf, White Plume, and  
Giant Pascal, 30 cts. per 100; \$1.75 for  
500. Cultivated and strong. Send 10 cts.  
for sample. Cash with order.

**HORACE RIMBY,** Collegeville, Pa.  
When Writing Mention Florists' Exchange

**VEGETABLE PLANTS**

**CABBAGE**—Henderson's Succession, Early  
Flat Dutch, Lipton, Autumn King, Burpee's  
Sire Head, Late Flat Dutch, Freckles Flat  
Dutch, Late Drumhead, Mammoth Rock  
Red and Drumhead Savoy. Field grown;  
15c. per 100; \$1.00 per 1000; \$5.00 for 5000.

**CELERY**—Dwarf Golden Heart, Golden  
Self Blanching, Giant Pascal, etc. Cash  
with Plume and Giant Paragon Celeries.  
15c. per 100; \$1.00 per 1000; \$5.00 for 5000.

**R. VINCENT JR. & SON,** White Marsh, Md.  
When Writing Mention Florists' Exchange

**VEGETABLE PLANTS**

All strong, well rooted plants, of  
standard varieties.

Celery, strong, well-rooted.....	100	\$1 50
Celery, ordinary.....	15	1 00
Pepper.....	25	2 00
Cabbage.....	15	1 00
Cauliflower.....	25	2 00

Strawberry Plants, Potted, Carrie and  
Earliest (new varieties), also Brandywine,  
Touhousen and Gandy.

**TRADE PRICE LIST FREE.**  
Samples for Stamp.

**E. C. HARGADINE,** Fort Plain, Del.  
When Writing Mention Florists' Exchange

**FOR SALE.**

THE ENTIRE NURSERY STOCK  
OF THE LATE  
**JOHN SAUL,**  
COMPRISING

From 1,000 to 8,000 Silver Maples, 4 to 12 ft.  
From 2,000 to 4,000 Norway Maples, 4 to 10 ft.  
Several thousand trees, including Pines 2 to 6 ft.,  
Aplon, 3 to 8 ft., Malbarrie, Birce, Portia  
and other specimens.  
Large stock of Bergamote, including Norway  
Spruce, Pine, Fir, Hemlock, Redwood, etc., etc.  
Others, such as Decidua, Weigela, Wistaria,  
Aralia, Gira, Philadelphia, etc., and general  
nursery stock.

Will be sold as a whole on ground  
for any reasonable offer, . . . . .

For particulars write to  
**MARY C. SAUL,**  
**WILLIAM J. SAUL,**  
Executors,  
Washington, D. C.  
When Writing Mention Florists' Exchange

**WELCH BROTHERS,**  
DEALERS IN  
**FLORISTS' SUPPLIES,**

15 Province Street, } BOSTON.  
9 Chapman Place, }  
Wire Designs, Waxed Sheaves, Baskets, Im-  
mortelles, Cape Flowers, Cut Flowers, Boxes,  
and all other supplies, at prices to meet com-  
petition.  
When Writing Mention Florists' Exchange

**GROW PLANTS IN**  
"Jadoo" Fibre.  
WATER THEM WITH  
"Jadoo" Liquid.  
When Writing Mention Florists' Exchange

**M. RICE & CO.,**  
Importers and Manufacturers of  
**FLORISTS' SUPPLIES.**  
25 N. 4th St., Philadelphia, Pa.  
NEW FALL CATALOGUE NOW READY  
When Writing Mention Florists' Exchange



TELEPHONE 1782 18TH ST.  
When Writing Mention Florists' Exchange

DO NOT BE HUMBUGGED  
INTO USING CHEAP GREEN SILKALINE  
imitations of our



Contains more cord and does more work than anything  
else on the market. The original and only SILKALINE  
made solely by **JOHN C. REYER & CO.,**  
87 Summer Street, BOSTON, MASS., U. S. A.

When Writing Mention Florists' Exchange

**LARGEST AND BEST STOCK OF  
PREPARED CYCAS LEAVES**

**TO BE FOUND ANYWHERE**  
Metal Floral Designs, Sheaves, Doves, Baskets, Moss Wreaths, Wheat, Milk weeds,  
Cape Flowers, Wire Work, and all Florists' Supplies.  
Write for catalogue. Free to the trade.

**A. HERRMANN,** 404-412 East 34th Street (Near Ferry), New York,  
Manufacturer of METAL FLORAL DESIGNS, Importer and Dealer in FLORISTS' SUPPLIES.  
When Writing Mention Florists' Exchange

**Florists' Supplies.**  
**H. BAYERSDORF & CO.,**  
56 N. FOURTH STREET, PHILADELPHIA, PA.  
When Writing Mention Florists' Exchange

**VIOLETS.**  
Largest Stock in the Country.  
All goods up to date and of  
superior quality.  
Send for Illustrated Catalogue.

**VIOLETS MY SPECIALTY**  
All first-class plants. Orders received now  
for fall planting. Marie Louise, Lady  
Campbell, Swanley White, Fair-  
quhar, Tricouise de Galles, Cal-  
ifornia. Price on application.  
**F. FERD. BOULON,** C/O L. L. N. Y.  
When Writing Mention Florists' Exchange

**ASPARAGUS PLEUMOSUS NANUS,** 4 inch pots, \$1.00 per dozen;  
\$8.00 per 100. Cash with order please.  
**R. VINCENT JR. & SON,** White Marsh, Md.  
When Writing Mention Florists' Exchange

**20,000 SMILAX.**  
Good strong plants from 1 1/2 and 2 in.  
pots, October sowing, 25c for 100;  
\$15.00 per 1000. Cash with order.  
**PAUL LIEBSCH,** W. Main St., Batavia, N.Y.  
When Writing Mention Florists' Exchange

**CHRYSANTHEMUMS**—Last Call.  
A few hundreds of the following varieties, from  
pots, good plants at \$1.00 per 100: Glory of the  
Fades, E. Dandee, Mrs. H. Johnston, Helen  
Bloodgood, Philadelphia, Marion Henderson, Re-  
minis, Margot de Bloemart, Wm. Simpson,  
The Queen, Mrs. E. C. Hill, Jensen.

**SMILAX** \$2.00 per hundred; 2 inch pots, \$2.00  
per hundred.  
**C. EISELE,** 11th & Jefferson Streets, Philadelphia, Pa.  
When Writing Mention Florists' Exchange

**AMERICAN BEAUTY,** Meteor, Bridesmaid, Bride, Testout, Perle,  
Sunset, La France, Kaiserin, 3 and 4 in. pots.  
California Violets, 2 1/2, 3 and 4 in.  
Asparagus Plumose, 4 and 5 in.  
**A. S. MAC BEAN,** Lakewood, New Jersey.  
When Writing Mention Florists' Exchange

IN THE PRESS. PRICE, \$1.00.



THIS volume, which has been prepared by the foremost aquaticulturist of the country, and to  
whose efforts the present growing popularity of the Water Garden is largely due, is designed  
to serve as a SOUND, PRACTICAL CULTURAL HANDBOOK for amateur and professional alike.  
The book will be freely illustrated with plates and illustrations in the text, and will  
describe all operations, from the growing of plants in tubs to construction of the large pond,  
planting, seed saving, propagation, wintering, and all other necessary details of cultivation.

ORDERS RECEIVED NOW.  
**A. T. DELA MARE PTC. & PUB. CO., Ltd.,** Box 1697, New York.

# THE FLORISTS' EXCHANGE

We are a straight shoot and aim to grow into a vigorous

A WEEKLY MEDIUM OF INTERCHANGE FOR FLORISTS, NURSERYMEN, SEEDSMEN AND THE TRADE IN GENERAL.

VOL. IX, NO. 30.

NEW YORK, JULY 24, 1897

One Dollar Per Year.

## ..PALMS..

Owing to our stock being grown with plenty of air the plants are all strong and sturdy, and will bear transportation for long distances. Florists intending to purchase this class of stock for their fall trade will do well to place their orders immediately, so that they can have them shipped by freight, thus avoiding the excessive express charges which they would have to pay if shipped during the cold weather. The prices will also be very much higher in the fall than at the present time, owing to the high duty which will then be in force.

- ARECA LUTESCENS.**  
 5 inch pots, 20-24 inches high, 3 plants in a pot.....\$6.00 per dozen; \$50.00 per 100
- KENTIA BELMOREANA.**  
 3 inch pots, 8-12 inches high, 4-5 leaves.....\$3.50 per dozen; \$25.00 per 100  
 4 inch pots, 12-15 inches high, 4-6 leaves.....\$5.50 per dozen; \$50.00 per 100  
 5 inch pots, 15-20 inches high, 5-7 leaves, stocky.....\$7.00 per dozen; \$75.00 per 100
- KENTIA FORSTERIANA.**  
 3 inch pots, 12-15 inches high.....\$15.00 per 100  
 4 inch pots, 15-18 inches high.....\$25.00 per 100  
 5 inch pots, 20-24 inches high.....\$9.00 per dozen; \$75.00 per 100
- LATANIA BORBONICA.**  
 3 inch pots.....\$10.00 per 100  
 4 inch pots, 12-15 inches high.....\$5.00 per dozen; \$50.00 per 100  
 5 inch pots, 15-18 inches high.....\$5.00 per dozen; \$50.00 per 100  
 6 inch pots, 18-20 inches high, stocky plants.....\$9.00 per dozen; \$75.00 per 100
- COCOS WEDDELIANA.** 8 inch pots.....\$8.00 per dozen; \$25.00 per 100
- LIVISTONA HOOGENDORPII.** 4 inch pots, 10-12 inches high, 7 leaves, \$4.50 per dozen; \$35.00 per 100
- LIVISTONA ROTUNDFOLIA.** 5 inch pots, 15-15 inches high, 7-8 leaves, strong plants, \$1.50 each; \$18.00 per dozen.
- PHENIX RECLINATA.** 5 inch pots, 15-18 inches high.....\$6.00 per dozen; \$45.00 per 100

**PITCHER & MANDA, Short Hills, N. J.**  
 JOHN N. MAY, Receiver.  
 When Writing Mention Florists' Exchange

## WINTER FLOWERING ROSES.

Our stock of these is very large, and in exceptionally fine shape. We offer all the leading varieties, strong plants in 2 1/2 in. pots, as follows:

- PERLE, BRIDESMAID, BRIDE and MME. CUSIN,**  
 \$5.00 per 100; \$40.00 per 1000.
- MME. CAROLINE TESTOUT and MRS. PIERPONT MORCAN,**  
 \$6.00 per 100; \$50.00 per 1000.
- AMERICAN BEAUTY,**  
 \$9.00 per 100; \$80.00 per 1000.
- PRESIDENT CARNOT,**  
 \$15.00 per 100; \$125.00 per 1000
- We have a fine stock, also, of the new climbing  
**YELLOW RAMBLER ROSE**  
 The only hardy yellow climbing rose yet introduced. A worthy competitor to the wonderful Crimson Rambler. Strong plants, 2 1/2 in. pots, \$1.50 per doz.; \$13.00 per 100.  
 Strong plants, 3 1/2 in. pots, \$3.00 per doz.; \$30.00 per 100.

The above Rose Stock is in perfect shape and will please the most fastidious. Samples sent if desired. We invite inspection of stock.

In order to close out stock remaining on hand of  
**DOUBLE TUBEROUS BEGONIAS**  
 we offer what stock we have as long as unsold at \$3.00 per 100; \$25.00 per 1000.  
 This is only the price of ordinary Single Begonias, and considerably below cost. We offer at this nominal price only in order to close out stock we have left.  
 We have a sur-  
**TUBEROSE PEARL** Extra quality bulbs, 4-6 inches in circumference, perfect shape, 50c. per 100; \$4.00 per 1000.  
**SPEAK QUICK IF YOU WANT THESE BARGAINS.**

Our Whole-sale List of Palms, Decorative Plants, etc., will be sent free on application.

**F. R. PIERSON CO.,**  
 TARRYTOWN-ON-HUDSON, NEW YORK  
 When Writing Mention Florists' Exchange

## 1000 METEOR ROSES

For \$75.00; \$8.00 per 100. Fine, Strong, Clean Stock.

## 1000 NEW CANNA AUSTRIA

For \$80.00; \$10.00 per 100. Fine Stock.

**PALMS, FERNS and DRACÆNAS** of every Kind, Size and Price. **BAY TREES** all Sizes. All for the Trade.

## FRESH PALM SEEDS JUST ARRIVED

**KENTIA BELMOREANA,** . . \$7.00 per 1000.  
**SEAFORTHIA ELEGANS,** . . \$5.00 per 1000.

**SIEBRECHT & SON,**  
 Rose Hill Nurseries, NEW ROCHELLE, N. Y.  
 When Writing Mention Florists' Exchange

## THE COTTAGE GARDENS,

WHOLESALE FLORISTS,

...QUEENS, N. Y.

## SPECIALTIES

- Carnations, Chrysanthemums,  
 Geraniums, Dahlias,  
 Cannas, Boston Fern.

When Writing Mention Florists' Exchange

**SEASONABLE SEEDS!**



**PRIMULA FIMBRIATA**

(Chinese Primrose).  
Rubra (Red), Alba (White), Alba Magnifica, Rubra Violaesca, Chiswick Red, Meteor, Yellow Maid or Choice Mixed.

Trade Packages, 50c. and \$1.00.

**CINERARIA**

Hybrida Grandiflora choice mixed, Extra Fine Dwarf Mixed, Grandiflora Kermesina, Doli, Flowering.

Trade Packages, 50c. and \$1.00.

**CALECOLARIA**

Hybrida Grandiflora, choice mixed, Trade Packages, 50c. and \$1.00.

**WM. ELLIOTT & SONS**  
NEW YORK.

When Writing Mention Florists' Exchange

**BUY FROM THE GROWERS DIRECT**  
ALL BULBS AND PLANTS

For Summer and Fall Delivery, Quoted at Very Low Rates.

FREE ON BOARD CARS OR BOATS  
NEW YORK CITY.

HULSEBOSCH BROS., Englewood, N. J.  
When Writing Mention Florists' Exchange

**Fresh Seeds—Callia Bulbs.**

Apple Geranium (Tree), 25 cts. pkt.; \$1.00 per 1000 seeds; \$7.50 per 10,000 seeds.  
Musa Ensete, 75 cts. per 100 seeds; \$6.00 per 1000 seeds.  
Scarfthoria Elegans, 40 cts. per 100 seeds; \$3.00 per 1000 seeds.  
Cyprus Aterifolius, 25 cts. per pkt. \$1.00 per 100 seeds.  
Porphium Tenax, 25 cts. per 100 seeds; \$1.00 per 1000 seeds.  
P. Tenax Variegata, 50 cts. per 100 seeds; \$2.00 per 1000 seeds.  
Asplenium Australis (Tree Fern), 50 cts. \$2.00.  
Send prices on Callia Lilies, August and September delivery. Send for Trade List of Novelties and Specialties for a future delivery.  
**MRS. THEODOSIA B. SHEPHERD**  
Ventura-by-the-Sea, Cal.  
When Writing Mention Florists' Exchange

**F. E. McALLISTER CO.**  
SEED AND BULB MERCHANTS,  
69 CORTLANDT STREET, NEW YORK.

**Seasonable Florists' Flower Seeds.**

Primula Stuenesi Fimbriata, alba, alba magnifica. Bright red, rose, blue or mixed. Per Trade Pkt., (500 seeds), \$1.

Cineraria James' Giant Strain. Highly recommended by all who have grown it. Per Trade Pkt., \$1.

SMILAX SPRING, RUSTIC BASKETS, BAMBOO CANES, and all other kinds of Florists' Recreance always on hand.  
... Address all... communications to  
**JOHN S. GARRISON, Assignee, 69 Cortlandt St., N. Y.**  
When Writing Mention Florists' Exchange

**EVERY FLORIST OUGHT TO INSURE HIS GLASS AGAINST THEFT!!**

For particulars address  
**JOHN G. ENLER, 807, Saddle River, N. J.**

**FOR SALE ON CORK, DUTY FREE.**

15 000 BERMUDA LONGIFLORUM.  
Apply at most of James K. Simpson, 65 W. Boulevard, N. Y. City. Also Venus and Bistering Ovals.  
When Writing Mention Florists' Exchange

**BURPEE'S SEEDS**  
PHILADELPHIA  
WHOLESALE-PRICELIST FOR FLORISTS AND MARKET GARDENERS.  
When Writing Mention Florists' Exchange

**TURNIPI SEED, VARIETIES.**

CUCUMBER SEED, Best kinds for Pickling. First commencement of Our "SHRUB" ENGLISH MUSHROOM SPAWN just arrived. Quality better than ever. Prices right to Dealers.  
**WEBBER & DON,** Seed Merchants,  
114 Chambers St., NEW YORK CITY.  
When Writing Mention Florists' Exchange

**CLUCAS & BODDINGTON CO.,**

Importers, Exporters and Growers' Agents of  
Plants, Seeds and Bulbs,  
601 and 603 W. 13th St.,  
Telephone Call, 403 13th St. NEW YORK CITY  
When Writing Mention Florists' Exchange

**HEADQUARTERS FOR**

**Callias and Freesia Bulbs**

**PAMPAS PLUMES,**  
Palm, Callaria Tree and Flower Seeds.

Please let us book your orders for BULBS at once.

ASK FOR SPECIAL PRICES.

**GERMAIN FRUIT CO. Los Angeles, Cal.**

When Writing Mention Florists' Exchange

**DALM** Seed. FRESH ON HAND  
Chambrage ex. each... \$0.50 \$2.50 \$9.00  
Hibiscus... 1.00 5.00 21.00  
Lemon... 1.00 5.00 21.00  
Peach... 1.00 5.00 21.00  
Pecan... 1.00 5.00 21.00  
Walnut... 1.00 5.00 21.00  
J. L. SCHILLER, Rutherford, N. J.  
When Writing Mention Florists' Exchange

**HIGH-CLASS BULBS**

Our Wholesale Trade Price List will be ready in a few days and will be mailed to Dealers and Large Florists on application. We import only the very finest goods for Florists use. Roman Hyacinths, Dutch Hyacinths, Lithum Harrisii, Spiraeas, Van Sion Narcissus, &c., &c.

**CHOICE FLOWER SEEDS FOR FLORISTS.**

We have still a few of the last shipment of

**ARECA LUTESCENS SEED**

which we offer, while unsold, at \$6.00 per 1000 seeds.

**J. M. THORBURN & CO.**

15 JOHN STREET, NEW YORK.  
Established 1862.

When Writing Mention Florists' Exchange

**SEEDS**

KENTUCKY BLUE GRASS (POA PRATENSIS).

CHAS. E. PRUNTY,

MAIN AND MARKET, SAINT LOUIS.

When Writing Mention Florists' Exchange



**FREESIAS! FREESIAS! FREESIAS!**

Callias, Callias, Callias Ethiopica, and Improved Little Gem.

We also offer until sold

**FRESH SEED CORYPHA AUSTRALIS, FRESH SEED SEAFORTHIA ELEGANS,**

Delivered at \$2.75 per 1000 to clear stock. Cash with order. 100 seeds for 50 cts.

**SEND FOR OUR NEW PRICE LIST.**

Send us list of wants and will estimate for you. Prices given on all Japan, California, French and Dutch Bulbs, Seeds, Plants and anything pertaining to the Florist's line.  
**Address, H. H. BERGER & CO., 220 Broadway, New York.**

Branch Office, San Francisco, Cal. (Established 1878.)

When Writing Mention Florists' Exchange

**CYCLAMEN PERSICUM GIGANTEUM.**

**NEW CROP SEED JUST RECEIVED.**

Our supply of this important

Florist flower is grown especially

for you by the most successful cultivator

in Europe. Each variety is

grown in a separate house insuring

purity of color. We can supply in

the following distinct colors.

	Per Pkt.	Per 1000
Pure Snow White	1.25	\$10.00
White with Carmine Eye	1.25	10.00
Deep Rose Color	1.25	10.00
Bright Blood Red	1.25	10.00
Choice Mixed Colors	1.00	8.00

250 Seeds or over at 1000 rate.

**NEW CROPS OF PANSY, PRIMULA, &c., EXPECTED DAILY.**

Send for our Wholesale Price List of Seeds, Bulbs, Plants, &c.

**HENRY A. DREER, 714 Chestnut St., Philadelphia, Pa.**

When Writing Mention Florists' Exchange



## Sweet Pea Novelties of 1897.

The science and art of the culture and nomenclature of the sweet pea has become a well-established profession, and the many men of well-equipped faculties make a study of this popular flower, to which, however, and others in the extent of its culture, and the results of it has upon the affections of the world.

It is customary for the homes making a specialty of the flower to have on hand a half-dozen or so of novelties, so called, to the public, many of which have no real merit, some are merely changes of coloring on the old, and nearly forgotten varieties. It is the province of the sweet pea writer to test these new novelties, and give their points, good or bad, to those who depend upon them for expertness.

I give below my tests of some of the novelties of this year, as well as representative work of the specialists.

**EKKFORD'S 1897 SET.** (Eng. introduction.)

**QUEEN VICTORIA.**—This is decidedly the best of the set. It is a fine set, and is "soft yellow, subtly overlaid with faint purple," but no American specialist, so far as I know, has ever mentioned it. My "Chromometer" shows it to be a light lemon self. My test of it shows it to be a Form, hooded; size, medium; color, light lemon self; substance, fair; stem, long and slender. It has a good habit, and is the edge of the standard, which, nevertheless, apparently, from its size, it is the nearest approach that I have seen to which all standard strains strive—a real yellow sweet pea.

**THOMAS EDWARD DE VANK.**—There is nothing particularly unusual about this sweet pea, and it is surprising that Eckford should have introduced it. It proves to be a fine set. Eckford describes it as "soft yellow, subtly overlaid with faint purple," but no American specialist, so far as I know, has ever mentioned it. My "Chromometer" shows it to be a light lemon self. My test of it shows it to be a Form, hooded; size, medium; color, light lemon self; substance, fair; stem, long and slender. It has a good habit, and is the edge of the standard, which, nevertheless, apparently, from its size, it is the nearest approach that I have seen to which all standard strains strive—a real yellow sweet pea.

**LADY NINA BALFOUR.**—This sweet pea has had the poorest average of germination of any Eckford ever introduced. I have had only forty per cent, and yet neither of them is likely to bloom. Others report the same difficulty.

**PRINCE OF SALOPIN.**—This is a good sweet pea, and a new shade. Eckford describes it "as a glowing orange, suffused with purple," but I find it to be a good set. It is very attractive, and will be welcomed as an acquisition. It tests: Form, expanded; size, large; color, standard shrimp, veined salmon with salmon-pink. It has the real soft finish, substance good; stem, long and slender.

**THURMIN.**—This has the most perfect form of any of the set. It is a giant, and without a flaw as to anything but coloring, which contains nothing new except as to arrangement. This will be a good flower to cross on, as the size and color are already there. It tests: Form, expanded; perfect type; size, giant; color, dark purple, suffused with blue; stem, long and slender. It has a good habit, and is the edge of the standard, which, nevertheless, apparently, from its size, it is the nearest approach that I have seen to which all standard strains strive—a real yellow sweet pea.

**SALOPIN.**—From the advance description, we were led to believe that this would be the greatest acquisition to the list of the past year, and we were never so badly disappointed. It throws over 50 per cent. of the obsolete *Butterfly* type, and I find it to be a good set. The color is not at all what Eckford described. One of the most desired colors of the set (a deep crimson, and we were assured we had it in Salopina). It tests: Form, hooded; size, medium; deep crimson, tinged with millberry-red; suffused with rich orange-scarlet. Now, none of these are to be found in the set. It is an expanded; size, giant; color, dark cherry self; substance, good; stem, short and stout. The writer has been about Salopina, and it is generally come back to a stem, and the first to open thence before the other buds are ready to open. It may be the third is out. It is a hard matter to get a perfect spray.

**SALOPIN.**—This has the same perfection of form as the other, but the large expanded form, being hooded. It tests: Form, hooded; size, medium; color, dark purple, suffused with blue; stem, long and slender. It has a good habit, and is the edge of the standard, which, nevertheless, apparently, from its size, it is the nearest approach that I have seen to which all standard strains strive—a real yellow sweet pea.

Taken all in all, the above set is a disappointment as not being up to Eckford's standard.

**EKKFORD'S 1897 SET.** (American Trade.)

This is one of the finest Eckford ever introduced.

**COQUETTE.**—This is the same objection as to form as *Shiloh*, but comes a larger percent. True. It has a shade of true yellow in it, which, if it could be "soiled," would be what we all desire. It tests: Form, expanded, with rolled edge; size, large; color, light yellow, suffused pinkish purple; substance, fine; stem, long and stout; flowers all face one way.

**LAVELY.**—Is just what it is name indicates, a most lovely flower, its only fault being its liability to bleach whiter, if not promptly cut. None of the pinks has come so beautiful appearance on the vine. It tests: Form, finest hooded; size, giant; color, medium pink center, with wide margin of light pink; substance, fine; stem, very long.

**MARE.**—There seems to be a diversity of opinion in regard to this sweet pea. Of its form Eckford says, "a fine large, fully-expanded bold flower of the most beautiful form." Hutchins says of its form, "full size and hooded shape." I

remember the 1897 set.

While all sweet pea lovers will ever revere the name of Henry Eckford, as the pioneer in its advancement, yet justice compels one to say that the American hybridizers have caught up with, and passed him in the art of producing new and beautiful sweet peas. Of course they adopted his methods, but with the usual Yankee ingenuity they have improved upon them. Sweet peas equal to the first two named below were never put out by Eckford.

**ARROSA.**—This is the most beautiful sweet pea of the year, and a new shade. We have had many so-called medium shades in sweet peas, but *Arrosa* is the first one that has the true shade. It is of the highest grandiflora type, and is destined to have a permanent place on the list; no variety bunches as well as *Arrosa*. It tests: Form, finest expanded; size, giant; color, dark salmon, striped on white; substance, fine; stem, long and stout.

**AMERICAN SEEDLINGS.**—This is the most remarkable strain of sweet pea ever produced, both from the manner of their production and being all the results of hybridizing, and not the selection of the "sports." These seedlings run the gamut

der of the expanded form, in form presenting contrast to others of the same shade, all of which are hooded. It tests: Form, expanded; size, large; color, as above; substance, fine; stem, long and stout.

**GOLDEN GATE.**—This is noted for the peculiar shape of its wings as well as its finely coloring. The wings, when fully stand parallel, like gate-posts, suggesting the name. It is very floriferous. It tests: Form, zigzag; size, large; color, standard light cherry violet; wings, juncos; substance, good; stem, long and slender.

**Maid of Honor.**—This is a selection and improvement on the old *Batterfly*, the form of which is now considered obsolete. It comes very true to type, and will be one of the best *Batterfly* sweet peas for cut blossoms. It tests: Form, expanded; size, large; color, white ground, edged English violet, suffused rose violet; substance, good; stem, long and slender.

**UNNAMED CALIFORNIA SEEDLING.**—This is a most striking sweet pea, being the darkest of the so-called "mauve" color. It looks very much as though the originator was working for a self of this shade. The introducers offer a prize for the most appropriate name for it. It tests: Form, hooded; size, medium; co-

Plant of Pink Cupid Sweet Pea in 10-inch pot. Grown in California.

have found it to be hooded, with about 75 per cent. of the obsolete *Butterfly* form. Of its color there is equal diversity of opinion. Eckford says "bright, very crimson, depending with age." Hutchins says "intense crimson-scarlet." As there are no crimson or scarlet sweet peas I have seen, I am inclined to believe the *Chromometer* shows it to be a dark cherry self. It tests: Form, hooded; size, large; color, dark cherry self; substance, good; stem, long and slender.

**COUNTESS OF SHERWATBY.**—This sweet pea should never have been introduced by such a specialist as Eckford. It is old type, and is of color, and has not an attractive point about it, excepting its growing slender stems. It is shown as washed-out "Little Dorrit." It tests: Form, expanded old type, with notch at top; size, medium; color, standard white, suffused light rose; wings, white; stem, long and slender; fair substance.

**PRIMA DONNA.**—This is all that Eckford claims for it except that it comes of two shades, one resembling *Crown Jewel*. The typical flower throws most of its buds in the one way. It is of the highest type, and worthy of its introduction and will have a long run as a fashionable test flower. It tests: Form, size, large; color, medium pink self; substance, fine; stem, long and stout.

**ROYAL ROSE.**—This is a most beautiful and valuable addition to the list. The introduction of any lower class sweet pea from Eckford's workshop, as showing what he can do. It attracts the attention of every one, and with me was the largest sweet pea. It tests: Form, expanded; size, medium; color, standard dark violet-rose; wings, light rose, suffused with white; substance, fine; stem, long and slender.

of colors and shades, excepting those known as dark. In them we have true oranges, and light yellow, a buff with pink edge, and a white-edged white, of grandiflora size and form, being a perfected *Butterfly*. Some are of expanded and some of hooded form of the finest types. They test: size, large; substance, fine; stem, long and slender.

**BRELLANT.**—While this sweet pea is not as large as *Salopin*, yet it is far superior to that in that it does not blacken in the sun. By this is not meant that if left to do on the stand it will not turn black, but that it will keep their color equally well, and fade together. It is somewhat irregular in outline, some of the blooms showing the peculiarities of *Odity*. I have not yet been able to locate a specimen from the old *Countess of Ruth* of which I had not blacken in the sun. By this is not meant that if left to do on the stand it will not turn black, but that it will keep their color equally well, and fade together. It is somewhat irregular in outline, some of the blooms showing the peculiarities of *Odity*. I have not yet been able to locate a specimen from the old *Countess of Ruth* of which I had not blacken in the sun.

**BREED'S NEW COUNTESS.**—This is an object lesson in the art of selection. It is a selection from the old *Countess of Ruth*, and is the most beautiful specimen on account of the standard showing a new shade of light blue. It is bred with the lavender associated with it. Some years ago a typical plant was selected from the *Batterfly* and crossed with the result one of the most beautiful sweet peas grown. It tests: Form, hooded; size, large; color, standard dark lavender, edged light lavender; wings, pearl lavender; substance, fine; stem, long and stout.

**CREOLE.**—This is a decided improvement, being a soft pink floss with light lavender on the wings. Being the only lavender

of white ground "finshed," juncos; violet, "blotched" crimson; some shades deeper on reverse; standard and wings edged pansy-violet.

**WALKER'S OREGON SEEDLING.**—These novelties sent me by Mr. S. T. Walker of Forest Grove, Oregon, who is coming into prominence as a hybridizer of sweet peas, are a fine set. They contain something new in sweet peas, and when selected up to the highest standard of the appropriate name for it. It tests: Form, hooded; size, medium; color, standard shrimp, veined salmon with salmon-pink. It has the real soft finish, substance good; stem, long and slender.

**PALL MAUVE STRIP.** (a sport from Dorothy Tennant.)—These two are very fine dark stripes, but require severe selection, as they are very much variable to call them self. I think that the lighter forms of both of them should be selected. They test: size, large; form, hooded; substance, good; stem, medium.

**SPORT FROM COUNTESS OF ABERDEEN (Sport from Dorothy Tennant's packet.)**—This is the finest of Walker's novelties, being a most unique shade of soft invisible blue showing deep in the blue set. I would not be surprised to know that Eckford has this in reserve. It does not fade in the sun. It tests: Form, size, large; color, pink; it tests: Form, hooded; size, large; color, as above; substance, fine; stem, long and slender. It is most choice in large bunches.

**SPORT FROM CAPTIVATION.**—*Striped Captivity* pink.—This is a most beautiful, but is of a lighter shade, being the striped form of light self from *Captivity*, which, from Mr. Walker's collection, is a very pleasing shade, but needs selecting

for uniformity of shade, dark or light. It tests: Form, expanded; size, large; color, white, streaked light; purple-helicoid substance, fine; stem, small (needs selection).

**—STRIPED PEARLINA (similar to Aurora).**—This is the same as Burpee's Aurora, but with an extra stripe. Edith Crown Jewel shows that he has also been after an orange stripe. Edith Crown Jewel tests the same as Aurora.

**SANDED PRINCE (sport from Princess of Wales) distinct from Gray Frink.**—The coloring is not very much lighter and more evenly spread. It has a distinctly rounded appearance, and tests otherwise the same as Gray Frink.

**PURPLE STRIPE (Emily Eckford × Mrs. Joseph Chamberlain).**

As both fine sweet peas, but not yet selected to a type. All both of value when set.

**DAWK SPORT FROM CATHERINE TRACY.**—This is a hooded form of this walk-in sweet pea, but is of a darker shade than its parent. It tests: Form, hooded; color, white; substance, fine; stem, round, faintly spotted white on margin of standard.

**—PINK FLAMBEAU.**—Is a sweet pea with a future. It has attracted unlimited attention in my garden this season. It is a sport from a seedling of Gray Frink. It will set best when introduced to the public. It tests: Form, best hooded; size, large; color, white; substance, fine; stem, blood, faint on front, and dark on rear of standard and wings—the so-called "lavender" coloration; flag, blue; stem, long and slender.

**MEDIUM FLAMBEAU; LIGHT FLAMBEAU.**—This is a hooded form of this walk-in sweet pea of poorer quality. Will never be so attractive. Needs selection to a set type.

**BLANCHE BURPEE, THREE-TO-STEM FINE-LEAFED PEAS; ROYAL BLUE; CROWN AND THIRD CROP FLOWERS.**—These selections of this white sweet pea are of the very best quality. They excel in that some of the flowers of the latter are possibly slightly larger than those of the former. This is the finest strain of Blanche Burpee that I have ever seen, being certainly the best of the lot. The flowers averaged an inch and three-quarters across the standard, many being seen to be an inch larger. They are mammoth, and show the possibility of this variety in the hands of a skillful grower. It is a sport from the best of this variety two and a half inches across—if Walker keeps it at all.

**—LAVENDER (sport from losing its color).**—This is a fine selection of Venus, which comes mostly in rows, but I have not found any loss of color in the Venus furnished me.

**AURORA (four to a stem).**—Is identical with Burpee's Aurora, and brought me new.

**LIGHT GALETY.**—Is what its name indicates and tests same as Galety.

**—COLUMBIAN (white and shades, Emily Eckford × Mrs. Joseph Chamberlain) shows right fine sweet peas, of which I have seen a large number of a large range of shades. Is fine, but not need selecting to type. Being the progeny of a sport, it is not so uniform as the "break" hybridizing. Three of the best shades are: Dark Princess of Wales; dark sea, and lavender. The last is a dark red-helicoid, faintly streaked on white. All show high foliage.**

**LYONS'S 1897 NOVELTIES.**—The first of these to associate with this variety. My first two plantings failed to germinate, and the third has not yet come up. My opinion is that I have no opinion of this for another year.

**CALIFORNIA.**—Is a hooded sweet pea of variety first to be selected to a type, with Katherine Tracy, but it is not. It tests: Form, hooded; size, large; color, soft pink; substance, fine; stem, creamy pink—a very soft shade; substance, fine; stem, long and slender.

**—PINK PEARLINA (sport from ALIS, —Is a most unique flower. The foliage as well as the color and form are entirely new. It has the color of white with pink tests: Form, expanded; size, giant; color, a blue Princess of Wales; substance, good; stem, moderate.**

**STRIPED CELESTIAL.**—Is a high-grade flower, but is only a season too late, and almost identical with the latter. The color fades as the flower ripens, which I am sure does not. It tests: Form, expanded; size, large; color, striped English violet; substance, good; stem, medium stocky.

**RED RIDING HOOD.**—This variety grows upon me. Like some other good things one must acquire a taste for them. It has been universally admired in my garden this year, and it is an exponent of the highest type of the art of selection. It is a matter of judgment as to how to select a color or shade, but to select up a freak of nature, is genius, pure and simple. The Red Riding Hood is probably the typical stem, long and slender, but strong. The wings are the deepest red I have ever seen. It is a transparent crimson laced light rose. Could this be selected to a pure white standard? It is a matter of time. It should have a place in every collection.

**EMILY LYONS.**—I had an unusual experience with this variety. It came with four vines of it. While my rows were about four inches high, I noticed that these four vines were shooting up at an amazing pace. I made careful notes of their progress and they came into bloom in sixty-three days from planting the seed. There is nothing in the history of this variety to indicate extreme rapidity, and it has mystified me greatly, and opened up a new problem, whether a variety of this sport is possible. I have obtained by purchase from Mr. Hutchins, I have saved seed from these four vines, and the lowest seedling through test for earliness next season, and do not desire to be quoted as endorsing the claims of the grower. I have seen Lynch, until I have made further tests, as there is too much at stake for a misdeed. The four vines were ready earlier than E. E. B. Ferry, planted at the same time.

The following are the things in my garden, which I am not permitted to speak by the owners, but there are some fine surprises in an individual grower's sweet pea, if the ends of the hybridizers meet their expectations, as shown by their own culture. The lowest seedling was a surprise to two myself.—SAMUEL A. HAMILTON, Sweet Pea Expert, Roaring Spring.

### Burpee's Sweet Pea Tests.

There can now here be found, we think, a better indication of the increasing popularity of the sweet pea, as well as of the swelling list of varieties of the flower, than in the following list. L. H. Burpee & Co., of Fordhook Farm, Doylestown, Pa., which every variety of the sweet pea is known to the firm, is fairly tested on its merits. Some idea of the value of the low-growing form named and unnamed, may be formed, when we state that this year 373 separate varieties of the low-growing form of last year. Of the former there are 348 named varieties and 25 of mixed kinds. The system adopted by the firm is to grow samples of every grower's seed in rows of about ten feet each, along the side of the firm itself, thus a fair and complete comparison of the best source of great satisfaction to note that the plants from the Burpee-grown seed are the finest and most uniform, and in equal in most cases, and in some instances superior, to the English-grown seed. It is a fact that it takes a long time that it requires two years to get anything like good results from foreign seed. There were also observed, unfortunately, cases of mixing and some substitution from the English-grown seed, which was much deplored.

A noticeable feature observable in the trials was the tendency of Eckford to run on one type, particularly the pink type, which was the result of the seed coming from that source are evidently now secured by selection, being also in some cases, the result of the fact that those on which they were considered improvements as to be hardly distinct from the parent. It is a fact that this advance in color, as regards foreign sweet peas is probably obtained by Laxseed, and is secured at the expense of form and size.

The largest number of "breaks" has certainly fallen to the lot of the American hybridist, as seen in the distinctiveness of the color and form of the plants. We were glad to note that Messrs. Burpee were working to get a race of peas, with the pink type, and the result of the result they have obtained, and the result they bear four or more flowers on a stem, to a degree of success as to warrant its ultimate success, through further effort.

The recent hot weather has been most severe on the vines, which were showing its effects. Yet a great many of the flowers and buds were saved, and well.

It would be impossible, as well as unpractical to her comment on every variety grown by the firm; particulars regarding them will be found in the "Standard" for 1897. There were, however, some especially worthy of notice. The most attractive of the most attractive is Brilliant (Burpee), the luster of which the hot summer sun had not lessened on a stem. The color of the standard and wings is a bright crimson-scarlet, remained unchanged, while that of Igonia, Firefly and the more numerous varieties were very much affected. Present appearances would tend to justify the claim that Brilliant is "the best sweet pea yet to date."

Another very striking variety is Aurora (Burpee), a very large flower, with three to four blossoms on a stem. The color of the standard and wings is a white ground, flaked and striped with bright orange-scarlet.

—Crocus, a pretty flower, with light pinkish lavender standard, and wings of pure white ground, flaked with bright floriferous. It is a chance seedling from Lemna Queen.

—Crocus (Burpee) comes absolutely true; it is an improvement on the standard of color, being found that such a variety of this color, which is difficult to detect from the effectiveness of the color. The color is a very large and very large and very large lavender throughout.

—Crocus (Burpee) comes absolutely true; it is an improvement on the standard of color, being found that such a variety of this color, which is difficult to detect from the effectiveness of the color. The color is a very large and very large and very large lavender throughout.

—Crocus (Burpee) comes absolutely true; it is an improvement on the standard of color, being found that such a variety of this color, which is difficult to detect from the effectiveness of the color. The color is a very large and very large and very large lavender throughout.

—Crocus (Burpee) comes absolutely true; it is an improvement on the standard of color, being found that such a variety of this color, which is difficult to detect from the effectiveness of the color. The color is a very large and very large and very large lavender throughout.

—Crocus (Burpee) comes absolutely true; it is an improvement on the standard of color, being found that such a variety of this color, which is difficult to detect from the effectiveness of the color. The color is a very large and very large and very large lavender throughout.

—Crocus (Burpee) comes absolutely true; it is an improvement on the standard of color, being found that such a variety of this color, which is difficult to detect from the effectiveness of the color. The color is a very large and very large and very large lavender throughout.

—Crocus (Burpee) comes absolutely true; it is an improvement on the standard of color, being found that such a variety of this color, which is difficult to detect from the effectiveness of the color. The color is a very large and very large and very large lavender throughout.

—Crocus (Burpee) comes absolutely true; it is an improvement on the standard of color, being found that such a variety of this color, which is difficult to detect from the effectiveness of the color. The color is a very large and very large and very large lavender throughout.

—Crocus (Burpee) comes absolutely true; it is an improvement on the standard of color, being found that such a variety of this color, which is difficult to detect from the effectiveness of the color. The color is a very large and very large and very large lavender throughout.

—Crocus (Burpee) comes absolutely true; it is an improvement on the standard of color, being found that such a variety of this color, which is difficult to detect from the effectiveness of the color. The color is a very large and very large and very large lavender throughout.

—Crocus (Burpee) comes absolutely true; it is an improvement on the standard of color, being found that such a variety of this color, which is difficult to detect from the effectiveness of the color. The color is a very large and very large and very large lavender throughout.

—Crocus (Burpee) comes absolutely true; it is an improvement on the standard of color, being found that such a variety of this color, which is difficult to detect from the effectiveness of the color. The color is a very large and very large and very large lavender throughout.

white; Emily Henderson, the earliest flowering white.

—Extra Early Blanche Ferry; also white, but very early.

Dark varieties.—Stanley and Captivation.

—Brilliant and Mars.

—Lavender.—New Testament.

—Pink.—Columbia.

—Pink.—Rima Donna.

—Pink.—Rima Donna.

—Pink.—Rima Donna.

—Pink.—Rima Donna.

—Pink.—Rima Donna.

—Pink.—Rima Donna.

—Pink.—Rima Donna.

—Pink.—Rima Donna.

—Pink.—Rima Donna.

—Pink.—Rima Donna.

—Pink.—Rima Donna.

—Pink.—Rima Donna.

—Pink.—Rima Donna.

—Pink.—Rima Donna.

—Pink.—Rima Donna.

—Pink.—Rima Donna.

—Pink.—Rima Donna.

—Pink.—Rima Donna.

—Pink.—Rima Donna.

—Pink.—Rima Donna.

—Pink.—Rima Donna.

—Pink.—Rima Donna.

—Pink.—Rima Donna.

—Pink.—Rima Donna.

—Pink.—Rima Donna.

—Pink.—Rima Donna.

—Pink.—Rima Donna.

—Pink.—Rima Donna.

—Pink.—Rima Donna.

—Pink.—Rima Donna.

## SEE WHAT WE CAN DO FOR YOU.

Points and information from seedmen, and all interested in this column, solicited. Address communications to THE FLOWERS' EXCHANGE, P. O. Box 1697, New York.

—Crocus (Burpee) comes absolutely true; it is an improvement on the standard of color, being found that such a variety of this color, which is difficult to detect from the effectiveness of the color. The color is a very large and very large and very large lavender throughout.

—Crocus (Burpee) comes absolutely true; it is an improvement on the standard of color, being found that such a variety of this color, which is difficult to detect from the effectiveness of the color. The color is a very large and very large and very large lavender throughout.

—Crocus (Burpee) comes absolutely true; it is an improvement on the standard of color, being found that such a variety of this color, which is difficult to detect from the effectiveness of the color. The color is a very large and very large and very large lavender throughout.

—Crocus (Burpee) comes absolutely true; it is an improvement on the standard of color, being found that such a variety of this color, which is difficult to detect from the effectiveness of the color. The color is a very large and very large and very large lavender throughout.

—Crocus (Burpee) comes absolutely true; it is an improvement on the standard of color, being found that such a variety of this color, which is difficult to detect from the effectiveness of the color. The color is a very large and very large and very large lavender throughout.

—Crocus (Burpee) comes absolutely true; it is an improvement on the standard of color, being found that such a variety of this color, which is difficult to detect from the effectiveness of the color. The color is a very large and very large and very large lavender throughout.

—Crocus (Burpee) comes absolutely true; it is an improvement on the standard of color, being found that such a variety of this color, which is difficult to detect from the effectiveness of the color. The color is a very large and very large and very large lavender throughout.

—Crocus (Burpee) comes absolutely true; it is an improvement on the standard of color, being found that such a variety of this color, which is difficult to detect from the effectiveness of the color. The color is a very large and very large and very large lavender throughout.

—Crocus (Burpee) comes absolutely true; it is an improvement on the standard of color, being found that such a variety of this color, which is difficult to detect from the effectiveness of the color. The color is a very large and very large and very large lavender throughout.

—Crocus (Burpee) comes absolutely true; it is an improvement on the standard of color, being found that such a variety of this color, which is difficult to detect from the effectiveness of the color. The color is a very large and very large and very large lavender throughout.

—Crocus (Burpee) comes absolutely true; it is an improvement on the standard of color, being found that such a variety of this color, which is difficult to detect from the effectiveness of the color. The color is a very large and very large and very large lavender throughout.

—Crocus (Burpee) comes absolutely true; it is an improvement on the standard of color, being found that such a variety of this color, which is difficult to detect from the effectiveness of the color. The color is a very large and very large and very large lavender throughout.

—Crocus (Burpee) comes absolutely true; it is an improvement on the standard of color, being found that such a variety of this color, which is difficult to detect from the effectiveness of the color. The color is a very large and very large and very large lavender throughout.

—Crocus (Burpee) comes absolutely true; it is an improvement on the standard of color, being found that such a variety of this color, which is difficult to detect from the effectiveness of the color. The color is a very large and very large and very large lavender throughout.

—Crocus (Burpee) comes absolutely true; it is an improvement on the standard of color, being found that such a variety of this color, which is difficult to detect from the effectiveness of the color. The color is a very large and very large and very large lavender throughout.

—Crocus (Burpee) comes absolutely true; it is an improvement on the standard of color, being found that such a variety of this color, which is difficult to detect from the effectiveness of the color. The color is a very large and very large and very large lavender throughout.

be a failure—we fear a total one. Every precaution is being taken to save the crop. The threshers are ready, and the crop will be run through the machines as soon as it will admit of it. The crop, two weeks ago, gave promise of being the heaviest ever grown on Long Island—possibly on the whole country.

E. S. Harden, government purchasing agent for the seed division of the Department of Agriculture, has resigned his position, and at present is in his home in Ann Arbor, Mich. He has been succeeded by Captain J. H. Middleton, a former member of the department.

The many friends and customers in this country of Messrs. Vilmorin, Andreux & Co., Paris, will be glad to learn that the health of M. Jules Foch is so far improved that he is again able to join the firm. Mr. Foch has visited this country and Canada several times, and is held in kind remembrance by all who made his acquaintance both here and abroad.

M. Philippe de Vilmorin, the oldest son of M. Henri de Vilmorin, has also joined the firm as an active partner. This gentleman will be remembered from the years 1890 and 1893 when he visited this country with his distinguished father. Since that period he has been traveling extensively through various countries and has been actively engaged in horticultural literature. One well-known work of which he is the author is "Flowers in Pots."

European Notes.

Washer (Continued from beneficial to crops.

The changes which are continually taking place in our weather are, on the whole, of a beneficial character. Leaf and root diseases are more dreaded than any other crops. The average of the former is very short all over Europe, and as the plants are not doing so well as usual, there is every probability of a complete clearance of the stocks on hand at the end of the present month, so that the average quantity was transplanted, but the ground was so cold, and the plants the time that for several weeks the plants remained almost stationary. Where the plants may have been transplanted, and the growers gave the plants the necessary attention, the improvement being referred to is not remarkable, and the plants which have hardly been so full of healthy bloom for many years past. Where, however, the plants have not been so well cared for, the loss sustained by the sickly and lost heart under the very discouraging conditions, the plants are striving to escape the soil, and are being killed by the whole array of thistles and such like trash.

Dise Results of War.

It is no doubt that our growers are terribly discouraged, and it is not to be wondered at when the bad crops, low prices, and uncertain trade are taken into consideration. Even where everything has looked well hitherto we have no security from the ravages of the thistle-demons which appear to select the best crops for the display of their powers. The present week has been a terrible experience for France. At least 100 hills have been lost, and the destruction of property and crops of all kinds has been immense. The traces of the terrible storm in England will remain for several months, and it is to be feared that the individual growers that the aid of the government has been applied for to save the growers from absolute ruin.

The Olen Crop.

Turning once again to our crops, the condition of the onion is causing us some anxiety, and it is being put on every side. The young bulbs for 1898 are also badly diseased and it looks as if the crop will be a failure. A fair clearance of the heavy stocks on hand. At the same time, the disease which is being so largely appreciated at what is doubtless their true value. This of this more about the onion next week. EUROPEAN NOTES.

THE EXPERIMENT STATIONS.

FORMALIN FOR PREVENTION OF POTATO SCAB—Bulletin 66, Purdue University Agricultural Experiment Station, Lafayette, Ind. Formalin is a non-poisonous, non-corrosive liquid, and it has been found that it will free seed potatoes of scab germs by an immersion in a solution of the liquid. The strength of a 5% solution. The recipe for its use is to add "eight fluid ounces (about one quart) of formalin to each gallon of water, and soak the seed tubers in it for two or three days. The solution may be used more than once." The bulletin contains full instructions for its use. It has been made with formalin, together with a reference to the literature on its germicidal, disinfectant and preservative properties.

**ANTHEMUMS.**  
With the change in the weather has come a marked improvement in the plants, and from now on they will show quicker growth. My staking will have been finished by the time this is in the hands of my readers, and I only say a little attention to my seedlings, which stand at the present time in 4-inch staks. I find, by experience, that the best plan to handle seedlings is to keep them at present 6-inch pots, and plenty of room. I have pinched the leaders out so as to make the plants more compact, and they will soon give indications as to whether they will make bushy plants fit for pot culture, or plants only fit for cut flowers. The first mentioned are not very plentiful, the great percentage will be for cut flowers only, provided that foliage, flowers and constitution show good enough for a second year's trial.

I may here remark to those florists who are raising seedlings for the first time, that they need not expect to get 75 bouquets out of 100 plants. This fact is, some years they may get none, while in good years, probably from one to five bouquets for another year's trial may be obtained. Right here where the advantage of having them in pots is shown, the plants may be cut and dumped out at once, in the case where the plants have been cleaned up by the plants get in bloom. It will, of course, be necessary to pot a good many plants in each pot in the season, which will be enough for the first year's work.

All plants that show a poor constitution, bad foliage and weak stems are not potted beyond 4-inch pots, and then thrown out. We cannot afford to spend our time with them.

THO. ROCK.

Kingston, N. Y.

Charles P. Gulick is building two new houses, and putting in a water system.

**HILFINGER BROS. STANDARD FLOWER POTS.**  
We manufacture a full line of Standard Flower Pots, Cylinders, glass and unglazed. Lawn Pans, and Flower Vases. Wash these carefully, and keep them in a cool place. Large Vases, 12 1/2 inch, \$1.00 each; 14 1/2 inch, \$1.50 each. Terra Houses, 12 inch high, 50c for each; 20 1/2 inch pots, at \$1.00 per 100; 24 inch pots, at \$1.50 per 100. Send for Price List for other sizes before ordering.

HILFINGER BROS., Fort Edward, N. Y., or at AMSTUTZ, ROLKER & SON, 139 & 138 W. 24th St., N. Y. City. When Writing Mention Florists' Exchange.

**X PANSY SEED X MAMMOTH SUNBEAM STRAIN.**  
A grand collection of stam flower varieties, including the best of the present season, fully selected and exceedingly fine. My customers will find that the best of the present season can get a quantity so better evidence of appreciation. Trade the best of the present season for \$1.00. A pkt. of the rich Rainbow Pansy added to the lot for \$1.50.

JOHN F. RUPP, Shramstown, Pa. When Writing Mention Florists' Exchange.

**PANSY SEED... TRENDROSENS.**  
7000 First Prize colored colors, \$2.50 per 100. Cash in order.

JOS. H. CUNNINGHAM, DELAWARE, OHIO. When Writing Mention Florists' Exchange.

**Pansies Worth Raising.**  
NEW CROP SEED. Exceptionally well developed, can be had up in packages containing about 2000 seeds for \$1.00 per package. CASH WITH ORDER. G. Soltan & Co., 199 Grant Jersey City, N. J. When Writing Mention Florists' Exchange.

**FRESA REFRACTA ALBA!**  
QUARANTEED PURE WHITE.  
Bulls 3/4 to 3/8 (each about 100) \$2.00 per 1000. Bulls 3/4 and up thick diam. \$7.50 per 1000. Cosh with order from unknown parties. Prices on all other bulls and plants by correspondence. Write for Price List. F. W. O. SCHMITZ, Jersey City, N. J. When Writing Mention Florists' Exchange.

**ALLEN'S DEFIANCE MIGNONETTE.**  
New Crop, Growing Outside and Looking Fine, will be Ready August 1st. This stock is all grown from special selected plants and is sure to prove good under proper treatment. \$1.00 per set, 50 cts. per packet. Still a little of the original crop left which will germinate about 50 per cent., at \$1.00 per pkt. CHARLES H. ALLEN, FLORAL PARK, N. Y. When Writing Mention Florists' Exchange.

**HERR'S PANSIES ARE THE BEST.**  
Seed, 1 1/2 pints per 1/4 ounce. Plants, \$5.00 per 1000; 75c. per 100; 2500 for \$10.00. ALBERT M. HERR, LANCASTER, PA. When Writing Mention Florists' Exchange.

**...PANSY SEED...**  
If you want the finest large and fragrant Pansy flowers try Woodbury's noted seeds. A FINE ASSORTED COLLECTION, 50c. Grand German and Dutch Bowered French strains, blended, or either separate, 2000 seeds, 50c.; 1/2 doz., \$1.00; 1 doz., \$3.00; 4 doz., \$11.00. DAVID B. WOODBURY, Pansy Specialist, SOUTH PARIS, MAINE. When Writing Mention Florists' Exchange.

**PANSIES.**  
Bugnet, trade pkt. 25c.; do. 40c. Giant Tricolor, yellow, trade pkt. 25c.; do. 40c. Giant Tricolor, mixed, 25c.; do. 40c. Cassini, trade pkt. 25c.; do. 40c. Prunella chlorina, mixed, 25c. per trade pkt. Asterina, dwarf mixed, 25c. per trade pkt. Cassini, trade 4 to 6 pots \$2.00; do. 4 to 6 doz. 10.00; do. 10 to 12 doz. 15.00. Trade in advance. H. BAUDIEU, Belmont Ave., WOODHAVEN, N. Y. When Writing Mention Florists' Exchange.

**ROEMER'S SUPERB PRIZE PANSIES.**  
The finest strain of Pansies in the World. Introducer and Grower of all the leading Novelties. All Best Award. International Exhibition, London, 1897. Cash free on application. FRED. ROEMER, Seed Grower, Quedlinburg, Germany. When Writing Mention Florists' Exchange.

**FORGING BUBBS**  
Special Import Price List Ready.

**CANNAS.**  
BURBANK - 75c. ITALIA - - - 40c. VEL. CROZY - \$1.50 AUSTRIA - - 20c. All Standard and New at Market Price.

**VAUGHAN'S SEED STORE, NEW YORK, CHICAGO, 14 Barclay St., 84-86 Randolph St. When Writing Mention Florists' Exchange.**

**Prize-Winning PANSIES.**  
AN UNPRECEDENTED RECORD.

23 First Prizes, Certificate of Merit, 2 Diplomas, and highest mention everywhere. If you want the Very Best Dahlias that bloom, send for our 1897 descriptive trade list now ready. Address W. P. PEACOCK, Dahlia Specialist, ATCO, N. J. When Writing Mention Florists' Exchange.

**VAUTIER'S MAMMOTH PANSY.**  
New or seed now ready. This is the largest and most Pansy ever offered. Vautier has been over 20 years producing this strain. We have obtained plants from all parts of the U. S. and have the best seed. Trade pkt. \$1.00. 500 seeds \$1.00. H. G. FAUST & Co., 614 & 66 N. Front St., Lancaster, Pa. NEW CROP SEED NOW READY.

**ZIRNGIBEL'S STANDARD PANSIES.**  
Silver Medal in Boston and First Prizes every where. "These jewels of velvet and gold."—Boston Transcript.

**GIANT MARSH AND GIANT FANCY STRAINS,** in trade pkts., at \$1 each. Printed directions with every package. DENYS ZIRNGIBEL, Needham, Mass.

**PANSIES. SEED + SEED**  
NEW CROP SEED NOW READY. ROEMER'S SUPERB PRIZE PANSIES.

This strain includes all the leading novelties of our time, Cassini, Bugnet and Parisiana mixed. One of the largest flowering in any variety known as to render a description unnecessary. Trade pkt. \$1.00. 500 seeds \$1.00. White, yellow and black in separate colors. \$1.00 per packet. Plant ready September 15th. Cosh with order. PETER BROWN, Wholesale Pansy Grower, LANCASTER, PA. When Writing Mention Florists' Exchange.

**JENNINGS' STRAIN**  
The finest American grown Pansy seed; new crop now ready, saved from the very best selected plants, all large flowering in great variety seed most beautiful colors; without single seed being lost in the seed lot. The following complimentary letter is of my own received: "I have received a packet of your Pansy, N. Y. June 30th, '97. My wife and I have never seen the like. The seedlings are grand. Send me one of your best mixed as soon as you are ready." WILLIAM SCOTT, 727 1/2 St. Louis, Mo.

**PANSIES**  
E. B. JENNINGS, Lock Box Southport, Conn. GROWER OF THE FINEST PANSIES. When Writing Mention Florists' Exchange.

# SOCIETY OF American Florists

## THIRTEENTH ANNUAL CONVENTION

Exhibition of Requisites for and  
Products of the Greenhouse  
and Garden.

WILL BE HELD AT  
Music Hall, Providence, R. I.

August 17, 18, 19 and 20, 1897.

A notable event comprising three days of social and business intercourse, instructive lectures, papers and discussions at the capital city of Rhode Island and one day of sight-seeing and entertainment at America's most famous watering place, beautiful Newport by the sea.

### Officers of the Society of American Florists.

President, ADAM GRAHAM, Cleveland, Ohio.  
Vice-President, FARQUHAR MACRAE, Providence, R. I.  
Secretary, W. M. HASON, 67 Bromfield St., Boston, Mass.  
Treasurer, H. B. STEWART, Oil City, Pa.

### Executive Committee.

One Year.  
JACKSON DAWSON, Jamaica Plain, Mass.  
GROVE P. RAWSON, Elmira, N. Y.  
J. F. COWELL, Buffalo, N. Y.

### Two Years.

W. K. HARRIS, Philadelphia, Pa.  
J. G. ESTLER, Saddle River, N. J.  
W. N. KIDD, Mt. Greenwood, Ill.

### Three Years.

ELMER D. SMITH, Adrian, Mich.  
W. F. GUDE, Washington, D. C.  
J. CHAS. McCULLOUGH, Cincinnati, Ohio.  
Superintendent of Trade Exhibition, WM. E. COOPER, 133 Bruce ave., Providence, R. I.

### Nomenclature Committee.

Prof. WM. TALLEYS, Botanic Garden, St. Louis, Mo.; Chairman; Robert Craig, E. G. Hill, Elmer D. Smith, Robert George, Wm. K. Smith, Thos. Gunson, Fred. Dornier, A. M. Here, Edwin Lonsdale, E. A. Wood, J. F. Gault.

### Officers and Committees of the Florists and Gardeners' Club of Rhode Island.

President, FARQUHAR MACRAE.  
Vice-President, JAS. B. CANNING.  
Secretary, W. M. HASON, Providence Journal, Providence, R. I.  
Treasurer, ALEX. M. RENNIE.

### Executive Committee.

N. D. Pierce, Jr., Wm. B. Hazard, W. E. Chappell.

### General Committee on S. A. F. Convention.

Jas. B. Canning, Farquhar Macrae, Wm. E. Chappell, Thos. J. Johnston, Walter S. Nichol, J. J. Butler, Mrs. W. Appleton, Jr., M. M. Pollard, Mrs. W. L. Leland, Mrs. V. S. Nichol, Mrs. S. J. Butler, Mrs. L. L. Whitman, Miss Emily Setlow, Miss Kate Sweeney, Miss Kate Canning, Miss Agnes Devine, Miss Carter.

### Ladies' Auxiliary Committee.

Mrs. F. Macrae, Mrs. T. F. Johnston, Mrs. E. J. Johnston, Mrs. W. B. Hazard, Mrs. W. E. Chappell, Mrs. W. Appleton, Jr., M. M. Pollard, Mrs. W. L. Leland, Mrs. V. S. Nichol, Mrs. S. J. Butler, Mrs. L. L. Whitman, Miss Emily Setlow, Miss Kate Sweeney, Miss Kate Canning, Miss Agnes Devine, Miss Carter.

### Chairmen of Special Committees.

ENTERTAINMENT, MUSIC AND DECORATIONS—N. D. Pierce, Jr. & R. J. Exchange Place, Providence.  
FINANCE—A. M. Rennie, 6 Exchange Place, Providence.

HOTELS—Thos. J. Johnston, Weybosset Street, Providence.  
SPORTS AND GAMES—A. M. Rennie, 6 Exchange Place, Providence.

LECTURES—F. Macrae, Smith street, Providence.

### Officers and Convention Committee of the Florists, Gardeners and Associates' Club of Newport, R. I.

President, N. K. McMAHON.  
Treasurer, JOHN ALLAN.  
Secretary, J. J. BUTLER.

### Committee.

The Officers and the following named gentlemen:

Robert Christie, James McLeish, John Gibson, William J. Reynolds, James Hovey, Dr. Fred B. Bradley, Andrew Walkie, Robert Hunt, Herman Lippa, A. Mantoo Chase, Benj. E. Turner, Richard Gardner.

### Special Rates on All Railroads.

The low rate of one and one-third full fare for round trip has been granted by all of the transportation lines east of Chicago and St. Louis and it is expected that the railroad west of these points will also unite in this arrangement.

To obtain the benefit of the reduced rates, purchase the ticket at Providence, R. I., and at time of purchase request of the ticket agent a certificate regularly filed out.



In session. All persons joining the Society continue members and are liable for successive annual dues, unless they request a release.

### Hotels.

The following hotels in Providence are located near the Convention hall and will accommodate guests at prices indicated.

Narragansett Hotel, Weybosset street, 275 rooms, \$1.00 and upwards, American plan.

Hotel Dorrance, Westminster street, 120 rooms, \$1.00 to \$2.00, European plan, gentlemen only.

City Hotel, Weybosset street, 70 rooms, \$2.00 to \$2.50 American plan; 75 cts. and upwards, European plan.

Hotel Perrin, Washington street, 50 rooms, \$1.25 to \$2.00 American plan.

Parsons House, Weybosset street, 40 cts., \$1.00, American Plan; \$1.00, European.

Central Hotel, Canal street, 50 rooms, \$5.00 to \$10.00, European plan.

The Allen, Green street, a quiet family house \$10, American plan.

The Beckett, Pawtucket, R. I., 4 miles from Providence, Sit and electric cars every ten minutes. Will accommodate 30 to 40 guests American plan, at \$1.50 to \$2.00 per day.

A PAPER—Subject, "Root Galls of Cultivated Plants," by Prof. B. D. HALSETZ, Agricultural Experiment Station, New Brunswick, N. J.

### DISCUSSION.

A PAPER—Subject, "Trees and Shrubs which should be grown by Florists," by CHAS. J. DAWSON, Bussey Institute, Boston.

### DISCUSSION.

A PAPER—Subject, "Florists as Agricultural Chemists," by F. RANK, Agricultural College, Durham, N. C.

### DISCUSSION.

On Thursday afternoon a shooting tournament will take place at Johnston, a suburb of Providence. Intending participants should communicate with the committee for location on sports.

Next Monday the American Carnation Society (F. M.), the Chrysanthemum Society of America (F. M.), the "Proctor" Society (F. M.), the F. M. Florist's Hall Association of America (F. M.), will be held on Wednesday afternoon.

Second Day, Evening Session, 8 o'clock.  
A LECTURE—Subject, "Our Favorite Exotic Plants in their own Homes." With beautiful scientific illustrations. By PROF. GEO. L. GOODALE, of the Botanic Garden of Harvard University, Cambridge, Mass.

### THURSDAY, AUGUST 19, 1897.

Third Day—Morning Session, 10 o'clock.

### ELECTION OF OFFICERS.

DISCUSSION—Subject, "A Year's Progress in our Business."

### SECTION I.

The Carnation—Opened by WM. NICHOLSON, Framingham, Mass.

The Chrysanthemum.

The Rose—

On Thursday afternoon the Bowling Contest between teams representing various cities will take place at the alleys of the Providence Athletic Club. The contest is intended to compute with the Chairman of the local committee on sports.

Third Day, Evening Session, 8 o'clock.

DISCUSSION—Subject, "A Year's Progress in our Business."

### SECTION II.

Decorations and Greenhouse Plants—Opened by HOLT'S CARNATION, Newport, R. I.

Birding Plants—Opened by J. J. BUTLER, Newport, R. I.

The Retail Business—Opened by THOS. J. JOHNSTON, Providence, R. I.

### FRIDAY, AUGUST 20, 1897.

Friday will be devoted to recreation. The Florists and Gardeners' Club of Rhode Island, have chartered the steamship steamer, and will invite the members of the S. A. F., with their ladies, to accompany them. On invitation of the Florists, Gardeners and Associates' Club of Newport it, a landing will be made at Newport. The program will be "Six o'Clock" of the local club for the day. An evening program including a short drive in course of preparation, full details of which will be announced in due time.

### The Question Box.

The Question Box will be as heretofore an interesting feature of the meetings. Members are invited to forward inquiries to the Question Box to the Secretary previous to the meeting, which practice is that they may appear in the regular program.

### The Trade Exhibition.

This will be a grand expression of the latest improvements in all requisites for the greenhouse and other departments of the florist's business; models of greenhouses and apparatus; new and rare plants; garden implements; bulbs, seeds and soil; and many other articles in the same building and partly underneath Music Hall, where the sessions of the Convention will be held. A very large amount of space has already been rented and intending exhibitors should make applications at once to the superintendent for such accommodations as they will be required in due time.

### A Special Medal Competition.

The Society of American Florists offers six silver and six bronze medals to its members in Providence, as per the following schedule:

CANNAS display of 13 varieties in pots, not to exceed 25 cents each.

TUBEROUS HYGONIAS, 25 plants.

CALADIUMS, 12 fancy foliage varieties in pots, not to exceed 25 cents each.

AQUATIC PLANTS, display of cut blooms, to be kept in good condition throughout the exhibition.

HARDY CONIFERS, collection in pots.

The silver medals will be awarded for the best in each of the above classes, and the bronze medals for the second best. One silver and one bronze medal will be lot to the discretion of the committee to be awarded to any display of plants, showing advancement in culture or species of the trade.

No awards shall be made in any class where, in the opinion of the judges, the quality of the exhibit does not justify it. This department of the exhibition will be held in the building of the trade exhibition. No entry fee or charge for space will be required, and the arrangements should be made at once to the superintendent for such accommodations as they will be required in due time.

Entries should be made with the Secretary of the S. A. F.

## PRELIMINARY PROGRAM.

TUESDAY, AUGUST 17, 1897.

First Day—Opening Session 10.30 A. M.

Address of Welcome, by Mayor Edwin D. McGuinness, of Providence.

### RESPONSE.

President's GREETING ADDRESS.

REPORTS—Secretary, Treasurer, Standing Committee, Special Committees.

### APPOINTMENT OF EXHIBITION JUDGES.

On the afternoon of the first day the Judges will examine and prepare their reports upon the trade exhibition.

An enjoyable programme for the entertainment of the ladies will be arranged for this afternoon by the Ladies' Committee of the Florists and Gardeners' Club of Rhode Island.

### First Day, Evening.

PRESIDENT'S RECEPTION.—Tuesday evening will be devoted to the President's Reception, under the auspices of the Florists and Gardeners' Club of Rhode Island.

### WEDNESDAY, AUGUST 18, 1897.

Second Day—Morning Session 10 o'clock.

SELECTION OF PLACE OF MEETING FOR 1898.

### NOMINATION OF OFFICERS.

REPORTS OF JUDGES ON EXHIBITS.

### DISCUSSION OR RECOMMENDATIONS IN PRESIDENT'S ADDRESS.

certifying as to form, number, route and destination of ticket purchased. This certificate, duly countersigned at Providence, will entitle said purchaser to return passage at one-third fare. Certificates not to have been procured not earlier than August 15th and will be available at starting point, passengers must purchase ticket not later than August 24th.

VERY IMPORTANT. It is absolutely necessary for each passenger before starting to obtain the certificate of the ticket agent at the place and time going ticket is purchased. If without the possession of this certificate no reduction from regular fare can be obtained and respect of the Rhode Island cannot afterwards be remedied. If through ticket cannot be obtained at starting point, passengers must purchase certificate from each agent from whom a ticket is purchased. Members are advised to apply for tickets and certificates half an hour before the starting time of their train. All information required may be obtained by addressing the secretary or the chairman of the various special committees.

### Membership.

All persons in any way connected with the floral or gardening business are earnestly solicited to connect themselves with the National Society. Membership fee \$3.00 may be forwarded to the secretary at any time previous to the meeting and the Society's ledger for 1897, entitling the bearer to participate in the entertainment features of Providence and Newport, will be mailed in return, or payment may be made at Convention hall previous to the opening of the regu-

Evans Challenge Cup.





Exclusively a Trade Paper.

Entered as New York Post Office as Second Class Matter

Published EVERY SATURDAY by

A. DE LA MARE PTC. AND PUB. CO. LTD.,

2, 4, 6, 8 Duane St. New York

F. O. No. 1697. Telephone 2154 Corland

REGISTERED CABLE ADDRESS (Commercial Cable) Florez, New York.

SUBSCRIPTIONS: \$1.00 per year in United States, Canada and Mexico. \$2.00 per year to foreign countries in postal union.

ADVERTISEMENTS: Copy rates set this office not later than Tuesday...

Contents.

Table listing various sections and their page numbers, including American Carnation Society, Fire Insurance, and The Busy Man.

For the Busy Man.

The convention program appears on page 680.

The method of distribution of free seed, to be adopted by the Government next year, will be the same as in the past two years...

The American Dahlia Society will hold its exhibition in Horticultural Hall, Philadelphia, September 21 and 22.

The recent inclement weather has had very injurious effects on the seed crops both at home and abroad.

E. S. Harnden, seed-purchasing agent for the Government has resigned.

The attention of carnationists is respectfully called to the circular issued by the American Carnation Society...

Providence, The Convention City.

With the approach of the annual convention of the F. E. which, this year, will be held with the Florists and Gardeners Club of Rhode Island at Providence...

Everybody knows the history of the foundation of Providence. Roger Williams, banished from Plymouth Colony, Mass., on account of his religious beliefs, embarked in his bark...

Providence is situated almost at the head of Narragansett Bay, and has an area of 1,063 acres, with 121,700 miles of streets.

Next to the harbor the citizens of Providence take especial pride in the improvement and beautification of the city parks.

Next week I will present a few facts concerning Roger Williams Park.

The Evans Challenge Cup.

Our illustration is reproduced from a photograph of the cup presented by the Quality Club (E. Evans), Richmond, Ind., to be competed for by the florists' growing clubs at the annual convention of the F. E. The cup is to be won twice by the same club before becoming the property of the winners.

Fire Insurance.

A topic of discussion, and one that is likely to draw the attention of our enthusiasts at the forthcoming Providence convention, will be the subject of Fire Insurance on Greenhouses.

Now, however, that the subject of fire insurance has again been ventilated, what is said to be a feasible plan presented, we would like to call the attention of every grower to the fact that the practicality or non-practicality of said plan can only be learned from a thorough study of the question, and to that end a large gathering is necessary.

The New Tariff Bill.

The following are the provisions of the new tariff bill affecting the trade as fixed by the conference committee's report.

DTABLE.

Table listing tariff rates for various goods: Beans, 45c. per bushel of 60 pounds; Onions, 40c. per bushel; Garlic, 1c. per pound; Pease, green, in bulk, barrels, sacks or similar packages, 40c. per bushel.

FREE LIST.

Moss, seaweeds, and vegetable substances, crude or unmanufactured, not dried, including seaweeds, ferns, palm nuts and palm nut kernels.

It is hardly probable that a vote will be reached before next week. Menantine imports are being secured rapidly.

The Victoria Medal of Honor.

A Victorian medal of honor in horticulture has been instituted by the Royal Horticultural Society of England.

Dr. Arthur has been elected to the position of President of the American Carnation Society.

Formalin as a Fungicide.

In view of the beneficial results which have attended the use of formalin for the prevention of the fungoid disease known as black rot, the following report was published in the Purdue University Experiment Station, Lafayette, Ind., we wrote to Dr. Arthur regarding the efficacy of formalin as a fungicide.

So far as we have tested it, spraying has no effect upon such fungi as spruce mill-canker, etc., but it has been found that much has been said, promises to be of use in this direction, and in general it is a most valuable and economical fungicide.

New York.

Wholesale Market. During the early part of the week there was a considerable improvement in business and the ground has been quiet. Losses were sought after the most, and the growers have replanted their houses, together with bad weather, the supply became very limited. The quality was not so different (quality and severely work the money asked for them. Were the better quality than the old ones, as it is, \$4 is a possible figure for good, clean, bright stock.

There is a demand for, special grades of Meteor and Bridesmaid, 6 cents each was realized. Beauty, when in shape, brought 40 cents per piece.

Sweet peas are out of the way now, and carnations are lightening up. Also, the remaining very plentiful, but flowers are only of the smaller kinds yet, consequently it is hard to get the price to be as usual with this stock. Ghaziloff is now in full swing, and the prices, as usual with his stock, are very erratic; some blooms are being sold for \$5 per 1,000 spikes, while others go at from \$1 to \$3 per 100.

Valley was good property early in the week but is moving slowly—like the week before—now mostly at between \$1.50 and \$3 per 100.

Lilium auratum and L. longifolium are doing well, and are being sold with uncertain sales; sometimes they make \$3 and \$4 per 100, but there is a heavy demand enough to use that come in.

There is a remarkable absence of demand for the small windows at Ghaziloff is all that is to be seen, and the fancy is huge stock desolate.

Grandchildren are occurring in Sullivan County.

Friends of A. W. Merritt are working hard to get him one of the "Evening Journal" prizes, which means a trip to Naples for ten popular weeks.

There is a demand for the flowers already been recorded in Mr. Merritt's favor.

There is a demand for the flowers already been recorded in Mr. Merritt's favor.

There is a demand for the flowers already been recorded in Mr. Merritt's favor.

Philadelphia.

Carnation Sales. A great amount of interest is now being manifested in the S. A. F. convention, and no doubt a good many will go west from this city and the committee on transportation is looking up the various routes and will report at the next meeting, July 23. The favorite route seems to be by rail to New York, thence by water to Providence.

There is a demand for the flowers already been recorded in Mr. Merritt's favor.

There is a demand for the flowers already been recorded in Mr. Merritt's favor.

There is a demand for the flowers already been recorded in Mr. Merritt's favor.

There is a demand for the flowers already been recorded in Mr. Merritt's favor.

There is a demand for the flowers already been recorded in Mr. Merritt's favor.

There is a demand for the flowers already been recorded in Mr. Merritt's favor.

There is a demand for the flowers already been recorded in Mr. Merritt's favor.

There is a demand for the flowers already been recorded in Mr. Merritt's favor.

house, and Fred Carey, Kennett Square, two carnation houses. A one-story building 19 feet from 50 feet deep, is to be erected on Melloy street, between Fifteenth and Sixteenth streets. The building will be occupied by Edward Reid, wholesale florist, who has just commenced an addition to his building to be completed by October 1. It will be of brick, and will have a large window, the room being 12 feet to ceiling.

Bowling Contest.

A great amount of interest is now being manifested in the bowling contest to date, 18 games have been played by the first and second classes. The prizes for the contest are as follows: For the first class, \$100; for the second class, \$50. The contest embraces 25 games. The third class is composed of 150 members and those whose previous average was under 110. The first and second classes are using two balls and the third class three balls.

The result, so far, up to and including Wednesday night, July 21, is as follows:

Table with columns: FIRST CLASS, No. of Games, Name, Score. Lists names like G.O. Bell, Geo. Craig, Geo. McLellan, etc.

SECOND CLASS.

Table with columns: No. of Games, Name, Score. Lists names like John Westcott, Wm. Craig, John Walker, etc.

THIRD CLASS.

Table with columns: No. of Games, Name, Score. Lists names like John McLellan, R. Keule, E. Ehret, etc.

DAVID ROOT.

David Root, a well-known florist, has recently returned from Europe with a large stock of new varieties of carnations.

Boston.

Market Notes. The Hub has little to offer in the line of an encouraging market this week, as the effect was desired, owing to the severe price of the few days preceding. The prizes for hollyhocks had been put from the show, but they were only awarded in honor of M. H. Walsh, gardener to the estate of Hon. J. S. Fay of New York, who received all the awards. Repeated before the convention meets, and will welcome their friends with the hospitality for which the East is noted.

Exhibition. The exhibition at Horticultural Hall last Saturday was rather slim so far as the prizes were concerned. The prizes for hollyhocks had been put from the show, but they were only awarded in honor of M. H. Walsh, gardener to the estate of Hon. J. S. Fay of New York, who received all the awards. Repeated before the convention meets, and will welcome their friends with the hospitality for which the East is noted.

Exhibition. The exhibition at Horticultural Hall last Saturday was rather slim so far as the prizes were concerned. The prizes for hollyhocks had been put from the show, but they were only awarded in honor of M. H. Walsh, gardener to the estate of Hon. J. S. Fay of New York, who received all the awards. Repeated before the convention meets, and will welcome their friends with the hospitality for which the East is noted.

interesting specimens, Nymphae alba rosea, a native of Sweden, which has sold for \$100 in this country, and W. Maribaea vulgaris. Added to this was a fine display of native American ferns and several complete collections of native flowers.

Change of Firm.

John T. Butterworth succeeded on the first of July to take the business of Charles J. Power of South Framingham, Mr. Power, to the old-time florist he will know of well over, and will continue to establish a fine greenhouse property in the town where he has lived for the past forty-six years. To the present generation on the street. Mr. Power is known by proxy in Mr. Butterworth, who for a number of years has taken charge of the business, not only superintending the business, but handling the outside work, as he is known to all, has achieved a well-earned reputation as one of the best bulb-growers in the East, and the trade generally will be pleased to hear of his success, and hope that he may do well for himself as he has for his employer.

A Branch Establishment.

The tendency to accommodate the Back Bay trade is further evidenced by a recent building of a new property belonging to Mr. Fayban on the corner of Boylston and Fairfax streets, which will be ready for occupancy in a few years, and on this property they will erect a store and greenhouse. Lord & Smith are probably the ones to have the construction and something especially worthy of comment is promised. Everything is expected to be ready for occupancy by October first.

Notes.

W. H. Elliott, of Asparagus phytodopsis manum form, has been spending a few days in the metropolis. F. H. Houghton returned last Friday from a two-day stay in New York, and left Monday for Newport, where he will remain until October.

For three days in town on Friday last, the first time in several months, and the florists generally were very much pleased to meet him over the glass, and to see him in person, as he had been pleased to know from other evidence that had not so far recovered from his long illness.

Although the failure of the Bolker convention did not seem to excite any one in this section, unbounded sympathy is expressed for them by the trade generally.

Index to Advertisers.

Table listing various florists and their locations, including Asparagus, Auction Sales, Begonias, Bonnet of Trade, Carnations, Chrysanthemums, Cyclamen, Daisies, Geraniums, Gardenias, Hollyhocks, Hydrangeas, Impatiens, Iris, Juncos, Lilies, Marigolds, Mimulus, Nasturtiums, Petunias, Pinks, Ranunculus, Roses, Salvia, Scilla, Stocks, Sweet Peas, Tulips, Violets, Wax Begonias, Zinnias.

Table listing florists and their locations, including W. H. Elliott, J. H. Houghton, F. H. Houghton, etc.

Dallas.

Table listing florists and their locations in Dallas, including Cottage Gardens, Decorative Goods, Evansville, etc.

Fertilizers.

Table listing fertilizer products and their manufacturers, including American Fertilizer Co., etc.

Flower Pots, Tubs, and Vases.

Table listing flower pots, tubs, and vases, including Ernest & Sons, etc.

Flowers.

Table listing various flower varieties and their prices, including Carnations, etc.

Greenhouses.

Table listing greenhouse products and their manufacturers, including Greenhouse, etc.

Hardware.

Table listing hardware products and their manufacturers, including Hardware, etc.

Landscaping.

Table listing landscaping services and their providers, including Landscaping, etc.

Lighting.

Table listing lighting products and their manufacturers, including Lighting, etc.

Paints.

Table listing paint products and their manufacturers, including Paints, etc.

Perfumery.

Table listing perfume products and their manufacturers, including Perfumery, etc.

**STORRS & HARRISON CO.,** Painesville, Ohio, Wholesale Nurserymen and Florists, When Writing Mention Florists' Exchange

**NEW CANNAS THE CONARD & JONES CO.** WEST GROVE, PA. **LOGAN BERRIES** FOR FALL DELIVERY. Ask for price list later. When Writing Mention Florists' Exchange

**HAVE YOUR COLLECTIONS MADE THROUGH THE NATIONAL FLORISTS' BOARD OF TRADE,** 271 BROADWAY, NEW YORK. When Writing Mention Florists' Exchange

**CARNATIONS** Rooted Cuttings of the following to take out: Silver Spray, Double Queen, Sweetheart, Rose, Queen and Thos. Carleidge. 25c per 100; 50c per 200.

**VIOLETS** Fine runners of Lady Campbell and California, 6c per 100; \$1.00 per 1000. rooted orders, \$1.50 per 100; \$1.00 per 1000.

**JOSEPH REWARD, Unionville, Chas. Pa.** When Writing Mention Florists' Exchange

**VIOLETS** Very healthy, Marie Louise, field-grown, stock plants, \$2.00 per 1000.

Also **CARNATIONS**, for Fall delivery, Scott, McGowan and Daybreak, clean plants.

**F. G. MENSE, Glen Cove, N. Y.** When Writing Mention Florists' Exchange

**VIOLETS, MY SPECIALTY** All first-class plants. Orders received now for fall planting. Marie Louise, Lady Campbell, Sweetheart, Rose, Queen and Thos. Carleidge, Princesse de Galles, California. Price on application.

**FRED BOUTON, Sea Cliff, L. I., N. Y.** When Writing Mention Florists' Exchange

**2c. GERANIUMS 2c.** Nice well foliaged plants, from 2 1/2 in. pots, in rounded shape, the very best varieties. **HYDRANGEA OTAKI, MONSTROSA.** This new Hydrangea bears flowers of immense size nice plants from 2 1/2 in. pots that will make splendid stock for next season, \$3.00 per 100.

**COLEUS, best varieties, \$1.50** **UMBRELLA PLANT, 2.50** **FLOWERING GERANIUMS, good assortment, 2.50**

**CARNATIONS,** well established plants in the following: Fred Dorner, Mellowan, Mrs. Harrison, Fitzmaugh Reynolds, Fortia, \$1.50 per 100. Rifordino and Helen Keller, \$2.50 per 100. Cash with order.

**JOHN A. DOYLE, SPRINGFIELD, OHIO.** When Writing Mention Florists' Exchange

**This Stock Always Above**

**ROOTED CUTTINGS.**

Rex Begonia, 100	\$1.00
Vines var.	\$2.25
London Verbena	\$2.50
Show Crest Daisy	2.00
Double Gen. Grand Geranium	2.00
St. Snow Geranium	1.00
Mrs. Pollock Geranium	2.00
Hydrangea, Pink and White	2.00

Rex Begonia, 2 1/2 inch.	\$1.00
" " " "	2.00
Vinca var., 2 1/2 inch.	2.50
Snow Crest Daisy, 4 inch.	4.00
Mrs. Pollock Geranium, 2 1/2 inch.	1.00
Cyperus Alternifolius, 4 inch.	6.00
Cineraria, 2 1/2 inch.	3.00
Pitarorus, 2 1/2 inch.	3.00

Terms Cash or C. O. D.

**GREENE & UNDERHILL, Watertown, N. Y.** When Writing Mention Florists' Exchange

**PRIMUM BLOOM.**

Very fine plants, some in bloom, 3 in. pots.....	\$5.00
Begonia Rex, 10 vars., 3 in., 60c.....	5.00
Cyclamen, Giganteum, 3 in.....	5.00
Giant California Daisy, strong 3	5.00
30,000 Celery, best varieties, 6 to 10 in. high, per 100, \$1.00.	

**GEORGE J. HUGHES, Berlin, N. J.**

**CELERY PLANTS** White Plum and Golden plant out, \$1.00 per 1000. Self-blanching, ready to use. Also **ARRABE PLANTS**, 10 in. large, old-grow and well rooted improved at the end of December, \$1.00 per 100. **J. C. SCHMIDT & CO. Bristol, Pa.** When Writing Mention Florists' Exchange

**CELERY PLANTS** Strong and Stocky. \$1.00 per 100. \$9.00 per 10,000.

**PETER J. SCHUUR, Kalamazoo, Mich.** When Writing Mention Florists' Exchange

**CELERY PLANTS** **WHITE PLUME.** Field-grown plants at \$1.00 per 1000. Cash with order. Samples free.

**C. M. GROSSMAN, Wolcott, Ind.** When Writing Mention Florists' Exchange

**250,000 BEERY PLANTS** **Golden Dwarf, White Plum, and Giant Pascal.** 30c per 100; \$1.75 per 1000. Collected and strong. Seed 10c per sample. Cash with order.

**HORACE RIMBY, Collogeville, Pa.** When Writing Mention Florists' Exchange

**VEGETABLE PLANTS**

**CABBAGE**—Henderson's Succession, Early Golden Wonder, King of the Mountains, Sure Head, Late Flat Dutch, Premium Flat Dutch, Late Drumhead, Mammoth Rock Red and Golden Wonder. Field grown. 15c per 100; \$1.00 per 1000; \$8.50 per 10,000. **CELERY**—Dwarf Golden Heart, Golden Self-Blanching, Giant Pascal, New Rose, White Plum and Giant Paragon Celery. 1c per 100; \$1.00 per 1000; \$8.50 per 10,000. Cash with order.

**R. VINCENT JR. & SON, White Marsh, Md.** When Writing Mention Florists' Exchange

**VEGETABLE PLANTS**

All strong, well rooted plants, of standard varieties.

100 1000	
Celery, strong, well-rooted.....	\$0.20 \$1.50
Celery, strong, 17.....	25 2.00
Pepper.....	25 2.00
Cabbage.....	15 1.00
Cauliflower.....	25 2.00

Strawberry Plants, Potatoes, Carrots and Earlies (one year) at \$1.00. Also Broccoli, Tennessee and Gandy.

**TRADE PRICE LIST FREE.** Samples for Stamp. **E. C. HARGADINE, Felton, Del.** When Writing Mention Florists' Exchange

**Providence.** There is little or no business at the present time excepting an occasional floral order. Little business is done on sweet peas and pond lilies. The former, which had been in great abundance, are now in the hands of the growers, owing to the beating down of the vines by the heavy rains and gales of a week ago. Little business is done on regular stores. The latter do, however, handle a few pink lilies from the Cape, which retail for 15c per dozen.

**The Convention.** The coming convention of the S. A. F., so far as the arrangements of the local clubs are concerned, bids fair to be one of the best in its history. The general and sub-committees have all buckled down to hard work with an earnestness and willingness that augurs success. The committee has arranged its programme in such a way that the business sessions and discussions of the convention will not be interfered with, and there will be no no moments. An auxiliary committee of ladies has been appointed, and they will see that the ladies' business is properly and satisfactorily taken care of. With the time so broken by the hours of business, it has been found impossible for the ladies to have any other entertainment as they would have wished, but they have endeavored to make it as diversified as possible, so that all will be suited, and yet have it different from conventions in other cities. There was the customary president's reception and the bowling and shooting tournaments. Trease has an excellent list of the local club in both of these events, and the members are in constant practice. Tableaux prizes are being arranged for, and everything being done for the convenience and comfort of the participants.

The trade exhibit in Music Hall will be above the standard, and the space is about allotted, Superintendent Chappell has laid out the hall to the utmost advantage, and an excellent display is assured.

The festivities of the week will be crowded with interest. The programme of the convention and of the local club because the guests of the Newport Garden Club. The rose show has chartered one of the largest and fastest steamers on the bay for the trip to the city of flowers. The excursion will go to Newport will be unveiled by orchestral selections. At Newport the party will be received by the local club, and entertained in that hospitable manner known only to Rhode Islanders. Not the least interesting of the features of this trip will be the privilege of inspection of some of the famous grounds and conservatories of the State.

**W. H. MASON.**

**PEACH AND PLUM TREES** FOR FALL PLANTING. Reliable and clean stock of low wholesale rates. All desirable leading varieties of PEACHES, old and new, and PLUMS, including Triumph, Greengrobes, and Sweet Training Peach and Plum trees. Bill of goods free. Very large stock of PLUM TREES all fruiting trees, including the following: Yellow Bird, also, other, from nurseries or orchard trees. Bill of goods free. Also, Dwarf, Burbank, Chabot, Sams, Willard and others; also, standard varieties. Bill of goods free. Usual supply also of Asparagus Root to order. **ALEXANDER PULLEN, Milford Nurseries, Milford, Del.** When Writing Mention Florists' Exchange

**P. OVERMCKER, 123 Summit Ave., Jersey City, N. J.** Just received from our Holland

Nurseries:

RHOODENDRONS, AZALEAS,	
SPIREAE JAPONICA, LILUM SPECIOSUM,	
PONONIES, BLEEDING HEART,	
PT. GROWN LILIES, HYDRANGEA IN SORTS,	
CLEMATIS and H. P. ROSES, in the best sorts.	

**PRICES MODERATE.** When Writing Mention Florists' Exchange

**ABOVE ALL,** have your advertisements seasonably placed, and be reasonable they must be changed often.

**Toronto.** Business last week improved somewhat, the big Ewforth League convention held in the city, making things a little more lively. There was a better demand for cut flowers, but not much change in prices. Sweet peas are very plentiful. The market for them here, they have sold on from \$1 to about \$3 per 100, and they are not generally good, the best of last week's offering being considerably. Carnations also are poor. These flowers are handled by the regular stores. The latter do, however, handle a few pink lilies from the Cape, which retail for 15c per dozen.

**Our Outline.** The Toronto Gardeners and Florists' Association had an excursion to Niagara Falls Park on Thursday, the 13th inst. About 50 members and friends took the trip. The party was guided by George Vair, and had a most enjoyable time. Mr. Vair had lately been over the grounds, and he is very anxious to see about all it was possible to see in one day. Niagara Glen was the first place visited. The park is a very nice one, nearly two hours in the glen and most of them expressed their thanks to Mr. Vair for the trip. The park is a very nice one (Canada's best known park). After leaving the glen we went to the main part of the park, where the main part of the park, the general and able gardener, who showed us over the most interesting parts. The park project is quite a revelation to several of us that had not been here for ten or twelve years. Since Mr. Cameron took the park he has been entirely changed. All its natural beauty has been preserved wherever possible, and where improvements have been found necessary they have been made in such a way as to be as unobtrusive as possible in view of the surroundings. The Dutchess Islands have been opened up for the benefit of the islands.

In conversation, Mr. Cameron stated that he had seen many of the native plants growing in the park, many of them being quite rare in this country. He has seen many varieties of native plants growing in the park, many of them being quite rare in this country. He has seen many varieties of native plants growing in the park, many of them being quite rare in this country. He has seen many varieties of native plants growing in the park, many of them being quite rare in this country.

**WILKESBARRE, Pa.**

**HEA G. MARVIN** has acquired a fine store; the ceiling and sides are lined with plate glass. It is the most stylish of its kind in this section. The fountain is being run in conjunction with cut flowers. Mr. Marvin is of the opinion that the low winter trade is a good acquisition; he has had considerable experience in this line.

**W. H. MASON & CO.** will not order their plant this season. Mr. Humphrey reports a good trade, but believes rather scarce in variety. Low winter trade supplies than having a surplus to dispose of. Undoubtedly, the season has been a very successful one for the town of this size, the surplus of stock, if any, is smaller this year than usual, which should be congratulatory.

**Elmira, N. Y.**

**HOFFMAN Bros.** are to the front with carnations in this locality; the demand for these has been better this season than ever before.

**G. F. HAWSON** is a very busy man, and he has been very successful in his place given him little leisure; the capital stock produced shows close attention. Several of the varieties are in the hands of the stocks of roses; the usual number of chrysanthemums is being grown, but the color is very good. The market is rather slenderly. Violets look as promising as ever; the system of silt houses proves most satisfactory, and a high price will be with us at convention; doubtless, something original and for the good of the order will be forthcoming from our

Washington.

Campor Growing in the South. Quite a number of years ago, while the Botanic Gardens was conducting a party of Southern nurserymen through the greenhouses, one of the company, a tree to one of them, facetiously remarking that he wanted him to plant it on the west coast of the continent of the Chinese, he might have his collar made from the wood, which is as near as it gets to being iron. The tree was planted and Mr. Smith has long since been notified that the wood is ready for his use. It is a tree over forty feet high, three of thousands of seedlings have been raised from it and distributed over the Southern States. During the recent cold winters in the South, it has been observed that the growth is harder than the orange, and the probabilities are great that campor growing will be in a short time, become quite an industry. Owing to some recent newspaper publications on the subject of campor growing, the Department of Agriculture is already flooded with requests for plants, but Secretary Wilson finds it difficult to get hold of seeds from which to raise young plants, to satisfy the demand. Those having seeds are asked to send to the idea that they will lose nothing by germinating their own seed, and selling the plants. Frank and Mrs. Brown, two former secretaries of agriculture, sent out an enormous number of young plants to the Department, but their experimental work, such as testing the hardiness of the plants and their suitability to the different soils, has not been long enough to enable the Department to give out information concerning the cultivation of the campor tree method of furnishing the plants.

The Distribution of Seeds. Some time ago it was reported that Secretary Wilson would order a return to the old method of putting up the seeds in boxes, but owing to the insufficient appropriation it is found that this cannot be done during the present fiscal year. The appropriation as it stands, gives \$110,000 for purchasing seeds and \$20,000 to pay the cost of distributing the seeds. This lack of funds, thirty demissals have been made from the force employed in testing seeds. The distribution of seeds was started in December, when the Southern States will be supplied.

Baltimore. We are having an exceptional spell of rainy weather. The rain, together with the wind, has done great damage in our public parks, flooding and uprooting trees. The crops are not suffering. If anything, up to the present time, they have been benefited by the rain. The hot weather prevented the carnations from much growing, but the rainy spell we are now experiencing is having a beneficial effect upon their growth, which no doubt will be soft and more susceptible to the rain.

Jetlags. Early shipments of Harsili bulbs have arrived, the stock is poor. Up to date the violets hereabouts show little disease, but the wet weather, which we are now having will probably bring on this disease, peas.

Sweet peas are nearly over with us. EDWIN A. SEIDEWITZ.

Amesbury Perichth. POT-GROWN SEEDLINGS. \$3.00 per 100; \$35.00 per 1000. J. KADLETZ, P. O. Box, Dongan Hills, N. Y. When Writing Mention Florists' Exchange

DREER'S SPECIAL OFFER

ARAUCARIA EXCELSA. Norfolk Island Pine. We have an unusually large stock of the plants of this beautiful decorative plant, especially of the small and medium sizes, for which the demand is so great. 4 in. pots, 5 to 8 in. high, 2 to 3 tiers, \$9 each. 6 in. pots, 12 to 14 in. high, 3 tiers, \$12 each. 7 in. pots, 20 to 24 in. high, 4 to 5 tiers, \$25 each.

HENRY A. DREER, Seedman and Florist, 714 Chestnut St., Phila., Pa. When Writing Mention Florists' Exchange

Nephrolepis Exaltata Bostoniensis.

In large and small quantities from \$40.00 to \$80.00 per 1000. MINE IS THE GENUINE STOCK. FRED. C. BECKER, - - - 1730 Cambridge Street, CAMBRIDGE, MASS. When Writing Mention Florists' Exchange

ELMS

LATANIA HORBONICA..... 3 inch pots, \$5.00 per 100. THE ELIZABETH NURSERY COMPANY, Elizabeth, N. J. When Writing Mention Florists' Exchange

20,000 SMILAX. FERNS

Good strong plants from 2 1/2 and 3 in. pots, October showing, \$15 and \$20 per 100. PAUL LIEBSCH, W. Main St., Fatavia, N. Y. When Writing Mention Florists' Exchange

SMILAX!! SMILAX!! Strong plants from 2 in. pots, \$2.00 per 100; \$15.00 per 1000. Extra strong from 3 in. pots, \$3.00 per 100; \$25.00 per 1000. 2 1/2 inch one plants.

W. T. & F. PUTZ, Successors to Paul But & Son, New Castle, Pa. When Writing Mention Florists' Exchange

A. CUNEATUS FERNS

We have a large stock of fine plants in 2 1/2, 3 and 4 inch pots, \$1.50 to \$2.00 per 100. Special prices on large orders.

SHIPPERS OF CUT FLWERS. We Want Stock Rubber Plants. THE WILLI-BUS-WILSON Co., Cleveland, O. When Writing Mention Florists' Exchange

FERN BETERS TRELLA

Now Ready. In excellent condition, from 2 1/2 in. pots, 10 to 12 in. high, ready to admit of 4, \$3.50 per 100; \$30.00 per 1000.

R. WITTERST/ETTER, Sedansville, Ohio. When Writing Mention Florists' Exchange

FOR SALE CHEAP.

1 Lantana Barbours, 8 ft. high, 8 wds. 1 Dickson Barbours, 12 ft. high. 2 Dracena Australis, 10 ft. high. 1 Rubber Tree, 12 ft. high. 600 White Verbenas, fine plants. 2 Large Night Blooming Cereus, (tree) almost in bloom.

H. W. HALES, - Ridgewood, N. Y. When Writing Mention Florists' Exchange

PANDANUS UTILIS, 2 1/2 in. pots, \$5.00 per 100. Asparagus Plumosa Nana, 2 1/2 in. pots, \$3.00 per 100. Rex Begonias, 13 best varieties labeled, from 2 in. pots, \$5.00 per 100; \$20.00 per 1000. The above stock is well-grown, clean and healthy, and first-class in every respect. Satisfaction guaranteed.

A. B. DAVIS & SON, Purcellville, Va. (NEAR WASHINGTON), Va. When Writing Mention Florists' Exchange

SMILAX

Strong plants, 2 1/2 inch pots, \$5.00 per 100; \$15.00 per 1000. 500 at 1000 rates. Heliotrope, stocky plants, for benching, 3 1/2 inch pots, \$3.50 per 100; 50 cts. per doz. Verschaellii Coleus, \$5.00 per doz. Escob. 100 birds and 100 Maud, 3 in. pots, \$5.00 the lot.

CASH, PLEASE. W. C. KRABER, 9 Florence St., NEW BEDFORD, MASS. When Writing Mention Florists' Exchange

SMILAX

Strong plants, from pots, \$2.00 per 100; \$15.00 per 1000. Cash and order. SAMUEL J. BUNTING, Elmwood Ave. & 58th St. Phila. When Writing Mention Florists' Exchange

SMILAX!

2 1/2 inch best of stock ready for planting. \$2.00 per 100; \$18 per 1000.

ADOLPH G. FEHR, Belleville, Ill. When Writing Mention Florists' Exchange

Strong heavy root plants, 3/4, \$5.00 per 100, strong plants, 1 foot 0/4, 2 1/2, \$15.00 per 100, \$10 per 1000. NARGISSUS-Past's, double and single Fanston and single kinds, 7/8, per 100, \$5.00 per 100. PADI-SMILAX, \$10.00, L15-Indispensable for north work, \$10.00 per doz.

F. A. BALLER, Bloomington, Ill. When Writing Mention Florists' Exchange

SMILAX PLANTS

out of 2 1/2 in. pots, \$2.00 per 100; \$15.00 per 1000. Cash with order. Satisfaction guaranteed or money refunded. Address

FRIE D. SCHNEIDER, Cleveland, Ohio, 751 Crawford Road. When Writing Mention Florists' Exchange

SMILAX PLANTS

2 1/2 INCH POTS. \$2.00 per 100. Cash. EDWIN A. SEIDEWITZ, 36 W. LEXINGTON ST., BALTIMORE, MD. When Writing Mention Florists' Exchange

ALAEAS.

(INDICA). 8 to 9 in. heads, \$15.00 per 100; \$15.00 per 1000. 10 to 12 " " " " 20.00 " " 12 to 14 " " " " 25.00 " " 14 to 16 " " " " 30.00 " " 150.00 "

PALMS, Etc. For Palms, Aspiditras, Araucarias, etc., please refer to our advertisement in Florists' Exchange of May 15th and June 1st.

BECONIAS. (Erect Flowering) Single Tuberosa - Rooted. About 1 inch diam., separate colors, \$5.00 per 100; \$70.00 per 1000. About 1 1/2 to 2 inch diam., separate colors, \$10.00 per 100; \$100.00 per 1000.

GLOXINIAS. (Erect Flowering). Ab ut 3/4 to 1 inch diam., mixed, \$10.00 per 100; \$100.00 per 1000. About 1 inch and above diam., mixed, \$15.00 per 100; \$150.00 per 1000.

ROYAL NURSERIES, LOUIS VAN HOUTTE P/ERE, Ghent, Belgium. When Writing Mention Florists' Exchange



PALMS AND OTHER DECORATIVE PLANTS. All Exotic Palm Trees. Also large and in the collection. Send for Wholesale Lists. Special prices on large orders. Write for our price list of 1000 plants.

W. J. HESSER, Plantmarts, N.Y. When Writing Mention Florists' Exchange

FERNS

We make a specialty of small ferns for the Fall trade. Write for special prices on large quantities. Order early.

JOHN SCOTT, KEAP STREET GREENHOUSES, BROOKLYN, N. Y. When Writing Mention Florists' Exchange



The LARGEST STOCK in the West. GEO. WITTBOLD, 1708 N. Halsted St., CHICAGO. When Writing Mention Florists' Exchange



# CARRIATIONS.

## Cutting-Bench Sand.

The sand for the propagating bench is an important item; it becomes especially so when we consider the very best results, and have made every endeavor to have everything else in the best working order.

That the texture of the sand has a great deal to do with successful propagation is a point which has not the slightest doubt. My experience in the past has demonstrated the force of this many times over.

I believe that clean, sharp, or medium sand is universally recommended. For some years now we have been so situated that absolutely clean sand has been quite out of the question, having to depend on the banks of a rather small creek for our supply. The sand which we could get fairly clean sand, but more often the grain was from medium to fine, with a considerable quantity of silt, or other such as would more likely be deposited by high waters. Thus we were compelled to use an inferior sand, which we have thought to be incapable of the best results. Upon repeated trials, however, we not only found it to be as good as the cleaner sand, but materially better.

I have long since stultified out the whereof, which is quite simple enough when we have a knowledge of the habits and characteristics of the carriage.

When we use a sand of this nature and sharper the sand, the more readily water will pass through it. Thus making frequent irrigations necessary, which is quite out of line with the now generally accepted theory to keep the foliage dry, as being one of the essentials to successful carriage culture.

We cannot dispense with watering and syringing in the propagating house, yet with careful management, we can bring the matter so that we need not fear for the outbreak of cutting-bench fungus, or like evils, providing the sand is properly ventilated.

I feel confident that sharp sand, or, in fact, any sand which contains no traces of vegetable matter, is responsible for being more mischievous than is generally accorded it. Its only function is to hold the water, and supply the plants with moisture; beyond this it can do nothing, since it contains no plant food. It is the result of bacteria often receives its first impetus.

Bacteria is the result of a lack of nourishment, and is due to too much moisture. Too much moisture will invariably give the same effect, whether on plants in rich soil, or poor soil. Those in the latter soil will be the first to succumb, since it is more of an effort for a plant to take the nourishment where life exists than it is to take it where it does not exist. In the propagating house we have this very forcibly brought to mind. A batch of cuttings from plants which have been nourished and healthy plants can, if handled properly, be carried through the rooting stage and transferred to pots or flats without having contracted any signs of bacteria. As few waterings as possible, and a healthy atmosphere would accomplish this with almost any ordinary sand. But take a batch of cuttings from plants which are very susceptible to this disease, or from plants which are not healthy and sturdy, and it will be quite impossible to bring them out of the propagating house without contracting and showing no traces of bacteria. In the majority of cases they will be badly affected and necessitate removal to some extent, until they have time to recover.

In the first instance, the large healthy cuttings always taken from well-nourished plants, and are consequently well nourished themselves. The foliage is kept in a healthy condition to enable them to carry them through in good shape, providing the nourishment is properly attended to. In the case of the weaker ones, however, or those very susceptible to the disease, they are already half-dried, and therefore become easy prey, unless the very best of care is taken.

When a cutting is infected with bacteria will, with good treatment, recover very readily after they have been taken from the sand, yet if they are not carried through the propagating stage without contracting it, they will be almost impossible to free, they will be all the stronger and better for it.

When a cutting first seeds out its

roots, they go in search of nourishment as well as moisture. If they get all moisture and no food, bacteria is the result, and this usually takes place when the cuttings are put in earth or vegetable matter, and the sand reasonably dry. The want of supply of nourishment held by the cuttings can be said to tide them over.

They will not compare favorably, however, with material which has been given as good attention in every way, and which in addition have been rooted in sand and clean, and vegetable matter exist. In this case not only do the roots carry food at once to the cuttings, but with the addition of matter the sand will retain its moisture considerably longer than will the clean sand, thus allowing a longer interval between waterings, which is an item of no small proportion.

Clean sand is generally recommended as one of the necessary safeguards against cutting-bench fungus. Many change the sand for each batch of cuttings. That this is quite unnecessary I have determined to my own satisfaction, and as a result of my observations, I have found that the appearance of cutting-bench fungus is wholly a matter of fact, to a lack of ventilation, improper watering and excessive heat.

The fact that we use our sand for an entire season and have no trouble with this deadly pest, is all the evidence I want. The roots left in the sand from which rooted cuttings have been taken, become food for the batch which follows, and will in no way prepare the safety of the cuttings by developing cutting-bench fungus. When this pest makes its appearance, it is the result of mismanagement or carelessness. H. WEBER.

## The American Carnation Society.

There will be a meeting of the American Carnation Society called Wednesday, August 18, 1897, 2 P. M., sharp, at Providence, R. I.

Every member desiring changes in the system of judging and awards should attend the meeting, so that we may be ready there forward. If unable to attend in person, a letter addressed to the Secretary, and duly brought before the meeting for action.

Address mail to the Secretary to Albert H. Herr, Providence, R. I., (not Lancaster).

If you have not received your report it is because your report was not sent. Your remittance of the \$2 dues will be appreciated.

Under the heading of "A Year's Progress in our Business," William Nicholson of Framingham, Mass., will open up section I with a paper on the Carnation. A goodly number of our society should be present to represent us at the S. A. F. in the discussion of the paper.

Incidentally it might be well to give some thought to increasing the revenue of our society. Our treasury will be one of our twenty to give \$100 to invest in a permanent sinking fund; the interest to

be toward the running expenses of the society. This, in addition to our annual dues, would allow us to do much better work than we are able to do with the money received for dues for 1897, which amounts to give us \$154.

Try to attend this meeting in Providence to give us your views in writing. (Signed) W. R. RUD, President. (Attest) Albert M. HERR, Secretary.

# CHANGES IN BUSINESS.

COUNCIL MEMBERS.—C. G. Anderson and Charles Olsen have purchased the apartments and property of Charlotte E. Scott, Atlantic, Ill., and will take possession in the near future. Mr. Anderson was formerly foreman for J. F. Wilcox.

WILMINGTON, DEL.—De Voest & de Wilde, florists, have dissolved partnership, and the business will be continued by De Voest.—H. E.

## HYDRANGEA OTAKSA

2 1/2 inch pots, \$5.00 per 100. Cash with order.  
SAMUEL J. BUNTING, Elmwood Ave. & 58th St. Phila.  
When Writing Mention Florists' Exchange

## LOOK HERE

The following plants are in A1 condition.  
Asters, order of 2 1/2 inch pots, \$1.00 per 100.  
\*Main prices on application.  
Apparage, Pinnaculo Nanas, true climbing variety, 2 1/2 inch pots, \$1.00 per 100.  
TERMS CASH OR C. O. D.

C. MERKEL & SON, Mentor, Ohio.  
When Writing Mention Florists' Exchange

## ...ROSES...

1500 Bridesmaid, 3 in. 1500 Kaiserin, 3 in. 1500 Queen of Hearts, 2 1/2 in. 2 in. \$5.00 per 1000.  
2 in. \$5.00 per 1000.  
1000 PRES. CARNOT, at \$3.00, all in excellent condition.

J. A. SHELLEN, 17th & Tasker Sts. Phila. Pa  
When Writing Mention Florists' Exchange

## VIOLETS—Marie Louise.

Strong, healthy, 3 inch, pot growth, no disease, orders for August delivery.

\$3 per 1000; \$25 per 10000; Cash.  
GEO. H. BENEDICT, Yorkville, N. Y.  
When Writing Mention Florists' Exchange

Thanks.—  
Yellow Marguerite all sold that are rooted. Thanks to the Exchange. HENRY ZEENER, Gouverneur, N. Y., Feb. 3, 1897.

**VIOLETS! VIOLETS!!**  
MARIE LOUISE, Pot growth, clean and healthy in every particular, \$5.00 per 100; \$50.00 per 1000. Sample plant, 1c. Cash with order.  
WM. J. CHINNICK, Trenton, N. J.  
When Writing Mention Florists' Exchange

**MARIE LOUISE VIOLETS.**  
For want of room, I will sell two thousand plants at \$12.00 per 1000. These plants have been transplanted and can be shipped with good balls on. Just what you want for bedding in just now. CALLIFIA VIOLETS, with good balls on. Address

MICHAEL RUSSELL, Westport, Conn.  
When Writing Mention Florists' Exchange

## 10,000 GENUINE Nephrolepis Exaltata Bostonensis

FOR SALE CHEAP.  
Speak quick if you want this stock. Write for prices.

A. W. HOYLE, Florist, SPENCER, MASS.  
When Writing Mention Florists' Exchange

## BEAUTIES :

Surplus Stock of American Beauty  
Bride : : :  
Bridesmaid : :  
ROSES.  
Strongly rooted in 3 and 4 inch pots.

S. E. OAKES, ROSELAND GROWER, PASSAIC, N. J.  
When Writing Mention Florists' Exchange

## GYGLAMEN

## GIGANTEUM

To color, i. e., White, White with red eye, Crimson and Rose. Fine plants, from 4 inch pots, ready for 5 inch shift, \$17.00 per 100; mixed, from 4 inch pots, \$18.00 per 100.  
ASPARAGUS PLUMOSUS NANUS  
2 1/2 inch pots, \$7.00 per 100.  
Cash with order from unknown customers or C. O. D. Orders amounting to \$5 and over 2 to 5, N. Y. City.

SEAWANAKA GREENHOUSES, OYSTER BAY, QUEENS CO., N. Y.  
JAS. C. CLARK, Supt. P. O. Box 51. Wm. L. SWAN, Prop.  
When Writing Mention Florists' Exchange

TO BE PUBLISHED AUGUST 10.

# Water Garden

BY WILLIAM TRICKER.

THIS volume, which has been prepared by the foremost aquaculturist of the country, and to whose efforts the present growing popularity of the Water Garden is largely due, is designed to serve as a SOUND, PRACTICAL CULTURAL HANDBOOK for amateur and professional alike. The book will be freely illustrated with plates and illustrations in the text, and will describe all operations, from the growing of plants in tubs to construction of the large pond, planting, seed saving, propagation, wintering, and all other necessary details of cultivation.

←← ORDERS RECEIVED NOW. →→

A. T. DELA MARE PTG. & PUB. CO., Ltd., - - - - - Box 1697, New York.

Chicago

## GREEN-HOUSE CONSTRUCTION.

This has been a specialty with us for many years and to us is due the credit for many of the great improvements that have been made in the construction of wooden green-houses. To those that buy our

### Clear Cypress Building Material

we furnish, free of cost, complete detail drawings from which any intelligent workman can put up the material correctly. We have plenty of time to write letters ABOUT OUR BUSINESS, and we will be glad to hear from those contemplating building.

Write for Circulars or Estimates.

### LOCKLAND LUMBER CO.

LOCKLAND, OHIO.

When Writing Mention Florists' Exchange

## FLOWER POTS

We are Manufacturing a Full Line of STANDARD FLOWER POTS and HANGING BASKETS OF THE BEST QUALITY.

Shipping Facilities First-Class, thereby Securing Lowest Freight Rates. Our goods are well packed, and breakage is nominal. Give us a trial. Send for Price List.

Address THE SYRACUSE POTTERY CO., 403 N. SALINA ST., SYRACUSE, N. Y.

When Writing Mention Florists' Exchange

### Standard Flower Pots.

Send for our New Price List with extra discounts. All our Pots, from 7 in. and upwards, have our Patent Escalator Bottom, which is a great advantage, as it insures perfect drainage.

A FULL LINE OF BULB PANS.

THE WILLIAMS POTTERY CO., 713 to 719 Wharton Street, PHILADELPHIA.

BRANCH HOUSES: { Keosau and Westdale Aves., Jersey City, N. J. Jackson Ave. and Parkers St., Long Beach, Calif., N. Y.

When Writing Mention Florists' Exchange

**CYPRESS**  
IS MUCH MORE DURABLE THAN PINE.

**CYPRESS SASH BARS**

UP TO 2 1/2 FEET IN LENGTH OR LONGER.

**GREENHOUSE AND OTHER BUILDING MATERIAL.**

Send for our Illustrated Book "CYPRESS LUMBER AND ITS USES." Send for our Special Greenhouse Circular.

**The A. T. Stearns Lumber Co.,**  
Nephtons, Boston, Mass.

When Writing Mention Florists' Exchange

**Trade Improving Challenge.**

Roller bearing, self-feeding device, automatic stop, solid link chain, makes the **THE IMPROVED CHALLENGER** the most perfect apparatus known to the man.

Write for catalogue and press before making your order or when.

**Queer Dry Machine Co.,**  
RICHMOND, IND.

When Writing Mention Florists' Exchange

**IF YOU WANT A GOOD SASH LIFT For a Very Little Money Get**



**THE NEW DEPARTURE VENTILATING APPLIANCE.**

For Descriptive Catalogue Send to **J. D. CARMODY, Evansville, Ind.**

When Writing Mention Florists' Exchange

**IMPROVED GLAZING.**

**J. M. GASSER'S PATENT ZINC JOINTS**

For Roofing Glass Without Laps.

Makes a Butt Joint and Water Tight. Saves Fuel, No Breakage from Frost or Medium Sized Hail. Manufactured by

**J. M. GASSER,**  
101 Euclid Avenue, CLEVELAND, OHIO.

Wholesale and Retail Florists. Write for Prices and Circulars. When Writing Mention Florists' Exchange

A CHANGE OF AIR is often of as necessary as a change of air, or change of diet, and for the same reason—to keep frame and body healthy.

**CYPRESS GREENHOUSE MATERIAL**

WHOLESALE AND RETAIL

**JOHN C. MONINGER Co.**

412 to 422 HAWTHORNE AV. CHICAGO, ILL.

When Writing Mention Florists' Exchange

Florist's Club of Chicago.

By special invitation the club, to the number of seventy-five or more, including many ladies, took the N. W. train for Arlington Heights to visit John Klehm and his three sons, who have here interesting grounds of some twenty-five acres in extent. The party strolled through the vineyard and among the other specialties for which the place is famed. These include peony plantations from which 75,000 buds were sold, strawberry an acre and a quarter of lily of the valley for forcing, 5,000 plants grafted on the Chinese julyet, cherry tree plantation of five years' planting that this year gave a good crop, hollyhocks, a miscelaneous group of rhubarb and plants. The large greenhouse had nothing specially attractive just now. This place, however, noted for growing tea roses in solid beds, the plants being often of many years' growth. They are allowed to dry off during summer, and then summaged into new growth in the fall by liberal pruning and watering; the soil being peculiarly adapted for this style of management, so that when Klehm's roses do come in, they are much prized.

After viewing the grounds, long tables were spread out on the lawn and the ladies and friends of the family joined themselves with a bonafide lunch, which was much enjoyed, even the baseball cracks on the lawn after calling "bat long enough to partake. This game was between those located south of Randolph street, versus north of that street, the players being mostly wholesale men. The northsiders, as far as the game was

"JADO"

FIBRE AND LIQUID are used and endorsed by the leading growers.

Try them and be convinced.

When Writing Mention Florists' Exchange

**STANDARD POTS.**

We are now ready to supply a superior quality of Pots in unlimited quantities. Catalogues and price lists furnished on application.

**A. H. HEWES & CO.,**  
NORTH CAMBRIDGE, - MASS.

When Writing Mention Florists' Exchange

**STANDARD FLOWER POTS**

In any quantity, and of the best quality. Give us your price list before ordering elsewhere.

**W. H. ERNEST,**  
Station M, N. E., WASHINGTON, D. C.

When Writing Mention Florists' Exchange

**Chadborn's Automatic Ventilator**

**CHADBORN, KENNEDY & CO.**  
NEWBURGH, N. Y.

When Writing Mention Florists' Exchange

**SUMMER IN WINTER**

By Using **Standard Greenhouse Bolders**

One cent gets our Catalogue.

**GIBLIN & CO., - Utica, N. Y.**

When Writing Mention Florists' Exchange

**VALVES, FITTINGS AND VENTILATING APPARATUS.**

**GOLDWELL & CO.,**  
NEWBURGH, N. Y.

Mention name.

**Binghamton, N. Y.**

Mrs. M. L. BARNES is rebuilding after the spring flush.

J. B. TRULLY is the proud possessor of a fine collection of orchids, as far as the weather is concerned. It will take a long time to overcome the effects that the hot spell had on all classes of flowers. Carnations, as well as roses, are now very small, white flowers are in best condition, a few Belgians, such as the 'Duchesse', beginning to come in; the demand, however, is very light. Even the street men are beginning to get a good price for the few flowers they purchase.

C. C. Cropp of J. C. Vaughan's has left on a visit to Europe.

EDGAR SANDERS.

**New Orleans.**

The New Orleans Horticultural Society held its annual election Thursday, July 15. The following officers were elected: Ed. Baker, president; F. B. C. Cox, Jr., Newsham, vice-president; John Ellen, treasurer; (re-elected); Paul Abbe, secretary; (re-elected).

played, seemed to have the best of it, Harry Balsey umpiring the game.

When evening came, a meeting was called to order and a vote thanks was given with a hurrah to the hosts for their generous hospitality. The President then asked Moses H. DeWitt to address the members on their success in the growth of bulbs to take the place of imported stock. He reviewed the progress that had been made here. In tulips it was found they could not be grown with profit on the hills of the valley, but in gladioli success. They are planted three inch apart in the rows, and 35 inches between the rows, so as to give plenty of horse-power. Pips were carefully graded in the first place, and it took from two to three years to get them into the final forcing. The firm claims to get much more from the imported ones, easily getting good foliage with the flowers. The actual cost of growing the pips did not exceed \$2 per 1000, which statement was verified by reference to a carefully kept record of receipts and sales. This amount, however, only covered the labor in planting and cultivation. The land rent is a heavy, clay loam. A pasture was mowed and cropped one year before the pips were set. An inching with cow manure was adapted in winter now to prevent heaving that to afford any protection to the roots.

As regards cold-storing peonies, it appears only certain varieties could be detected from the country stores. These were found out by actual trial. For example, the old double red listed only two or three keepers, the new one, white, "one of the best sellers, but a week in the lemon center, three days, what is here called the top, and W. ledigi, being the longest keepers—30 days in good condition and six weeks in fair state of preservation. The long keepers, it appears, may be sent in the hard bud, and they rip up during the process of storing, while the short keepers will not open out in hard bud, but must be near expanding when put away; hence they will not stand the cold way, dry.

The next outing is expected to take place on August 10th, at the residence of W. ledigi, on invitation of Emil Buttnier, who is one of the noted growers of this district.

**Roads Town.**

F. C. Thom, 125 Milwaukee Avenue, has just finished erecting a neat retail establishment in five houses, 100 feet each, and store. The house each is planted with roses, carnations and chrysanthemums in large tubs and pots, palms, etc., with another for mixed bedding and other plants. Mr. Thom was met by J. C. Nibson & Co., 275 North Paulina Street.

C. Longenecker and the Dunn Bros. did not finish plating their chrysanthemums till near the end of July.

John A. Evans is in the city fitting up the ventilating apparatus in Washington Park Greenhouse.

**Market Enhanced.**

There has been no change in business from last week's report, although the week has been fairly good so far as the weather is concerned. It will take a long time to overcome the effects that the hot spell had on all classes of flowers. Carnations, as well as roses, are now very small, white flowers are in best condition, a few Belgians, such as the 'Duchesse', beginning to come in; the demand, however, is very light. Even the street men are beginning to get a good price for the few flowers they purchase.

C. C. Cropp of J. C. Vaughan's has left on a visit to Europe.

EDGAR SANDERS.

**LORD & BURNHAM CO.,**  
**HORTICULTURAL ARCHITECTS AND BUILDERS,**  
**STEAM AND HOT WATER HEATING ENGINEERS.**

Plans and Estimates furnished on application.



Largest Builders of Greenhouse Structures. Six Highest Awards at the World's Fair.  
 Send four cents postage for Illustrated Catalogue.

**LORD & BURNHAM CO.,**

ARCHITECTURAL OFFICE, 160 FIFTH AVE., COR. 51st STREET, NEW YORK.  
 Factory: Irvington-on-Hudson, New York.

**GLASS**

FOR GREENHOUSES, CONSERVATORIES, GRAPERIES, HOTBEDS AND FLORISTS' USE GENERALLY, AT LOWEST RATES.

L. HARRIS & SON,  
 487 W. BROADWAY, NEW YORK, 89 LIBERTY ST., NEW YORK,  
 941 Easton and Haverhill Sts., Ind. Broadway and Church Sts.

When Writing Mention Florists' Exchange

**CALIFORNIA RED CEDAR**  
**Never Decays.**  
**A. DIETSCH & CO. 619 Sheffield Avenue, CHICAGO.**  
 MANUFACTURERS OF  
 RED CEDAR AND CYPRESS GREENHOUSE MATERIAL.

When Writing Mention Florists' Exchange

**GREENHOUSE GLASS.**  
 THE WOOD GLASS COMPANY,  
 226 N. SALINA ST., SYRACUSE, N.Y.

When Writing Mention Florists' Exchange



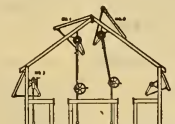
**THE VAN REYPER**  
**PERFECT GLAZIERS' POINTS**

No rights or lefts. Price per box of 1000, 60c.  
 by mail, 75c; in lots of 5000 by ex., 55c. per 1000

HENRY A. DREER, 714 Chestnut St., Phila., Pa.

When Writing Mention Florists' Exchange

**STANDARD VENTILATING MACHINE.**  
 NONE EQUAL IT IN Strength AND Durability  
 NOTHING Flimsy OR Complicated about it.



E. HIPPARD, YOUNGSTOWN, OHIO.

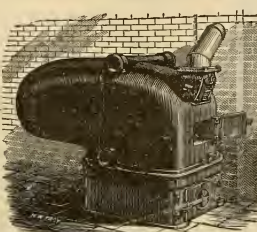
When Writing Mention Florists' Exchange

**TRADE GREENHOUSES.**  
**THE BEST MADE.**

"Florists" Get Your Plans and Estimate from  
**PLENTY'S HORTICULTURAL WORKS,**  
 148-156 Randolph Ave., JERSEY CITY, N.J.

When Writing Mention Florists' Exchange

**GREENHOUSE HEATING AND VENTILATING,**  
 Horticultural Architecture and Building.



Mention paper

SEND 4c. POSTAGE FOR ILLUSTRATED CATALOGUE.

**Hitchings & Co**

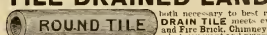
ESTABLISHED 1844.  
 233 Mercer Street, NEW YORK.

**FIVE PATTERNS OF BOILERS.**  
 NINETEEN SIZES,  
 Perfect Sash Raising Apparatus.

Rosehouses, Greenhouses, Etc., of Iron Frame Construction erected complete or the Structural Iron Work shipped ready for erection.

Iron Frame Benches with the "Perfect Drainage Bench Tile" or Slate Tops.

**TILE DRAINED LAND**



is the earliest, easiest worked and most productive land. By means of the tile you get rid of the surplus water and admit 150% to the soil. Each acre can be used for AGRICULTURAL DRAIN TILE meets every requirement. Made also Sewer Pipe, Red and Fire Brick, Chamber Walk Tiles, etc. Write for what you want and prices. JOHN H. JACKSON, 41 CHURCH AVE. ALBANY, N.Y.

When Writing Mention Florists' Exchange

**PIPE VALVES**

Wrought Iron Pipe, Valves, Cocks, Fittings, etc., for Steam and Hot Water; Rubber Hose, Pumps and Wall Pipes.

WM. H. KAY, 42 Day St., New York.

When Writing Mention Florists' Exchange

**GLASS!**

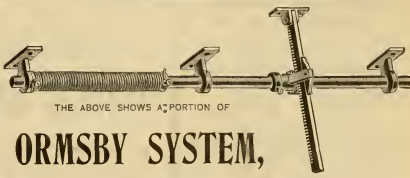
For Greenhouses, Conservatories, Graperies, Hotbeds and all other purposes, at Lowest Rates.  
**N. COWEN'S SON, 392 & 394 West Broadway, New York.**  
 Formerly 124 and 126 So. Fifth Avenue.

Get our Figures before buying Glass. - Estimates Freely Given.

When Writing Mention Florists' Exchange

SEND FOR OUR NEW CATALOGUE, WHICH SHOWS  
**The New Automatic Cable Ventilator**  
 As it is put up in the house complete. We also give you prices with a guarantee that each machine sent out will operate your house successfully. Soil machines now made in two sizes.  
**A. Q. WOLF & BRO., Dayton, Ohio.**

When Writing Mention Florists' Exchange



THE ABOVE SHOWS A PORTION OF

**THE ORMSBY SYSTEM,**  
 Look It Over Thoroughly.

See advertisement on page 690.

When Writing Mention Florists' Exchange

**MASTICA**

FOR GLAZING GREENHOUSES. SUPERIOR TO PUTTY IN EVERY WAY.  
 Is not hardened by the extreme heat or cold that a greenhouse is constantly subjected to both inside and out. Mastica is adhesive and remains permanently plastic so that it is not forced out of place by expansion and contraction of the woodwork. Houses glazed with Mastica do not need re-glazing, thus saving time and expense. With Mastica can "bed-in" or use on the outside, but with a machine only.

Mastica and Mastica Glazing Machine were given  
**HIGHEST AWARD OF SOCIETY OF AMERICAN FLORISTS AT PITTSBURGH, 1895.**  
 Put up in gallons, \$1.00. Half gallons, 60 cts. Quarter gallons, 35 cts.  
 Mastical Glazing Machines, \$1.00 each.

Send for full descriptive circular and testimonials. Agents in all the principal cities.  
**F. O. PIERCE CO., Sole Manufacturers, 170 Fulton St., New York.**

When Writing Mention Florists' Exchange

**J. K. ALLEN,**  
Wholesale Commission Dealer in  
**CUT FLOWERS,**  
57 W. 28th St., New York.  
Orders by mail or telegraph promptly attended to.  
Telephone Call, 363 38th St.  
**ROSES AND VIOLETS SPECIALITIES.**

**W. S. ALLEN,**  
17 West 28th St., New York.  
Correspondence Solicited.

**FORD BROS.**  
**WHOLESALE FLORISTS,**  
111 West 30th Street,  
NEW YORK.  
Consignments Solicited. Telephone 200 33th St.

**WM. H. CUNTER,**  
**Wholesale Florist**  
VIOLETS AND CARNATIONS A SPECIALTY.  
Consignments Solicited.  
30 West 29th St., New York.  
Telephone, 230-33th Street.

**MICHAEL A. HART,**  
**Wholesale & Commission Florist,**  
113 W. 30th St., New York.  
Telephone Call, 197 28th St.  
All kinds of Roses, Violets and Carnations a specialty.  
**ORDERS PROMPTLY ATTENDED TO.**

**H. A. HOFFMANN,**  
**Wholesale Florist**  
44 W. 29th St., NEW YORK.  
Telephone Call, 168 28th St.  
American Beauties, Carnations, White Violets,  
Specialties. CONSIGNMENTS SOLICITED.

**EDWARD C. HORAN,**  
**WHOLESALE FLORIST,**  
No. 34 W. 29th St., New York.  
The Bride, Mornet and American  
Beauty, Specialties.

**JULIUS LANG,**  
**Wholesale Florist**  
53 West 30th St.  
Consignments Solicited. NEW YORK.

**FRANK MILLANG,**  
**Wholesale Commission Dealer**  
...in Cut Flowers...  
408 East 34th St., New York City.  
Cut Flower Exchange. Telephone Call, 264-34th.

**THE NEW YORK CUT FLOWER CO.**  
119-121 West 23d Street,  
112-114 West 24th Street,  
Telephone 723, 18th St., NEW YORK.  
THE LARGEST DEALERS IN OUT  
...FLOWERS IN THE WORLD...

When Writing Mention Florists' Exchange

**W. E. LYNCH,**  
**Wholesale Dealer in Cut Flowers.**

We are Headquarters for finest Carnations and Roses, Violets, Valley, Romans, Smilax,  
Adiantum. Best selected stock reserved for shipping orders. Send us your name for our  
Semi-Monthly Price.  
**19-21 RANDOLPH STREET, CHICAGO.**  
When Writing Mention Florists' Exchange

**CHAS. W. McKELLAR,**  
**WHOLESALE COMMISSION FLORIST**

Largest and best market in Chicago. Constant supply of all seasons flowers.  
Consignments of first grade goods solicited. Complete stock of Florists' Supplies,  
Wire-work, etc. All orders given prompt attention.  
Telephone, Main 1129. **45, 47, 49 WABASH AVENUE, CHICAGO. ILL.**  
ED. F. WINTERSOHN, Manager.

When Writing Mention Florists' Exchange



NAMES AND VARIETIES.	NEW YORK	BOSTON	PHILADELPHIA	CHICAGO	ST. LOUIS
	July 21, 1897.	July 20, 1897	July 21, 1897.	July 21, 1897.	July 21, 1897.
A. Beatty, fancy and special	20.00 to 25.00	12.00 to 20.00	15.00 to 20.00	5.00 to 8.00	...
" extra	10.00 to 15.00	6.00 to 10.00	...	...	...
" No. 1	5.00 to 8.00	...	...	...	...
" Cuts extraordinary	3.00 to 4.00	1.00 to 4.00	4.00 to 5.00	1.00 to 3.00	...
Bennet, Osmia	1.00 to 1.50	1.00 to 3.00	...	...	...
Bride	1.00 to 4.00	1.00 to 4.00	2.00 to 4.00	.50 to 1.00	1.00 to 4.00
Bridemaid	1.00 to 4.00	1.00 to 6.00	2.00 to 4.00	.50 to 2.00	1.00 to 4.00
Jackonians	1.00 to 1.50	1.00 to 2.00	...	...	...
E. A. Victoria	2.00 to 6.00	2.00 to 8.00	2.00 to 4.00	2.00 to 4.00	2.00 to 8.00
La Franco, extra	...	2.00 to 8.00	...	...	...
" ordinary	...	2.00 to 4.00	...	...	...
Magna Charts	...	...	...	...	...
Mrs. Weston	1.00 to 6.00	...	...	...	...
Meloer	1.00 to 4.00	1.00 to 8.00	2.00 to 4.00	1.00 to 3.00	1.00 to 4.00
Mrs. F. Moran	...	...	...	...	...
Nipheon, Host	...	...	...	...	...
Pige Goddess	...	...	...	...	...
Perle	.50 to 2.00	2.00 to 4.00	2.00 to 3.00	1.00 to 2.00	...
Roy de Wootton	...	...	...	...	...
St. Louis	...	...	...	...	...
Watteville	...	...	...	...	...
YACHT	75 to 100	...	...	...	75 to 125
ALABAMA	20 to 50.00	50 to 80.00	25.00 to 50.00	...	...
LETTER (per doz bunches)	...	...	...	...	...
OSPELLA	...	...	...	...	1.00 to 2.00
ALL OTHERS	...	...	...	...	...
FOR ALL colors, inferior grade	...	...	...	...	...
" White	...	...	...	...	...
" SPANARD Pink	15 to 20	50 to 75	50 to 100	25 to 50	...
" Mrs. P. Moran Red	15 to 20	50 to 75	50 to 100	25 to 50	...
" VARIETIES Red	15 to 20	50 to 75	50 to 100	25 to 50	...
" FANCY White	15 to 20	50 to 100	50 to 100	50 to 75	...
" White Pink	45 to 75	75 to 1.00	...	...	1.00 to 1.10
" The highest grade standard Red	25 to 75	75 to 1.00	...	...	...
" O and varieties Yellow (War)	...	...	...	...	...
" NOVELTIES	...	...	...	...	...
" OUTLINES	...	...	...	...	...
" GLADDEN	...	...	2.00 to 4.00	...	...
" ST. LOUIS Longlimb	5.00 to 6.00	...	...	...	...
" JET OF THE VALLEY	1.25 to 2.00	2.00 to 4.00	2.00 to 4.00	2.00 to 3.00	...
" ENDROBERTS	...	...	...	...	...
" BERT	10 to 10.00	5.00 to 10.00	...	...	10 to 10.00
" SWEET PEAS (100 bunches)	...	...	...	...	...
" TUESDAY	...	...	...	...	...

For Prices of Fancy and Special Stock see our Correspondence Columns.

Prices are for quantities of one hundred unless otherwise noted.

Prices quoted above are given only after very careful inquiry, and while we do not guarantee their accuracy, they will be found practically correct up to the date mentioned.

**REINBERG BROS.,** Wholesale Growers of Cut Flowers. . . . 500,000 Feet of Glass. .

We can fill all orders on short notice with all leading varieties of **ROSES** and **CARNATIONS**. We are headquarters for fine **AMERICAN BEAUTIES**. Give us a trial and convince yourself.

**SALESROOM 51 Wabash Avenue, Chicago, Ill.**  
When Writing Mention Florists' Exchange

**SAMUEL S. PENNOCK,** WHOLESALE FLORIST.

A fine stock of **VALLEY** on hand throughout the Summer. Also a full line of all seasonable cut flowers.

During July, August and September we close at 6 P. M.  
**1612-1614 Barker St. Ret. Chestnut & Market Sts. Philadelphia, Pa.**  
Local and Long Distance Phone 5210.  
WHEN WRITING MENTION THE FLORISTS' EXCHANGE

**H. L. SUNDERBRUCH CO.,** Wholesale Commission Florists,  
4th and Walnut Streets,  
CINCINNATI, OHIO.  
Consignments Solicited. Special Attention Given Shipments Violets.

**HEADQUARTERS** in Western New York. Try us  
**ROSES, CARNATIONS AND ALL SEASONABLE FLOWERS.**

**WM. F. KASTING,** Wholesale Commission Florist  
435 Washington Street,  
BUFFALO, N. Y.  
Also Dealer in Florists' Supplies & Wire Designs

**PURDY & BLAUVELT,**  
Wholesale and Commission Dealers in  
**CUT FLOWERS**  
MADEIRA FINE FLOWERS A SPECIALTY.  
57 WEST 30TH STREET,  
Bet. Broadway & 8th Ave. NEW YORK.

**A. & F. ROLKER,**  
WHOLESALE DEALERS IN  
**CUT FLOWERS**  
53 West 28th St.  
Telephone 2379 38th St. NEW YORK.

**W. F. SHERIDAN**  
Wholesale Commission Dealer in  
**CUT FLOWERS**  
39 West 25th St., New York.  
Telephone, 24-38th St.  
PRICE LIST SENT ON APPLICATION.

FLORIST & TRADE SHOW. CHICAGO SPRING.  
**TRAENDLY & SCHENCK,**  
Wholesale Florists,  
38 W. 28th St., and CUT FLOWER EXCHANGE,  
NEW YORK.  
Telephone 65-16th St. \*Consignments Solicited.

**JOHN YOUNG,**  
**Wholesale Florist,**  
51 WEST 28TH ST.,  
NEW YORK.

**WM. J. BAKER,**  
**Wholesale Florist**  
1432 So. Penn Square,  
Philadelphia, Pa.

**DUMONT & CO.**  
**WHOLESALE FLORISTS**  
CARNATIONS A SPECIALTY.  
No. 1305 Filbert St., Philadelphia.

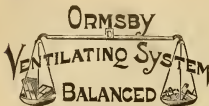
**Illinois Cut Flower Co.,**  
51 Wabash Ave., Chicago.  
Special discounts on Wire Work during July and August.

**KENNICOTT BROS. COMPANY,**  
**Wholesale - Cut - Flowers,**  
88 Wabash Avenue,  
CHICAGO, ILL.  
WIRE WORK A SPECIALTY.

**ROGERS PARK FLORAL CO.,**  
**Wholesale Growers of Cut Flowers**  
OFFICE AND SALESROOM,  
41 WABASH AVE., CHICAGO.  
Headquarters for AMERICAN BEAUTIES.

When Writing Mention Florists' Exchange





This system consists of a

5-8 In. Solid Steel Rod

supported in suitable hangers adapted to different styles of houses. The upright lifting bar or rack attaches to the ventilators and intersects with the cog wheel in which it travels when raising and lowering the ventilator.

THE SPRING is the ALL-IMPORTANT in the Ormsby system; it is made of the very best grade of STEEL.

E. A. ORMSBY, Melrose, Mass. When Writing Mention Florists' Exchange

MANURE

Fresh and well rotted horse manure. Manure for mushroom growing a specialty.

N. F. MCCARTHY, Treas. & Manager. BOSTON, MASS. When Writing Mention Florists' Exchange

DO NOT BE HUMBGED BY IMITATIONS OF OUR GREEN SILKALINE



Contains more coal and does more work than anything else on the market. The original only SILKALINE is made solely by JOHN C. NEVILL & CO., 87 Summer Street, BOSTON, MASS., U. S. A.

SCOLLAY'S IMPROVED PUTTY BULB

For Glazing Sash, Etc., PATENT PLANT SPRINKLER. JOHN A. SCOLLAY, BROOKLYN, N. Y. SEND STAMP FOR CATALOGUE.

CHRYSANTHEMUMS - Last Call.

A few hundred each of the following varieties from pots, grand plants at \$3.00 per 100. City of the Bloodgood, Philadelphia, Mrs. H. Robinson, Hagenmuller, Philadelphia, from Fairmount Park, Philadelphia, Mrs. Wm. Simpson, The Queen, Mrs. E. L. Hill, 1907.

SMILAX \$2.00 per hundred. C. EISELE, 11th & Jefferson Streets, Philadelphia, Pa. When Writing Mention Florists' Exchange

BELT, Ohio, February 20, 1897. MARSH & ELLIS, Printers, Yellow Springs, Ohio. When Writing Mention Florists' Exchange

WELCH BROTHERS, FLORISTS' SUPPLIES

18 Province Street, 9 Chestnut Place, BOSTON. Wire Design, Wheat Sheaves, Baskets, Immortelles, Cape Flowers, Cut Flowers, Boxes, and all other supplies, at prices to meet competition.

FOR MILDEW AND BLACK ROT

ON ROSES, FRUITS AND VEGETABLES. USE FOSTITE, 5 pounds, \$8.00. G. H. JOOSTEN, IMPORTER OF PLANTS, BULBS AND SEEDS, 193 Greenwich St., New York.

SHEEP MANURE

Cleaned and prepared expressly for Bartlett's use. You will find it the genuine article. G. COFREY ASCHMANN, 1012 Ontario St., PHILA. PA. When Writing Mention Florists' Exchange

THE BEST FOR ALL Florists. ROSE LEAF EXTRACT OF TOBACCO IN SECTIONS. FOR SALE BY Seed Stores. For Free Pamphlet, write to LOREYVILLE SPIRIT CURED TOBACCO CO., Louisville, Ky.

SHEEP FERTILIZER!

PULVERIZED. COMPRESSED. A Quick Germinator and Crop Forcer. NATURAL ODDLES. CLEAN TO HANDLE. JOHN J. PETERS CO., Long Island City, N. Y.

SAVE THE BLOOMS! NIKOTEN DOES NOT INJURE SENSITIVE PLANTS USED FOR FUMIGATION OR SPRAYING, INDOORS OR OUT. 200 POUNDS TOBACCO IN ONE PIVN WRITTEN. Price \$1.50. ALL SEEDSMEN. When Writing Mention Florists' Exchange

M. RICE & CO., FLORISTS' SUPPLIES.

Importers and Manufacturers of 25 N. 4th St., Philadelphia, Pa. NEW FALL CATALOGUE NOW READY

BEE & EARLER MANUFACTURERS OF FLORISTS' WIRE DESIGN. Telephone 1782 18th St. When Writing Mention Florists' Exchange

CHOCOLATE COOLER CO., GRAND RAPIDS, MICH.

Manufacturers of FLORIST'S REFRIGERATORS. Send for Circular. When Writing Mention Florists' Exchange

JOHN CONLEY & SON, MANUFACTURERS OF TIN FOIL

2 and 4 Dominick Street, NEW YORK. When Writing Mention Florists' Exchange

GALVANIZED WIRE PLANT STAKES

From \$5.00 per 1000 upwards. RUBBER HOSE From 6 cents per foot. H. F. LITTLEFIELD, WORCESTER, MASS. When Writing Mention Florists' Exchange

INDIAN BRAND NO ADULTERATION BONE FLUOR NO ACID. References: Fred Dunbar & Sons Co., La Fayette, Ind.; John H. Taylor, Barabie, L. I. N. Y.; Geo. Hill & Co., Richmond, Ind.; L. L. May & Co., St. Paul, Minn.; GEO. S. BARTLETT, 1255-1257 WEST 6TH ST., CINCINNATI, O. SUCCESSION TO CINCINNATI DESSICATING CO. When Writing Mention Florists' Exchange

A GOOD HOSE IS A GOOD INVESTMENT

The best is the cheapest. To ascertain what a hose is worth, divide the cost per foot by the number of years it will last. We are in the market to compete in number of years with anything that is manufactured. Price \$25. per foot for 1/2 inch, 100 cts. per foot for 3/4 inch, and 20cts. per foot for 1 inch hose. When Writing Mention Florists' Exchange

Florists' Supplies.

Largest Stock in the Country. All goods up to date, and of superior quality. Send for Illustrated Catalogue. H. BAYERSDORFER & CO., 56 N. FOURTH STREET, PHILADELPHIA, PA. When Writing Mention Florists' Exchange

The live Florist is now planning for next season. Are you? If so, or not, do not overlook the assailing features that might go with use of a set of

LONG'S FLORISTS' PHOTOGRAPHS.

INTENDED FOR USE IN TAKING ORDERS. NEW CATALOGUE FREE. Also a new and adaptable FLORISTS' CATALOGUE of Cut Flowers and Arrangements. CIRCULAR ON APPLICATION. DAN'L B. LONG, Publisher, BUFFALO, N. Y. When Writing Mention Florists' Exchange

LARGEST AND BEST STOCK OF PREPARED CYCAS LEAVES

TO BE FOUND ANYWHERE. Metal Floral Designs, Sheaves, Doves, Baskets, Moss Wreaths, Wheat, Milkweeds, Cape Flowers, Wire Work, and all Florists' Supplies. Write for catalogue. Free to the trade. A. HERRMANN, 404-412 East 34th Street (near Ferry), New York, Manufacturer of METAL FLORAL DESIGNS, Importer and Dealer in FLORISTS' SUPPLIES. When Writing Mention Florists' Exchange

"48 to 1."

"JADOO" LIQUID. Both Meat and Drink to Plants. Simply invaluable in Pot Culture. The Best and Cheapest Fertilizer Made. THE NEW MATERIAL IN WHICH "JADOO" FIBRE, Every Plant Thrives Without Earth, and which has proved as invaluable to the Grower as to Amateur Gardeners. TESTIMONIALS AND PRICES FURNISHED ON APPLICATION TO THE AMERICAN JADOO CO., 811 Fairmount Ave., PHILA. PA. When Writing Mention Florists' Exchange

Protected by U. S. Patent and Trade Mark. 811 Fairmount Ave., PHILA. PA. When Writing Mention Florists' Exchange

# FLORISTS' EXCHANGE

We are a straight shoot and aim to get the most vigorous plant.

A WEEKLY MEDIUM OF INTERCHANGE FOR FLORISTS, NURSERMEN, SEEDSMEN AND THE TRADE IN GENERAL.

VOL. IX. NO. 31. NEW YORK, JULY 31, 1897. One Dollar Per Year

## ..PALMS.. PALMS, FERNS, ORCHIDS,

Owing to our stock being grown with plenty of air the plants are all strong and sturdy, and will bear transportation for long distances. Florists intending to purchase this class of stock for their fall trade will do well to place their orders immediately, so that they can have them shipped by freight, thus avoiding the excessive express charges which they would have to pay if shipped during the cold weather. The prices will also be every much higher in the fall than at the present time, owing to the high duty which will then be in force.

**ARECA LUTESCENS.**  
 1 inch pots, 20-24 inches high, 3 plants in a pot.....\$3.00 per dozen; \$50.00 per 100

**KENTIA BELMOREANA.**  
 3 inch pots, 8-12 inches high, 4-5 leaves.....\$3.50 per dozen; \$25.00 per 100  
 4 inch pots, 12-15 inches high, 4-5 leaves.....\$5.00 per dozen; \$30.00 per 100  
 5 inch pots, 18-20 inches high, 5-7 leaves, stocky.....\$5.00 per dozen; \$35.00 per 100

**KENTIA FORSTERIANA.**  
 3 inch pots, 12-15 inches high.....\$15.00 per 100  
 4 inch pots, 15-18 inches high.....\$4.00 per dozen; \$35.00 per 100  
 5 inch pots, 20-24 inches high.....\$6.00 per dozen; \$75.00 per 100

**LATANIA BORBONICA.**  
 3 inch pots.....\$10.00 per 100  
 4 inch pots, 12-15 inches high.....\$3.00 per dozen; \$25.00 per 100  
 5 inch pots, 15-18 inches high.....\$4.00 per dozen; \$30.00 per 100  
 6 inch pots, 18-20 inches high, stocky plants.....\$5.00 per dozen; \$75.00 per 100

**COCOS WEDDELIANA.** 3 inch pots.....\$3.00 per dozen; \$25.00 per 100  
**LIVISTONA HOOGENDORPII.** 4 inch pots, 10-12 inches high, 7 leaves, \$4.50 per dozen; \$35.00 per 100.  
**LIVISTONA ROTUNDFOLIA.** 5 inch pots, 10-15 inches high, 7-8 leaves, strong plants, \$1.50 each; \$18.00 per dozen.  
**PHENIX RECLINATA.** 5 inch pots, 15-18 inches high.....\$3.00 per dozen; \$45.00 per 100

Dracenas, Ficus, Crotons, Araucarias, Bay Trees .

AND ALL THE LEADING VARIETIES OF DECORATIVE FOLIAGE PLANTS.

KENTIA SEEDS, \$7.00 per 1000.  
 SEAFORTHIA SEEDS, \$5.00 per 1000.  
 CANES OF DRACÆNA TERMINALIS, \$10.00 per 100 feet.  
 CYCAS REVOLUTA LEAVES, \$1.00 per pair.

## FRESH

**PITCHER & MANDA, Short Hills, N. J.**  
 JOHN N. MAY, Receiver.  
 When Writing Mention Florists' Exchange

**SIEBRECHT & SON,**  
 Rose Hill Nurseries, NEW ROCHELLE, N. Y.  
 When Writing Mention Florists' Exchange

## WINTER FLOWERING ROSES.

Our stock of these is very large, and in exceptionally fine shape. We offer at the leading varieties, strong plants in 2 1/2 in. pots, as follows:

**PERLE, BRIDESMAID, BRIDE and MME. CUSIN.** \$5.00 per 100; \$10.00 per 1000.  
**MME. CAROLINE TESTOUT and MRS. PIERPONT MORGAN.** \$6.00 per 100; \$50.00 per 1000.  
**AMERICAN BEAUTY.** \$2.00 per 100; \$20.00 per 1000.  
**PRESIDENT CARNOT.** \$15.00 per 100; \$125.00 per 1000

We have a fine stock, also, of the new climbing **YELLOW RAMBLER ROSE** The only hardy yellow climber rose yet introduced. A worthy companion to the wonderful Crimson Rambler. Strong plants, 2 1/2 in. pots, \$1.50 per doz; \$10.00 per 100.  
 Strong plants, 3 1/2 in. pots, \$3.00 per doz; \$25.00 per 100.

The above Rose Stock is in perfect shape and will please the most fastidious. Samples sent if desired. We invite inspection of stock.

In order to close out stock remaining on hand of **DOUBLE TUBEROUS BEGONIAS** we offer what stock we have as long as unsold at \$3.00 per 100; \$25.00 per 1000.  
 This is only the price of ordinary Single Begonias, and considerably below cost. We offer at the nominal price only in order to close out stock we have left.

We have a surplus of **TUBEROUS PEARL** Extra quality bulbs, 4-6 inches in circumference, perfect shape, 50c. per 100; \$4.00 per 1000.  
**SPEAK QUICK IF YOU WANT THESE BARGAINS.**

Our Whole sale List of Palms, Decorative Plants, etc., will be sent free on application.

**F. R. PIERSON CO.,**  
 TARRYTOWN-ON-HUDSON, NEW YORK  
 When Writing Mention Florists' Exchange

## 20 YEARS IN THE BULB BUSINESS.

NOW READY, FIRST ARRIVALS FOR OUR EARLY IMPORT ORDERS.

**WHITE ROMAN HYACINTHS.**  
**NARCISSUS,** P. W. Grandiflora.  
**FREESIAS,** Select and Mammoth.

**L. HARRISII** in all sizes.  
 "ALL FLORISTS' STOCK IN SEASON." WE MEAN IT.

## PANSY NEW CROP SEED.

VAUGHAN'S INTERNATIONAL PANSY MIXTURE.  
 This is the Pansy mixture for every Florist who would realize the highest prices for his flowers and plants. It contains the cream of the cream of every noted Pansy grower's product the whole world over. It includes, besides all the choicest German Pansies in their wide range of beautiful colorings, all the superior colors of the Giant Transients with their immense flowers and rich colors. It contains the Giant Center and Bugnet strains, the product of celebrated Scotch strains, the Pansie and Buzzone plants. In fact there is no strain of any of the celebrated Pansy Specialists not represented in our INTERNATIONAL MIXTURE. Price, per oz. \$10.00; 1/2 oz. \$5.00; 1/4 oz. \$2.50; trade pkt. 50c. (Less 10 per cent for cash).  
 14 Barclay St., **VAUGHAN'S SEED STORE** 84 & 86 Randolph St.  
 NEW YORK. CHICAGO.  
 When Writing Mention Florists' Exchange

SEASONABLE SEEDS!



PRIMULA FIMBRIATA

(Chinese Primrose)  
Rubra (Red), Alba (White), Alba Magnifica, Rubra Violacea, Chiswick Red, Meteor, Village Maid or Choice Mixed.

Trade Packages, 50c. and \$1.00.

CINERARIA

Hybrid Grandiflora choice mixed, Extra Fine Dwarf Mixed, Grandiflora, Kermesina, Du. Flowering.

Trade Packages, 50c. and \$1.00.

CALECOLARIA

Hybrid Grandiflora, choice mixed, Trade Packages, 50c. and \$1.00.

WM. ELLIOTT & SONS  
NEW YORK.

When Writing Mention Florists' Exchange

Fresh Seeds—Calla Bulbs

Apple Geranium (true), 25 cts. pkt.; \$1.00 per 1000 seeds; \$7.50 per 10,000 seeds.  
Marsk Kismet, 25 cts. 100 seeds; \$6.00 per 1000 seeds.  
Seaforthia Elegans, 40 cts. per 100 seeds; \$3.00 per 1000 seeds.  
Cyperus Alternifolius, 25 cts. per pkt. \$1.00 per 100 seeds.  
P. Texan Variegata, 50 cts. per 100 seeds; \$5.00 per 1000 seeds.  
Aloophylla Australis (Tree Fern), 50 cts. 1/2 doz.  
Send for prices on Calla Lilies, August and September delivery. Send for Trade List of Novelties and Specialties for Autumn delivery.  
MRS. THEODOSIA B. SHEPHERD  
Ventura-by-the-Sea, Cal.

When Writing Mention Florists' Exchange

BUY FROM THE GROWERS DIRECT  
ALL BULBS AND PLANTS

For Summer and Fall Delivery, Quoted at Very Low Rates.

FREE ON BOARD CARS OR BOATS  
NEW YORK CITY

HULSEBOSCH BROS., Englewood, N. J.  
When Writing Mention Florists' Exchange

Pansies Worth Raising

NEW CROP SEED OF THIS POPULAR STRAIN.  
3-16 ounce..... \$1.00  
1/2 "..... 2.00  
1/4 "..... 4.00

CASH WITH ORDER.  
E. C. Soltan & Co., 190 Grant Jersey City, N. J.  
When Writing Mention Florists' Exchange

VAUTIER'S  
MAMMOTH PANSY.

New crop seed now ready. This is the largest and finest Pansy ever offered. Mr. Vautier has been over 20 years perfecting this strain. We are accumulating our plants from all parts of the U. S. Springing in its size and merit. Trade pkt. \$1.00; or 100,000 seeds, \$1.00. N. G. FAUST & CO., Philadelphia, Pa.  
When Writing Mention Florists' Exchange

FOR SALE ON DOCK, DUTY FREE.  
10,000 BERMUDA LONIFLORUM.  
Appt. at once to James K. Empe, 655 W. Boulevard, N. Y. City. Adm. Fresco and Buttercup Odors.  
When Writing Mention Florists' Exchange

**BURPEE'S SEEDS**  
PHILADELPHIA  
WHOLESALE-PRICE LIST FOR FLORISTS AND MARKET GARDENERS  
When Writing Mention Florists' Exchange

**TURNIP SEED.** ALL VARIETIES  
CUCUMBER SEED, Best kinds for Pickling  
First consignment of our "SURE CROPP" ENGLISH MUSHROOM SPAWN just arrived. Quality better than ever. Prices right to Dealers.  
WEBER & DON Seed Merchants and Growers.  
114 Chambers St., NEW YORK CITY.  
When Writing Mention Florists' Exchange

**CLUGAS & BODDINGTON CO.,**  
Importers, Exporters and Growers' Agents of Plants, Seeds and Bulbs,  
601 and 503 W. 13th St.,  
Telephone Call, 403 15th St., NEW YORK CITY.  
When Writing Mention Florists' Exchange

**PANSY SEED**  
If you want the finest large and fragrant Pansy flowers try Woodbury's noted seeds. A FINE ASSORTED COLLECTION, 50c. Finest German and Giant dwarfed French strains, blended, or either separate, 2000 seeds, 50c.; 1/2 oz. \$1.00; 1 oz. \$2.00; 1 lb. \$10.00.  
DAVID B. WOODBURY, Pansy Specialist  
SOUTH PARIS, MAINE.  
When Writing Mention Florists' Exchange

**ROEMER'S SUPERB PRIZE PANSIES**  
The finest strain of Pansies in the World.  
Introducer and Grower of all the leading Novelties.  
His best Award, International Exhibition London, 1883. Largest tree on application.  
FRED. ROEMER, Seed Grower, Quedlinburg, Germany.  
When Writing Mention Florists' Exchange

FOR AUGUST DELIVERY.

**DAHLIA**  
Seed ON HAND  
Kettle Bismarck, 125 1000 2000  
"Polaris", 125 1000 2000  
"Polaris", 125 1000 2000  
"Polaris", 125 1000 2000  
Above prices are for selected seeds only of higher growing varieties.

J. L. SCHILLER, Rutherford, N. J.  
When Writing Mention Florists' Exchange

PANSIES

THE JENNINGS' STRAIN  
of finest American grown Pansy seed; new crop now ready, saved from the very finest selected plants ever growing, in great variety and most splendid colors; without doubt the finest strain in the market to-day. The following complimentary letter is one of many received every year:  
"BUFFALO, N. Y., June 28th, '97.  
MR. E. B. JENNINGS, Dear Sir: The Pansy Seed supplied by last A. S. has proved the finest of pansies I have ever seen. They were uniformly first-class. Send me one of each year best mixed as soon as you are ready. Respectfully yours,  
"I try a packet of Jennings' finest mixed strain and you will not be disappointed. Finest mixed, per pkt. of 2500 seeds, \$1.00; \$6.00 per oz.; \$3.00 per 1/2 oz.; 2 oz. \$10.00. White, snow, black and blue, in separate colors, \$1.00 per pkt.; \$6c. per 1/2 pkt., ready by mail. Write for Prices to Seedmen on application. Cash with order."  
E. B. JENNINGS, Lock Box 5, Southport, Conn. GROWER OF THE FINEST PANSIES.  
When Writing Mention Florists' Exchange

CYCLAMEN PERSICUM GIGANTEUM.

NEW CROP SEED JUST RECEIVED.

OUR supply of this important Florist flower is grown especially for us by the most successful cultivator in Europe. Each variety is grown in a separate house insuring purity of color. We can supply in the following distinct colors.

Pure Snow White	Per 100 seeds	\$1.25	Per 1000 seeds	\$10.00
White with Carmine Eye		1.25		10.00
Deep Rose Color		1.25		10.00
Brilliant Blood Red		1.25		10.00
Choicest Mixed Colors		1.00		8.00

250 Seeds or over at 1000 rate.



NEW CROPS OF FANSY, PRIMULA, &c., EXPECTED DAILY.

Send for our Wholesale Price List of Seeds, Bulbs, Plants, &c.

HENRY A. DREER, 714 Chestnut St., Philadelphia, Pa.  
When Writing Mention Florists' Exchange

F. E. McALLISTER CO.  
SEED AND BULB MERCHANTS,  
69 CORTLANDT STREET, NEW YORK.

Seasonable Florists' Flower Seeds.

Primula sinensis Fimbriata, blue or white magnifica. Bright red, rose, blue or mixed. Per Trade Pkt., (200 seeds), \$1.  
Cineraria James' Giant Strain. Highly recommended by all who have grown it. Per Trade Pkt., \$1.  
SWEET SPRING, RUSTIC BASKETS'S, SPRECKLING CANS, HAZELWOOD CANS, and all other kinds of Florists' Requies always on hand.  
--- Add also ---  
Communications to JOHN S. GARRISON, Assignee, 69 Cortlandt St., N. Y.  
When Writing Mention Florists' Exchange

**FREESIAS! FREESIAS! FREESIAS!**

Callas, Callas, Callas Ethiopica, and Improved Little Gem.

We also offer until sold  
FRESH SEED GORYPHA AUSTRALIS, FRESH SEED SEAFORTHIA ELEGANS,

Delivered at \$2.75 per 1000 to clear stock. Cash with order. 100 seeds for 50 cts.

SEND FOR OUR NEW PRICE LIST. Send us list of wants and will estimate for you. Prices given on all Japan, California, French and Dutch Bulbs, Seeds, Plants and anything pertaining to the Florists' Line.  
Address, H. H. BERGER & CO., 220 Broadway, New York.  
Branch Office, San Francisco, Cal. (Established 1878).  
When Writing Mention Florists' Exchange

KENTUCKY BLUE GRASS (POA PRATENSIS).  
CHAS. E. PRUNTY,  
MAIN AND MARKET, SAINT LOUIS.  
When Writing Mention Florists' Exchange

HEADQUARTERS FOR Prize-Winning  
Callas and Freesia Bulbs DAHLIAS

PAMPAS PLUMES, AN UNPRECEDENTED RECORD.

Please let us book your orders for BULBS at once. . . . .  
ASK FOR SPECIAL PRICES.

GERMAIN FRUIT CO. Los Angeles, Cal.  
When Writing Mention Florists' Exchange

W. P. PEACOCK,  
Dahlia Specialist, ATCO, N. J.  
When Writing Mention Florists' Exchange

SEEKING REPORT.

Points and information from seedmen, and all interested in this column, solicited. Address Editor, Sixty-Nine Street, Florists' Exchange, P. O. Box 107, New York.

New York, N. Y.—More than thirty cities have just received some forcing bulb importations: full assortments of White Pinks, Southerly Hyacinths, and Gladioli, etc. Paper White grandiflori arriving last Monday on the steamer La Touraine. The Massachusetts opened up in very fine order.

The steamship, Orizaba, from Bermuda, La Touraine, from Havre, and the Massachusetts from London, arrived too late to clear before the new tariff law took effect. Two other steamers brought large cargoes of bulbs, and one large shipment of mushroom spawn. The La Touraine's Captain arrived at the custom house only four minutes late. This and the failure of a large quantity of the Roman Hyacinth. Consignees were F. R. Robinson, J. O. Vaughan, W. Ellis, J. S. North, J. Henderson & Co., and R. Dowling & Co.

Weeder & Doo received a large shipment of mushroom spawn. Sioux City, Ia.—The assets of the Sioux City Nursery and Seed Company, which have been in the hands of the court for the past year, will soon be either sold at private sale or at auction. The court was disposed to think that it would be better to sell the property than to hold it for another year as it was remarked that the creditors were almost unanimously in favor of the sale and of the stock being sold. The court fixed the date for the sale at July 30. The receiver will advertise for bids for two of the property in Iowa and in Michigan and the bids will be submitted to the court. If they are not satisfactory, then the property will be sold at public auction.

European Notes.

Nature's Treatment.

Nature's treatment is evidently bent upon assisting to put business once more on a fairly solid basis by checking and preventing the superfluity of supply. Only ten days ago it appeared as if some of our annual crops, both of vegetable and flower seed, would simply disappear in proportion to the average under culture. To-day we know that this is impossible. It is caused by the drying of the seeds, and by blanching sunshine, (as much as thirteen hours per day in London) and by the reaction in the direction indicated has received a severe and apparently permanent check. All over the seed grounds of Europe, the same conditions prevail. The bloom is dropping prematurely, and in many cases the seeds are so badly checked that no crop can possibly be formed. Sweet peas and even wintergreens are suffering badly, while the latter are being completely killed. Of course, a good rain would start the two latter affords, but sweet peas are bound to go on dry land.

Cress, spinach, mustard, and radish are being considerably lightened, particularly the latter; the latter seeds only showing four or five grains.

The seeds of cress are very much lighter so to present circumstances, and that is to be found in the fact that early ripening varieties such as the cress, lettuce, cabbage, turnip, rutabaga, and rape are all being harvested in the driest portions of the country. To be sure, the seed will be small, but it will be sound and capable of retaining its vitality.

It is being managed by sowing badly, both from the white worm and the beat. Carrot and onion continue to go back.

Har for 1897 is in the balance to-day, another week will decide their fate.

EUROPEAN SEEDS.

The Tariff.

An item omitted from the free list on our last week's issue, is:

Fruit plants, tropical, and semi-tropical, not for the propagation or cultivation.

Burpee's Sw of Pea Tests.

In our last week's issue we made an error in our pea tests devoted to each trial of sweet peas at Fordhook Farm (W. Atlee Burpee & Co.). Instead of four double rows of 15 feet each, or 30 feet to a trial,

ANTHEMUMS.

The plants intended for cut flowers must be looked after frequently, and side growths taken off. The number of flowers wanted, the leaders, either one, two, or three, as the case may be, must have all the strength they can possibly get, and all surplus growth, side shoots, suckers, and summer buds must be taken off as soon as they can be reached.

Some varieties are now producing these summer buds. One of these Mrs. Henry Robinson. Where this occurs in most cases two or three breaks will come, and these must be reduced to one—the strongest leader. If long enough, this should be brought up to the stake when soft, so as not to make a bend in the stem.

There are few varieties which show at this time black spot. Where the foliage becomes affected, it ought to be taken off and destroyed. Last year E. M. Bigelow was heavily affected with it. (U. S. Consul) over also showed it, but as the lower leaves are not needed and every day makes the winter flowers many stand more robust, the plants will soon grow over the black spot.

I find it only attacks certain varieties, others may stand diseased plants and resist the disease.

The most plants must also be frequently looked over and pinched back. The long-jointed growers I generally pinch for two or three times, and repeat again and again till the end of August. For compact growers, like Fred Walz, I pinch once or twice, as they will better perform themselves in good-shaped plants, but that class ought not to be pinched much after the 15th of August, or a little more time to make nice flowering stems, so as not to look straggled, which might happen if you keep pinching later than that date.

CATALOGUES RECEIVED.

DAVID B. WOODBURY, South Park, Me.—Trade List of Pea Seeds.

J. B. WOODS, Weymouth, Italy.—General Catalogue of Bulbs and Plants.

LETTELLER & FILS, Can, Calvados, France.—Price List of New Hybrid Cineraria, Boule-de-Négres with pure white flowers.

FOREST SEED. 50lbs White Pine Seed for men also Birch Seed, Holm Elm, Scarlet Maple, White Ash, etc. Price sent on application. Please send in orders before for collecting.

SPECIAL BARGAINS IN PLANTS. White and Double English Buttercups, \$1.20 per 100. Double English Ranunculus, \$1.20 per 100. Double English Ranunculus, \$1.20 per 100. Double English Ranunculus, \$1.20 per 100. Double English Ranunculus, \$1.20 per 100.

2000 PRIMAVERA SINENSIS. (Chinese Primrose) In separate colors. Seed imported from a leading specialist in Germany. Strong plants to 2 1/2 inch high, \$4.00 per 100. Terms cash.

HUGO BOOK.

1082 MAIN ST. WORCESTER, MASS.

When Writing Mention Florists' Exchange

PANSIES.

Bugnot, trade pkt., 25c. 100, \$20.00. Giant Trirangula, yellow, trade pkt., 25c. 100, \$20.00. Giant Trirangula, red, trade pkt., 25c. 100, \$20.00. Casper, trade pkt., 25c. 100, \$20.00. Myosotis alpestris, mixed, 100, \$10.00. Bicolor, trade pkt., 25c. 100, \$20.00. C. J. Van der Meer, trade pkt., 25c. 100, \$20.00. C. J. Van der Meer, trade pkt., 25c. 100, \$20.00. C. J. Van der Meer, trade pkt., 25c. 100, \$20.00.

...PANSY SEED...

Mixed together of Bugnot, Casper, Odeur, Trirangula, and many other varieties. Price per packet, \$2.50. Price per 100, \$25.00. Price per 1000, \$250.00.

7000 Primavera, single, mixed colors, \$2.50 per 100. C. J. Van der Meer.

JOS. H. CUNNINGHAM, DELAWARE, OHIO. When Writing Mention Florists' Exchange

JOHNSON & STOKES KINGLY GIANT PANSIES.

OUR PRIZE GOLD COIN COLLECTION OF KINGLY PANSIES cannot be surpassed in size of flower, perfection of bloom, or for the variety of markings or richness of coloring.

We Offer \$50.00 in Gold Premiums for the Largest Pansies. We know that no "Kingly Collection of Giant Pansies Mixed" we have as the strain of seeds is it is possible to produce. To stimulate an effort to show off their best, we offer the following GOLD PRIZES:

\$25.00 in Gold for the Largest Pansy.	1.00 in Gold for the Next Largest.
5.00 in Gold for the Next Largest.	1.00 in Gold for the Next Largest.
1.00 in Gold for the Next Largest.	2.00 in Gold for the Next Largest.
1.00 in Gold for the Next Largest.	1.00 in Gold for the Next Largest.
1.00 in Gold for the Next Largest.	1.00 in Gold for the Next Largest.
1.00 in Gold for the Next Largest.	1.00 in Gold for the Next Largest.

CONDITIONS OF COMPETITION. Competition is open to all persons of age, or J. R. S. Kingly Collection of Giant Pansies. Inside of each packet is placed a card, on which the flower must be carefully mounted and pressed. Seeds sent to us on or before October 1, 1897.

BULBS. Write us your wants We can list you in price.

JOHNSON & STOKES, 217 & 219 Market Street, PHILADELPHIA, PA.

FREESIA REERACTA ABA!

GUARANTEED PURE WHITE. Bulbs 1/2 to 1 1/4 inch diam., 100 per 1000. Bulbs 1/2 and 1 inch diam., \$7.50 per 1000. Cash with order from unknown parties. Prices on all other bulbs and plants by correspondence.

Write for Price List. F. W. O. SCHMITZ, Jersey City, N. J. When Writing Mention Florists' Exchange

ALLEN'S DEFANCE MIGNONETTE

Seed, \$1.25 per 1/4 ounce. Plants, \$5.00 per 1000; 75c. per 100; 2500 for \$10.00.

ALBERT M. HERR, LANCASTER, PA. ARE THE BEST. When Writing Mention Florists' Exchange

ALLEN'S DEFANCE MIGNONETTE

New Crop, Growing Outside and Looking Fine, will be Ready August 1st. This stock is all grown from special selected plants and is sure to prove good under proper treatment. \$1.00 per 100; 50c. per packet. See list in the original catalogue.

CHARLES H. ALLEN, FLORAL PARK, N. Y. When Writing Mention Florists' Exchange

L. LAUBER & SOHN, WHOLESALE DEALERS...

FRANKFURT a/Main, GERMANY.

EXPORTERS of all kinds of Natural Flowers, and IMPORTERS of Blueuses, Orchards, etc. SPECIAL OFFERS ARE REQUESTED AND MAY LEAD TO LARGE TRANSACTIONS. When Writing Mention Florists' Exchange

NEW CROP SEED NOW READY

SEED + SEED ZIRNGEBEL'S STANDARD PANSIES

ROEMER'S SUPERB PRIZE PANSIES. This strain includes all the leading novelties known, Casper, Bugnot and Parlatin mixtures. The quantities of these varieties are limited. Now as regards a description of the varieties: 1000 per packet, \$25.00; 500 per packet, \$12.50; 100 per packet, \$2.50; 50 per packet, \$1.25; 10 per packet, \$0.25. Plants ready September 15th. Cash with order.

PETER BROWN, Wholesale Pansy Grower, LANCASTER, PA. When Writing Mention Florists' Exchange

GIANT MARKET and GIANT FANCY STRAINS, in trade pkts., at \$1 each. Printed directions with every packet. DENYS ZIRNGEBEL, Neudamm, Mass. When Writing Mention Florists' Exchange



Fig. 2.—Newport's Gardens—Vineyard.

### Newport's Gardens.

Ochre Point which is one of the finest sections of Newport, remained longer unoccupied as a residence portion than any other part of the cliff lands of similar area. For a long time it was not in the market, and when it was mentioned for the uses to which it is now put, men shrugged their shoulders and said it was too far away, though some admitted that the time might come, as Newport kept growing as it had done, when it would come into the market. All this was but a few years ago, and now the transformation has been so complete that every inch of the territory is included in the villa sites of some of the wealthiest and most aristocratic families of America. One of these is that of Mr. John J. Van Alen, which is on the westerly side of the street and so not bordering directly on the sea. It occupies a whole square and is surrounded by a high and massive granite wall as if built for defence in time of war rather than for mere ornament. An attempt was made to cover this wall with *Euonymus scandens variegata*, but, though enduring the climate, it grew so slowly, and so obstinately refused to fulfill some of the promises made in its behalf, that it proved a failure. After several years' trial, the effort has been abandoned, and other climbers substituted as the chief dependence. This plant is valuable for many purposes, but covering high walls does not appear to become of them. Tree-trivays sweep around to the residence shown in the picture which is also of massive stone and said to be in its general style and appointments a copy of a favorite English country seat of some renown. Within, on either side of the gate, there is some good planting in masses of shrubs, including many of the species and varieties of native and foreign origin.

Southerly from the house is "the sunken garden," the prominent feature of which are shown in the illustration (fig. 1). It consists in an excavation of a few feet below the level being reached by stone steps from the ends and sides, and such a preparation of the soil and bed of flowers as is called for in such a location. Here, whether the winds blow high or low, all is calm as in a May morning. The observer at this point looks down and up, and upon the tops of the beds of flowers instead of at the usual angle. It is a pretty conception and suggestive of broader opportunities in other exposed locations. The whole place has much the appearance of a park well planted and cared for.

"Across the street but not directly opposite the Van Alen gateway is the entrance to "Vineyard." As will be seen by the illustration (Fig. 2), the lodge is a choice bit of miniature architecture with surroundings befitting the situation and affording a suggestion of the horticultural treasures within. The vines shown on the cottage are what we know as the wild grape, *Vitis vulpina*, and it cannot be denied that this home production is exceedingly well fitted to the purpose to which it is put. The cottage stands a little back from the street line and the privet hedge which borders the highway curves inward to the building. This leaves a small space such as in most cases might have been left vacant. But not so here. It is occupied by a bed of choice evergreens, a portion of which only is shown. An originally arranged, there was a border of low-growing retinosporas, such as *R. graciloides* and *R. obtusiana*, behind which, steadily increasing in height, stood rows in various shades

of color to the last, which constitutes a wall of dark green including such plants as *Faxus laucata*, junipers, and others harmonizing in color as well as in proportion. Most of the darker plants at the right are silver-tipped retinosporas, while among those of a lighter shade, *R. plumosa aurea* predominates. Some, however, are what are known as Chinese golden arbor vitas, *Thuja orientalis elegantissima*, or *Biota orientalis aurea*, which name is here most in use and greatly to be preferred, and for which there is abundant authority. The silver-tipped *Biota* also appears in this group and is very effective here as well as elsewhere. These plants are not supposed to be sufficiently hardy for our northern climate, and they are not without slight protection from high winds and extreme cold. But the lover of beautiful foliage plants can well afford extra care and trouble for the sake of best results. None of the Newport gardens would be what they are, if, when planted, they

were not given more than ordinary care and attention, both in arrangement and preservation. It is safe to say that any one may get as much or more for his outlay with this choice and more costly specimens with the additional care required, than with the use of only those which need no looking after. When this group was put out, I ascertained by actual count that it contained 190 of these small conifers, though as the years have passed and they have increased in size, the thinning-out process has greatly diminished the number, and there still a further call for depletion. It is always well in planting such groups to put them so thickly that they may assist each other in their war with the elements and whatever adverse conditions that may exist, and that in a season requires, remove to other locations the surplus stock, when it will often be found that the value of the plants removed, now of larger size, will equal the first cost of the original outlay. The danger is, in such cases, that the thinning-out process may be too long delayed, and so when attended to, the plants taken away as well as those that remain are practically spoiled. There are specimens in these very grounds within which are rendered practically worthless for either the position which they now occupy or any other in which they might be placed, through having been overcrowded during the past few years. This is a failing with owners of estates, gardeners and florists everywhere, and it is safe to say that a majority of the villa grounds of Newport are suffering from this cause.

The next estate in part opposite the Van Alen grounds, and to the south of "Vineyard," is that of Cornelius Vanderbilt, the most magnificent of any in the city, of which I may speak more in detail later. Here literally, millions of dollars have been expended in building and equipping a summer home, and the three estates standing together, with that of Ogden Goeckel adjoining northerly, doubtless make this the richest field for horticultural study and inquiry, on private grounds in America. These gardens bear little resemblance to each other as a whole, though it is evident that "Vineyard" and the "Breakers" came from the same school of landscape art architecture, if not from the same hand, which is the fact.

The other estates on Ochre Point, though not embracing so many acres, are equally well planted and worthy of study. They are all enriched in their season with plants from the conservatories, though of these I have said nothing, as they constitute a theme by themselves. Newport is proud of her florists, as well as her floral decorations and their profession.

L. D. DAVIS.

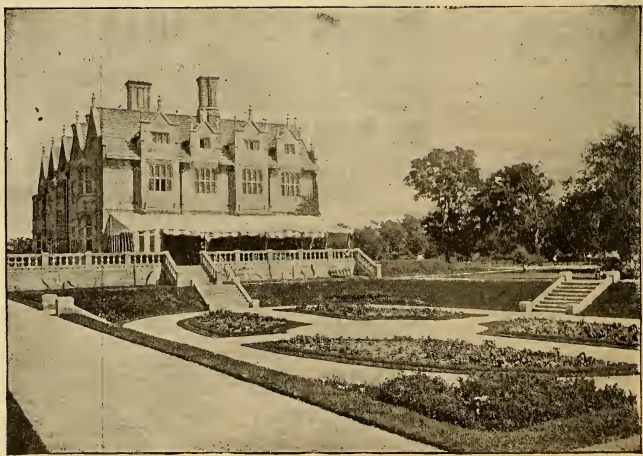


Fig. 1.—Villa of Mr. John J. Van Alen, and Sunken Garden.

CARNATION ROS.

Buttercup.

Ordinarily Buttercup is not profitable, still it is grown by a good many, and perhaps by the majority merely for the sake of variety. Its grand color alone might be said to be responsible for its existence to-day. It being in commerce now we need to locate years.

Many carnations have been disseminated since this variety first made its bow, and have passed out of cultivation and are forgotten. Many of these were of better habit and much more profitable than Buttercup, but the latter, with its perfect color, still stands and will continue to hold its present position until we find its equal or superior in color, vigor and health.

We have a number of yellow carnations, the majority of which are better grown than is Buttercup, but none are its equal in color, so if we make color the standard to judge by, Buttercup must still be regarded as the best yellow. But if we look at it from a commercial standpoint, several candidates present themselves, which, under ordinary culture, will outlast it.

It appears a little strange that in all this time we have not been able to improve upon, or equal, the color of Buttercup. Other colors have been improved to a much greater extent, and why yellow should lag behind is a subject that might prove interesting if investigated. It must be admitted, however, that in the past few years this color has received more attention at the hands of hybridists, and, as a result, we have Eldorado, Mayor Eugene and others, which may assist in producing a successor to Buttercup. In addition to those many seedlings have been produced, and also seedlings, some of them pure yellow, showing no markings at all and which, while they may not be counted as awards of this exhibition, may prove of value for further crossing.

If it appears as if the present activity among hybridists continues, we may in the near future behold Buttercup's successor, and the best specimen of growing this variety should give it the special treatment it demands, and it will probably be the one to win the many features that are constantly reported.

It used to be our practice to place the plants in a cold bed, as many perhaps still do, and as usual a large number would die before housing them in the house, or they would die during the course of the winter.

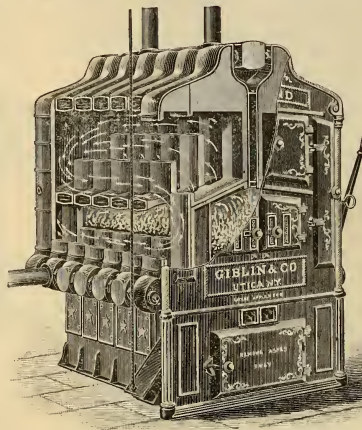
I am not prepared to state with certainty the reason for this, but believe it to be due largely to changes in temperature and excessive moisture in the soil. The latter, I believe, is quite a factor in producing the disease peculiar to Buttercup.

When planted in clay soil, which is, as a rule, stiffer, higher and drier, than lighter soils, the percentage of diseased plants is perceptibly smaller. Noting this difference, and ascribing it to the above causes, we responded to Buttercup with a possible means of growing Buttercup with profit. If sudden changes, washing rains, heavy dews, or a heavy frost without snow showing when planted outside, certainly the greenhouse was the proper place to grow it, for under these elements were quite under our control.

Our first experience with indoor culture was to produce in a cold bed, but also to improve over field-grown plants. I judged, however, that the soil had contributed to do with this, if we made entirely too light. The following year this was corrected, and instead of using a light soil, we used a heavy loam with about much manure, but with plenty of bone meal. I found it much better to allow the plants to get well established, and then give liquid manure instead of adding much manure to the soil. It seems to me better to put the soil without a great deal of humus, and continuing on these lines, Buttercup has scarcely a plant will die in an entire season, and I continue to grow it in a cold bed, and find that it is doing much better and yielding better than my yellow we have, and it is not so liable to rot. With Buttercup it seems extremely liable to stem rot, and under ordinary treatment, it is almost completely gone when the causes are removed, and under all circumstances it seems to be almost impregnable to stem rot.

H. WEBER.

NEXT WINTER...



PROFIT

Rev. W. V. NOLAN, Rector of the Pro-Cathedral, Sioux Falls, South Dakota, March 8th, 1897, says:

"The No. 65 Standard sectional hot water heating apparatus put in our parlor residence is most satisfactory. It heats the entire house even at the coldest season. We have had it 26 DEGREES BELOW ZERO, and that was sufficient to give it a fair test."

Our estimate and full information with prices can be had for the asking. Where we have no boiler, we will use the first order receives a SPECIAL ALLOWANCE.

at the end of the season. Our heaters can be erected for efficiency, economy and simplicity, and that they do good work in cold weather is shown by the following:

GIBLIN & CO.  
UTICA, N. Y.

CHANGES IN BUSINESS.

WHITE HALL, Ill.—(Carl G. Krieger has leased for a number of years from E. W. Von Beckmann the establishment known as the Green County Floral Nursery, and intends to conduct a wholesale cut-flower and bedding plant business. Cuttings and cuttings should be addressed to him.

SPARTA, Wis.—The greenhouse of N. Grevdahl has been transferred to Miss Marian Jewett for a consideration of \$2,500. Mr. Grevdahl has gone to points in the northern part of the state where he will either make a purchase or start a greenhouse.

Grossdale, a German florist of Lyons, hanged himself on July 14, in a barn at the rear of his home. He leaves a widow and three children. Financial and family trouble was said to be the cause.

FINEST STOCK OF FIELD GROWN CARNATIONS

Of new and standard varieties, ready September and later. You have never tried our Carnations do so this year. Our climate is unsurpassed for their successful growth in the field.

Geo. HANGOCK & SON, Grand Haven, Mich.

When Writing Mention Florists' Exchange

EDW. J. TAYLOR,  
Wholesale  
**Carnation Grower,**  
SOUTHPORT, CONN.

ROSES, CARNATIONS.

I still have a nice lot of Herbe and Heidelberg Rose, 3 inch pots, \$3.00 per 100. Will have the most lot of best Germanias. 1 rose bud, for 50 cents. Delivery. Write your wants and get a low price for stock.

Will also have a nice lot of PRIMA L and a lot of the most standard roses. Write for price list of pot plants of A. F. BELL, W. H. HERTZ.

Geo. M. EMMANS, Newton, N. J.

When Writing Mention Florists' Exchange

FIELD-GROWN CARNATIONS

Good, strong, healthy plants. Write for kinds and prices. Delivery after Sept. 10th.

LOGAN AVF. GREENHOUSE, Danville, Ill.

When Writing Mention Florists' Exchange

GRALLERT & CO.  
**CARNATION GROWERS**  
COLMA, SAN MATEO CAL.  
U.S.A.

When Writing Mention Florists' Exchange

Harrison's White CARNATION.

New Carnation, sport from Wm. Scott.

JOHN HARRISON,  
739 Bergen Ave., Jersey City, N. J.

When Writing Mention Florists' Exchange

**CARNATIONS**  
F. DORNER & SONS CO.,  
La Fayette, Ind.

When Writing Mention Florists' Exchange

CHRYSANTHEMUMS!

2 1/2 Inch Pots, \$3.00 Per 100.

Pin Ivory, Mrs. J. G. Whitlin,  
White Ivory, Fride of Castlemore,  
Mrs. H. H. Battles, M. Wannamaker,  
H. G. Wideoor, Sybil Kaye,  
Mrs. J. Jones, Mary Monarch,  
M. F. L. Jones, Marie L. Jones,  
Mutual Friend, Ella Press,  
Mrs. F. Bergmann,  
M. G. Honnaff, Vivand Lincoln,  
Maud Dean, W. H. Hinesol.  
The above plants are in good growing condition

ADAMTUM CUNEATUM, 3 in. pots, \$5.00 per 100.  
ADAMTUM FERMOSUM, 3 in. pots, \$5.00 per 100.

EVJENNEN BROS. Williamsport, Pa.

When Writing Mention Florists' Exchange

Thanks.  
Yellow Marguerite all sold that are wanted. Thanks to the Exchange. HENRY NEENEK, Gouvarneur, N. Y., Feb. 8, 1897.

CHRYSANTHEMUM PLANTS ALL SOLD.

FIELD CARNATIONS in September.

JOHN HACKETT & CO.,  
624 St., near Elmwood Ave., PHILA., PA.

When Writing Mention Florists' Exchange

CARNATIONS ALL SOLD. SEND FOR LIST OF

CHRYSANTHEMUMS If not already received.

H. WEBER & SONS,  
P. O. Box 87, GAILLAND, Md.

When Writing Mention Florists' Exchange

CHRYSANTHEMUMS

Twenty-five best varieties for cut flowers: Pink, White and Yellow, at \$3.00 per 100; \$5.00 per 100; any selection, from pots.

R. H. MURPHY, Urbana, Ohio.

When Writing Mention Florists' Exchange

CHRYSANTHEMUMS FOR BENCHING.

Glory of Pacific, Lady Fitzgibbon, Antanan Bride, Wm. Stinson, \$3.00 per 100.  
Marion Henderson, Marquis de Montmory, Yellow Queen, Geo. W. Childs, Miss. Felix Parrot, Mutual Friend, Pink Ivory, Lady Play fair, Georgienne Framboise, E. DuRoi, Helon Woodstock, Mrs. Jerome Jones, \$3.00 per 100.  
Deduct 6c. per 100 on orders of 250 plants or more.

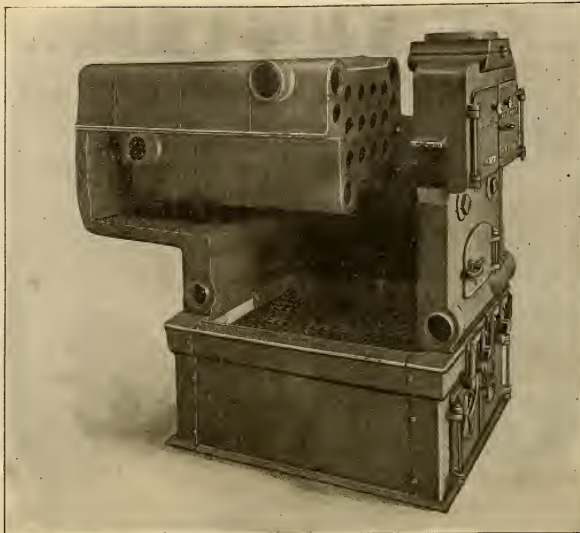
A COMPLETE LINE OF NOVELTIES FOR '97

Anemones, Pompan Anemones, Pompano, 10c. and many varieties.

Send list of wants for lowest cash price.

NATHAN SMITH & SON, Adrian, Mich.

When Writing Mention Florists' Exchange



Hitchings &amp; Co.'s New Boiler—Sectional Cut Showing Interior.

### New Greenhouse Boilers.

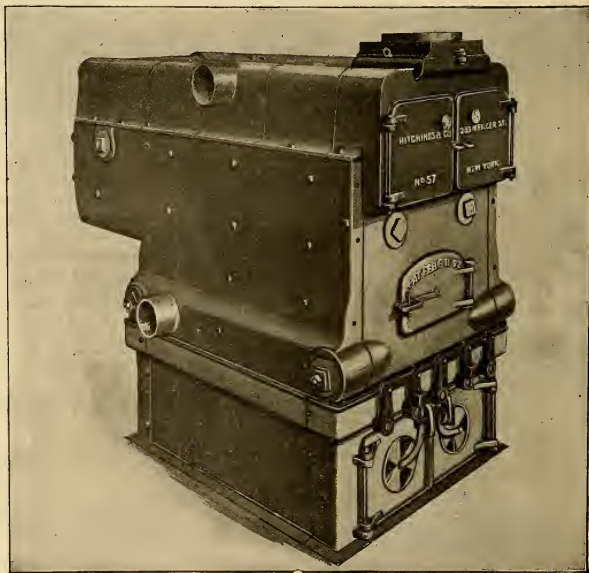
This year some of the New York boiler manufacturers are placing on the market new styles of boilers. Among these is No. 57, made by Hitchings & Co., 233 Mercer Street, of which, through the courtesy of the firm, we present the accompanying illustrations. The boiler is equally serviceable under either the open circulation or the high pressure system, each boiler being tested under a high pressure before leaving the factory. These boilers, the firm says, have been in use during the past two years under heavy service, and have proved themselves equal in efficiency and in economy of fuel to the widely known "Corrugated Firebox" boilers, and have the especial advantage of being "sectional," which admits of their being easily handled. These boilers have nine water sections, each section subjected to a hydrostatic pressure of 160 pounds to the square inch, the joints are of the same material as the boiler (best cast-iron of high tensile strength), accurately fitted and are absolutely indestructible. The grate has 8½ square feet of surface, the fire-box is deep, with adjacent chambers assuring perfect combustion. The draught is regulated by a graduated cold air damper to suit various chimneys and the work to be done.

The length of No. 57 boiler is 62 inches, width 49½ inches, length 76½ inches, weight 4,700 pounds, height to center of flow sockets is 25½ inches, to center of return sockets 23½ inches. The sizes and positions of flow and return sockets may be varied to suit special requirements. The boiler is provided with grates suitable for the consumption either of egg or pea coal as may be preferred.

The Lord & Barnham Company of Irvington, N. Y., and 160 Fifth Avenue, New York City, are bringing out some new boilers adapted for heating greenhouses and residences, which are shown on the accompanying illustrations. Their Standard boiler has been on the market for 29 years, but recent improvements to increase its efficiency have led to the construction of an entirely new set of patterns, in which an increased fire surface is provided, as well as a fire travel which is designed to extract the principal heat

from the products of combustion previous to their exit. Fig. 1 shows a vertical section of the boiler, looking towards the front, from which it will be seen that a large surface is exposed to the direct radiation from the fire. In Fig. 2 the fire travel is shown, the gases rising from the fire at the front of the boiler and passing under a thin, flat, horizontal water chamber to the back of the boiler, where they rise again and pass under the dome of the boiler to the smoke outlet at the front. This construction provides an ample combustion chamber and a sufficient depth of fire chamber to permit of a sufficient body of fuel to carry a fire through long winter nights. The flow and return connections are made by means of flange joints, so that the heater may be readily disconnected for making changes. The grate is of a construction to be readily operated and at the same time promote combustion by permitting a free entrance of air to the fire. The boiler is made in four sizes, presenting respectively 2, 2½, 3½, and 5½ square feet of grate surface, and rated to carry 450, 650, 1,050 and 1,650 feet of 4-inch pipe, which is approximately equal to the same number of square feet of surface in the form of radiators. Two larger sizes of the heaters are arranged to be set in pairs, when they are rated to heat from 2,100, 2,700, and 3,300 feet of 4-inch pipe.

Another new boiler of the sectional type is shown in Fig. 3, which is a broken view showing the construction, the fire travel and the arrangement of the heating surface. The sections are mated by means of a machine-finished surface, into which small grooves are milled, which are brought up tight against asbestos gaskets by means of a long tie rod running through the sections, as shown, which, it is said, secures a perfectly tight joint with little labor. The intermediate sections consist of a water leg forming the side of the ash pit and fire chamber, and at a sufficient distance above the fire line to permit of an ample combustion chamber, and three slanting waterways, one above the other, the bottom one being the smallest and the others increasing in size, run from the side water legs and connect with a central column which runs to the top of the boiler. This construction permits of an unrestricted upward circulation and an internal circula-



Hitchings &amp; Co.'s New Sectional Tubular Hot Water Boiler, with patent Shaking and Dumping Grates.

tion. It also permits the direct impingement of the fire on all of the slanting waterways, and has the effect of increasing the size of the combustion chamber so that the gases may be thoroughly ignited and consumed, all of which tends to increase the power of the boiler. At the back of the boiler a diving tube is formed by two solid water sections, a fire and damper being placed in the rear section

the Avenue, Brooklyn, N. Y., and 231 Water Street, New York City. In Fig. 1 we show a Y-fitting, in Fig. 2 a fitting with three outlets, and in Fig. 3 a manifold. These fittings are made adapted for 1 1/4, 1 1/2, and 2-inch wrought iron pipe, the centers being respectively 3, 3 1/2, and 4 inches for the different sizes. Fittings similar to Figs. 1 and 2 are made with a larger sweep, to reduce friction, and are

the average stock, at 2c. to 4c. some fancy Kaiserin selling as high as 8 cents. Sweet peas are getting to be of very poor quality, and drag along slowly. Snail's also is poor, brings very low prices and sells slowly.

**Jettison Here and There.**  
Mrs. Alexander Cella of East St. Louis, well known to all the florists in this vicinity, having been connected with

Rivers caused a great deal of seepage throughout the town, and most all of the gardens were too wet to permit any planting until too late. Under the circumstances, the florists have a great many bedding plants on hand. M. H.

**Sea Cliff, L. I.**  
Ferdinand Boulton has extended his vi-



Fig. 1. A Y Fitting.



Fig. 2. A Three Outlet Fitting.

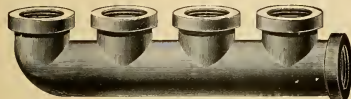


Fig. 3.—A Manifold.

SCOLLY'S SCREW JOINT GREENHOUSE FITTINGS.

so that a direct draft may be effected to facilitate starting the fire. On closing the damper the products of combustion must dive to the bottom of the boiler before they can rise and reach the smoke outlet at the rear. It is pointed out that the boiler presents a large amount of direct heating surface in proportion to grate surface provided. Large doors are provided in the boiler for removing any accumulation that may form on the surfaces of the boiler. A grate is provided of the labor-saving type. The pipe mains may be connected at either or both ends of the heater, as desired, by means of flanged elbows. It is pointed out that the boilers may be used successfully with any kind of fuel. They are made in four sizes, composed of 9, 10, 11, and 12 sections, and have respectively 10, 12, 14, and 16 square feet of grate surface, rated to carry 3,500, 4,200, 4,900, and 5,900 lbs. of coal. Where large capacities are required the boilers are adapted for double connections, when they are estimated to heat double the amount of surface given above. An eight-page circular giving full description, illustrations, dimensions and ratings can be secured on application.—Metal Worker.

made with 3-inch supply and 2-inch outlets. Fittings of this type are adapted for many special purposes in heating work, and owing to their being threaded, will be found a convenience by the trade. The Scollay pipe joint is another specialty adapted for connecting pipes. With it a tight joint can be made with wrought iron pipe without the use of threads, and in case of a defective piece of pipe it is only necessary to cut out the defective part and insert a good piece of pipe of the desired length without removing or disturbing any other parts of the pipe when this joint is used. A circular has been prepared showing the variety of fittings and this pipe joint that can be secured on application.

**St. Louis.**

**Collections are Wretched.**  
The florists are enjoying enforced vacations from work at their own expense now, and there is much complaining of the dullness of the season, but it does not seem that things are any worse this year so far as business is concerned, than in the last few seasons except in the

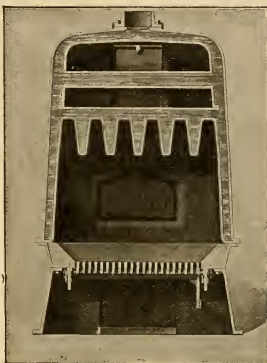
a number of flower stores in this city before her marriage to Mr. Cella, died on Tuesday, the 20th, and was buried on the 22d. She had been troubled with nervous affections since the storm of last year, and a fright from storms of recent occurrence is supposed to have been the direct cause of her death. Much sympathy is expressed among the florists at her untimely taking off.

Jordan Floral Company have a very pretty design of artificial flowers which almost fills their window and makes quite a pretty display these days when natural flowers will so quickly wither.

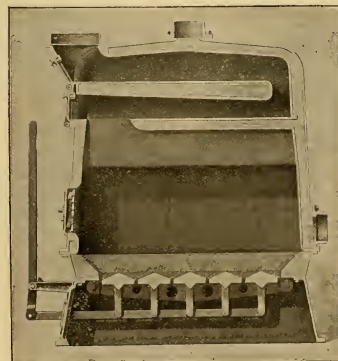
The Ostering Bros. have been busy all summer and are still hard at work getting up a stock of prepared natural palms with which they expect to supply their orders this fall. The boys have worked up a very fine business in this line during the past year and will unques-

tionably do well with them the coming season.  
A trip to Calis, recently showed that the florists of that section have had a very hard time this past spring. The high water in the Ohio and Mississippi

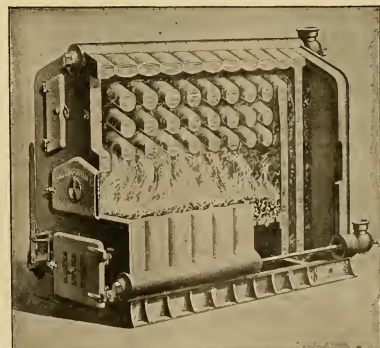
let-growing plant this season very considerably by the addition of three new houses, which are already planted with 6,000 Marie Louise. The houses are built in the most approved modern style and are very conveniently fitted in every way. They are of the following dimensions: The center house is 22x150 feet, and the two side houses 10x150 feet. The heating of these houses is being done by Hitchings & Co., who have put in one of their new pattern sectional No. 57 boilers. In addition to these new houses this boiler will, in moderate weather, heat a large proportion of the entire establishment, being connected so as to relieve other boilers. Other houses already planted with violets are: One 12x100 feet, filled with the Princess of Wales; three others, 10x140 feet, with the same variety; one house 14x150 feet, contains Lady Home Campbell; another house



Lord & Burnham's New Boilers. Fig. 1 Vertical Section of the Standard.



Lord & Burnham's New Boilers. Fig. 2 Longitudinal Section.



Lord & Burnham's New Boilers. Fig. 3 Broken View of the Sectional.

**Scolly Joint Greenhouse Fittings.**

An extensive line of hot water-fittings of the greenhouse type threaded for use with wrought iron pipe is being put on the market by John A. Scollay, 74 Myr-

matter of collections. They are simply wretched.

Asters are coming in of fair quality now and sell at \$1.50 to \$2 per 100 for the best. Carnations run at \$1; roses

tionably do well with them the coming season.  
A trip to Calis, recently showed that the florists of that section have had a very hard time this past spring. The high water in the Ohio and Mississippi

20x80 feet, is filled with Swanley White, Equabar and Lady Campbell, while five other houses 12x60 feet, are filled with Marie Louise, and about 400 feet of cold frames with California, thus making 20,000 plants in all.

### Providence, the Convention City.

Owing, probably, to the natural beauty of the city and its suburbs, the enormous beauty placed in its immediate neighborhood on the bay, but little attention was given by the citizens of Providence to the subject of public parks till its comparatively recent growth bid fair to make the country too important to be easily reached by the busy population of the city. Until within practically a decade the parks of Providence were in an undeveloped condition, but certain elements are prominent in these breathing places that, properly developed, will form a part of the best parks in any city in the country. Already considerable advancement has been made and now considerable pride is taken by the citizens in these beauty spots of nature, for but little artificial development has been, or will be, necessary in laying out and improving them.

Fortiably appropriate is the naming of the city of Providence of its largest and principal public park after Roger Williams, P. S. F. as he has long been known to be in its naming there is a historical as well as sentimental significance that two centuries after Roger Williams had founded the city of Providence, and by the famous Indian sachems Canonicus and Miantinno in token of their good will and of the friendly relations existing between the two nations, the city of Providence in the south-western part of the city about two miles from the city hall, and at the time of its gift to the municipality, the land was a swampy and wooded land, with gentle rising, vegetation and a stream of water. Years passed and no effort was made by the city to improve this beautiful site. Finally, about ten years after its receipt, a small tract of land was set aside toward the protection of the monument that had, in 1877, been erected to the memory of Roger Williams, in accordance with the provisions of the will of the testatrix. The attention of the public was called to this most beautiful spot, and it was not long before a gradual improvement was commenced, and marvelous work has been done. The original grant has been added to by purchase and donation until there are now 430 acres of beautiful park land. The park is divided into parks that are artistically laid out with beautifully diversified walks and drives, and a series of pleasure spots, leading toward the protection of the monument that had, in 1877, been erected to the memory of Roger Williams, in accordance with the provisions of the will of the testatrix. The attention of the public was called to this most beautiful spot, and it was not long before a gradual improvement was commenced, and marvelous work has been done. The original grant has been added to by purchase and donation until there are now 430 acres of beautiful park land.

The park lies in the south-western part of the city about two miles from the city hall, and at the time of its gift to the municipality, the land was a swampy and wooded land, with gentle rising, vegetation and a stream of water. Years passed and no effort was made by the city to improve this beautiful site. Finally, about ten years after its receipt, a small tract of land was set aside toward the protection of the monument that had, in 1877, been erected to the memory of Roger Williams, in accordance with the provisions of the will of the testatrix. The attention of the public was called to this most beautiful spot, and it was not long before a gradual improvement was commenced, and marvelous work has been done. The original grant has been added to by purchase and donation until there are now 430 acres of beautiful park land. The park is divided into parks that are artistically laid out with beautifully diversified walks and drives, and a series of pleasure spots, leading toward the protection of the monument that had, in 1877, been erected to the memory of Roger Williams, in accordance with the provisions of the will of the testatrix. The attention of the public was called to this most beautiful spot, and it was not long before a gradual improvement was commenced, and marvelous work has been done. The original grant has been added to by purchase and donation until there are now 430 acres of beautiful park land.

Let us pay an imaginary visit to this park. We board an Elmwood car and ride to the first stop. The car has not yet had the distance between the first bonnet yard laid out in Providence. Just before we reach the first stop, we see the magnificent building of the Gorham Manufacturing Company.

After riding a short length of a mile alongside the park where we have an excellent view of the expansive fields surrounded with spreading oaks, maples, birches, cedars, and pines, with acres of open green sward relieved by beds of decorative shrubs and flowers, we descend at the picturesque rustic waiting room, where the architect of the handsome new building, the spacious main building, and in the distance the large barn, has been made to harmonize with the modern architecture contrast greatly with the old gambrel-roofed homestead which is the subject of the present approach. This is the house of Miss Williams on the same site that it has occupied for more than a century, and is preserved for ages to come if the elements

permit. In front of this is the handsome monument of the founder of this plantation. The base is massive in its solid construction, with a large figure of the founder of the city, the monument of the Museum of History embellishing the famous name. The whole monument is mounted by an ideal figure of Roger Williams, the founder of the city. The most existing examples of the "old oaken bucket," with its long sweep and dripping sides, are to be seen in the old adobe to the lakes, and by devious ways we wind our way among the hills and knolls until we arrive at the new best-house on the one hand or the grand museum building on the other. At the former building we arrive at the Superintendent, Joseph D. Fitts, a most practical man, under whose direction the florists and horticulturists of the city, forestry and arboretum of the park is making rapid advancement. Mr. Fitts is one of the officers of the Rhode Island Horticultural Society, and is invaluable in the responsible position which he holds in the park.

Looking from the Superintendent's office window, in the center of a fantastic park, we see a flower bed that will be strikingly familiar to the members of the S. A. F. as he has long been known to be in its center part. The rose leaf of the hedge is in the garden and in the red and green variegated arbutum. The flowers and horticulturists of the Superintendent Fitts in honor of the convention. The museum building has been built in the responsible position which he holds in the park.

Throughout the park, the larger specimens of the trees are labeled with the name of the tree and a brief description of the sections where each is found, and as Rhode Island is especially famous for its trees, the Superintendent has excellent opportunities are here afforded the student in forestry. Another feature in the park is the fact that many of the trees that have been set out here annually on Arbor Day by the pupils of the public schools, are labeled with the name of the tree and bears an appropriate inscription plainly printed upon board. These trees are labeled with the name of the tree and bears an appropriate inscription plainly printed upon board. These trees are labeled with the name of the tree and bears an appropriate inscription plainly printed upon board.

There are about 103 miles of driveway and 125 miles of walks winding in and out of the park. The park is in a state of improvement. The lakes occupy about 130 acres and there are a large fleet of row boats and steam launches whereby one can enjoy the scenery of the park without traversing the same course twice. For the maintenance of this park the city has appropriated \$130,000 in all directions. The park is in a state of improvement. The lakes occupy about 130 acres and there are a large fleet of row boats and steam launches whereby one can enjoy the scenery of the park without traversing the same course twice. For the maintenance of this park the city has appropriated \$130,000 in all directions.

Next week I will devote attention to the subject of the S. A. F. program for '97.

### S. A. F. Program for '97.

The program for the Providence convention of the S. A. F. does not differ materially from any of its predecessors. There is the usual matter of reports, says, and an innovation in the form of a discussion of "A Year's Progress in Our Business" divided into sections, the first part being devoted to the carnation, chrysanthemum and rose; the second to decorative trees and shrubs, beds and decorative plants and the retail business. It is to be hoped that the discussion will be confined strictly to the actual progress that has been made within the past year, and that the convention will not be diverted into the usual matter of reports generally known. In all kinds of ways, it is a suggestion, in order to save the time of the convention, to be on the part of those entrusted with the duty of preparing the subject matter, should suggestions be carried out to the

whole discussion can be curtailed very considerably.

The illustrated lecture by Professor Goodale, which occurs at the evening session of the second day of the convention, will be given by the author of the "Old Plants in Their Own Homes," will doubtless prove as interesting and instructive as the one given by the author at Boston, where it was thoroughly enjoyed. We hope this lecture will be a success.

The special medal competition should be the means of drawing out exhibitors and the exhibition of the same rate with the resulting honors to be awarded. Carnations, tuberoses, begonias, and other plants, and the exhibitors are the subjects to which encouragement is to be given in the manner indicated, and the results to be given to 680 of last week's issue for particulars.

The entertainment portion of the program makes provision for those sports, etc., which have heretofore been indulged in and enjoyed, and there is every evidence that they will be equally satisfactory and successful. The ladies will be well looked after, and bowling, shooting teams will, as usual, demonstrate their skill, while an excursion down the bay to the water and a shore drive will cap the climax.

The central location of the convention city, the excellent facilities for a large concourse; and those who have suggestions for the "good of the order," without any prejudicial or unfavorable features, are invited to send them. There are heard in several quarters the perennial rumblings of dissatisfaction directed against our order, as accomplished by the S. A. F. in the past. Nothing, however, is suggested whereby our order may be improved under conditions may be improved. Let the wisecracks who have, in their estimation, better ways of conducting the business of the society should tread, than have those who now manage its affairs, come to the fore. The Providence affair will all be happy yet.

### Convention Souvenir Program

Those who desire to advertise in the Souvenir Program of the 13th annual convention of the S. A. F. should send their advertisements to H. C. Ayler, Providence, R. I., who has charge of the program. The following rates are in full: Whole page \$20, half page \$15, quarter-page \$7, and all contracts will be accepted by the club.

### New York.

#### Wholesale Market.

The severe gales which prevailed during the early part of the week completely paralyzed what business might otherwise have occurred. Fortunately, the supply was light so that the loss was not large. On Thursday and Friday the market has been better. It is possible that a revival of business may be expected, especially with out-of-town trade.

Good roses are still scarce and while few are to be found recalled fair figures. Asteri are a prevalent and are selling for 75c per bunch of one dozen blooms; even then, quantities remained unsold. Gladioli are a little better, but still selling at \$3 per 1,000. A new nice bright hair \$2 per 1,000; L. auratum \$3 and \$4 per 100.

H. A. Hoffman is now doing business in New York City, 100 West 42nd street. Mr. Hoffman is very proud of its appearance, and just so, for it is one of the best of its kind in the city. The floor is 23x35 feet and carries over 100 running feet of tables, which are made of the best of the woodwork and all surroundings in white, it presents an extremely neat appearance.

J. L. Kaynor was able to come into business for a little while on Thursday, having been laid up for more than a week.

#### Retail Trade.

There is but little going on in this line; most of the help are out on vacation, while those at home have but little to do. Stamen work is not doing so well as it has been seen as by any of the outgoing lines.

Secretary Young requests that he be notified by the different clubs and individuals of any new plants or countries which intend going to Providence in New York, so that provision may be made for their care. Notice should be given to the secretary one week prior to the date of the convention.

### Exclusively a Trade Paper.

Entered at New York Post Office as Second Class Matter

Published Every SATURDAY

A. T. DE LA MARE PUBLISHING CO. LTD.

2, 4, 6, D Duane St., New York.

P. O. Box 1097. Telephone 2164 Cortlandt

REGISTERED CABLE ADDRESS

(Commercial Cable) FLOREZ, New York.

#### SUBSCRIPTIONS:

\$1.00 per year in United States, Canada and Mexico. \$2.00 per year to foreign countries in postal union. Payable in advance. New subscriptions will commence with the first number after receipt unless otherwise ordered. Back numbers can be supplied upon request.

The date on address label shows when the subscription expires and in the subscriber's receipt. No other receipt.

#### ADVERTISEMENTS:

Copy must reach this office not later than Thursday in order to secure insertion in issue of the following Saturday.

Special positions extra. Discounts on contracts of one month or longer.

Orders from unknown parties must be accompanied by cash or satisfactory references.

#### Subscribers

Should give notice to the publishers at the end of their term if they do not wish to continue taking paper, otherwise it is concluded and payment expected.

### Exclusively a Trade Paper.

THE FLORISTS' EXCHANGE is published in the interests of those commercially identified with the Florist, Seed and Nursery business. New subscribers are requested to enclose business card or other proof of their connection with these trades.

### Contents.

CARNATIONS	67
CATALOGUES RECEIVED	68
CHANGES IN BUSINESS	67
CHRYSANTHEMUMS	68
CONSPIROUSNESS	70
GREENHOUSE BOILERS, NEW (Illus.)	68
GREENHOUSE FITTINGS, SCREW JOINT (Illus.)	69
HATE BEMERLAND	70
NEW GREENHOUSES	70
NEWPORT'S GARDENS (Illus.)	69
PROVIDENCE, THE CONVENTION CITY	70
SEED TRADE REPORT	68
TRADE NOTES:	
Seed Co., St. Louis	69
New York	70
Philadelphia, Philadelphia, Toronto	70
Chicago	70
Baltimore	70
Buffalo	70
Cincinnati	70
Indianapolis, Pittsburg, Providence,	70
Springfield, Mass.	70

### For the Busy Man.

Over ten million feet of glass is now insured in the Florist's Hat Association.

Greenhouse building is at its peak this year as several leading firms are placing new boilers on the market this season.

Articles from our columns going to the Providence convention, by way of New York should notify Secretary Young a week before date of convention. The New York office tends to give the delegates a receipt.

Best management is to arrive too late last week to escape the working of the new tariff act.

### "The Water Garden."

Owing to the expensive character of this work, the publishers have been compelled to set the price at \$1.50. The volume is now on the press, and every effort will be made to publish it at the date specified in the advertisement. Subscribers' Orders are coming in rapidly, and all who wish to secure a copy of the first edition should apply promptly. The work is artistically, in every way of undoubted value, and the typographical appearance of the book fits it a magnificent product of the printer's art.









New Greenhouses.

Lord & Burdham are building for Henry Henthall, Madison, N. J., four rose houses 20x17 1/2 feet and one propagating house 8x17 1/2 feet; for Thos. Galvin, Boston, Massachusetts, six similar and store houses intended to be a most ornate and elaborate piece of workmanship; also for J. H. Hedges, 1111 1/2 St., four commercial houses; for L. A. Noc, Madison, N. J., three rose houses 18x32x10 and three 18x18x10. Comm. an iron rose-house 20x15 1/2 feet. This firm are also the architects for the New York Hotel, Buffalo, N. Y., and the following contracts: For J. C. Couals, Hartford, Conn., a rose house 100 feet long; for J. M. Albany, N. Y., one house; E. J. Taylor, Southampton, Conn., three 100-foot carnation houses; the material and labor for G. Herman, Orange, N. J., nine commercial 150-foot houses; W. J. Lutz & Co., Buffalo, three houses 12x25 feet and one house 19x10 1/2 feet. They also are rebuilding the conservatories at the White House, Washington, D. C.

In addition to the above, both the firms mentioned are doing a large amount of work for private individuals, specializing generally the greenhouse building this season has not suffered to a corresponding degree as in the past, they are being fully as much new glass going up this season as formerly.

Buffalo.

Mrs. D. Newlands is having her houses painted and overhauled after the season's rush. Business has been very satisfactory.

Will Milley and E. J. Buxton will probably accompany the bowlers organized for the 10th of August, who he feel confident, with these additions, to beat anything in sight at Providence. S. A. Lockport, who has been expected to escort Messrs. Long and Scott, who are just now hustling to leave everything in shape for their next excursion, says that Mr. Cowell will be there to lead dignity to the occasion, although he is engaged to be married. The new range of houses soon to be erected and placed under his supervision.

H. T. Cox of Erie, and T. Mansfield of Lockport, will accompany the boys from the Bison City. W. M.

Beneficial Effects of Weather.

Our hot spell has been succeeded by a wet one, unusual in character. It is not only a relief to the crops, but it actually retards to an extent detrimental to all outdoor matters. Some carnation plants, for instance, that suffered from drought in June, now bid fair to look in banking a desired growth on account of the humid moisture. Many expected fine effects on lawns at this time present be draughted looks.

Barren News. In flowers, sweet peas and carnations have become more plentiful in quantity and some roses from young stock, though small, betoken improved quality for the new season. Asteres are also in to add to the variety.

Noting. William Scott, as president of the Buffalo Scottish Society, in a formal manner saw the annual game played on Saturday of last week.

W. L. Milley is spending a week made a quick trip to Oil City and Bradford. For instance, that suffered from drought in June, now bid fair to look in banking a desired growth on account of the humid moisture. Many expected fine effects on lawns at this time present be draughted looks.

John Fisher has rented and taken possession of George Eckert's place on E. North street.

College vs. Pa.

The wrestling here at college crops very materially all over, but this week has been about the same as last year in which to plant some more of our own. We have had an abundance of rain during the past ten days, and it has made the celery plants grow strong and heavy.

CHRYSANTHEMUMS.

Stock mainly in 3 1/2 in. pots, will now offer succulent plants for sale. The following are for sale at reduced prices the following: From 2 1/2 inch pots: Perry, Mass., P. Perle, Germania Picher, Yellow Gown, Mrs. W. H. Hedges, 111 1/2 St., 100 for \$7.50; Modeste, Liberty, Chabazera, Mrs. E. Beattie, etc., \$3.00 per 100; 50 for \$1.50. For less than 100 plants add 10 to 100 rate quoted. Name substitute varieties if agreeable.

THEO. F. BECKER.

NEVILLE ST., GLENFIELD, PA. 9 miles below Pittsburg, Pa. When Writing Mention Florists' Exchange

HAVE YOUR COLLECTIONS MADE THROUGH THE NATIONAL FLORISTS' BOARD OF TRADE, 271 BROADWAY, NEW YORK. When Writing Mention Florists' Exchange

SMILAX PLANTS

Must be sold to make room. Two in, bright, thrifty, \$1.50 per 100; \$14.00 per 1000; 1 1/2 in, \$1.10 per 100; \$11.00 per 1000. Cash with order, please. Marie Louise Violet plants, mid-grown, ready for forcing, 2 1/2 inch pots for \$1.00. R. KILBOURN, Clinton, N. Y. When Writing Mention Florists' Exchange

SMILAX.

Strong healthy plants, from 3 in. pot, 500 surplus plants, which I will sell for \$8.00 cash. J. THURTON, - East Yonkers, N. Y. When Writing Mention Florists' Exchange

HERE IS A CHANCE OF A LIFE

300 Brides, 1 1/2 inch plants, the lot for 300 Bridesmaid, 1 1/2 inch plants, at \$3.00 per 100 or \$45.00 per 1000. Order early. Or will exchange for Beauty plants. Maiden Hair and other forms 4 1/2 inch pots, cheap. Waverly Greenhouses, Tuckahoe, N. Y. When Writing Mention Florists' Exchange

ROSES

Brides, Bridesmaid, Marquet, Grandeur, Perle, Wootton, etc., in 4 inch pots, all first-class stock. \$10.00 per 100; \$95.00 per 1000. GEORGE L. PARKER, 307 Washington Street, Dorchester, Mass. When Writing Mention Florists' Exchange

5000 ROSES

PERLES, SUNSETS, BRIDES, LA FRANCE, BRIDESMAID, 3 inch pots, \$5.00 per 100. 3000 PRIMAROSAS, \$2.50 per 100. GENEVA, \$2.50 per 100. J. D. BRENNEMAN, Box 24, Harrisburg, Pa. When Writing Mention Florists' Exchange

ROSES.

Strong 2 1/2 inch plants in splendid shape. Yellow Amberplant Aetna, \$1.00 per doz.; \$8.00 per 100. Charming Wootton, 75 cts. per doz.; \$6.00 per 100. Cash with order. JOHN A. DOYLE, - Springfield, Ohio. When Writing Mention Florists' Exchange

SNAPPICES. Rose Plants.

Five healthy plants, Bridesmaid and Bride four inch pots, \$7 per 100; three inch at \$5.00 per 100. W. F. KASTING, Wholesale Florist, 145 Washington St., Buffalo, N. Y. When Writing Mention Florists' Exchange

"Lots of Good." Our advertisement in the EXCHANGE has done us lots of good, we have sold a great deal of it. PAULYER FLORAL CO. Realty, Ohio, June 21, '97.

TO MOVE IT QUICKLY! THE BELOW WAY-DOWN PRICES ARE MADE ... ON A...

HIGH-GRADE STOCK OF ROSES

Grown for intended own plantings, but now a surplus on account of recent altering of plans in rebuilding and extensions:

Table listing various rose varieties and their prices per 100 and per 1000. Includes varieties like 1000 AM. BEAUTY, 500 METEOR, 500 PERLES, 1800 LA FRANCE, 400 NIPHOTOS, 1000 METEOR, 500 PERLES, 150 NIPHOTOS, 200 LA FRANCE.

Cash terms. 250 at 1000 rate. Samples by express if desired. Will be offered thus but once, so speak quick. Orders filled promptly.

DAN'L B. LONG, Growers Agent, BUFFALO, N. Y.

50,000 BRIDE AND BRIDESMAID! 50,000 Extra Fine.

From 2 1/2 inch pots, \$2.50 per 100; \$25.00 per 1000. From large 3 1/2 inch GREENLANDS, ready for 4 inch, \$4.00 per 100. Limited amount of Golden Gate and NIPHOTOS, 2 1/2 in. pots, at \$3.00 per 100. Strong young SMILAX PLANTS, \$1.50 per 100.

TERMS CASH. THE NATIONAL PLANT CO., Dayton, Ohio.

40,000 FIRST QUALITY FORCING ROSES

Ready for immediate Planting. Fully equal to those sent out the last four years, first-class and perfectly healthy in every respect. Only selected young from forcing, intended in proportion to the following: BELE SIEBRECHT, 1 1/2 inch pots, \$1.00 per 100; \$10.00 per 1000. AMERICAN BEAUTY, 4 inch pots, \$1.50 per 100. METEOR, KANSAS, A. Y., 3 inch pots, \$1.00 per 100. PERLE, NIPHOTOS, 3 inch pots, \$1.00 per 100. BRIDESMAID, SAFRANO, 3 inch pots, \$1.00 per 100. J. L. DILLON, Bloomsburg, Pa. Mention this paper.

AMERICAN BEAUTIES.

1000 American Beauties, fine large plants from 3 inch pots, just right for forcing, at \$6.00 per 100. Also, 2000 Meteors, at \$5.00 per 100. 500 Smilax, at \$2.50 per 100. Order quick. Terms cash.

C. YOUNG & SONS' CO., - 1406 Olive Street, St. Louis.

ROSES

Clean, strong and carefully grown. AMERICAN BEAUTY, 3 inch, \$5.00; 3 1/2 and 4 inch, \$15.00 per 100. Perle, Meteor, Bride, La France, Kaiserin, special rates on quantities, 3 1/2 inch, \$6.00; 4 inch, \$7.00 per 100. A. S. MacBEAN, Lakewood, New Jersey. When Writing Mention Florists' Exchange

FINE HEALTHY STOCK OF GOLDEN GATE ROSES

From 2 1/2 inch pots, at \$2.50 per 100. From 3 1/2 inch pots, at \$5.00 per 100. Cash with order.

CHRIST. WINTERICH, Orange Greenhouses, When Writing Mention Florists' Exchange

JACKSON & PERKINS CO., NEWARK, N. J.

Will have to offer for season of 1897-'98, a choice assortment of the following: Field Green Roses, new and old varieties, Clematis, Ornamental Shrubs, and Trees, Fruit Tree and Small Fruit Plants.

Price List ready in July. Write for it. When Writing Mention Florists' Exchange

CARNOTIS. ROSES

375 fine plants, 3 inch pots. Will sell cheap, or exchange for good METEOR. 1000 BRIE ESMAID, 1000 BRODIE, 500 HOTTONTON, 1000 PERLE, \$5.00 per 100. Strong, 1 1/2 inch, from 3 1/2 in. pots. Cash with order. JOHN WHITE, - Elizabeth, N. J. When Writing Mention Florists' Exchange

HOPP & LEMKE, EAST GRAND RAPIDS, MICH. When Writing Mention Florists' Exchange

SMILAX.

Strong, from 2 1/2 inch pots, \$2.50 per 100; \$30.00 per 1000. VIOLETS.

Marie Louise, Lady Campbell, strong, 2 1/2 inch stock, from 2 1/2 inch, \$4.00 per 100; \$40.00 per 1000. CHRYSANTHEMUMS. For Varieties and Prices, see April 24th issue. New Trade List on Application.

WOOD BROS., Fishkill, N. Y.

WOOD BROS., Fishkill, N. Y.

WOOD BROS., Fishkill, N. Y.



**LORD & BURNHAM CO.,**  
**HORTICULTURAL ARCHITECTS AND BUILDERS,**  
 STEAM AND HOT WATER HEATING ENGINEERS.  
 Plans and Estimates furnished on application.



Largest Builders of Greenhouse Structures. Six Highest Awards at the World's Fair. Send four cents postage for illustrated Catalogue.

**LORD & BURNHAM CO.,**  
 ARCHITECTURAL OFFICE, 160 FIFTH AVE., COR. 21st STREET, NEW YORK.  
 Factory, Trinitas-avenue Hudson, New York. Mention paper

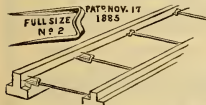
SEND FOR OUR NEW CATALOGUE, WHICH SHOWS

## The New Automatic Cable Ventilator

As it is put up in the house complete. We also give you prices with a guarantee that each machine sent out will operate your house successfully. Best machines now made in two sizes.

**A. Q. WOLF & BRO., Dayton, Ohio.**

When Writing Mention Florists' Exchange



**THE VAN REYER**  
**PERFECT GLAZIERS' POINTS**  
 No rights or lefts. Price per box of 1000, 60c. by mail, 75c. in lots of 5000 by ex., 55c. per 1000

**HENRY A. DREER, 714 Chestnut St., Phila., Pa.**

When Writing Mention Florists' Exchange

**GLASS** FOR GREENHOUSES, CONSERVATORIES, GRAPERIES, HOTBEDS AND FLORISTS' USE GENERALLY, AT LOWEST RATES.

**L. HARRIS & SON,**  
 437 W. BROADWAY, NEW YORK, 89 LIBERTY ST., NEW YORK.  
 Tel. Broadway and Chatham Sts.

When Writing Mention Florists' Exchange

**GLASS!** For Greenhouses, Conservatories, Graperies, Hotbeds and all other purposes, at Lowest Rates. **GLASS!**

**N. COWEN'S SON, 392 & 394 West Broadway, New York.**  
 Formerly 184 and 156 So. Fifth Avenue.

Get our Figures before buying Glass. Estimates Freely Given.

When Writing Mention Florists' Exchange

**CALIFORNIA RED CEDAR**  
 Never Decays.  
**A. DIETSCH & CO. 619 Sheffield Avenue, CHICAGO.**

MANUFACTURERS OF  
 RED CEDAR AND CYPRESS GREENHOUSE MATERIAL.

When Writing Mention Florists' Exchange

# MASTICA

FOR GLAZING GREENHOUSES. SUPERIOR TO PUTTY IN EVERY WAY.

Is not hardened by the extreme heat or cold that a greenhouse is constantly subjected to both inside and out. Mastic is adhesive and remains permanent. It is not forced out of place by expansion and contraction of the woodwork. It is placed in a tub Mastic. It is not need re-putting. It is saving time and expense. With Mastic only. It is used on the outside, but with a machine only.

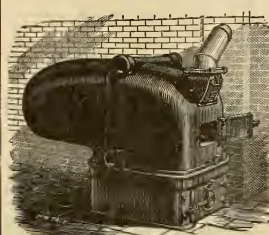
HIGHEST AWARD OF SOCIETY OF AMERICAN FLORISTS AT PITTSBURGH, 1895.  
 Put up in gallons, \$1.00. Half gallons, 60c. Quarter gallons, 35c. Mastic Glazing Machines, \$1.00 each.

Send for full descriptive circular and testimonials. Agents in all the principal cities.  
**F. O. PIERCE CO., Sole Manufacturers, 170 Fulton St., New York.**

When Writing Mention Florists' Exchange

## GREENHOUSE HEATING AND VENTILATING,

Horticultural Architecture and Building.



Mention paper

SEND 4c. POSTAGE FOR ILLUSTRATED CATALOGUE.

## Hitchings & Co

ESTABLISHED 1844.  
 233 Mercer Street, NEW YORK.

FIVE PATTERNS OF BOILERS, NINETEEN SIZES, Perfect Sash Raising Apparatus, Rosehouses, Greenhouses, Etc., of Iron Frame Construction erected complete or the Structural Iron Work shipped ready for erection.  
 Iron Frame Benches with the "Perfect Drainage Bench Tile" or Slate Tops.

When Writing Mention Florists' Exchange

**CYPRESS**  
 IS MUCH MORE DURABLE THAN PINE.  
**CYPRESS SASH BARS**  
 UP TO 32 FEET IN LENGTH OR LONGER.  
**GREENHOUSE**  
 AND OTHER BUILDING MATERIAL.

Send for our Illustrated Book "CYPRESS LUMBER AND ITS USES." Send for our Special Greenhouse Circular.

**THE A. T. STEARNS Lumber Co.,**  
 NEPONSETT, BOSTON, MASS.

When Writing Mention Florists' Exchange

**VALVES, FITTINGS AND VENTILATING APPARATUS.**

**COLDWELL-WILCOX CO.,**  
 Newburgh, N. Y.

Mention paper

**Evans Improved Challenge.**

Roller mounted self-feeding device, automatic stop, solid link chain. Makes the IMPROVED CHALLENGE the most perfect apparatus in the market.  
 Write for catalogue and prices before placing your order elsewhere.  
**Quaker City Machine Co.,**  
 RICHMOND, N. D.

When Writing Mention Florists' Exchange

## IMPROVED GLAZING.

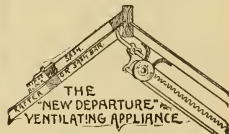
**J. M. GASSER'S**  
**PATENT ZINC JOINTS**  
 For Putting Glass Without Laps.

Makes a Roof Air and Water Tight. Saves Fuel. No leakage from Frost or Medium Sized Hail. Manufactured by

**J. M. GASSER,**  
 101 Euclid Avenue, CLEVELAND, OHIO.  
 Wholesale and Retail Florists.  
 Write for Prices and Circulars.  
 When Writing Mention Florists' Exchange

## A GOOD SASH LIFT

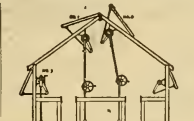
For a Very Little Money Get



For Descriptive Catalogue Send to  
**J. D. CARMODY, Evansville, Ind.**  
 When Writing Mention Florists' Exchange

## STANDARD VENTILATING MACHINE.

NONE EQUAL IT IN Strength AND Durability



NOTHING Flimsy OR Complicated about it.

**E. HIPPARD, YOUNGSTOWN, OHIO**

When Writing Mention Florists' Exchange

# TRADE GREENHOUSES.

THE BEST MADE.

"Florists" Get Your Plans and Estimate from  
**PLENTY'S HORTICULTURAL WORKS,**  
 148-156 Randolph Ave., JERSEY CITY, N.J.

When Writing Mention Florists' Exchange

J. K. ALLEN, Wholesale Commission Dealer in CUT FLOWERS, 87 W. 28th St., New York. Orders by mail or telegraph promptly attended to. Telephone Call, 52 28th St. ROSES AND VIOLETS SPECIALTIES.

W. S. ALLEN, 17 West 28th St., New York. Correspondence Solicited.

FORD BROS. WHOLESALE FLORISTS, 111 West 30th Street, NEW YORK. Consignments Solicited. Telephone 260 30th St.

WM. H. GUNTHER, Wholesale Florist VIOLETS AND CARNATIONS A SPECIALTY. Consignments Solicited. 30 West 29th St., New York. Telephone 200 28th Street.

MICHAEL A. HART, Wholesale & Commission Florist, 113 W. 30th St., New York. Telephone Call, 1307 30th St. All kinds of Roses, Violets and Carnations a specialty. ORDERS PROMPTLY ATTENDED TO.

H. A. HOFFMANN, Wholesale Florist 44 W. 29th St., NEW YORK. Telephone Call, 1268 29th St. American Beauties, Carnations, White Violets, Specialties. CONSIGNMENTS SOLICITED.

EDWARD C. HORAN, WHOLESALE FLORIST, No. 34 W. 29th St., New York. The Bride, Mergel and American Beauty, Specialties.

JULIUS LANG, Wholesale Florist 53 WEST 30th ST. Consignments Solicited. NEW YORK.

FRANK MILLANG, Wholesale Commission Dealer ...in Cut Flowers.... 408 East 34th St., New York City. Cut Flower Exchange. Telephone Call, 164-38D.

THE NEW YORK CUT FLOWER CO. 119-121 West 23d Street, 112-114 West 24th Street, Telephone 738, 193 St., NEW YORK. THE LARGEST DEALERS IN CUT FLOWERS IN THE WORLD...

W. E. LYNCH, Wholesale Dealer in Cut Flowers.

We are Headquarters for finest Carnations and Roses, Violets, Valley, Roman, Smilax, Adiantum. Best selected stock preserved for shipping orders. Send us your name for our Semi-Monthly Price List. 19-21 RANDOLPH STREET, CHICAGO. When Writing Mention Florists' Exchange

CHAS. W. McKELLAR, WHOLESALE COMMISSION FLORIST Largest and best market in Chicago. Constant supply of all reasonable flowers. Consignments of first grade goods solicited. Complete stock of Florists' Supplies, Wire-work, etc. All orders given prompt attention. Telephone, Main 1129. 45, 47, 49 WABASH AVENUE, CHICAGO, ILL. B. F. WINTERSON, Manager. When Writing Mention Florists' Exchange



Table with 6 columns: NAME AND VARIETY, NEW YORK (July 30, 1897), BOSTON (July 23, 1897), PHILADELPHIA (July 29, 1897), CHICAGO (July 29, 1897), ST. LOUIS (July 29, 1897). Rows include various flower types like A. Beany, Bride, Mamma Clara, etc.

PURDY & BLAUVELT, Wholesale and Commission Dealers in CUT FLOWERS MADEIRA PINK PRINCE A SPECIALTY. 57 WEST 30th STREET, East Broadway & 6th Ave. NEW YORK.

A. & F. ROLKER, WHOLESALE DEALER IN CUT FLOWERS 53 West 28th St. NEW YORK. Telephone 2379 38th St.

W. F. SHERIDAN Wholesale Commission Dealer in CUT FLOWERS 39 West 28th St., New York. Telephone, 21-28th St. PRICE LIST SENT ON APPLICATION.

FRANK H. TRENDLE, CHARLES SCHENCK, TRENDEL & SCHENCK, Wholesale Florists, 88 W. 28th St., and CUT FLOWER EXCHANGE, NEW YORK. Telephone 951-18th St. Consignments Solicited.

JOHN YOUNG, Wholesale Florist, 51 WEST 28th ST., NEW YORK.

WM. J. BAKER, Wholesale Florist 1432 So. Penn Square, Philadelphia, Pa.

DUMONT & CO., WHOLESALE FLORISTS, CARNATIONS A SPECIALTY. No. 1305 Filbert St., Philadelphia.

Illinois Cut Flower Co., 51 Wabash Ave., Chicago. Special discounts on Wire Work during July and August.

KENNICOTT BROS. COMPANY, Wholesale - Cut - Flowers, 88 Wabash Avenue, CHICAGO, ILL. WIRE WORK A SPECIALTY.

ROGERS PARK FLORAL CO., Wholesale Growers of Cut Flowers OFFICE AND SALESROOM, 41 WABASH AVE., CHICAGO. Headquarters for AMERICAN BEAUTIES.

For Prices of Fancy and Special Stock see our Correspondence Columns. Prices are for quantities of one hundred unless otherwise noted. Prices quoted above are given only after very careful inquiry, and while we do not guarantee the accuracy, they will be found practically correct up to the date mentioned.

REINBERG BROS., Wholesale Growers of Cut Flowers, . . . . 500,000 Feet of Glass.

We can fill all orders on short notice with all leading varieties of ROSES and CARNATIONS. We are headquarters for fine AMERICAN BEAUTIES. Give us a trial and convince yourself.

SALESROOM 51 Wabash Avenue, CHICAGO, Ill. When Writing Mention Florists' Exchange

SAMUEL S. PENNOCK, WHOLESALE FLORIST. A fine stock of VALLEY on hand throughout the Summer. Also a full line of all seasonable cut flowers. During July August and September we close at 6 P. M. 1612-1614 Barker St. Bet. Chestnut & Market Sts. Philadelphia, Pa. Local and Long Distance Phone 5210. WHEN WRITING MENTION THE FLORISTS' EXCHANGE

H. L. SUNDERBRUCH CO., Wholesale Commission Florists, 4th and Walnut Streets, CINCINNATI, OHIO. Consignments Solicited. Special Attention Given to Shipping Orders.

HEADQUARTERS in Western New York. Try us ROSES, CARNATIONS AND ALL SEASONABLE FLOWERS. WM. F. KASTING, Wholesale Commission Florist 435 West 10th Street, BUFFALO, N. Y. Also Dealer in Florists' Supplies & Wire Designs

Wholesale Florists... JOBBERS IN... F. W. WILSON... FLORIST'S SUPPLIES... FLORISTS' VASES... 84 HAWLEY STREET, - BOSTON.

ASPARAGUS PLUMOSUS NAUUS, Cut Stricks, 10 to 12 feet long... Shipped by express... H. W. ELLIOTT, - Brighton, Mass.

When Writing Mention Florists' Exchange

Peterson, N. J. An enthusiastic meeting of Bergen and Passaic County Florists was held here on Wednesday evening, July 21, and as a result of the discussion... Peterson, N. J.

GEO. A. SUTHERLAND, Successor to Wm. J. Stewart... CUT FLOWERS and FLORISTS SUPPLIES... 67 Bromfield St., Boston, Mass.

Galax Leaves. CHAS. M. RICKSECKER, Linville, N. C. When Writing Mention Florists' Exchange... FOR FINEST... Galax Leaves and Leucothoe Sprays...

Springfield, Mass. Sweet Pea Show Postponed. A great disappointment it was to the Hampden County Horticultural Society to be obliged to put off the sweet pea show... Disappearance of a Florist.

City Hall Cut Flower Market WELCH BROS., Props. Regular Consignors Given Space Free of Charge... SEND FOR PRICE LIST...

M. RICE & CO., Importers and Manufacturers of FLORISTS' SUPPLIES. 25 N. 4th St., Philadelphia, Pa.

The Talk among the florists is the disappearance of N. J. Herrick, who has conducted a florists' business in the city for several of twenty years...

Business Hits. Generally speaking, flowers are poor and scarce... In Town and Out. William Elliott of Brighton, Mass., was in town Monday...

W. ELLISON, Wholesale Cut Flowers, Floral Supplies, Wire Designs. 2744 Franklin Ave., ST. LOUIS, MO.

FLORISTS' SUPPLIES. 25 N. 4th St., Philadelphia, Pa. NEW FALL CATALOGUE NOW READY

"JADOO" FIBRE and LIQUID are used and endorsed by the leading growers. Try them and be convinced. When Writing Mention Florists' Exchange

S. A. Hamilton, the sweet pea expert of Roaring Spring, Pa., was a visitor this week... C. F. Fairfield's family are at Block Island...

Valuable Report. The 25th annual report of the State Board of Agriculture is being distributed by the Secretary of the Board...

C. A. KUEHN, Wholesale Florist, 1122 Pine St., St. Louis, Mo. A COMPLETE LINE OF WIRE DESIGNS.

Indianapolis, Ind. Market Notes. Business, excepting financial work is dull...

Pittsburg. Director Bigelow of the Public Parks, rejected all the bids for bulbs that were offered...

Convention Notes. The regular monthly meeting of the Florists' Exchange Club was held on the 23rd with an unusually large attendance...

C. W. WORS, Wholesale Florist, 313 N. LEFFINGWELL AVENUE, ST. LOUIS, MO. FINE ROSES—selected carefully to all parts of the country.

The Society of Indiana Florists met recently, and made arrangements for a year's work...

Market News. Trade the last few weeks has been at a standstill...

Convention Arrangements. The last meeting of the Florists' Club was fairly well attended...

St. Louis Cut Flower Co. WHOLESALE FLORISTS, 1620 Olive St., ST. LOUIS, MO.

The Rev. George Steinhilber acted as umpire in the growing photography on the boat and grounds...

The Indiana Florists' Club held its annual outing on the 14th, at Havencrest Grove, nine miles from city...

Treasurer A. M. Rennie is one of the most energetic and enthusiastic workers of the local committee...

E. G. HILL & CO., Wholesale Florists, RICHMOND, INDIANA.

The Rev. George Steinhilber acted as umpire in the growing photography on the boat and grounds...

The Indiana Florists' Club held its annual outing on the 14th, at Havencrest Grove, nine miles from city...

In shooting, the Providence team is expected to get the best showing...

COMPLETE LINE OF SUPPLIES... WIRE WORK... 1111 S. POLLYWORTH MILWAUKEE WIS.

Syracuse, N. Y. E. D. Whedon of the Overlook greenhouse, Little Falls, spent Sunday and Monday last in town with his son...

The trip to New York falls on the day of the departure to the convention, so it was decided to call a special one...

The long partnership existing between Edwin J. Callaway and Edward M. Callaway is terminated...

The Rev. George Steinhilber acted as umpire in the growing photography on the boat and grounds...

The trip to New York falls on the day of the departure to the convention, so it was decided to call a special one...

Convention Notes. The annual chrysanthemum exhibition of the Rhode Island Horticultural Society will be held in Providence...

The Rev. George Steinhilber acted as umpire in the growing photography on the boat and grounds...

The trip to New York falls on the day of the departure to the convention, so it was decided to call a special one...

Convention Notes. The annual chrysanthemum exhibition of the Rhode Island Horticultural Society will be held in Providence...

**Asparagus Plumosus Nanus...**  
 (True) transplanted seedling plants, now ready, \$25.00 per 1000. Samples on application. Also first **ASPARAGUS SEED**, \$10.00 per 1000 seeds. (Ask with order from unknown correspondents.)

**R. ASMUS, - - NEW DURHAM, N. J.**  
 When Writing Mention Florists' Exchange

**WELCH BROTHERS,**  
 DEALERS IN  
**FLORISTS' SUPPLIES,**  
 18 Prince Street, } BOSTON.  
 5 Chapman Place, }  
 Wire Designs, Wreath Sheaves, Baskets, Immaculates, Cape Flowers, Cut Flowers, Boxes, and all other supplies, at prices to meet competition.  
 When Writing Mention Florists' Exchange



TELEPHONE 1782 18TH ST.  
 When Writing Mention Florists' Exchange

**THE BEST FOR ALL Florists.**  
 FOR SALE BY Seed Stores.  
 For Free Pamphlet, write to  
**LEONHART SPIEGEL**  
 TOBACCO CO.  
 Louisville, Ky.

When Writing Mention Florists' Exchange

**FOR MILDOW AND BLACK ROT**  
 on Roses, Fruits and Vegetables, and Carnation Root.

**USE FOSTITE,** 3 pounds, \$30 cts., 25 pounds \$2.00.

**C. H. JOOSTEN,** IMPORTER OF PLANTS, BULBS AND SEEDS.  
 123 Greenwich St., New York.  
 When Writing Mention Florists' Exchange

**SAVE THE BLOOMS! NIKOTEEN**  
 DOES NOT INJURE SENTIMENTAL PLANTS. USED FOR FUMIGATION OR SPRAYING, INDOORS OR OUT.  
 200 POUNDS PACKED IN ONE PINE BOX.  
 Price \$1.50. ALL SEEDS MEN.

When Writing Mention Florists' Exchange

**DEATH TO THE INSECTS**  
 THE KENTUCKY EXTRACT CO.'S  
**KILL IT!**  
 As an insecticide for quick destruction of the aphid it cannot be excelled. For sale by the leading dealers in seedsmen.

**THE KENTUCKY EXTRACT CO., Columbus, O.**  
 SOLE MANUFACTURERS.  
 Book of Directions Sent Upon Application.  
 When Writing Mention Florists' Exchange

**INDIAN BANA**  
 NO ADULTERATION  
**BONE FLOUR** NO AOID  
 References: Frad. Dornier & Sons Co., La Fayette, Ind.  
 John H. Taylor, Harvade, La. N. Y.  
 Geo. W. Fry & Co., St. Paul, Minn.  
 E. L. May & Co.,  
**GEO. S. BARTLETT, 1285-1287 WEST 8TH ST., CINCINNATI, O.**  
 SUCCESSOR TO  
**CINCINNATI DESICCATING CO.**

When Writing Mention Florists' Exchange

**A GOOD ROSE IS A GOOD INVESTMENT**  
 The best is the cheapest. To ascertain what a rose is worth, divide the cost per foot by the number of years it will last. We are in the market to compete in number of years with anything that is manufactured. Price 12c. per foot for 1/2 inch; 16c. per foot for 3/4 inch, and 20c. per foot for 1 inch rose.  
 "Best Rose I have bought in twelve years." - N. STUBBS. "It is Rose." - G. HILL.  
 Address **J. G. & A. ESLER, Saddle River, N. J.**  
 When Writing Mention Florists' Exchange

**EVERY FLORIST OUGHT TO INSURE HIS GLASS AGAINST THEFT.**  
 For particulars address  
**JOHN G. ESLER, 807, Saddle River, N. J.**

**CHRYSANTHEMUMS—Last Call.**  
 A few hundred each of the following varieties from pots, each plant at \$1.00 per 100: E. Dull-crown, Mrs. W. Robinson, Jean Henderson, Philadelphia, Marion Henderson, Kronstadt, Marguerite No. 1, Monticello, Mrs. W. C. Owen, Mrs. G. C. Hill, 1917.

**SMILAX** Strong bushy plants, 1/2 inch pots, \$1.00 per hundred.

**C. ESSELE, 11th & Jefferson Streets, Philadelphia, Pa.**  
 When Writing Mention Florists' Exchange

**MANURE**  
 Fresh and well rotted horse manure, Manna for Mushroom growing a specialty. Excellent condition for all plants. 150 lbs. per ton. 150 lbs. per ton and size by boat. Wm. A. Abernethy, Room 310, 210 Fifth Street, Philadelphia, Pa.  
 When Writing Mention Florists' Exchange

**SHEEP MANURE**  
 Cleaned and prepared expressly for Florists' use. You will find it the same as active. For reference to its being first-class I refer you to Henry R. Mitchell, 105 North 10th Street, Philadelphia, Pa. Total bags of 100 lbs. \$3.00 per ton, \$15.00 1/2 ton at ton rate. Herman Reese will be taken to exchange.

**CODFREY ASCHMANN,**  
 1012 Ontario St., PHILA., Pa.  
 When Writing Mention Florists' Exchange

**SHEEP FERTILIZER!**  
 PULVERIZED. COMPRESSED.  
 A Quick Germinator and Crop Forcer.  
 NATURAL. CORDLESS. CLEAN TO HANDLE.

**JOHN J. PETERS CO.,** Long Island City, N. Y.  
 When Writing Mention Florists' Exchange

**DO NOT BE HUMBUCKED**  
 into using CHEAP Imitations of our  
**GREEN SILKALINE**

Contains more cord and does more work than anything else on the market. The original and best silk alkaline made solely by **JOHN C. MEYER & CO.,** 87 Summer Street, BOSTON, MASS., U. S. A.  
 When Writing Mention Florists' Exchange

**Boston Florist Letter Co.**  
 Manufacture DIVISION OF THE BOSTON FLORISTS' EXCHANGE  
 125 N. STATE ST., BOSTON, MASS., U. S. A.  
 This machine has been patented and awarded, 1893-1894 and 1895 in two sections, one for each size letter, given away with each set of 500 letters.  
 Boxes, letters 1 1/2 or 2 inch size, per 100, \$2.00.  
 Boxes, letters, 2 1/2 inch size, per 100, \$3.00.  
 Patented with each letter or word.  
 Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

**N. F. MCCARTHY, Treas. & Manager,**  
 200 N. STATE ST., BOSTON, MASS., U. S. A.  
 When Writing Mention Florists' Exchange

**CHOCOLATE COOLER CO.,**  
 GRAND RAPIDS, MICH.  
 Manufacturers of  
**FLORIST'S REFRIGERATORS.**  
 Send for Circular.  
 When Writing Mention Florists' Exchange

**JOHN CONLEY & SON,**  
 MANUFACTURERS OF  
**TIN FOIL**  
 2 and 4 Dominick Street,  
**NEW YORK.**  
 When Writing Mention Florists' Exchange

**GALVANIZED WIRE PLANT STAKES** From \$5.00 per 1000 upwards.  
**RUBBER HOSE** from 6 cents per foot.  
**H. F. LITTLEFIELD,** WORCESTER, MASS.  
 When Writing Mention Florists' Exchange

**AMERICAN BULB COMPANY,** BULBS, PLANTS AND SEEDS.  
 Successors to the Bulb and Seed Business of  
**PITCHER & MANDA.**  
 Our prices are the lowest for guaranteed quality. Get our special prices on anything you require before ordering.  
**SHORT HILLS, - - NEW JERSEY.**  
 When Writing Mention Florists' Exchange

**Florists' Supplies.** Largest Stock in the Country.  
 All goods up to date, and of superior quality.  
 Send for Illustrated Catalogue.

**H. BAYERSDORFER & CO.,** PHILADELPHIA, PA.  
 56 N. FOURTH STREET,  
 When Writing Mention Florists' Exchange

The live Florist is now planning for next season. Are you here? If so, not, do not overlook the assisting features that might go with use of a set of  
**LONG'S FLORISTS' PHOTOGRAPHS.**  
 INTENDED FOR USE IN TAKING ORDERS. NEW CATALOGUE FREE.  
 Also a new and adaptable FLORISTS' CATALOGUE of Cut Flowers and Arrangements.  
 CIRCULAR ON APPLICATION.  
**DAN'L B. LONG, Publisher, BUFFALO, N. Y.**  
 When Writing Mention Florists' Exchange

**LARGEST AND BEST STOCK OF PREPARED CYCAS LEAVES**  
 TO BE FOUND ANYWHERE  
 Metal Floral Designs, Sheaves, Doves, Baskets, Moss Wreaths, Wreath, Milkweeds, Cape Flowers, Wire Work, and all Florists' Supplies.  
 Write for catalogue. Free to the trade.

**A. HERRMANN, 400-412 East 34th Street (Near Ferry), New York,**  
 Manufacturer of METAL FLORAL DESIGNS, Importer and Dealer in FLORISTS' SUPPLIES.  
 When Writing Mention Florists' Exchange

**JADOO**  
**FIBRE—Every plant grown in it thrives without earth.**  
**LIQUID—The best, safest and cheapest Fertilizer sold.**

**U. S. Patent and Trade Mark.**  
**THE AMERICAN JADOO CO.,** 811 Fairmount Avenue, PHILADELPHIA, PA.  
 When Writing Mention Florists' Exchange

**ORNAMENTAL TREES AND SHRUBS.**  
**Roses, Bulbs and Hardy Perennials**  
 In Large Assortment and of Superior Quality.  
 Fully believe that we can show more Ornamental Trees and Shrubs, and a larger, finer block of Hardy Roses, Hybrid Perpetual Moss and Climbers of the leading popular varieties including the famous Crimson Rambler than can be seen elsewhere. We have 32 greenhouses, several of them devoted to Palms, Cycas, Ficus and Aucararia. Excelsa. Personal inspection and correspondence solicited. Catalogue free.  
**THE STORRS & HARRISON CO.,** Box 6 Painesville, O.  
 When Writing Mention Florists' Exchange

# THE FLORISTS' EXCHANGE

We are a straight shoot and aim to grow a vigorous plant.

A WEEKLY MEDIUM OF INTERCHANGE FOR FLORISTS, NURSEMEN, SEEDSMEN AND THE TRADE IN GENERAL.

VOL. IX. NO. 32.

NEW YORK, AUGUST 7, 1897.

One Dollar Per Year.

## ..PALMS..

Owing to our stock being grown with plenty of air the plants are all strong and sturdy, and will bear transportation for long distances. Florists intending to purchase this class of stock for their fall trade will do well to place their orders immediately, so that they can have them shipped by freight, thus avoiding the excessive express charges which they would have to pay if shipped during the cold weather. The prices will also be very much higher in the fall than at the present time, owing to the high daily which will then be in force.

### ARECA LUTESCENS.

5 inch pots, 20-24 inches high, 3 plants in a pot.....\$6.00 per dozen; \$50.00 per 100

### KENTIA BELMOREANA.

3 inch pots, 8-12 inches high, 4-5 leaves.....\$3.50 per dozen; \$35.00 per 100  
4 inch pots, 12-15 inches high, 4-5 leaves.....\$5.00 per dozen; \$50.00 per 100  
5 inch pots, 18-20 inches high, 6-7 leaves, stocky.....\$6.00 per dozen; \$75.00 per 100

### KENTIA FORSTERIANA.

3 inch pots, 12-15 inches high.....\$4.50 per 100  
4 inch pots, 15-18 inches high.....\$6.00 per dozen; \$60.00 per 100  
5 inch pots, 20-24 inches high.....\$8.00 per dozen; \$75.00 per 100

### LATANIA BORBONICA.

3 inch pots.....\$10.00 per 100  
4 inch pots, 12-15 inches high.....\$3.00 per dozen; \$35.00 per 100  
5 inch pots, 18-20 inches high, stocky plants.....\$6.00 per dozen; \$75.00 per 100

**COGOS WEDDELIANA.** 3 inch pots.....\$3.00 per dozen; \$25.00 per 100

**LIVISTONA HOOGENDORPII.** 4 inch pots, 10-12 inches high, 7 leaves, \$4.50 per dozen; \$35.00 per 100.

**LIVISTONA ROTUNDFOLIA.** 5 inch pots, 12-15 inches high, 7-8 leaves, strong plants, \$10.00 each; \$15.00 per dozen.

**PHENIX RECLINATA.** 5 inch pots, 15-18 inches high.....\$8.00 per dozen; \$45.00 per 100

## PITCHER & MANDA, Short Hills, N. J.

JOHN N. MAY, Receiver.

When Writing Mention Florists' Exchange

## WINTER FLOWERING ROSES.

Our stock of these is very large, and in exceptionally fine shape. We offer all the leading varieties, strong plants in 2 1/2 in. pots, as follows:

**PERLE, BRIDESMAID, BRIDE and**

**MME. CUSIN,** \$5.00 per 100; \$40.00 per 1000.

**MME. CAROLINE TESTOUT and**

**MRS. PIERPONT MORGAN,** \$6.00 per 100; \$50.00 per 1000.

**AMERICAN BEAUTY,** \$3.00 per 100; \$30.00 per 1000.

**PRESIDENT CARNOT,** \$15.00 per 100; \$125.00 per 1000

We have a fine stock, also, of the new climbing

**YELLOW RAMBLER ROSE**

The only hardy yellow climbing rose yet introduced. A worthy companion to the wonderful Crimson Rambler.

Strong plants, 2 1/2 in. pots, \$1.50 per doz.;

\$10.00 per 100.

Strong plants, 3 1/2 in. pots, \$3.00 per doz.;

\$20.00 per 100.

The above Rose Stock is in perfect shape and will please the most fastidious. Samples sent if desired. We invite inspection of stock.

In order to close out stock remaining on hand of

## DOUBLE TUBEROUS BEGONIAS

we offer what stock we have as long as unsold at \$3.00 per 100; \$25.00 per 1000.

This is only the price of ordinary Single Begonias, and considerably below cost. We offer at this nominal price only in order to close out stock we have left.

We have a sur- **TUBEROSE PEARL**, Extra quality bulbs, 4-6 inches in circumference, perfect shape, 50c. per 100; \$4.00 per 1000.

**SPEAK QUICK IF YOU WANT THESE BARAINS.**

Our Whole-sale List of Palms, Decorative Plants, etc., will be sent free on application.

## F. R. PIERSON CO.,

TARRYTOWN-ON-HUDSON, NEW YORK.

When Writing Mention Florists' Exchange

## STOP! STOP! STOP OFF

On your way to or from the Convention, and visit the

## ROSE HILL NURSERIES,

NEW ROCHELLE, N. Y.

The largest and finest collection of plants in the country.

### OUR SPECIALTIES.

PALMS, ORCHIDS, FERNS, PANDANUS VEITCHII, DRACÆNAS,

FIGUS ELASTICA, ARAUCARIA EXCELSA, Etc., Etc.

Come and see us and you will always know where TO BUY.

Write, telephone or telegraph us, and our carriage will meet you at the station.

### TRAINS EVERY HOUR.

30 minutes from Grand Central Depot, on the New York New Haven & Hartford Railroad.

## SIEBRECHT & SON,

NEW YORK OFFICE: 409 5th Ave.

NEW ROCHELLE, N. Y.

When Writing Mention Florists' Exchange

## THE COTTAGE GARDENS,

### WHOLESALE FLORISTS,

...QUEENS, N. Y.

## SPECIALTIES

Carnations,

Chrysanthemums,

Geraniums,

Dablias,

Cannas,

Boston Fern.

When Writing Mention Florists' Exchange

**SEEDS!**



**PRIMULA FIMBRIATA**  
(Chinese Primrose).

Rubra (Red), Alba (White), Alba Magnifica, Rubra Violacea, Chiswick, Redder, Village Maid or Choice Mixed.

Trade Packages, 50c. and \$1.00.

**CINERARIA**

Hybrida Grandiflora, choice mixed, Extra Fine Dwarf Mixed, Grandiflora Kermsiosa, Dbl. Flowering.

Trade Packages, 50c. and \$1.00.

**CALECOLARIA**

Hybrida Grandiflora, choice mixed.

Trade Packages, 50c. and \$1.00.

**WM. ELLIOTT & SONS**

NEW YORK.

When Writing Mention Florists' Exchange

**Prize-Winning**

**DAHLIAS**

AN UNPRECEDENTED RECORD.

23 First Prizes, Certificate of Merit, 2 Diplomas, and highest mention everywhere.

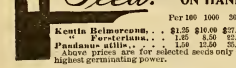
If you want the Very best Dahlias that bloom, send for our 1897 descriptive trade list now ready. Address

**W. P. PEACOCK,**

Dahlia Specialist, ATCO, N. J.

When Writing Mention Florists' Exchange

FOR AUGUST DELIVERY.



Per 100 1000 2000  
Kentia Belmoreana, . . . \$1.25 per doz  
Forsteriana, . . . 1.25 8.50 25.00  
Pansies, . . . 1.25 8.50 25.00  
Advance prices are for selected seeds only of highest germinating power.

**J. L. SCHILLER,** Rutherford, N. J.

When Writing Mention Florists' Exchange

**Fresh Seeds—Callia Bulbs.**

**Apple Geranium** (true), 25 cts. pkt.; \$1.00 per 100 seeds; \$7.50 per 10,000 seeds.  
**Marisa Eschete**, 75 cts. per 100 seeds; \$6.00 per 1000 seeds.  
**Scarfina Elegans**, 40 cts. per 100 seeds; \$3.00 per 1000 seeds.  
**Py. Pinks Variegata**, 25 cts. per 100 seeds; \$2.50 per 1000 seeds.  
**Alphabylla Australis** (True Fern), 50 cts. per 100 seeds; \$4.00 per 1000 seeds.  
Send for prices on Callia Lilies, August and September delivery. Send for Trade List of Novelties and Specialties for Autumn delivery.

**MRS. THEODOSIA B. SHEPHERD**  
Venture-by-the-Sea, Cal.

When Writing Mention Florists' Exchange

**Send Order Quick.**  
**FRESH PLANT SEEDS**—Extra Fine. . .

**KENTIA** Belmoreana or Forsteriana, delivery included. . . . . per 1000, \$6.50.

**Fresh Corypha australis** or **Seaforthia elegans**, delivery included, per 1000 \$7.75.

BY SAMPLES FURNISHED ON APPLICATION.

Send for our NEW PRICE LISTS of all Japan Bulbs, Seeds and Plants. Also lists of Dutch Bulbs, Romans, Valleys, etc.

LET US FIGURE ON YOUR WANTS.

Address, **H. H. BERGER & CO., 220 Broadway, New York.**

Branch Office, San Francisco, Cal. (Established 1878.)

When Writing Mention Florists' Exchange

**ALLEN'S DEFANCE MIGNONETTE**

New Crop, Growing Outside and Looking Fine, will be Ready August 1st.

This stock is all grown from special selected spikes and is sure to prove good under proper treatment. \$1.00 per set of 50 cts. per packet.

Still a little of the original crop left which will germinate about 50 per cent., at \$1.00 per set.

**CHARLES H. ALLEN, FLORAL PARK, N. Y.**

When Writing Mention Florists' Exchange

**HERR'S PANSIES**

ARE THE BEST.

**ALBERT M. HERR, LANCASTER, PA.**

When Writing Mention Florists' Exchange

**FREESIA REFRACTA ALBA!**

GUARANTEED PURE WHITE.

Bulbs  $\frac{3}{8}$  to  $\frac{1}{2}$  inch diam., \$4.00 per 1000. Bulbs  $\frac{1}{2}$  to 1 inch diam., \$7.50 per 1000.

Cash with order from unknown parties. Prices on all other bulbs and plants by correspondence.

Write for Price List, **F. W. O. SCHMITZ,** Jersey City, N. J.

When Writing Mention Florists' Exchange

**SEEDS**

KENTUCKY BLUE GRASS (POA PRATENSIS).

**CHAS. E. PRUNTY,**

MAIN AND MARKET, SAINT LOUIS.

When Writing Mention Florists' Exchange

**PANSIES.**

SEED + SEED

NEW CROP NOW READY.

**ROEHNER'S SUPERB PRIZE PANSIES.**

This strain includes all the leading varieties Orléans, Cassette, Bicolors and Parisian mixture; the quantities of these varieties will be made up as so tender and description unnecessary. \$1.00 per 1/4 oz. pkt.; \$10.00 per 1/2 oz. pkt.; \$20.00 per 1 oz. pkt. Cash with order.

**PETER BROWN,**

Wholesale Pansy Grower, LANCASTER, PA.

When Writing Mention Florists' Exchange

**SEED THE JENNINGS' STRAIN**

of best American grown Pansy seed; new crop now ready, saved from the very finest selected plants, all large flowering, in great variety and most splendid colors; without doubt the finest strain in the market to-day. The following complimentary letter is one of many received every year:

MR. E. B. JENNINGS, Dear Sir: The Pansy Seed applied by you has produced the finest lot of plants I have ever seen. They were an extraordinary plant. Send me one of your best mixed as soon as you are ready. Respectfully yours,

**WILLIAM SCOTT,**  
Try a packet of Jennings' mixed seed, and you will not be disappointed. Finest mixed, per pkt. of 2000 seeds, \$1.00; \$4.00 per doz.; \$3.00 per 1/4 oz.; 8 oz. \$15.00. White, yellow, black and blue, in separate colors, \$1.00 per pkt.; 50c. per 1/2 pkt., postpaid by mail. Price to Seedsmen on application. Cash with order.

**E. B. JENNINGS,** 254 S. Southport, Conn.  
GROWER OF THE FINEST PANSIES.  
When Writing Mention Florists' Exchange

**FOREST SEED.** 509 lbs. White Pine from the South Sea Islands also 17 lbs. Ash, Red Oak, Acorn, etc. Please send for special Catalogue.

**SPECIAL BARGAINS IN PLANTS.** White and Norway Spruce, 16 to 24 ft. (stock plenty), \$10.00 per 100. Double English Bittersweet, \$1.00 per 100. Dwarf White Red and Pink Jonquies, strong clumps, \$1.00 per 100. Strawberries, \$1.00 per 100. Lettichens, strong clumps, \$1.00 per 100. GRAPE VINE, \$1.00 per 100. When Writing Mention Florists' Exchange

**W. & D'S "SURE MUSHROOM SPAWN"**  
Special quotations to large buyers.  
**ALL KINDS OF BULBS,** Lilium, Harlequin, Hyacinths, Narcissus, etc., etc.

**WEBBER & DON,** Seed Merchants  
114 Chambers St., NEW YORK CITY.

When Writing Mention Florists' Exchange

**X PANSY SEED X**  
MAMMOTH SUNBEAM STRAIN.

A grand collection of giant flowering varieties. Fully selected and exceedingly fine. My customers are all well pleased with this strain. We are certain that they can't get better evidence of superiority than this. Price, \$1.00 per 100. \$10.00 per 1000. A pkt. of the rich Rainbow Fairy added to every order.

**JOHN F. RUPP,** Shilohstown, Pa.

When Writing Mention Florists' Exchange

**VAUTIER'S MAMMOTH PANSY.**

New crop seed now ready. This is the largest and most Pansy ever offered. Mr. Vautier has been over 20 years perfecting this strain. We are certain that you must from it to all of the U. S. plants to use and merit. Trade pkt. \$1.00; doz. \$10.00.

**H. G. FAUST & CO., 61 & 66 N. Front St.,**

When Writing Mention Florists' Exchange



When Writing Mention Florists' Exchange

**...PANSY SEED...**

Mixed together of Bugnet, Casser, Orléans, Trinardean, and many other varieties.

1/4 oz. \$2.50; 1 oz. \$5.00. Plants ready September 1st. \$1.00 per 100.

**PINK ROSES.**

7000 Primrose, single, mixed colors, \$2.50 per 100. Ch. H. with order.

**JOS. H. CUNNINGHAM,** DELAWARE, OHIO.

When Writing Mention Florists' Exchange

**2000 PRIMULA SINENSIS.**

(Chinese Primrose)

In separate colors. Seed imported from a leading specialist in Germany. Strong plants in 2 1/2 inch pots, \$4.00 per 100. Terms cash.

**HUGO BOCK,**

1052 MAIN ST. WORCESTER, MASS.

When Writing Mention Florists' Exchange

**Pansies Worth Raising.**

NEW CROP SEED OF THIS POPULAR STRAIN.

3-16 ounce . . . . . \$1.00  
1/2 ounce . . . . . \$2.25  
1 ounce . . . . . \$4.00

CASH WITH ORDER.

**G. Soltan & Co., 190 Grant Jersey City, N. J.**

When Writing Mention Florists' Exchange

**BUY FROM THE GROWERS DIRECT**

ALL BULBS AND PLANTS  
For Summer and Fall Delivery, Quoted at Very Low Rates.  
FREE ON BOARD CARS OR BOATS  
NEW YORK CITY.  
**HULSEBOSCH BROS.,** Englewood, N. J.  
When Writing Mention Florists' Exchange

**NEW CROP SEED NOW READY**

**ZIRNGIEBEL'S STANDARD PANSIES**

Silver Medal in Boston and First Prizes everywhere.

"Huge loads of velvet and gold."—Boston Transcript.

**GIANT MARKET and GIANT FANCY STRAINS,** in trade pkts., at 1 each.

Printed directions with every packet.

**DEHNS ZIRNGIEBEL,** Keesband, Mass.

When Writing Mention Florists' Exchange

**FORGING BULBS**

Special Import Price List Ready.

**CANNAS**

BURBANK - 75c. ITALIA - - 40c.  
YEL. GOLDZ - \$1.50 AUSTRIA - - 20c.

All Standard and New at Market Price.

**VAUGHAN'S SEED STORE,**

NEW YORK, CHICAGO,  
14 Barclay St. 84-86 Randolph St.

When Writing Mention Florists' Exchange



**You CAN RELY ON**

**W**



**NOW IS THE TIME TO SOW**

**CINERARIA SEED. CYCLAMEN GIGANTEUM SEED.**

	1/2 Trade Trade	
	pkc. pkc.	
Giant Prize Dwarf Mixed...	100	\$1.00
Medium Tall...	50	1.00
Crimson...	50	1.00
Blue...	50	1.00

Ground by one of the most reliable growers in England, and can be relied upon to produce flowers of the largest size and most brilliant colors only.

1000  
Bright Red or Crimson..... 1.25 3.00  
Bright Pink..... 1.25 3.00  
Pure White..... 1.25 3.00  
White with red..... 1.25 3.00  
Mixed, of the above colors..... 1.00 8.00  
250 seeds or over at 100 rate.

**PIPAULA SEED**

REMARKS—Germanium, Phila., March 9, '97. Dear Sir:—The cineraria seed I had from you has given excellent results, the colors were all in the shade of Canada seed. I have measured 1 1/2 inches in circumference, it is the best of Canada seed I have ever handled. Yours very respectfully,  
J. M. C.

**CYCLAMEN GIGANTEUM SEED.**

The very choicest European mixture of all large flowering and selling varieties. For 1/4 trade packet, 80cts; per trade packet, \$1.00.

**1818 MARKET ST. PHILA. ILLUSTRATED CATALOGUE FREE**

**PANSY SEED**

REMARKS—Cottswell, Pa., July 25, 1897. Dear Sir—Last year I got from you 1/4 oz. of your Giant Kew Pansy Seed. They produced a grand assortment of flowers. I have ever grown, and I had seed from many other leading houses. Please send me 1/4 oz. of this variety. Respectfully yours, H. A. M.

**MICHELL'S GIANT EXHIBITION.**

The very choicest strain to be procured. It contains the cream of the French, Scotch and German fancy panies. Choice mixture of the above varieties. per 1/4 oz., \$1.50; per 1/2 oz., \$2.00; per oz., \$3.00.

**MISHROOM SPAWN**

REMARKS—Harrisburg, Pa., May 15th, 1897. Dear Sir—There seems to be no end to the large crop of mushrooms from the spores which you purchased from you. Very respectfully, C. S. H.

**ICYCLAMEN GIGANTEUM**

Just received from England, in excellent condition. Price, \$7.00 per 100 lbs. Write for special quotation on larger quantities.

**MIGNONETTE**

HENRY F. MICHELL.  
FRED. J. MICHELL.

**ALEN'S DEFIANCE, per oz., \$1.00. MACHET (Trade), ..... \$1.50.**

**CAKE STAKES**

REMARKS—Harrisburg, Pa., May 15th, 1897. Dear Sir—There seems to be no end to the large crop of mushrooms from the spores which you purchased from you. Very respectfully, C. S. H.

First quality, 7 to 10 feet long, \$5.00 per 1000  
1000 seeds, per 100, 600 at 1000 rate.

**SEED TRADE REPORT.**

Points and information from seedmen, and all interested in the column solicited. Address Editor SEED TRADE, care of Florists' Exchange, P. O. Box 1867, New York.

New York—Samuel Cole, Ventura, Cal., sailed for Europe on Saturday (today). He has been making a tour of the Eastern states.

Long Island Seed Crop—The harvest is almost ended and the crops are being taken in. The result is about as we have stated.

California—Less than we anticipated, owing to its bad condition. There is, in some sections, much shrunken seed, owing to the blight. Some pieces will be light on account of the seed having sprouted in the field. About two-thirds of the growers have lost heavily from the seed shelling out before it could be gotten in, and only one-fourth of the growers, those in favored spots, have secured very heavy crops. It is not safe to reckon more than half a crop. But as the average planted was large, no great shortage need be feared.

What are the Prospects in the question we hear on every side, and there comes no answer; all are anxious to hear, and but few seem willing to say much. But there is evidently a much better feeling all around, and prices have, in some lines, materially advanced.

Where there was a surplus there is now a shortage. Six months ago the country seemed deluged with stamach, now the prices have materially advanced. Large sales have recently been made at a good figure, and it is safe to say that it will bring today 50 per cent more than it

could have been bought for three months ago.

The outlook for peas and beans is just as bad as it is possible to be. The large field crops will undoubtedly be disposed of at good prices, and the market cleared up so that the future transactions can be done on a paying basis.

The tariff question seems to have been settled very satisfactorily to the trade in general. Those who have large growings in Canada as well as those who import largely for retail and commission trade, are well pleased with the result.

Some of our large bulb importers are very happy, as they now find that the foreign surplus of Dutch bulbs will no longer be thrown upon our market, after our dealers have supplied, and prices ruined by auction sales of surplus stocks, which are not likely to be held here, as the growers will hesitate long before paying 25 per cent, on their catalogue prices, unless they can be placed over the auction block. But where our trade is to be benefited, very materially strengthened, is in the fact that the foreign seed trade cannot avail itself of the advantages of our retail trade. Should the seedmen wish to import, they must pass through the Custom House, no matter how small the amount, and pay duties there for every reason to rejoice over the change. There is no reason why every possessor in our country should not be able to get the foreign seedmen, without his paying a cent toward the expenses of our government.

Many of the foreign seed men boast of the privileges they have in this respect, but they are not to be envied, as retail business of our country, basing their assertions on the fact that, owing to cheap labor, they can do it more cheaply than we can. We trust they will be disappointed.

At present the trade is on the anxious seat of inquiry into the means into which the government plan to fall. As of old, every one consumes the practice, and nearly every one is anxious to secure the contract. Secretary Wilson is to continue the fare; in fact, he is powerless

to prevent it, his hands being tied by an unscrupulous Congress. That he will do as well as he can earnestly hope; and the trade is anxious to know just how we are to be helped, but it is only reasonable to expect there will be another clearing out of surplus stocks, and we should not be surprised if it were done by different hands this year. The following extract from a private letter will show how one of the most important seed houses in our country feels about the matter. We wish all in the trade left in the same way.

"We have not yet learned anything about the government bid. We understand through the papers that Secretary Wilson will follow out the Morton plan of buying seeds already purchased. If this is the case, we are not in it. We are not prepared to put up seeds at such extremely low prices as they were put up last year. We do not believe any of those fellows made a dollar; and the only advantage we can see is that it made a market for some of their surplus stock. We have heretofore refrained from putting in any bids for the packet seeds, believing we could not make anything out of it; and we will not undertake to make any bids, but will not care for business enough to go to for "Erie Seed" for nothing and then have him for competitor by giving away seeds. It is a shame on our government to be doing this kind of business and destroying the industry of the men to whom, as you know, in nearly every case is hardly making ends meet; and for this conduct of the government is largely responsible."

**European Notes.**

The weather has drifted back into an unsettled condition again, but as the rain only comes to us in the form of thunderstorms, these are, of course, very partial in their visitations, and while some of our fields are now being deluged, others are dry and hard as a mandarin road in the full glare of the sun.

Cultivators are now being harassed and a very sorry show it makes, if contrary to our expectations the trade in this article should be brisk during the coming

season, many of the late orders will be filled with difficulty.

Let us be improving except on some of the drier lands in Germany, where the drought is very persistent; throughout the large and with an early harvest time, last season's shortages should be made good.

Endive will not be a large crop, but the seed should be of the quality if present conditions are maintained. The importance of this crop may not be so fully appreciated on your side as it is in Europe, but by those who have tested it early, the health-giving properties of the plant are fully recognized.

Cress and mustard are ripening in good shape; the acreage of the latter is not so large as usual, and prices are firm with a distinctly upward tendency. The same is true of rape, which now worth 50 per cent more than in August last. During the past season the demand for this article has been simply enormous, and a complete clearance has been effected. As already pointed out some months back, the average of this valuable crop left for seed is much smaller than last year.

The drought has still further reduced the crop, and with only a moderate demand, prices will continue to rise.

Crimson clover is more abundant than we had supposed, and some extra fine samples, both English and French, have been offered during the present week at very tempting prices. Some of the English farmers mixed a little with their red clover last year and are so well satisfied with the results that the practice will be more extensively pursued this year.

Mr. W. Atlee Burpee of Philadelphia, is in London.

Sweet Pea Cupid.—The following extract from the "Gardener's Chronicle" of July 17 fully confirms the remarks of the writer respecting Cupid sweet pea, which again, as your issue of the 19th inst. says:—

A few days ago, when visiting Mrs. Price's garden at Pen-Moel, near Chesham, we were surprised to have some excellent chumps of this variety pointed out to us by Mr. Simpson, the gardener. He had planted the chumps in some positions, and each of them was a mass of blossom. Some of the chumps were almost podding freely. Four seeds were sown in

London.

Let us be improving except on some of the drier lands in Germany, where the drought is very persistent; throughout the large and with an early harvest time, last season's shortages should be made good.

Endive will not be a large crop, but the seed should be of the quality if present conditions are maintained. The importance of this crop may not be so fully appreciated on your side as it is in Europe, but by those who have tested it early, the health-giving properties of the plant are fully recognized.

Cress and mustard are ripening in good shape; the acreage of the latter is not so large as usual, and prices are firm with a distinctly upward tendency. The same is true of rape, which now worth 50 per cent more than in August last. During the past season the demand for this article has been simply enormous, and a complete clearance has been effected. As already pointed out some months back, the average of this valuable crop left for seed is much smaller than last year.

The drought has still further reduced the crop, and with only a moderate demand, prices will continue to rise.

Crimson clover is more abundant than we had supposed, and some extra fine samples, both English and French, have been offered during the present week at very tempting prices. Some of the English farmers mixed a little with their red clover last year and are so well satisfied with the results that the practice will be more extensively pursued this year.

Mr. W. Atlee Burpee of Philadelphia, is in London.

Sweet Pea Cupid.—The following extract from the "Gardener's Chronicle" of July 17 fully confirms the remarks of the writer respecting Cupid sweet pea, which again, as your issue of the 19th inst. says:—

A few days ago, when visiting Mrs. Price's garden at Pen-Moel, near Chesham, we were surprised to have some excellent chumps of this variety pointed out to us by Mr. Simpson, the gardener. He had planted the chumps in some positions, and each of them was a mass of blossom. Some of the chumps were almost podding freely. Four seeds were sown in

London.



Fig. 1. Newport's Gardens—Bed of *Yucca filamentosa*.

a 5-inch pot in early spring, and placed in a frame, and after being thoroughly hardened off were planted out, but great care was necessary to prevent slugs from devouring the dwarf neat clumps. The garden at Pen-Moel is practically a lime-

stone quarry, and before trees and shrubs could be planted, the rock had to be blasted, and fresh soil carted in. The soil is highly impregnated with lime, and to that fact I have no doubt Mr. Simpson may attribute his success.

**Newport's Ocean Avenue.**

Bellevue avenue extends from the heart of the city to what is now to be known as Spouting Rock Beach, where the famous cliff walk outlined in a previous

article also practically terminates. At present many and costly improvements are in progress at this point, as the wealthy summer residents are many of them dissatisfied with "the old beach" since it is now the resort of so many ex-



Fig. 2. Newport's Gardens—Ivy-covered cottage, illustrating growth of *Ampelopsis tricuspidata* at Sea Side.





**JOHN CONLEY & SON,**  
MANUFACTURERS OF  
**TIN FOIL**  
2 and 4 Dominick Street,  
NEW YORK.

When Writing Mention Florists' Exchange  
**MANURE.**  
Fresh and well rotted horse manure. Mature for Mesquero ground a specialty. Excellent fertilizer for shipyard by Peck's, B. K. F. & S. F. & O. and also by boat. Wm. A. Abernethy, Room 303 100 Fleet Street, Philadelphia, Pa.  
When Writing Mention Florists' Exchange

**SHEEP MANURE**  
Cleaned and prepared in refer to florists' use. You will find it the best on article. For trial refer to its being first-class I refer you to Henry F. Michael, 100 Market Street, Philadelphia, Pa. Price about 150 lbs. \$3.00 per ton, 125.00 at too rate. Cash with order.  
**CODFREY ASCHMANN,**  
1012 Ontario St., PHILA., PA.  
When Writing Mention Florists' Exchange

**SHEEP FERTILIZER**  
PULVERIZED. COMPRESSED.  
A Quick Germinator and Crop Forcer  
NATURAL. CORROSION. CLEAN TO HANDLE.  
**JOHN J. PETERS CO.,** Long Island City, N. Y.  
When Writing Mention Florists' Exchange

**M. RICE & CO.,**  
Importers and Manufacturers of  
**FLORISTS' SUPPLIES.**  
25 N. 4th St., Philadelphia, Pa.  
NEW FALL CATALOGUE NOW READY  
When Writing Mention Florists' Exchange

**"JADOO"**  
FIBRE and LIQUID are used and endorsed by the leading growers. Try them and be convinced.  
When Writing Mention Florists' Exchange

**CHOCOLATE COOLER CO.,**  
GRAND RAPIDS, MICH.  
Manufacturers of  
**FLORIST'S REFRIGERATORS.**  
Send for Circular.  
When Writing Mention Florists' Exchange

**THE KENTUCKY EXTRACT CO.**  
MANUFACTURERS OF  
**ROSEBUD WAREHOUSE**  
125 W. 25th St. NEW YORK

TELEPHONE, 1782 18TH ST.  
When Writing Mention Florists' Exchange

**DEATH TO THE INSECTS**  
THE KENTUCKY EXTRACT CO.'S  
KILL IT  
As an insecticide for quick destruction of the Aphid, can be used by the florist. For full details see circular. A leading sentiment.  
**SURE**  
THE KENTUCKY EXTRACT CO. Columbus, O.  
SOLE MANUFACTURERS.  
Buck of Decisions Best Upon Application.  
When Writing Mention Florists' Exchange

**CHRYSANTHEMUMS.**  
The plants are now growing nicely and are all the way from one to three feet in height. I find Ivory this year a quick grower being up two feet and that too with most of them grown to three flowers. Mrs. H. Robinson grows very finely and she has the more I see of the better I like it. I really think it is, today, our leader in white, for its season.  
A good many of the new ones show well in growth, but a few of them are not up to the mark. This is especially the case with Western King. I think perhaps it is a matter of over-propagation, and hope that later in the season it will do better.  
At present give your soil a good stirring, cleaning it and the plants of weeds and decayed or bad foliage. Give the beds a top dressing of one inch cow manure. This will prevent the soil getting a hard shell on top, and at the same time impart strength to the plants. This top dressing will be sufficient for the present, and later it can be renewed.  
The first set of my specimen plants I put at the present time in 10-inch pots, and give them, at the same time, a low place on the floor of a 10-foot house. I find that the cooler the pots stand the better; the plants show a benefit in their growth, and are at the same time large enough not to be too far away from the glass. In case they grow very close, stake them here and there to draw them apart.  
I have a lot of young plants potted from the cutting frame in 5-inch pots the last part of June. They are now reported in 4-inch pots, and used for single-stemmed plants, or for small market plants in 3-inch pots, later on. Copy single stems in that class, Ivory, Mutual Friend, Helen Bloodgood, Vivand-Murel, and Golden Wedding come just about right in height and size; but later in the season they have to go into 5-inch pots, excepting Ivory and Fred Wald, both of which look better in 5-inch, which size pot will be large enough to give fine healthy plants. Theo. Beck.

**CHANGES IN BUSINESS.**  
NEWARK VALLEY, N. Y.—Mrs. W. H. Wright is building a greenhouse here, and will embark in the florists' business.  
OWENSO, MICH.—Herb B. Deal has rented the Central greenhouse.  
ROME, N. Y.—H. B. Boles of Syracuse, N. Y. has leased the Clinton greenhouses of Mrs. Cora Elwood.  
GLOVESVILLE, N. Y.—E. W. Giddings has leased his greenhouses on North Main street to E. Lockard of Brockton. Mr. Giddings will continue to reside at No. 254 N. Main street, his reasons for renting his business being that his daughter House doorkeeper at Washington and also the care of his father-in-law, the father, of which he is executor require all of his attention.

**EXHIBITIONS.**  
Indianapolis.—The final premium list for the eleventh annual Chrysanthemum Show and Floral Festival, given by the State of Florida, American Horticultural Association, has been issued. The exhibition will be held at Tompkins Hall, November 2 to 6 inclusive. H. A. McKeand, Garfield Park, is secretary.

**WELCH BROTHERS,**  
DEALERS IN  
**FLORISTS' SUPPLIES.**  
15 Province Street, BOSTON.  
Cnapman Place,  
Wire Design, What Sheaves, Baskets, Imports, and all other supplies, at prices to meet competition.  
When Writing Mention Florists' Exchange



**Butted Glass**  
This is no longer an experiment, it has come to stay. There are various ways of making Butted Roofs, but the best way is with the  
**Clipper Bar.**

With this bar you can make a roof that is absolutely free from drip, and glass cannot be torn out by the wind. Butted glass makes a light roof, a warm house and saves fuel. It lasts longer, looks better and costs less than the old-fashioned roof. But do not think that this is the only bar we sell, for it is not; we furnish what people want and there is nothing in greenhouse material that you cannot get from us, and all of specified quality. Orders of bright sap, stained sap, knots and all other defects.

**LOCKLAND LUMBER CO.**  
LOCKLAND, O.  
Mention paper Write for Circulars or Estimates.

**PIPE VALVES**  
Wrought Iron Pipes, Valves, Cooks, Fittings, etc., for Steam and Hot Water; Rubber Hose, Pumps and Well Points.  
WM. H. KAY, 42 Dey St., New York.  
When Writing Mention Florists' Exchange

**Make an Early Season Tile**  
by using our AGRICULTURAL DRAIN  
is advance of that which is drained. We make all kinds of the and Sewer Pipe, Red Pressed Brick, Fire Bricks, Chimney Tops, Flues, Excavator Side Walks, etc. Write for what you want. JOHN H. JACKSON, Albany, N. Y.  
When Writing Mention Florists' Exchange



**Chadborn's Automatic Ventilator**  
**CHADBORN, KENNEDY & CO.**  
NEWBURGH, N. Y.  
When Writing Mention Florists' Exchange

**THE BEST FOR ALL Florists.**  
FOR SALE BY Seed Store.  
For Free Pamphlet, Write to LEWISVILLE SPIRIT CO. (Care) TOBACCO CO., Louisville, Ky.  
When Writing Mention Florists' Exchange

**BOILERS FOR SALE!**  
Two No. 3, Style C, GURNEY HOT WATER DOUBLE CROWN BOILERS, complete. In use five seasons. Were heating 30,000 square feet of glass for Palm growing. Offering for sale because we are increasing our capacity. These boilers cost \$450.00 each. We offer for \$200.00 each. I. O. B., Riverton, N. J. Also one Locomotive Boiler, 11 ft., 4 ins. long, fire box, 3 ft., 9 ins., by 2 ft., 3 ins., with 23 x 1 in. tubes, 6 ft., 9 ins. long, has been used for steam at 30 lbs. pressure. Will sell for \$50.00. Is in good order and ready for service at once.  
**HENRY A. DEER,** 714 Chestnut PHILA., PA. Retail.  
When Writing Mention Florists' Exchange

**FOR MILDew AND BLACK ROT**  
on Roses, Fruits and Vegetables, and Carnation Root  
**USE FOSTITE,** 5 pounds, 35 cents. 25 pounds, \$2.00.  
**C. H. JOOSTEN,** IMPORTER OF SEEDS, BULBS AND PLANTS.  
133 Greenwhich St., New York.  
When Writing Mention Florist's Exchange

**SAVE THE BLOOMS! NIKOTEN**  
DOES NOT INJURE SENSITIVE PLANTS USED FOR FUMIGATION OR SPRAYING INDOORS OR OUT  
200 PAGES, 25 CENTS. 100 PAGES, 15 CENTS.  
ALL SEEDSMEN.  
When Writing Mention Florists' Exchange

**Y-PRESS**  
GREENHOUSE MATTERS, CRIBS, ETC., OF ALL DESCRIPTIONS.  
**JOHN C. MONINGER Co.**  
412 to 422 HAWTHORNE AV. CHICAGO, ILL.  
When Writing Mention Florists' Exchange

**Boston Florist Letter Co.**  
The wooden box nicely stained and varnished, 16x30 1/2 made in two sections, one for each size letter, glass spring with first order of 500 letters.  
Block Letters, 1 1/2 of each size per 100, \$2.00  
Script Letters, \$4.00  
Furniture with each letter or word.  
Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.  
**N. F. MCCARTHY, Treas. & Manager.**  
100 STATE ST. BOSTON, MASS. 02102  
When Writing Mention Florists' Exchange



Club Picnic.

The first annual basket picnic and held given by the Florists' Club was...

From present indications there will not be a very large representation of florists at the S. F. Convention at Providence.

Recent visitors were: W. H. Hill, representing the Andrews & Sons, Philadelphia, and C. P. Lohman of Lohman Company, Detroit.

Philadelphia.

The summer outing of the Florists' Club on Saturday last was a very enjoyable one.

Recent visitors were: W. H. Hill, representing the Andrews & Sons, Philadelphia, and C. P. Lohman of Lohman Company, Detroit.

CAPTAIN TEAM. BARBUS TEAM.

- Anderson.....15 Allen.....13 Colless.....15 Bell.....13 McKarher.....7 Tappin.....7 Jones.....9 Ball.....7

Next came the baseball game of nine composed of store men and growers respectively. This game created great excitement for the spectators.

Then came the sack race which was run in two heats. George Moss won the first heat and Philip Westcott being in the final, Plush won by one foot.

The wheelbarrow contest came next. This was won by a narrow margin 30 yards away, the contestants being handicapped. The prize was won by F. Adams and Philip Westcott being a good second.

Next came the potato race, about 100 yards in length. The first heat was won by John Fitchingham was the winner. The second heat was won by Mrs. Magee who proved herself to be an expert in this line.

Club Meeting. The meeting on Tuesday last was a very enjoyable one and was well attended. Four new members were elected.

The subject for discussion at the September meeting was "What can be accomplished at the S. F. Convention," and will be opened by Edwin Lonsdale.

The unfinished discussion, "Is It Policy to Sell to Department Stores?" was taken up by Mr. Allen K. Wells on Monday upon as he was absent at the last meeting. He stated that it was his policy to sell to the retail trade, and that the department stores always did this, he was glad to sell to them.

point, he thought it the best policy to sell to the department stores.

Robert Kilt read a letter received from a florist in the suburbs stating how the department stores had hurt his business.

William Eaton said he thought the up-town florists would have to establish a club in order to have some counter attractions about the plants bought at the department stores.

Convention Notes.

John Westcott, chairman of the transportation committee, made a report on the various routes to Providence, and especially the route of the Narragansett Railroad to New York, thence by Providence boat. This route was adopted by the club.

All going should at once notify John Westcott, Ridge and Lehigh avenues, who will have stationery reserved for you.

At the club meeting, besides routine business, there was an interesting outing were entered into. The matter was placed in the hands of W. F. Kasting, John Milley, and William Gray.

At the Botanic Gardens.

Professor Cowell can be justly proud of a collection of plants which he has collected in the vicinity of this gentleman's ability is a thoroughness showing in any line undertaken.

Exhibition Notes.

Several prizes and antirium were the specialties for which prizes were offered by the Massachusetts Horticultural Society.

Merchandise.

A party of representative florists of the Hub and vicinity gave a testimonial to Fred H. Mathison of Clematis Brook.

John Barry is at Sing Sing, N. Y. He is well and writes to his friends.

Charles Jackson Dawson is rusticated on the coast of California.

E. J. Welch returned on Monday from a month's outing at Old Orchard, Me.

John Barry is at Sing Sing, N. Y. He is well and writes to his friends.

Charles W. Alden, in the employ of the New York & Albany, was married on Wednesday at St. Peter's Church in South Boston, to Miss Margaret...

E. M. Wood & Co. are making extensive alterations at the Waban Conservatory in Natick. Two houses have been taken down and the new structure is being erected.

Weather and Crops.

Agreeable weather for the season now prevailing, the extreme rain-storms having subsided. A quiet shower in the early evening of Thursday last week brought a bit of hail, but no serious damage is reported.

The early ones are, in Queen of the Market, white, bringing at wholesale, \$1 per dozen bunches, the consumer, in turn, paying 10c to 15c per bunch. Sweet peas are plentiful enough, with quality only fair at present.

Decorative Plants.

Decorative plants are for an outing were entered into. The matter was placed in the hands of W. F. Kasting, John Milley, and William Gray.

At the Botanic Gardens.

Professor Cowell can be justly proud of a collection of plants which he has collected in the vicinity of this gentleman's ability is a thoroughness showing in any line undertaken.

Exhibition Notes.

Several prizes and antirium were the specialties for which prizes were offered by the Massachusetts Horticultural Society.

Merchandise.

A party of representative florists of the Hub and vicinity gave a testimonial to Fred H. Mathison of Clematis Brook.

Decorative Plants.

Decorative plants are for an outing were entered into. The matter was placed in the hands of W. F. Kasting, John Milley, and William Gray.

At the Botanic Gardens.

Professor Cowell can be justly proud of a collection of plants which he has collected in the vicinity of this gentleman's ability is a thoroughness showing in any line undertaken.

Exhibition Notes.

Several prizes and antirium were the specialties for which prizes were offered by the Massachusetts Horticultural Society.

Merchandise.

A party of representative florists of the Hub and vicinity gave a testimonial to Fred H. Mathison of Clematis Brook.

Decorative Plants.

Decorative plants are for an outing were entered into. The matter was placed in the hands of W. F. Kasting, John Milley, and William Gray.

At the Botanic Gardens.

Professor Cowell can be justly proud of a collection of plants which he has collected in the vicinity of this gentleman's ability is a thoroughness showing in any line undertaken.

Primitives.

- Conchumham H.....710 Rogers Park G. Co.....710 Hughes Geo.....728

Kristi creators.

- Choclate Oler Co.....717 Howes.....716 Book Flow Co.....716

Dahlias.

- Allen Chas.....712 Amun R.....728 Beaulieu H.....719

Decorative Plants.

- Baker Oba F.....716 Ball C D.....716 Baker A.....716

At the Botanic Gardens.

- Allen Chas.....712 Amun R.....728 Beaulieu H.....719

Exhibition Notes.

- Allen Chas.....712 Amun R.....728 Beaulieu H.....719

Merchandise.

- Allen Chas.....712 Amun R.....728 Beaulieu H.....719

Decorative Plants.

- Allen Chas.....712 Amun R.....728 Beaulieu H.....719

At the Botanic Gardens.

- Allen Chas.....712 Amun R.....728 Beaulieu H.....719

Exhibition Notes.

- Allen Chas.....712 Amun R.....728 Beaulieu H.....719

Merchandise.

- Allen Chas.....712 Amun R.....728 Beaulieu H.....719

Decorative Plants.

- Allen Chas.....712 Amun R.....728 Beaulieu H.....719





Providence, The Convention City.

Swan Point Cemetery.

This cemetery may be reached by the electric cars of the Broadway, Elmwood, Olneyville, and East Providence routes...

The car leaves Market Square and about twenty minutes ride will reach the steepest inclines in the city, over which runs the only cable tramway in Providence...

Across from the court-house is the Athenaeum, a small and handsome granite building of the Grecian temple type...

We are now riding through the arborescent enclosure of the Swan Point cemetery, which is situated on the east side of the hill...

Here we follow the handsome new driveway, the cars of the cable tramway, passing the extensive greenhouse plants of Timothy O'Connor and E. J. Johnston...

Next is the beautiful grounds of the Butler Hospital. In 1874 a former patient presented to the hospital a cemetery called the "Conservationary."

Swan Point Cemetery adjoins the grounds of the Butler Hospital to the north, and for more than half a mile follows the river's shore...

A more beautiful spot could not have been selected for its location. Lying directly upon a gentle slope on the western bank of the Seekonk River...

It seems almost strange that this beautiful park of the dead should receive more than a passing consideration on the part of the visitor...

It is a half-century ago that this cemetery was established. The main entrance is a well-kept walk leading to the main entrance...

Through a wide gate way hidden by trailing vines and covered by a circular path shaded upon two sides by immense elms...

Of first importance no doubt are the flowers and shrubs which are introduced and interest the grounds in all directions...

Within the grounds nurseries for hardy vines and shrubs have been started, and throughout the premises the use of deciduous and evergreen trees and shrubs has been largely encouraged...

Throughout the cemetery are scattered many of the flowers and shrubs which much interest is centered in. In one of these is the cascade, filling and overflowing with flowers...

Hours could be pleasantly and profitably and profitably spent in the arbors, trails, vines, flowering plants, stately trees, and choice exotics...

The principal places to be visited by the convention are the greenhouse, the fountain, the drawing attention to the extensive sheds of marble and granite...

With these monuments and the natural beauties of Roger Williams chosen city, we will bid adieu to Providence...

Syracuse, N. Y.

The farmers in Onondaga and Madison counties, N. Y., are suffering from the late rains, tons of hay have been entirely washed away...

The members of the Central New York Horticultural Society have accepted an invitation to participate in the parade on October 12...

The members of the Central New York Horticultural Society have accepted an invitation to participate in the parade on October 12, on which day the city will celebrate its centennial...

C. L. Mace's greenhouses were sold July 21st under mortgage foreclosure.

Utica, N. Y.

J. C. Spencer is enjoying a vacation leave with his brother at the Thousand Islands...

Peter Crove is the only florist we have so far heard of as expecting to go to the convention. C. F. Baker's health has not been of the best lately...

Pfeifer & Kauter have their two new greenhouses, each 20x100 feet, one for roses and the other for carnations...

Very little business now, and the florists generally are cleaning up, repairing, and painting.

Greenfield, Mass.

I am trying the plan of growing violets (M. Louise) in the house all through the season...

Building walls. The walls of the place (at the instigation of Manager Kennedy) of the Boston Flower Market is being troweled with concrete...

Carnations with me are looking fine. Carnations have not got on very well, but may be a little sorry, owing to the rains...

Pittsburg.

I should not mention business at all, for the last week very dull—nothing going on to help the florists' trade...

That competition between us is very keen is shown by the close bidding for trees and shrubs for the new building...

Superintendent Falconer of Shenley Park is expected to visit the city in the East, visiting New York, Rochester, Buffalo, Brooklyn, and Boston...

Visitors during the week were: Mr. Deans of the Dayton Paper Box Co.; J. C. Johnson of Washington, D. C.; John H. H. E. C. Ludvig's rock artist...

Hamilton, O.

John Loddor & Sons are building two new houses even span, 20x120 feet, with a 60-foot shed, 12 feet wide, attached...

Very little business now, and the florists generally are cleaning up, repairing, and painting...

RESTRICTED BOX.

OPEN TO ALL. FREE TO ALL. Answers Solicited from Those Who Know.

(118) Violets in Carnation House. Can violets be grown in carnation houses? I can give the violets more air than the carnations...

(119) Crop For a Cold House.—What crop can I get from a low house without heat to be in full bloom in January?

(120) Shipping Flowers to Market.—C. L. B.—To ship in bulk, proper boxes or cases with trays are the best. Another plan is to ship in flats...

(121) Pansies for Spring Sales.—H. L. R.—Pansies may be sown now, or in a frame and then transplanted into prepared frames and exposed to the sun...

(122) Piping.—I have 1,200 lineal feet of 4-inch pipe which I wish to pipe two chambers each 15x100 feet...

(123) Pansies for Spring Sales.—H. L. R.—Pansies may be sown now, or in a frame and then transplanted into prepared frames and exposed to the sun...

For the mushroom house it will best to have only small pipe, as that will permit of a better fit...

Catalogues Received. HULSEBROEK BROTHERS, Englewood, N. J. have just published a catalogue of choice Dutch bulbs, seeds and plants...

ALBERT M. HERR, Lancaster, Pa.—Price List of Fancy seed.

**S.**  
**The American Carnation Society.**

*Editor Florists' Exchange.*

My attention has been called to an article in the New England Florist, under the signature of Mr. Lothrop Wight. The officers of the American Carnation Society believe that such a course would be throwing mud in any direction he chooses, but as some of the erroneous statements made are so gross as to call for the object for which the August meeting is called, it seems necessary that they be called.

The calling of a meeting at Providence is neither a direct nor an indirect violation of the constitution, nor of any other article of the constitution, nor of any by-law. Article 6 provides for the calling of a meeting for "any emergency" (not one only as Mr. Wight has it), and sets forth how and how it shall be called. There is not other in this article, or any other, which prohibition either expressly or implied against the holding of other meetings.

The meeting at Providence cannot take action which will be in any way binding on the society unless ratified at the regular annual meeting. There will be many articles of the constitution, and of the by-laws, and it is desired that they meet and carefully examine into the present situation of the society, and that they be present are earnestly requested to forward to the secretary any suggestions which they may desire to see adopted or management. These suggestions can then be tabulated and published, and the society will then have the meeting fully informed, and matters can be disposed of quickly and intelligently.

To say a small florist establishment with good household, writing station, all particulars of a B. & C. care Florists' Exchange.

**WANTED**  
To purchase at a low price, within a radius of 30 miles from New York City, a small florist's plant with from one to five acres of land, and two to five greenhouses, by a young man starting in the business.

**E. T. DICKINSON, 1 Broadway, N. Y.**

**Terre Haute, Ind.**

J. G. Heintz made one of a party of 300 who recently made a tour of Mexico; trying to find the best sites for growing in comfort. Mr. Heintz speaks most enthusiastically of Mexico's glorious climate, and the soil, and the water, and the great growth; *Bougainvillea glabra* attains a height of 30 feet, the color being bright red, as never seen in this country. *Magnolia grandiflora* is clipped by huge trees of *Ficus elastica*, which produce a beautiful shade. *Tradescantia* grow on terraces and have the appearance of a beautiful waterfall; in the gulches canines abound, many being of exquisite color. The City of Mexico possesses a handsome flower market, which, like that so well known in the South of Northern markets, is well supplied with native orchids, roses, sweet peas, poppies, and numerous sizes of gladioli, double stocks, and gardenias. A large wealth exists about a dollar, and a large number of people are engaged in its proportion.

The extremes of wealth and poverty are not here as elsewhere; many of the residences and townships are princely, and the streets are clean and bright. Incidentally, Mr. Heintz witnessed a bull fight which he describes as most brutal and cruel.

Fred. Heintz is working up quite a stock of *Neprolepis elata* compta which is well known and will be in great demand this season.

**Shreema-ram, Pa.**

A visit to the well-kept greenhouses of John H. Sapping, on South second street, assures us that he is fully prepared to meet the demands of this trade. His stock of plants and cherries as well as all other varieties of flowering plants. Of these are the most beautiful and the most healthy plants. This firm enjoys the national and Canadian reputation of growing the best plants in the States and Canada. They also have a very large mail order on seed specialties of various kinds, cherries, exclaim and potatoes.

**One 3 sh. N. Y. Florist.**  
Miss Joseph Hill, Brooklyneer for J. K. Adams, care of the Florists' Exchange, in writing with Mrs. Flora T. Howell, of this place.

**Batylon, L. I.**

E. B. Sutton, Jr., has extended his violet plant this season by the erection of two additional houses, each 15x150 feet. This will make his houses in all about 20,000 plants have been planted. His carnation houses have also been supplemented by the erection of one more house, 16x150 feet.

**Baltimore.**

George G. Gill has broken the greenhouses attached to the jail which were formerly run by the Jail Board. Mr. Gill will furnish the plants necessary to keep the jail yard in view.

**Passaic, N. J.**

William P. Kesteloo's infant daughter, Anna Susan, died suddenly on July 18.

**NOTICES.**

**THE ANNUAL MEETING**  
Of the Members of the Florists' Hall Association will be held in Music Hall, Providence, R. I., on August 14, 1897, on Wednesday, August 18, 1897.

**JOHN G. ESLER, Secretary.**

**MISCELLANEOUS WANTS.**

**WANTED.**  
To buy a small florist establishment with good household. Writing station, all particulars of a B. & C. care Florists' Exchange.

**WANTED**

To purchase at a low price, within a radius of 30 miles from New York City, a small florist's plant with from one to five acres of land, and two to five greenhouses, by a young man starting in the business.

**E. T. DICKINSON, 1 Broadway, N. Y.**

**BUSINESS OPPORTUNITIES**

**FOR RENT.**  
Two greenhouses, 100 ft. long by 20 ft. wide, heated by steam; to a good, reliable party. Single man preferred. For particulars, apply to Messrs. S. P. Webb, Parkersville, Chester Co., Pa.

**FOR SALE CHEAP.**

**FIVE GREENHOUSES**  
**AT RAMSEYS, N. J.**  
**HITCHINGS & CO., 233 Mercer St., N. Y.**

**NEWPORT, R. I.**

For sale, the property of the late Gilbert W. Ward, comprising more than 5 acres, just over the city and throughly. Plant includes and bounded on the east by Easton's Pond, on the west by the city of Newport, and on the south by an unincorporated section of landscape, lake and ocean. For full description of the property with plans, apply to J. D. Sale Agent, 32 Clarke Street, Newport, R. I.

**WALNUT HILL GREENHOUSES**

**FOR SALE.**  
Located at Independence, Missouri. Ten miles from Kansas City with Rapid Transit established. Well-shaded, good roads over Missouri and four other states and all the States. Present built entirely over 20 years ago; two houses 100x20, one 100x10, both with 100 ft. of glass and boiler shed. Special care taken in building, everything first-class and substantial. Patent ventilating apparatus, working perfectly. City water, 12 feet and meter, low rate. Hot water heat, and cold and thoroughly. Plant includes 20,000 pots, 50 good hot bed sash, stock of plants, 100,000 seeds, and miscellaneous. 4000 gal. and 2 1/2 acre of land. Reason for selling: falling health of owner. Address: J. D. Griffith, Independence, Mo. N. Y. care of McCoy Banking Co.

**A Great Help and Saving**  
The Florists' EXCHANGE is a great help and saving to florists when they want anything, as they can get what they want at the lowest price to the right sort of catalogues. D. McGILLIVRAY, Beattie-bldg, 174, 187.

**SITUATIONS WANTED.**

Rate, 10 cents per line (8 words), each insertion. Advertisements will be inserted only to suitations wanted advertisements and when not otherwise stated. No charge beyond the first line. Our care add 10 cents to cover expense of forwarding.

**WANTED—Competent general grower.**  
First-class designer, reliable, temperate, hustler. Good references. Address: P. J. care Florists' Exchange.

By single house man, competent in all green-house stock, also making all kinds of cut flower and garden. Address: W. B. Smith, 24th street, Pittsburgh, Pa.

**SITUATION wanted in a commercial place.**  
Single, hard worker, understands his business thoroughly, good references. Address: P. J. care Florists' Exchange.

**SITUATION wanted as assistant grower.**  
First-class designer and charge house, also near New York or Boston preferred. Rosen, care Florists' Exchange.

**WANT to run greenhouses or shaws.**  
Young man with experience and capital; mushrooms, reasonable figures. Address: W. B. Smith, 24th street, Pittsburgh, Pa.

**SITUATION wanted by single man, six years experience in a commercial greenhouse business of various kinds. Address: P. J. care Florists' Exchange.**

**SITUATION wanted in commercial greenhouses.**  
First-class designer and charge house, also near New York or Boston preferred. Rosen, care Florists' Exchange.

**WANTED position as foreman or manager in first-class commercial establishment.**  
First-class designer and charge house, also near New York or Boston preferred. Rosen, care Florists' Exchange.

**SITUATION wanted by a practical gardener and florist.**  
Competent in all branches. Married, no family. Good references. Private place preferred. Address: H. C. W. Vaughan's Seed Store, Chicago, Ill.

**SITUATION wanted by a single man of 15 years' experience in gardening and greenhouse business.**  
First-class designer and charge house, also near New York or Boston preferred. Rosen, care Florists' Exchange.

**HELP WANTED.**

**WANTED a good grower for private place.**  
Good place for right man. State wages paid. Good references. Address: P. J. care Florists' Exchange.

**WANTED—A first-class unmarried gardener**  
experienced and acquainted with Long Island trade. A few months on private island, etc.; one able to take charge of place in a few months. Good references. Address: S. M. Florists' Exchange.

**WANTED.**

A thorough cut flower grower and plantsman, must be sober and agreeable, and a hustler. State wages and references. Address: F. M. care Florists' Exchange.

**WANTED.**

I am a thesaurian in active practice, have 1000 orchids, 20 roses, 120 carnations, a few muscades, 100 tulips, 100 geraniums, and 100 pieces of ferns, etc.; also, 100 cut flowers, etc. I want a short-handled man, with good references, to grow same. Must be honest, sober, and not afraid of work. Address: Dr. Geo. W. Little, Glen Falls, N. Y.

**FOR SALE—SECOND HAND.**

**FOR SALE CHEAP.**  
Extra good second-hand 5 and 4 inch pipe for hot water heating.  
**W. H. SALTER, Rochester, N. Y.**

**HITCHINGS BOILERS**

**FOR SALE.**  
One No. 10, as good as new. Also one No. 15, in good working order. Will be sold low if taken at once.  
Address: A. G. HOOVER, Manchester, N. H.

**GREENHOUSE SASH CHEAP.**

The sashes and yellow pine rafters of two houses 80 ft. long, consisting of 9 ft. x 3 1/2 ft., 10 ft. x 2 1/2 ft., 12 ft. x 2 1/2 ft., and 14 ft. x 2 1/2 ft. Also the sash and yellow pine rafters of a house 58 ft. x 2 1/2 ft. All in good condition.

**R. ASMUS, New Durham, N. J.**

**When Writing Mention Florists' Exchange**

Hot-Bed

Sash

Tenons white-leaded. Corners secured with iron dowel pins. Every detail of construction perfect. Made of Clear Cypress Lumber.

Quick Shipments.

We have in stock and can ship immediately:

- 3 ft. x 6 ft., 3 rows 10 in. glass.
- 3 ft. 8 in. x 6 ft., 2 " 8 in. "
- 4 ft. x 6 ft., 5 " 8 in. "

Not glazed, 1 1/2 in. thick.

Delivered Prices

Quoted on application. State size and quantity wanted. No order too small to receive careful attention, and none too large for our facilities.

LOCKLAND LUMBER CO.,

Lockland, Ohio.

When Writing Mention Florists' Exchange

PLANT LABELS

Best grade, 15c. per 1000. Trade Myalls Catalogue Wraps, 3c. per 1000. Seed for mail order. Macmillan & Co. Printers. Golden Springs, O. In. When Writing Mention Florists' Exchange

STANDARD FLOWER POTS

In any quantity, and of the best quality. Get our price list before ordering elsewhere.

W. H. ERNEST,

Station M. N. E., WASHINGTON, D. C. When Writing Mention Florists' Exchange

STANDARD POTS.

We are now ready to supply a superior quality of Pots in unlimited quantities. Catalogues and price lists furnished on application.

A. H. HEWS & CO.,

NORTH CAMBRIDGE, - MASS. When Writing Mention Florists' Exchange

Cane Plant Stakes



1000. \$2.00  
500. 1.00  
250. .50  
100. .20  
50. .10  
25. .05  
10. .02  
5. .01

W. W. HENDRIX,

Bowling Green, Ky.

When Writing Mention Florists' Exchange

STANDARD FLOWER POTS.

1 1/2 inch, per 1000,	\$3.00
" " " " " "	2.50
" " " " " "	2.00
" " " " " "	1.50
" " " " " "	1.00
" " " " " "	.75
" " " " " "	.50
" " " " " "	.30
" " " " " "	.20
" " " " " "	.10
" " " " " "	.05
" " " " " "	.02
" " " " " "	.01

CYLINDERS.

With handles, and 4	sliding glass covers,	\$1.00
" " " " " "	" " " " " "	.75
" " " " " "	" " " " " "	.50
" " " " " "	" " " " " "	.30
" " " " " "	" " " " " "	.20
" " " " " "	" " " " " "	.10
" " " " " "	" " " " " "	.05
" " " " " "	" " " " " "	.02
" " " " " "	" " " " " "	.01

HAND MADE.

8 inch, per 100,	\$1.00
" " " " " "	.75
" " " " " "	.50
" " " " " "	.30
" " " " " "	.20
" " " " " "	.10
" " " " " "	.05
" " " " " "	.02
" " " " " "	.01

HANDLING VASES.

2 inch, per dozen,	\$0.75
" " " " " "	.50
" " " " " "	.30
" " " " " "	.20
" " " " " "	.10
" " " " " "	.05
" " " " " "	.02
" " " " " "	.01

Seed of Dutch Patina, same price as pots. We have all the latest and best Standard pots of the best quality. Address to:

HILFINGER BROS. POTTERY,

FORT EDWARD, N. Y.

When Writing Mention Florists' Exchange

St. Louis. Trade Remains Quiet.

Business is still quiet and the weather very hot. Asters are coming in more plentifully, while carnations seem to be slackening up. Roses, while plentiful in supply, are very poor in quality. Kalisner and Metcalf are coming in quite open. Gladioli and tuberoses from out-doors are coming in largely.

The News. William Lingenbrink has returned from a month's vacation spent in Denver.

The Michel Plant and Bulb Company which attempted to dispose of its stock and greenhouses in order to retire from business, has found it impossible to realize on its property now, and will continue in business as heretofore. It does a general wholesale and retail plant, bulb and cut-flower business, and its shipping trade as before will continue through the St. Louis Cut Flower Company.

It is understood that Ellison and Tesson have rented the store which F. C. Weiler will vacate shortly at 3134 Olive street, and that they will run it in conjunction with their downtown place.

M. H.

Washington.

Trade in quiet. Business is about as quiet as it is possible for it to be; were it not for general orders the stores might as well be closed. With the exception of asters, which by the way are very fine, flowers are quite scarce. Grade Brothers are cutting some La France and Kalisner roses which are remarkably large. Considering the weather, the same firm has been cutting some excellent asters grown inside, field-grown flowers, even under the most favorable circumstances, cannot be compared to them.

Delegates to the Convention. Washington will send quite a respectable-sized delegation to the convention. P. Gauges, the district vice-president, has been elected to represent from members in the Southern states with a view to starting from this city in a body. W. Smith states for Boston the latter part of this week.

J. L. Loosé and family are spending the summer at Quebec.

The many friends of Robert Bowdler were much alarmed on reading in one of the newspapers last week that he had been fatally hurt by a street car running into his wagon. It turned out, however, that his injuries were of a very slight nature.

Look out for W. F. Gude at the convention; he is the best looking florist in this city, and just now he is by long odds the happiest, owing to the arrival of a ten-pound baby boy.

G. W. O.

Cincinnati.

Business Slumbers. Business is still dormant. The weather is now comfortably warm; we have had plenty of rain, in fact, an unusual quantity for July.

The News. Thomas Whidman is building a new carnation house, 10x20x3 feet. E. Ritter staeffer is building two carnation houses, 12x30x3 feet, in these Dik expects to grow seedlings that will be first-class.

Louis Pfeiffer, Jr., was married July 28 to Miss Alice Smith of Newport, Ky. It was a home wedding, and the house was beautifully decorated for the occasion. The bride and groom are now on a wedding tour through the East and will locate in a new home at the Highlands on their return.

Charles A. Bretz and wife leave Tuesday for a vacation trip to Fort Lyon, Mich.

July 29 the daily press announced that Mrs. Law, wife of W. F. Law of Shelbyville, Ind., was thrown from her buggy and fatally injured, by the horse running away. A letter received by the writer from the doctor of that place, states that his wife was thrown from her buggy, at least 15 feet into the air, falling upon her shoulder and back of her head and sustaining severe bruises. No bones were broken, and unless some unforeseen trouble arises, she will recover, although very badly hurt.

E. P. Critchell's Sons have moved their store from the corner of Fourth and Elm streets to near corner of Fourth and Walnut streets on Fourth.

E. G. GILLET.

HAVE YOUR COLLECTIONS MADE THROUGH THE NATIONAL FLORISTS' BOARD OF TRADE, 271 BROADWAY, NEW YORK.

When Writing Mention Florists' Exchange

SCOLLAY'S IMPROVED PUTTY BULB



For Glazing Sash, Etc., - ALSO THE - PATENT PLANT SPRINKLER For sale by your Seedsmen or sent, postpaid, for \$1.40.

JOHN A. SCOLLAY, 74 & 76 Myrtle Ave., BROOKLYN, - N. Y.

SEND STAMP FOR CATALOGUE.

When Writing Mention Florists' Exchange

GALVANIZED WIRE PLANT STAKES From \$5.00 per 1000 upwards.

RUBBER HOSE from 6 cents per foot.

H. F. LITTLEFIELD, WORCESTER, MASS.

When Writing Mention Florists' Exchange

NO AUCLITERATION BONE FLOUR NO ACID

References: Fred. Donner & Sons Co., La Parrotta, Inc., John H. Taylor, Berwick, La., N. Y., E. G. Hill & Co., Richmond, Ind., Wm. Wilson, St. Paul, Minn.

GEO. S. BARTLETT, 1255-1257 WEST 6TH ST., CINCINNATI, O. SUCCESSOR TO CINCINNATI DESICCATING CO.

When Writing Mention Florists' Exchange

A GOOD HOSE IS A GOOD INVESTMENT

The best is the cheapest. To ascertain what a hose is worth, divide the cost per foot by the number of years it will last. We are in the market to compete in number of years with anything that is manufactured. Price \$20. per foot for 1 inch; 18 cts. per foot for 3/4 inch and 20c. per foot for 1 inch hose.

"Best hose I have bought in twelve years." - N. STURDEN. "It is the best." - E. G. HILL.

Address J. G. & A. ESLER, Saddle River, N. J. When Writing Mention Florists' Exchange

Standard Flower Pots.

Send for our New Price List with extra discounts. All our Pots, from 7 in. and upwards, have our Patent Escalator Bottom, which is a great advantage, as it insures perfect drainage.

A FULL LINE OF BULB PANS.

THE WHILLON POTTERY CO., 713 to 715 Wharton Street, PHILADELPHIA

BRANCH HOUSES: 4 Kearney and Venetian Aves., Jersey City, N. J.; Jackson Ave. and Pearson St., Philadelphia, Pa.

When Writing Mention Florists' Exchange

FLOWER POTS

We are Manufacturing a Full Line of STANDARD FLOWER POTS and HANGING BASKETS OF THE BEST QUALITY.

Shipping Facilities First-Class, thereby Securing Lowest Freight Rates. Our goods are well packed, and breakage is nominal. Give us a trial. Send for Price List.

Address THE SYRACUSE POTTERY CO., 403 N. SALINA ST., SYRACUSE, N. Y.

When Writing Mention Florists' Exchange

FIBRE--Every plant grown in it thrives without earth.

LIQUID--The best, safest and cheapest Fertilizer sold.

U. S. Patent and Trade Mark.

THE AMERICAN JADOO CO., 811 Fairmount Avenue, PHILADELPHIA, PA.

When Writing Mention Florists' Exchange

The live Florist is now planning for next season. Are you? If so, or not, do not overlook the assisting features that might go with use of a set of

LONG'S FLORISTS' PHOTOGRAPHS.

INTENDED FOR USE IN TAKING ARRANGEMENTS. NEW CATALOGUE FREE.

Also a new and adaptable FLORISTS' CATALOGUE of Cut Flowers and Arrangements.

CIRCULAR ON APPLICATION.

DAN'L B. LONG, Publisher, BUFFALO, N. Y. When Writing Mention Florists' Exchange

JADOO

**LORD & BURNHAM CO.,**  
**HORTICULTURAL ARCHITECTS AND BUILDERS,**  
**STEAM AND HOT WATER HEATING ENGINEERS.**

Plans and Estimates furnished on application.

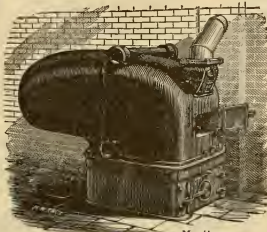


Largest Builders of Greenhouse Structures. Six Highest Awards at the World's Fair. Send four cents postage for Illustrated Catalogue.

**LORD & BURNHAM CO.,**  
 ARCHITECTURAL OFFICE, 160 FIFTH AVE., COR. 21st STREET, NEW YORK.  
 Factory: Irvington-on-Hudson, New York.

Mention paper

**GREENHOUSE HEATING AND VENTILATING,**  
 Horticultural Architecture and Building.



Mention paper

**Hitchings & Co**

ESTABLISHED 1844.  
 233 Mercer Street, NEW YORK.

**FIVE PATTERNS OF BOILERS.**  
 NINETEEN SIZES,  
 Perfect Sash Raising Apparatus.

Rosehouses, Greenhouses, Etc., of Iron Frame Construction erected complete or the Structural Iron Work shipped ready for erection.

Iron Frame Benches with the "Perfect Drainage Bench Tile" or Slate Tops.

SEND 4c. POSTAGE FOR ILLUSTRATED CATALOGUE.

**CYPRESS**  
 IS MUCH MORE DURABLE THAN PINE.  
**CYPRESS SASH BARS**  
 UP TO 32 FEET IN LENGTH OR LONGER.  
**GREENHOUSE**  
 AND OTHER BUILDING MATERIAL.  
 Send for our Illustrated Book "CYPRESS LUMBER AND ITS USES." Send for our Special Greenhouse Circular.  
**THE A. T. STEARNS Lumber Co.,**  
 Neponset, Boston, Mass.

**SUMMER IN WINTER**  
 By Using  
**Standard Greenhouse Boilers**  
 One cent gets our Catalogue.  
**GIBLIN & CO.,** - Utica, N. Y.  
 When Writing Mention Florists' Exchange



**Evans' Improved Challenge.**  
 Boiler bearing self-cleaning device automatically cleans and thus makes the IMPROVED CHALLENGER the most perfect boiler in the market.  
 Write for catalogue and prices before placing your orders else where.  
**Quaker City Machine Co.,**  
 RICHMOND, IND.

When Writing Mention Florists' Exchange

... THE ...  
**ENCYCLOPEDIA OF GARDENING.**  
 A Complete Dictionary of Cultivated Plants, Flowers, Etc.  
 BY T. W. SANDERS, F. L. H. S., EDITOR OF "AMATEUR GARDENING," LONDON.  
 Descriptions, with Popular and Technical Names of Plants, Date of Introduction, Number of Species in Cultivation, How Propagated, Suitable Soil, Proper Treatment, Time of Planting, &c.  
 Crown 8vo., cloth, gilt lettered, 435 pages. Price, delivery included, \$1.75. Address your order to  
**THE FLORISTS' EXCHANGE,** P. O. Box N. Y. 1497.

**IF YOU WANT**  
**A GOOD SASH LIFT**  
 For a Very Little Money Get  
  
 THE "NEW DEPARTURE" VENTILATING APPLIANCE.  
 For Descriptive Catalogue Send to  
**J. D. CARMODY, Evansville, Ind.**  
 When Writing Mention Florists' Exchange

SEND FOR OUR NEW CATALOGUE, WHICH SHOWS  
**The New Automatic Cable Ventilator**  
 As it is put up in the house complete. We also give you notes with a guarantee that each machine sent out will operate your house successfully. Sash machines now made in two sizes.  
**A. Q. WOLF & BRO., Dayton, Ohio.**  
 When Writing Mention Florists' Exchange



**THE VAN REYPER**  
**PERFECT GLAZIERS' POINTS**

No rights or lefts. Prices per box of 1000, 60c, by mail, 75c.; in lots of 5000 by ex., 55c. per 1000

**HENRY A. DREER, 714 Chestnut St., Phila., Pa.**

When Writing Mention Florists' Exchange

**GLASS** FOR GREENHOUSES, CONSERVATORIES, GRAPERIES, HOTBEDS AND FLORISTS' USE GENERALLY, AT LOWEST RATES.  
**L. HARRIS & SON,**  
 497 W. BROADWAY, NEW YORK, 89 LIBERTY ST., NEW YORK  
 Bet. Houston and Steuben Sts.  
 When Writing Mention Florists' Exchange

**GLASS!** For Greenhouses, Conservatories, Graperies, Hotbeds and all other purposes, at Lowest Rates.  
**N. COWEN'S SON, 392 & 394 West Broadway, New York,**  
 Formerly 154 and 156 So. Fifth Avenue.  
 Get our Figures before buying GLASS! - Estimates Freely Given  
 When Writing Mention Florists' Exchange

**STANDARD VENTILATING MACHINE.**  
 NONE EQUAL IT IN Strength AND Durability  
 NOTHING Filmsy OR Complicated about it.  
  
**E. HIPPARD, YOUNGSTOWN, OHIO.**  
 When Writing Mention Florists' Exchange

**CALIFORNIA RED CEDAR**  
 Never Decays.  
**A. DIETSCH & CO. 619 Sheffield Avenue, CHICAGO.**  
 MANUFACTURERS OF  
 RED CEDAR AND CYPRESS GREENHOUSE MATERIAL.  
 When Writing Mention Florists' Exchange

**TRADE GREENHOUSES.**  
 THE BEST MADE.  
 "Florists" Get Your Plans and Estimate from  
**PLENTY'S HORTICULTURAL WORKS.**  
 148-156 Randolph Ave., JERSEY CITY, N. J.  
 When Writing Mention Florists' Exchange

**MASTICA**  
 FOR GLAZING GREENHOUSES. SUPERIOR TO PUTTY IN EVERY WAY.  
 Is not hardened by the extreme heat or cold that a greenhouse is constantly subjected to both inside and out. Mastica is adhesive and remains permanently elastic so that it is not forced out of place by expansion and contraction of the wood-work. However glazed with Mastica the air is not excluded, thus saving time and expense. With Mastica our "bed-in" or use on the outside, but with a machine only.  
 Mastica and Mastica Glazing Machine were given  
**HIGHEST AWARD OF SOCIETY OF AMERICAN FLORISTS AT PHILADELPHIA, 1876.**  
 Put up in gallons, \$1.00. Half gallons, 60 cts. Quarter gallons, 35 cts.  
 Mastica Glazing Machines, \$1.00 each.  
 Send for full descriptive circular and testimonials. Agents in all the principal cities.  
**F. O. PIERCE CO., Sole Manufacturers, 170 Fulton St., New York.**  
 When Writing Mention Florists' Exchange



**Wholesale Florists**  
 JOBBERS IN  
 FLORIST'S  
 SUPPLIES.  
 N. F. White  
 FLORISTS' VASES.  
 Horticultural Auctioneers.  
 24 HAWLEY STREET, - BOSTON.

**GEO. A. SUTHERLAND,**  
 SUCCESSOR TO W. J. STEWART,  
**CUT FLOWERS and FLORISTS' SUPPLIES**  
 WHOLESALE.  
 67 Bromfield St., Boston, Mass.

**City Hall Cut Flower Market**  
**WELCH BROS., Props.**  
 Regular Consignors Given Space Free of Charge. Space let to growers wishing to sell their goods.  
 Flowers Shipped to all Points.  
 ...SEND FOR PRICE LIST...

**Buffalo Cut Flower Exchange**  
**WHOLESALE COMMISSION.**  
 CONSIGNEES SOLICITED.  
 481 Washington St., BUFFALO, N. Y.  
 Telephone, Seneca, 1896.

**HEADQUARTERS** In Western New York, Try us  
**ROSES, CARNATIONS AND ALL SEASONABLE FLOWERS.**  
**WM. F. KASTING,** Wholesale Commission Florist  
 485 Washington Street, Buffalo, N. Y.  
 Also Dealer in Florists' Supplies & Wire Designs

**St. Louis Cut Flower Co.**  
 WHOLESALE FLORISTS,  
 1620 Olive St., ST. LOUIS, MO.

**E. G. HILL & CO.,**  
**Wholesale Florists,**  
 RICHMOND INDIANA.

... FOR FINEST ...  
**Galax Leaves and Leucothea Sprays,**  
 ALWAYS WRITE THE INTRODUCERS,  
**Highlands Nursery, Kawana, N. C.**

**COMPLETE LINE OF SUPPLIES**  
**WIRE WORK**  
 WE MAKE  
 WE BURN  
 WE SOLDER  
 WE IMPORTERS  
**BULBS**  
 PHONE 1572  
 BOX 15  
 ALWAYS ON HAND  
 FINE STOCK  
 "GIFT FLOWERS"  
**ELLIS & POLLWORTH**  
 MILWAUKEE WIS.

When Writing Mention 'Florists' Exchange

**ASPARAGUS, ANEMONS, VIOLETS**  
**W. H. ELLIOTT,** - Brighton, Mass.  
 When Writing Mention 'Florists' Exchange

**Galax leaves.**  
**CHAS. H. RICKSECKER,** Linville, N. C.  
 When Writing Mention 'Florists' Exchange

**Chicago.**  
 Club's Outing.  
 The second summer outing of The Florists' Club, by invitation, was to Grand Rapids, where the Club's headquarters greenhouse is situated.

Manager James Earl, with his lady and family, was, although still somewhat young, one of the thirty or forty florists and lady friends that formed the coterie. A few of the hour by florists drove in their own conveyances. Mrs. Bretner and family are summering on the Wisconsin Lakes. The grounds of the Club, which had been erected for the occasion, a tour was made through the grounds and finely equipped greenhouses, and much comment was heard on all sides of the bright outlook for high-grade flowers of the coming winter. Particularly noticeable were the five houses of single-stem chrysanthemums, each plant growing from a single stem, 125 per cent will easily number 10,000 to 12,000 flowers. Half dozen, a balance was only thirty, and the plants are two or three feet in height; a portion are early dwarf and stocky, all being in perfect health.

Roses here are quite a feature; the variety which is very fine, includes 6,000 American Beauty.

Plants in the old carnation houses are set perfect in health, in spite of the hot weather; but will shortly be ripped out to prepare the houses for new crops, which will be housed about the first of September.

Mrs. Bretner grows mostly those flowers which retail stores do not stock. The stock finding a market with his old partner, Mr. Weinlocher, of Oak Street. The grounds are well watered and stripped of soil each year and seeded with man in other places, so that fall crops at all times is had over the soil used. There is a peculiarity in the soil; in one spot it is a black peaty soil, rich and nearly a patch of yellow loam.

The carnation planting is in excellent condition. In fact, 12,000 to 15,000 plants to fill the houses. All here are late, including the variety, which, with others of the newer kinds, is quite healthy.

There is also one house of pot chrysanthemum for market purposes, now in 4-inch pots.

On the 10th of the grounds the party gathered under the tent where luncheon was served.

The club outing will not take place until toward the end of August, when Hinsdale and Mr. Bassett are on the tapis for a week day day to be hereafter named.

**Among Growers.**  
 A call at Singer Bros., at Washington Street the week ending 27th last year. The number of Mr. F. C. Thom's place is 1225 Milwaukee avenue, and not 1225 in printed two in the Chicago Directory. James Moore, 3731 Butler street, this city, did the past week. Mrs. Moore is a well-known buyer of plants for wholesale houses, and has the sympathy of all who know her.

**Around Town.**  
 The Chicago Directory lists 274 florists this year against 271 last year. The number of Mr. F. C. Thom's place is 1225 Milwaukee avenue, and not 1225 in printed two in the Chicago Directory. James Moore, 3731 Butler street, this city, did the past week. Mrs. Moore is a well-known buyer of plants for wholesale houses, and has the sympathy of all who know her.

Mr. Strambek of Lincoln Park, has two splendid beds of old Portia carnation in the flower ground, that are at all times a mass of bloom. They were set out from strong grown 3-inch pot plants.

**Montreal.**  
**Julius.**  
 Last Thursday was the day for the cricket match, flowers & gardeners; but owing to the rain, there were not enough present to carry out the original program. A great number, however, were enjoyed. Those who were not present amidst the excitement afterwards at Field House.

F. L. Atkins is in town and reports favorable business.  
**Trade Light.**  
 Trade here is very light. Several designs being the only ones showing that prevents stagnation. Now the weather has moderated, everyone is hustling to get through with the season stock which has been delayed through the extreme heat of the previous two weeks. The summer sales are getting more interesting as the season advances; at this week's exhibition there was a much larger display than was staged last month. Sweet peas were the largest feature. Geo. Robinson, Wilshire Bros. and F. Bennett taking most of the prizes. Canis made a good display, and the exhibitors of the various flowers were much admired by the visitors. Julius Bretner showed a perfect specimen of *Chrysanthemum* in yellow, which was highly awarded a special first. Joseph Bennett put up fine pots of *Lilium lancifolium* from the garden, and a number of other varieties of *lanifolium* roseum, album and auratum, was very attractive and was also awarded a special first.

John Doyle, James Nairn, F. L. Atkins and Walter Wilshire were judges.  
**W. W.**  
**Toronto.**  
**Summer Dallas Here.**  
 Business is down to the usual summer dullness. The roses and carnations are in the best of health, and of high quality. Outside cut flowers are good and very abundant. There is a large quantity and sold at all prices. Carnations and violets, planted outside, beginning to do very well.

**A Cricket Match.**  
 The Toronto cricket match between Harry Dale's Brampton team and a team of the Toronto Gardeners' and Florists' Association was played on Wednesday, July 28. The day was wet and unpleasant, and the ground was slippery and had to be played in the afternoon. The score at the ground game resulted. About 26 of the Brampton boys came down, and about 100 of the same number of the Toronto exhibition grounds. A nice cold lunch was served about noon, and light refreshments in the afternoon. The score at the close of the game stood: Brampton 43, Toronto 58.

**Club Meeting.**  
 The July meeting of the Gardeners and Florists' Association was a poor one; we had to wait until nearly nine o'clock before we got a quorum. Some of the members were away on a special match on the 28th, with Harry Dale's team who were invited down to our exhibition grounds. The chairman of the executive committee was asked to call a meeting as soon as possible to arrange to make our get together for the coming year.  
 THOS. MAXTON.

**Brampton, Ont.**  
 Harry Dale is not growing quite so many chrysanthemums this year; what he is growing is watered very liberally. Bergmann, Marian Henderson, Margarete de Montfort are the best exhibitors group-wise. Rosemary planted an early house containing *Verde* and *Sunset* are pretty. Asparagus plumosus is showing in beds. The weather is nice, a temperature of 70 to 80 degrees is maintained in winter. The plants do remarkably well, showing heavy hanging strings of deep green. Led spires is kept down by careful watering. This is very little known by the many who suppose it is necessary to have a cool and shady spot in which to grow them. It is surprising when one is experimenting with an improved variety, of which more will be heard hereafter.  
 W. M.

**Albany, N. Y.**  
 Louis Meunier celebrated his 90th birthday on Monday morning on Tuesday last, and bids fair to see another decade pass.

**Cut Strings, 10 to 12 feet long 60 cts. each.**  
 Shipped to any part of the country.

**Trade Still Slack.**  
 There is no material change either in the condition of stock or the demand, although a better feeling trade appears to be springing up and a fall demand for what little good stock comes in. In fact, as one of the growers says, supply and demand are high equal, and that at fair summer prices. The best Kaiserling bring \$4.00 either \$1 to \$25 carnations 40c to 75c, few go beyond, as the quality is very rather poor. Beauty, if good, which is very scarce, will bring 100c. Anemons lilies realize \$1 per dozen; all others are scarce. Asters are coming in now in better shape, although still somewhat poor in quality.  
 EDGAR SANDERS.

The idea of inviting the members of the club as a body to visit the several establishments is a happy one, and is being well responded to by the growers and retailers, as it affords an excellent opportunity to see what is being grown for next season, and who has it.  
 J. C. Vaughan's place at Western Springs was visited in the near future before the fine display of carnations, of which Mr. Wilson is justly proud, is over. At this time the display of new varieties were in bloom and justifies all that has been said in their favor. Chicago is a grand show place for the season.  
 Yellow 'Crazy' is the finest yellow, bright, not affected by the sun in the least, the color rather being intensified. The dead flowers stay on the spike, which is the only detriment observed, but the profusion of bloom, adds this defect, especially as seen even from a short distance. Burbank and Anem. bunch out, in the single and double, and several new varieties, not yet sent out, are of great promise, and will add interest to this class of plants early in the season.  
 W. M.

**Davenport, Ia.**  
 Trade is at present rather slow on account of the great heat. Such flowers as roses and carnations are in good shape, with little or no demand. Now and again trade moves up good; at such times the plants are much sought. Totted plants find no sale at all.  
 Young rose stock in benches is in excellent condition. In fact, for all trade there is much better than last year.

John T. Temple is building one house about 18x125 feet long. Henry D. DeLoe, Island, Ill., two houses, one 18x125, one 18x140 feet, for roses.  
 Cut flowers and plants have been sold at very low prices, in some instances 50 per cent. lower than in former years.  
 E. J.

**Detroit, Mich.**  
 Harry Babler will be with us with the power of the whole Park Commission behind him, and what those who have the pleasure of seeing him will testify to the attractiveness of this city for the convention of '98 will experience—we'll but we need not anticipate.  
 George Leadley has hid himself away for a week's fishing; doubtless some of our members will be glad to which, if endorsed by Robert Flowerdy, Phil. Bretmeyer, and Andrew Ferguson, will rival some of the best fishing by the boys and shooters at home.  
 W. M.

**Milwaukee.**  
 Currie Bros. are rebuilding and fixing up generally.  
 J. Freytag is rebuilding and adding to his place on the river.  
 C. B. Whitall will be delegate to the convention.  
 W. M.

**Emore, O.**  
 H. W. Rymer is building two new houses, in addition to his existing one 12x60, the other 10x160 feet and putting in a new boiler and hot-water piping for the whole plant.

**Chocoma, N. Y.**  
 Grove P. Rawson, Elmira, N. Y., will act as judge at the second annual sweet pea exhibition here, and will also deliver a lecture on "Plant Life."  
**Bay Side, N. Y.**

By the explosion of a boiler at the establishment of John H. Taylor on Tuesday last, the men, William Deuton, was severely injured.

**CHRYSANTHEMUMS** — Last Call.

A few hundred each of the following varieties, from pots, good plants at \$1.00 per 100; R. D. Dilligrove, Mrs. H. Robinson, Irwin Bloodgood, Philadelphia, Barton Hilditch, Philadelphia, Merona C. Montmor, Wm. Simpson, The Queen, Mrs. K. C. Hill.

**SMILAX** Strong bushy plants, 2½ inch pots, \$2.00 per hundred.

**C. EISELE, H. & Jefferson Streets, Philadelphia, Pa.**  
When Writing Mention Florists' Exchange

**SMILAX**

35,000 fine 2 in. Smilax,  
\$2.50 per 100; \$12.50 per 1000.

**BETSCHER BROS., Canal Dover, O.**  
When Writing Mention Florists' Exchange

**SMILAX**

Strong heavy 1 year plants, 2½ inch pots, \$2.00 per 100; strong plants, 1 year old, 2½ inch pots, \$15.00 per 1000.

**NARCISSUS**—Peach, double and single; Von Stion and Orange kinds, 2½ inch pots, \$5.00 per 100.

**ADIANTHUM REGALIS**—Indispensable for floral work, \$1.00 per doz.

**F. A. BALLER, Bloomington, Ill.**  
When Writing Mention Florists' Exchange

**250,000 CELERY PLANTS**

**Golden Dwarf, White Plume, and Giant Pascal,** 20 cts. per 100; \$17.75 per 1000. Cultivated and strong. Send 10 cts. for sample. Cash with order.

**HORACE RIMBY, Collegeville, Pa.**  
When Writing Mention Florists' Exchange

**4,000 SMILAX PLANTS**

In 3½ inch pots, strong and healthy.  
\$2.50 per 100.

**ASA L. BROWN, Davis Ave., Kearney, N.J.**  
When Writing Mention Florists' Exchange

**Asparagus Plumosus Nanus...**

(True) transplanted seedling plants, 100 per dozen, \$25.00 per 1000. Samples on application. Also fresh **ASPARAGUS SE**, \$10.00 per 1000 each. Cash with order from unknown correspondents.

**R. ASMUS, — NEW DURHAM, N. J.**  
When Writing Mention Florists' Exchange

**SMILAX**

Strong, healthy plants, in 2½ inch pots, \$1.00 per 100; \$10.00 per 1000. 50 cts. 1000 rate.

**ASPARAGUS, Tennisinus and Plumosus,** from 4 inch pots, \$3.00 per 100.

**JAMES HORAN & SON, Bridgeport, Conn.**  
When Writing Mention Florists' Exchange

**UNTIL AUGUST 15th.**

Our other strong and well-grown **SMILAX** plants, out of 2½ inch pots at \$1.25 per 100; or \$10.00 per 1000. We pack them with extra strong tissue paper so that the plants will not get crushed. We guarantee no satisfaction or your money will be refunded. Cash with order. Order check address to:

**FRED. SCHNEIDER, Cleveland, Ohio,**  
751 Crawford Road.  
When Writing Mention Florists' Exchange

**SMILAX!! SMILAX!!**

Strong plants, from 2 in. pots, \$2.00 per 100; \$18.00 per 1000. Extra strong, from 3 in. pots, \$3.00 per 100; \$23.00 per 1000. 25,000 fine plants.

**W. T. F. PUTZ,**  
Successors to Paul Bait & Son, New Castle, Pa.  
When Writing Mention Florists' Exchange

**SMILAX PLANTS**

2½ INCH POTS.  
\$2.00 per 100. Cash.

**EDWIN A. SEIDWITZ,**  
36 W. LEXINGTON ST., BALTIMORE, MD.  
When Writing Mention Florists' Exchange

ABOVE ALL, have your advertisements reasonable. To be reasonable they must be charged often.

**ALLAMANDA GRANDIFLORA BELLIS PERENNIS**

From 4 inch pots, \$2.00 per 100.  
**ASTER PLANTS**—Cheapest colors, Sample's Branch, CHRISTIANITYANNA SOWERING, intended to bloom Sept. and Oct. 1 inch pots, \$1.00 per 100.  
**SMILAX**—strong plants from pots, \$2.00 per 100.  
**JOHN C. EISELE, PHILADELPHIA, PA.**  
20th & Ontario Sts.,  
When Writing Mention Florists' Exchange

**Florists' Supplies.**

Largest Stock in the Country.  
All goods up to date, and of superior quality.  
Send for Illustrated Catalogue.  
**H. BAYERSDORFER & CO., PHILADELPHIA, PA.**  
56 N. FOURTH STREET,  
When Writing Mention Florists' Exchange

**LARGEST AND BEST STOCK OF PREPARED CYCAS LEAVES**

TO BE FOUND ANYWHERE  
Metal Floral Designs, Sheaves, Doves, Baskets, Moss Wreaths, Wheat, Milkweeds, Cape Flowers, Wire Work, and all Florists' Supplies.  
Write for catalogue. Free to the trade.

**A. HERRMANN, 404-412 East 34th Street (Near Ferry), New York,**  
Manufacturer of METAL FLORAL DESIGNS, Importer and Dealer in FLORISTS' SUPPLIES.  
When Writing Mention Florists' Exchange

**When in Providence**

And Your Own ... Good Judgment  
Don't fail to inspect my splendid exhibit of Bulbs and learn of the great cash bargains you can make. On your way to the Convention, don't omit to call at my office,

193 GREENWICH STREET, Near Fulton, NEW YORK,  
to purchase a grand lot of **Lilium Harrisii, Oxalis, Buttercup, Chinese Narcissus** and other Bulbs from Bermuda. Also on-stemmer Chamaeopis, from Havre, the finest French Bulbs, such as **White Roman Hyacinths, Monister Frezias**, etc.

**C. H. JOOSTEN, Importer.**  
When Writing Mention Florists' Exchange

**LILIAM HARRISII BULBS.**

... AND ...  
LONGIFLORUM  
Have you been disappointed in quality, supply or in any other way? If so, we can certainly satisfy you in

**Quantity, Quality and Price.**

Being the largest individual receivers of these goods this year, and acting as agents for the **Bermuda Bulb Growers** in the U. S., we are better able to serve either **Florist or Dealer** more satisfactorily than any other source of supply.

Also **Freesias, Calla Lilies, Buttercups, Oxalis**, and all other **Bulbous Stock**.

**CLUCAS & BODDINGTON CO.,**  
Importers, Exporters and Growers Agents,  
Telephone Call 403 18th St. 501 and 503 W. 13th St., N. Y. CITY.  
When Writing Mention Florists' Exchange

**20,000 SMILAX.**

Good strong plants from 2½ and 2 in. pots. October sowing, \$1.75 per 100; \$12.50 per 1000. Cash with order.  
**PAUL LIEBSCH, W. Main St., Batavia, N. Y.**  
When Writing Mention Florists' Exchange

**CELERY PLANTS**

Strong and Sleeky. \$1.00 per 100; \$9.00 per 1000.  
Satisfaction and Special Low Ex. Rates Guaranteed.  
New practical Book on Celery Growing, 75 cts.  
**PETER J. SCHUUR, Kalamazoo, Mich.**  
When Writing Mention Florists' Exchange

**CELERY PLANTS**

**WHITE PLUME.** Field-grown plants at \$1.00 per 1000. Cash with order. Samples free.

**C. M. GROSSMAN, Wolcottville, Ind.**  
When Writing Mention Florists' Exchange

**VEGETABLE PLANTS**

**CABBAGE**—Henderson's Succession, Early Flat Dutch, Lupton, Autumn King, Burpee's Sure Head, Late Flat Dutch, Premium Flat Dutch, Late Drumhead, Mammoth Rock Head and Drumhead Savoy. Field grown; 15c. per 100; \$1.00 per 1000; \$8.50 per 10,000.  
**CELERY**—Dwarf Golden Heart, Golden Self Blanching, Giant Pascal, New Home, White Plume and Giant Parisian Celeries. 15c. per 100; \$1.00 per 1000; \$8.50 per 10,000.  
Cash with order.

**R. VINCENT JR. & SON, White Marsh, Md.**  
When Writing Mention Florists' Exchange

**STRAWBERRY PLANTS**

TO GROW.  
**Carrie, Michigan, Earliest and Earlywinc,** 50 cts. per dozen. 100 1000  
**Bryndyvine**..... 25 10 100  
**Rio, Gandy and Bubach**..... 1 80 17 60  
**Tennessee**..... 1 00

**Celery Plants,** good, strong..... 15 100  
" " transplanted..... 20 150  
**Cabbage Plants**..... 15 100  
 **Cauliflower Plants**..... 25 100  
Samples for Stamps.

**E. C. HARGADINE, Felton, Del.**  
When Writing Mention Florists' Exchange

**CYCLAMEN GIGANTEUM**

To color, i. e. White, White with red eyes, Crimson and Rose. Fine plants, from 4 inch pots, ready for 5 inch chit, \$17.00 per 100; mixed, from 4 inch pots, \$18.00 per 100.

**ASPARAGUS PLUMOSUS NANUS**  
2½ inch pots, \$2.00 per 100.  
Cash with order from unknown customers or C.O.D. Orders announced to \$10.00 per 100, N. Y. City.

**SEAWANAKA GREENHOUSES,**  
0 FETER HAY & QUEREN CO., N. Y.  
Jas. C. Clark, Supt. P.O. Box 24, W. L. Swan, Prop.  
When Writing Mention Florists' Exchange

**PRIMULA OBCONICA.**

Very fine plants, some in bloom, 8 in. pots..... \$5.00  
**Hegonia Rex,** 10 vars., 3 in. pots..... 3.00  
**Cyclamen**..... 8.00  
**Clant California Daisy,** strong, 3 in. pots for winter cutting..... 5.00  
**Hellebore,** Lemon's Hybrid, strong, bushy, 3 inch. Immense..... 4.00  
**Utricularia**..... 2.50  
**Hegonia,** Rooted Cuttings, Honeysuckle, the best Hegonia out..... 2.50  
Metallics, alba picta, etc., by mail..... 1.50  
**GEORGE J. HUGHES, Berlin, N. J.**  
When Writing Mention Florists' Exchange

# THE FLORISTS' EXCHANGE

We are a straight shoot and aim to grow into a vigorous plant.

A WEEKLY MEDIUM OF INTERCHANGE FOR FLORISTS, NURSERYMEN, SEEDSMEN AND THE TRADE IN GENERAL.

VOL. IX, No. 33.

NEW YORK, AUGUST 14, 1897.

One Dollar Per Year.

## FLORISTS' CONVENTION

ATTENDING THE

Should not fail to inspect our Trade Exhibit of

### DECORATIVE PLANTS,

which represents the class of goods we send out. Our representatives will cheerfully answer any questions, as they will be constantly in attendance.

In going to or coming from the Convention, we will be very pleased to receive a personal visit from all Florists to inspect our stock of PALMS, FERNS, and other plants of which we make specialties.

### PITCHER & MANDA, Short Hills, N. J.

JOHN N. MAY, Receiver.

May be reached from New York by either Christopher or Barclay Street ferries to Hoboken thence by Delaware, Lakeview and Western R. R. Trains hourly. Distance only 15 miles. When Writing Mention Florists' Exchange

WE INVITE ALL FLORISTS ATTENDING THE S. A. F. CONVENTION, AT PROVIDENCE, TO VISIT OUR NURSERIES.

Our Cannas are in full bloom at this time. We are making very extensive tests of all the

### NEWEST AND FINEST CANNAS IN CULTIVATION,

And an inspection of the recent novelties and a large number of new sorts which we are testing with a view to future introduction cannot fail to be of interest. We would call particular attention to a new *Canna* which we expect to introduce next year. This *Canna* can be seen on the grounds of Mr. Farguhar Macrae, at Providence, to whom we have sent plants for trial. We think that this will prove to be the finest dwarf red *Canna* that has been sent out up to this date. We are testing it extensively this Summer so as to be certain in regard to its value before offering it, and from what we have seen of it this season, we shall be very much disappointed if it does not prove to be the finest variety for bedding that has ever been sent out.

We should be pleased to show visitors through our extensive range of Rose Houses. It is late for

### WINTER-FLOWERING ROSES.

But we still have a good stock of fine plants for buyers, who are obliged to plant late.

We should like to call particular attention to our large stock of

### PALMS AND OTHER DECORATIVE PLANTS,

And should be pleased to have our friends examine our stock before purchasing their Fall and Winter supplies. As we are crowded for room, we will make quite a considerable concession in the matter of price where orders are placed early and shipped before we are obliged to put our plants in permanent winter quarters, the same in labor, re-handling, etc., enabling us to make quite a difference in price where plants are shipped before cold weather. There is also an additional advantage to purchasers in having plants shipped early, because they not only can buy cheaper, but the plants can be shipped by freight with perfect safety and at a large saving in expense. Where parties have room to handle the stock, they will find it very much to their advantage to have goods shipped early.

WE HAVE A LOT OF BARGAINS TO OFFER! We have a particularly fine stock of the following leaders in the very best possible shape, viz.: Large *Arca Lutescens*, *Adiantum Constans*, Small Ferns for Fern Fans, etc., etc. We handle very largely Dutch, French, Japan, Bermuda, and all other BULBS FOR WINTER FORCING AND SPRING FLOWERING.

If Visitors at the Convention will find a display of our usual high quality of Bulbs, Palms, Ferns, etc. on the exhibition tables in Music Hall, we will be glad of an opportunity of submitting prices.

F. R. PIERSON CO.,

TARRYTOWN-ON-HUDSON, NEW YORK. |

When Writing Mention Florists' Exchange

## STOP! STOP! STOP OFF

On your way to or from the Convention, and visit the

### ROSE HILL NURSERIES,

NEW ROCHELLE, N. Y.

The largest and finest collection of plants in the country.

#### OUR SPECIALTIES.

PALMS, ORCHIDS, FERNS, PANDANUS VEITCHII, DRACÆNAS,

FICUS ELASTICA, ARAUCARIA EXCELSA, Etc., Etc.

Come and see us and you will always know where TO BUY.

Write, telephone or telegraph us, and our carriage will meet you at the station.

TRAINS EVERY HOUR.

30 minutes from Grand Central Depot, on the New York, New Haven & Hartford Railroad

## SIEBRECHT & SON,

NEW YORK OFFICE: 409 5th Ave.

NEW ROCHELLE, N. Y.

When Writing Mention Florists' Exchange

### COMING from OF OUR "Florists Stock Now in Season"

We call attention to the choicest lots of the following ever imported.

White Roman Hyacinths,  
Mammoth Freesias,  
Narcissus P. W. Grandiflora,  
L. Harrisii and Bermuda Oxalis.

### PANSY NEW CROP SEED

VAUGHAN'S INTERNATIONAL PANSY MIXTURE. This is a mixture for every florist who would realize the highest price for his flowers and plants. It contains the cream of the cream of every seed raised in our country and whole world over. It contains, besides all the choicest German Pansies in their wide range of beautiful colorings, all the superior colors of the United States with their immense flowers and rich color. It contains the Giant variety in all its strains, the product of combined color strains, the *Pallidus* and *Hollandia* Giants. In fact there is an equal amount of each of the NATIONAL MIXTURE Specials not represented \$5.00; ¼ oz. \$1.50; Trade \$1.00. (Less 10 per cent. for cash.)

Vaughan's "GIANT PANSY MIXTURE." Embroses besides which can only be had in this and our immediate vicinity. This mixture includes the richest reds, copper and bronzes together with the most delicate rose and pink shades, all the distinct colors of *Tritoneas*, the splendid *Cassini* strain with its delicate veining, and the *White* and *Blue* strains. (Less 10 per cent. for cash.)

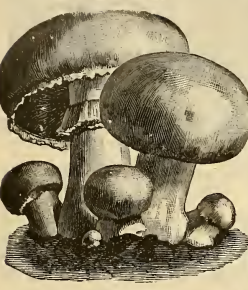
GIANT PANSIES  
In Separate Colors  
Pink 1 lb. doz. \$1.50; ¼ oz. \$1.00.  
Blue 1 lb. doz. \$1.50; ¼ oz. \$1.00.

GIANT PANSIES  
Chicago Park Seedling Pansies  
In extra choice mixture. 1 lb. doz. \$1.50; ¼ oz. \$1.00.

Cordially Invited  
To Call at  
Our Store  
14 Barclay St.

When Writing Mention Florists' Exchange

14 Barclay St., NEW YORK.



## Mushroom Spawn

Fresh stock just arrived. Our Special White-trace brand is the finest spawn that can be produced.

Per hundred lbs., \$8.00.

Correspondence solicited from buyers of large quantities.

**Cane Stakes,** \$7.00 for 8 feet, lots, 12 cts. per 1000.

**Raffia,** 14 cts. per lb.; bale lots, 12 cts. per lb.

**Clay's Fertilizer,** 150-lb. bag \$3.50; 112-lb. bag \$6.25.

**Glob's** Our stock is now arriving. Lily Harris, Freesia, Callis, Roman, Hyacinth, etc., ready now.

WRITE FOR PRICES.

WM. ELLIOTT & SONS, New York.

When Writing Mention Florists' Exchange

## BUY FROM THE GROWERS DIRECT ALL BULBS AND PLANTS

For Summer and Fall Delivery, Quoted at Very Low Rates.

FREE ON BOARD CARS OR BOATS  
NEW YORK CITY.

HULSEBOSCH BROS., Englewood, N. J.

When Writing Mention Florists' Exchange

## Fresh Seeds—Calla Bulbs.

**Apple Geranium** (true), 25 cts. pkt.; \$1.00 per 100 seeds; \$1.50 per 200 seeds.

**Heaven Esquels,** 70 cts. per 100 seeds; \$1.00 per 100 seeds.

**Seafoam Elegans,** 40 cts. per 100 seeds; \$1.00 per 100 seeds.

**Cyperus Alternifolius,** 25 cts. per pkt. \$1.00 per 100 seeds.

**Thermium Texan,** 25 cts. per 100 seeds; \$1.00 per 100 seeds.

**T. Texan Variegata,** 50 cts. per 100 seeds; \$2.50 per 100 seeds.

**Alephilla Australis** (Tree Fern), 50 cts. 24 oz.

Send for prices on Calla Lilies, August and September delivery. Send for Trade List of Novelties and Specialties for Autumn delivery.

MRS THEODOSSIA B. SHEPHERD  
Ventura-by-the-Sea, Cal.

When Writing Mention Florists' Exchange

## PANSIES! SEED + SEED

NEW CROP NOW READY.

ROEMER'S SUPERB PRIZE PANSIES.

This strain includes all the leading varieties: Odeur, Cassel, Bugnot and Partheno mixtures; the qualities of these varieties are no well-known as to render a description unnecessary. Mixed, per packet of 2500 seed, \$1.00; \$5.00 per oz.; \$2.00 per 1/2 oz.; \$1.00 per 1/4 oz. White, yellow, black, in separate colors, \$1.00 per packet. Plants ready September 15th. Send with order.

PETER BROWN,

Wholesale Seed Grower, LANCASTER, PA.

When Writing Mention Florists' Exchange

## PANSIES! SEED THE JENNINGS' STRAIN

of finest American grown Pansy seed; new crop now ready, saved from the very best selected plants, all large flowering, in great variety and most splendid colors; without doubt the finest strain in the market to-day. The following complimentary letter is one of many received every year:

BEAUFORT, N. Y., June 28th, '07.  
MR. E. B. JENNINGS, Dear Sir: The Pansy seed supplied by you last August produced the finest lot of varieties I have ever seen. They merit uniformly first-class seed. Send me one of your best mixed seeds as soon as you are ready. Respectfully,  
WILLIAM SCOTT.

Try a packet of Jennings' finest mixed strain and you will not be disappointed. Finest mixed, per pkt. of 2500 seed, \$1.00; \$5.00 per oz.; \$2.00 per 1/2 oz.; \$1.00 per 1/4 oz. White, yellow, black, blue, in separate colors, \$1.00 per packet. Send per 1/2 pkt. postpaid by mail. Price to Seedsmen on application. Cash with order.

E. B. JENNINGS, 253 1/2 Southport, Conn.

GROWER OF THE FINEST PANSIES.  
When Writing Mention Florists' Exchange



When Writing Mention Florists' Exchange

## W. & D'S. CROP MUSHROOM SPAWN

Special quantities to large buyers.

**ALL KINDS OF BULBS:** Lily Harris, Hyacinth, Narcissus, Freesia, Roman

**WEBER & DON,** Seed Merchants and Growers.

114 Chambers St., NEW YORK CITY.

When Writing Mention Florists' Exchange

## Pansies Worth Raising.

NEW CROP SEED OF THIS POPULAR STRAIN.

1-10 ounce ..... \$1.00  
1/2 oz. ..... 25 cts.  
1/4 oz. ..... 12 cts.

CASH WITH ORDER.

G. Soltau & Co., 179 Grand Street, Jersey City, N. J.

When Writing Mention Florists' Exchange

## ...PANSY SEED... Mixed together of Bugnot, Cassel, Odeur, Trimmadeur, and many other varieties.

1/2 oz. \$2.00; 1 oz. \$3.50. Plants ready September 15th, \$3.00 per 1000.

PREMIUMS.

7000 Petalose, standard mixed colors, \$2.50 per 100. Cash with order.

JOS. H. GUNNINGHAM, DELAWARE, OHIO.

When Writing Mention Florists' Exchange

## VAUTIER'S MAMMOTH PANSY.

New crop seed now ready. This is the largest and finest Pansy ever offered. Mr. Vautier has been over 20 years perfecting this strain. We have specimens from florists from all parts of the U. S. growing in its size and merit. Trade pkt. \$1.00; oz., \$4.00.

H. G. FAUST & CO., 51 & 60 N. Front St., Philadelphia, Pa.

When Writing Mention Florists' Exchange

## NEW CROP SEED NOW READY

ZIRNGIBEL'S STANDARD PANSIES

Silver Medal in Boston and First Prize everywhere.

"Bugs jewels of velvet and gold."—Boston Transcript.

GIANT MARKET and GIANT FANCY STRAINS, in trade pkts., at 21 each.

Printed directions with every package.

DENYS ZIRNGIBEL, Geddam, Mass.

When Writing Mention Florists' Exchange

## AMERICAN BULB COMPANY, BULBS, PLANTS AND SEEDS.

**BERMUDA EASTER LILY BULBS.** HEALTHY BULBS. Lending growers notice. That our stock is approved for export to that from any other source. Write for catalogue. Questions—All differ-paid.

Successors to the Bulb and Seed Business of **PITCHER & MANDA.**

Our prices are the lowest for guaranteed quality. Get our special prices on anything you require before ordering.

**SHORT HILLS, NEW JERSEY.**

When Writing Mention Florists' Exchange

## SEEDS

KENTUCKY BLUE GRASS (*POA PRATENSIS*), CHAS. E. PRUNTY, MAIN AND MARKET, SAINT LOUIS.

When Writing Mention Florists' Exchange

## LILY HARRIS BULBS.

... AND ... LONGIFLORUM.

Have you been disappointed in quality, supply or in any other way? If so, we can certainly satisfy you in

## Quantity, Quality and Price.

Being the largest individual receivers of these goods this year, and acting as agents for the Bermuda Bulb Growers in the U. S., we are better able to serve either Florist or Dealer more satisfactorily than any other source of supply.

Also Freesias, Calla Lilies, Buttercups, Oxalis, and all other Bulbous Stock.

## GLUCAS & BODDINGTON CO.

Importers, Exporters and Growers Agents,

Telephone Call 493 18th St. 501 and 503 W. 13th St., N. Y. CITY.

When Writing Mention Florists' Exchange

## JOHNSON & STOKES

## KINGLY GIANT PANSIES.

OUR PRIZE GOLD COIN COLLECTION OF KINGLY PANSIES can be surpassed in size of flower, perfection of bloom, or for the variety of markings or richness of coloring.

We offer \$50.00 in Gold Premiums for Biggest Pansies.

We know that in our "Kingly" Collection of Giant Pansies mixed we have the finest strain of pansies yet it is possible to produce. To inaugurate an effort to show them of their best, we offer the following GOLD PRIZES:

\$25.00 in Gold for the Largest Pansy.  
1.00 in Gold for the Next Largest.  
5.00 in Gold for the Next Largest.  
3.00 in Gold for the Next Largest.  
1.00 in Gold for the Next Largest.  
1.00 in Gold for the Next Largest.  
1.00 in Gold for the Next Largest.  
1.00 in Gold for the Next Largest.

CONDITIONS OF COMPETITION.  
Competition is open to all who produce an average size of flower, Collection of Giant Pansies. In our J. & S. Kingsley Collection of Giant Pansies, in the lower must be carefully grown and sown the seed to be on or before October 1st, 1908.

## BULBS.

Write us your wants We can hit you in price.

## JOHNSON & STOKES,

217 & 219 Market Street, PHILADELPHIA, PA.

When Writing Mention Florists' Exchange

SEEK THE REPORT.

Points and information from newsmen, and all interest in the box noted. Address: R. M. McEwen, Florists' Exchange, P. O. Box 1061, New York.

Express rates on Seeds... Under date of June 10th, 1897, the following circular was issued by the Traffic Committee...

"Seeds completely boxed and packed so that they may be handled without extra care..."

"We understand this rate is in force on Arizona Express Co., American, Erel & Prev's, National, Dow & Boston Dispatch, Northern Pacific, Pacific, Southern, United States, and Wells Fargo & Co.'s Express."

"This concession has been granted in return for the special contract..."

"Refer your express agent to his circular of instructions, dated July 1, 1897..."

"The above trade is in a very satisfactory condition and dealers for the first time in a long while say that business is good..."

"Bulls are reported to be stiffening in price abroad, Romano especially, and reports from Holland indicate that the market for caryophylls was expected, so that steady, if not increased, prices may be looked for..."

"W. P. Langbein, representing Jerome B. Hea & Co., Cambridge, N. Y., and Howard M. Clark, representing W. Aker Purpee & Co., Philadelphia, were in town during the week..."

"In flower seeds a considerable shortage on pansy is reported from many districts..."

"The result of the tests of other varieties... the front rank as regards color, size and form..."

signed was illegal the judgments will have to be satisfied in their order as obtained while the assets hold out..."

The following are the attachments to date: Thos. Matthews, \$2,792; M. H. Brady, \$2,200; C. W. Statts, \$130; P. Brady, \$1,200...

Floral Park, N. Y.—The season is proving very favorable to the growth of the gladiolus, a plant for which this district is famous..."

Sioux City, Ia.—Under an order of the district court, the Receiver of the Sioux City Nursery and Seed Company, on July 31st liquidated the assets..."

A new organization will be formed to care for the same, the Sioux City Nursery and Seed Company. Articles of incorporation were filed July 20...

Germany and the Tariff.—The Berlin correspondent of the New York Tribune says that the Florists' Association of that city has sent a memorial to the Imperial Chancellor...

Parsley and Parsnip Notes. Parsley and Parsnip.—The crops of parsley and parsnip have not been reported on for some little time...

Flower Seeds. In flower seeds a considerable shortage on pansy is reported from many districts, and in several places very tar-nish use with a moderate crop."

The Pink Cupid sweet pea was again exhibited, this time in much better form, but the prejudice against it by the numerous failures with the white variety in 1895 caused the committee to ignore the new variety..."

The result of the tests of other varieties is slightly more original than Aurora in the front rank as regards color, size and form. Brilliant is a decided acquisition in the line of new varieties and public opinion respecting it confirms the award of the R. H. S. Brilliant will be well represented in the meeting of Honor should easily displace Butterfly-Golden Gate would be much more effective in the future..."

out one sigh of regret. Aurora has fairly killed it in catalogue and garden. Two new varieties, Columbia and Cornet, submitted for test by the Rev. W. T. Hutchins, are of good form and size, but the watered colors in both cases give the flowers a flimsy appearance and destroy their value..."

FOREST SEED. 50 lb White Pine Seed etc. also Black Pine, Balsam Fir, Scarlet Maple, White Pine, etc. SPECIAL BARGAINS IN PLANTS. White and Norway Spruce, 18 to 24 in. (stocky plant), \$100 per 1000...

Elliott's Little Gem DWARF CALLA. Nice plant little bulbs that will excel nice plants for spring sales, \$1.40 per 100; \$10.00 per 1000 by mail, post paid...

"=BULBS=" J. CHAS. McCULLOUGH & CO. NEW YORK. BEST QUALITIES, LOWEST PRICES, LARGEST STOCKS. SEEDS SECOND & WALNUT STS. SEEDSMAN, CROWER, IMPORTER AND EXPORTER. CINCINNATI, OHIO.

HYACINTH CASES ARE THE BEST. Seed, \$1.25 per 1/4 ounce. Plants, \$5.00 per 1000; 75c. per 100; 2500 for \$10.00. ALBERT M. HERR, LANCASTER, PA.

ROMAN HYACINTHS, Best \$18 per 1000, exclusive duty. NARCISSUS PAPER WHITE GRANDIFLORA, Extra, \$7.50 per 1000, exclusive duty. FREESIA REFRACTA ALBA, Extra fine, \$5.00 per 1000, exclusive duty.

F. W. O. SCHMITZ, Jersey City, N. J. FRESH GROWN SEEDS—Seed Order Quick. Extra Fine. . . . .

KENTIA Belmoreana or Fosteriana, elegans, delivered..... per 1000 \$5.75. Fresh Corypha australis or Seafortithia, delivery, delivered, included, per 1000 \$3.50.

When in Providence Trust in Providence And Your Own... Good Judgment. Don't fail to inspect my splendid exhibit of Bulbs and learn of the great cash bargains you can make..."

193 GREENWICH STREET, Near Fulton, NEW YORK. C. H. JOOSTEN, Importer. When Writing Mention Florists' Exchange



# Nephrolepis Exaltata Bostoniensis.

In large and small quantities from \$40.00 to \$80.00 per 1000.

**MINE IS THE GENUINE STOCK.**

FRED. C. BECKER, - - - 1730 Cambridge Street, CAMBRIDGE, MASS.

When Writing Mention Florists' Exchange



Take off all side breaks, and whenever the leaders break with three shoots and a Summer bud, take all off, except one, to cover the plants about twice a week and refile then where necessary. Some need frequent tying, especially where the growth is weak and slender. Stiff growers, like Golden Wedding, May-flower and the like, only need tying about every nine inches to one foot.

At the present time, it is very important to shape the pot plants. Pinch out the points; strong shoots must be set back sharp; pinch weak ones moderately, so that they may catch up and make even plants. If the pinching is well and carefully done by a man with a head on him, very little tying is needed afterward. One stake to a market plant in a six, seven or eight-inch pot should be enough. Fred. Wals, if well done, will do without any stake.

And right here I may say that we ought to give the greatest credit to the grower who comes nearest to discarding stakes and wire as well as strings. If we could show our plants without artificial support like our out-floors, I think we would be decidedly nearer perfection than we are to-day. I must give Chicago credit for having enumerated in its premium list one prize for a plant without artificial support. I am strongly of the opinion that such a method of exhibiting will finally rule, but it may not be reached in 1898. Turgo, look.

## OTAHEITE ORANGES!

Bear in mind that we shall have a fine lot of well-fruited Otaheite Orange Trees for Christmas delivery.

Ghas. Zeller's Sons, Flatbush Brooklyn, N. Y. When Writing Mention Florists' Exchange

# FERNS

We make a specialty of small Ferns for the Fall trade. Write for special prices on large quantities. Order early.

**JOHN SCOTT, KEAP STREET GREENHOUSES BROOKLYN, N. Y.** When Writing Mention Florists' Exchange



# PALMS AND FERNS.

The LARGEST STOCK in the West. **GEO. WITTBOLD, 1708 N. Halsted St. CHICAGO.** When Writing Mention Florists' Exchange

## COLLECTED FERNS.

**NEPHROLEPIS EXALTATA**, \$12.00 per 1000 and you pay Express, or \$3.00 per 100 and we pay Express.  
**NEPHROLEPIS EXALTATA BOSTONIENSIS**, \$3.00 per 100; Nephrolepis Losleyana, N. DuRoi, Adiantum cordatum, A. dolabriforme, Blechnum serrulatum, Woodwardia angustifolia, and Osmunda regalis, all \$2.00 per 100 and we pay Express.

**B. M. WICHERS & CO., San Antonio, Fla.** When Writing Mention Florists' Exchange

## CHOICE STOCK.

**Cyperus Alternifolius**, 2 1/2 in. pots, ready to shift.  
**Grevillea Robusta**, 2 1/2 in. pots, ready to shift. 40 cts. per doz.; \$2.50 per 100.  
**Smilax**, 3 1/2 in. pots, extra strong.  
**Asparagus Tenasetinus**, 3 1/2 in. pots, 50 cts. per doz.; \$3.50 per 100.

Also several thousand Chrysanthemums, nice soft healthy stock, 2 in. pots. Our selection from good commercial sorts, \$2.10 per 100.

**NATHAN SMITH & SON, Adrian, Mich.** When Writing Mention Florists' Exchange

## GENUINE BOSTON FERN.

(N. EXALTATA BOSTONIENSIS.)  
\$5 to \$25 per 100. Prices on specimen plants on application.

**KENTIAS**, from \$6.00 per dozen to \$100.00 each.

**LATANIAS**, from \$6.00 per dozen to \$3.00 each.

**PRIMROSES**, 2 1/2 in. pots, \$4.00 per 100; 3 1/2 in. \$6.00 per 100.

**RUBBER PLANTS**, 6 in. pots, \$6.00 per doz.

**WILLIAM A. BOCK, North Cambridge, Mass.** When Writing Mention Florists' Exchange

# PALMS, &c.

*Areca lutescens*, *Latania Borbonica*, *Kentias*, *Livistona rotundifolia*, *Cocos Weddeliana*, *Ficus elastica*, *Araucaria excelsa*; *Pandanus Veitchii*, *Pandanus utilis*, *Cycas revoluta*, *Adiantum Farleyense*, &c.  
Sturdy, hardy, home-grown plants, that will last and give satisfaction. An immense stock of all sizes, in the best condition possible. I guarantee perfect plants and good packing. The Duty on plants will not affect my prices, which are always moderate.

PRICE LIST ON APPLICATION.  
Exhibit of Fair Sample Plants at Providence S. A. F. Convention.  
**CHAS. D. BALL, Holmesburg, Phila., Pa.**  
When Writing Mention Florists' Exchange

# NEPHROLEPIS EXALTATA BOSTONIENSIS

A FEW THOUSAND good plants at a bargain, as I must make room for other stock. This stock is the TRUE BOSTONIENSIS, and is in perfect condition.

**W. H. ELLIOTT, Brighton, Mass.**  
When Writing Mention Florists' Exchange

# FINE STOCK OF PALMS



**ARECA LUTESCENS.**  
2 1/2 in., 1 plant in pot, 8 to 10 in., \$4.00 per 100  
3 in., 1 plant in pot, 10 to 12 in., 10.00 per 100  
3 in., 3 plants in pot, 10 to 12 in., 15.00 per 100  
8 in., 1 plant in pot, 30 to 36 in., 2.00 each.  
8 in., 1 plant in pot, 36 to 40 in., 2.50 each.  
8 in., 3 plants in pot, 24 to 30 in., 2.00 each.  
8 in., 3 plants in pot, 32 to 36 in., 2.50 each.  
10 in., 1 plant in pot, 42 to 48 in., 5.00 each.

**COCOS WEDDELIANA.**  
5 in., 1 plant in pot, 24 to 30 in., \$1.00 each.

**KENTIA BELMOREANA.**  
6 in., 6 leaves, 32 to 36 in., \$2.00 each.  
7 in., 7 leaves, 36 to 40 in., 2.50 each.

**ARECA LUTESCENS.**

**LATANIA BORBONICA.** PHENIX RECLINATA.  
2 1/2 in., \$4.00 per 100 Strong plants, 24 in. high \$1.00 each.

All Plants Measured from Top of Pot.  
SEE EXHIBIT AT S. A. F. CONVENTION.

# JOSEPH HEACOCK, WYNGOTE, PA.

When Writing Mention Florists' Exchange

To make room, **Nephrolepis Exaltata Bostoniensis**, the genuine stock, suitable for 2 1/2 in., 4 in., 5 in., and 6 in. pots, at \$1.00, \$1.50, \$2.00 and \$3.00 per 100. **Dracaena luidiviva**, for 5 in. pots, \$1.00 per 100.

**A. W. HOYLE, Spencer Mass.** When Writing Mention Florists' Exchange

**JULIUS ROEHR'S,** Headquarters for **Palms and Decorative Plants.** RUTHERFORD, N. J. P. O. Adams - Camden Hill, N. J. When Writing Mention Florists' Exchange

**PALMS** AND OTHER DECORATIVE PLANTS At Lowest Reduced Prices. Stock large and in fine condition. Send for new Wholesale list. Special attention, large orders. Send in list of your wants.

**W. J. HENNESSY,** Plainfield, N. H. When Writing Mention Florists' Exchange

# FERNS

*Pteris Serrulata*, *Pteris 'retica' alba*, *Dennis*, *Adiantoides*, *Asplenica*, *Aspidium Lutescens*, *O. yulium Japonica*. \$3.50 Per 100. CASH WITH ORDER. **CHAS. F. BAKER, Utica, N. Y.** When Writing Mention Florists' Exchange

**VIOLETS! VIOLETS!**  
**MARIE LOUISE.** Pot grown, clean and healthy in every particular, \$3.00 per 100; \$16.00 per 1000. Same plant, like Cash with order.  
**W. J. CHINNICK, Trenton, N. J.**  
 When Writing Mention Florists' Exchange

**FARQUHAR VIOLETS**  
 Strong, healthy plants, from pots, \$3.00 per 100; \$16.00 per 1000. Same plant, like Cash with order.  
**THOMAS F. O'BRIEN, Folsom St., Rosedale, Mass.**  
 When Writing Mention Florists' Exchange

**VIOLETS = Marie Louise.**

Strong, healthy, 3 inch, pot grown, no disease, ready for August delivery.  
 \$3 per 100; \$25 per 1000; Cash.

**GEO. H. BENEDICT, Yorkville, N. Y.**  
 When Writing Mention Florists' Exchange

**VIOLETS**

Very healthy, Marie Louise, field-grown, choice plants, \$3.00 per 100.

Also **CARNATIONS**, for Fall delivery. Scott, McGowan and Daybreak, clean plants.

**F. G. MENSE, Glen Cove, L. I., N. Y.**  
 When Writing Mention Florists' Exchange

**VIOLETS**

All first-class plants. Orders received only for fall planting. **Marie Louise, Lady Campbell, Stanley White, Farquhar, Franchisee de Galles, California.** Price on application.  
**FELD, BULLOCK, 508 CHAS. L. N. Y.**  
 When Writing Mention Florists' Exchange

**VIOLETS**

FOR BENCHING NOW.  
 M. Louise, Campbell and Stanley, fine strong plants. Price, \$3.00 per 100; also 1000 at strong field prices of California and Campbell for fall planting; ask for prices. Satisfaction guaranteed. \$2.50 per 100.

**BENJ. CONNELL, Florist, West Grove, Pa.**  
 When Writing Mention Florists' Exchange

**Harrison's White CARNATION.**

New Carnation, sport from Wm. Scott.

**JOHN HARRISON, 739 Bergen Ave., Jersey City, N. J.**  
 When Writing Mention Florists' Exchange

**CARNATIONS**

**F. DORNER & SONS CO., La Fayette, Ind.**  
 When Writing Mention Florists' Exchange

**TURETAN FIELD CARNATIONS**

with plenty of roots.  
 \$5.00 per 100 and upward for all the New and Standard Varieties.

**GEO. HANCOCK & SON, Grand Haven, Mich.**  
 When Writing Mention Florists' Exchange

**H. WEBER & SONS,**

**CARNATIONS,**

**OAKLAND, MD.**

When Writing Mention Florists' Exchange

**PRICE LIST FOR EXHIBITION STATIONERY.**

1000 Entry Forms . . . . .	\$2.75
Two Exhibitor's Books . . . . .	3.00
Two Class Books . . . . .	2.50
Twelve Judge's Books . . . . .	5.00
500 Entry Cards . . . . .	3.50
500 Pastors (assorted) . . . . .	1.00
<b>Total . . . . .</b>	<b>\$16.75</b>

WE WILL FILL YOUR ORDER FOR THE ABOVE GOING AMOUNT TO THE MONEY BY EXPRESS, O. G. B. NEW YORK, FOR \$15.00.

Secretaries of Horticultural, Agricultural, or any other form of competitive show, are invited to write for full particulars.

It is freely conceded that the system we have suggested saves time, temper, trouble, worry and expense.

The detailed work of every exhibition, large or small, should be run on business lines, and you will find this system the easiest, least expensive, and most satisfactory. Address correspondence

**A. T. DeLaMare Ptg. & Pub. Co. Ltd.**

**P. O. Box 1697, NEW YORK.**

*Convention Week*  
 Will be a good opportunity for visiting valuable property in Newport, advertised on page 742-474.

**PRIMROSES! PRIMROSES!**

From 25 in. pots, choice imported seed from Germany, for \$3.00 per 100. Cash with order.  
**Mrs. M. Cavanaugh, Millers Corners, N. Y.**  
 When Writing Mention Florists' Exchange

**GRALLERT & CO.**

**CARNATION GROWERS**

**COLMA, SAN MATEO CAL.**

When Writing Mention Florists' Exchange

**FIELD-GROWN CARNATIONS and VIOLETS.**

Ready September 15th.  
**JOSEPH RENARD, Unionville, Chester Pa.**  
 When Writing Mention Florists' Exchange

**FIELD-GROWN CARNATIONS**

Good, strong, healthy plants. Write for kinds and prices. Delivery after Sept. 15th.

**LOGAN AV. GREENHOUSES, Danville, Ill.**  
 When Writing Mention Florists' Exchange

**EDW. J. TAYLOR,**

Wholesale  
**Carnation Grower,**

**SOUTHPORT, CONN.**  
 When Writing Mention Florists' Exchange

**Testing Seeds.**

The Maine Legislature enacted a law last Winter regarding the testing of seeds entering that State. The act comes into effect September 1, 1917. Its provisions, which we print below, are, it will be seen, based on those of the Cook (now the Davidson) bill.

**AN ACT TO REGULATE THE SALE OF AGRICULTURAL SEEDS.**

**SECTION 1.** Every lot of seeds of agricultural plants, whether in bulk or in package, containing one pound or more, and including the seeds of cereals (except sweet corn), grasses, forage crops or melons, and other plants, but not including those of trees, shrubs and ornamental plants, which is sold, offered for sale, or put on the market, by any person in Maine, shall be accompanied by a written or printed guarantee of its percentage of purity, freedom from foreign matter; provided, that said guarantee may be so issued when the percentages of the various constituents are stated.

**SECTION 2.** Dealers may base their guarantees upon tests conducted by themselves, if the same are by the Director of the Maine Agricultural Experiment Station; or, provided, that such tests shall be made under such conditions as the Director may prescribe.

**SECTION 3.** The results of all tests of seeds made by said Director shall be published by him in the bulletins or reports of the Experiment Station, together with the name of the person or persons from whom the samples of seeds were taken. The said Director shall also publish equitable standards of purity to which such other information regarding agricultural seeds may be applied as he shall best see fit.

**SECTION 4.** Any person or persons who shall offer or expose for sale or for distribution in this State any agricultural seed, without complying with the requirements of sections one and two, or who shall be convicted in any court of competent jurisdiction, be fined not to exceed one hundred dollars for the first offense and not to exceed two hundred dollars for each subsequent offense.

**SECTION 5.** Any person or persons who shall, with intention to deceive, wrongly mark or misbrand any seed, or who shall sell or expose vegetable seeds or any other agricultural seeds, including those of trees, shrubs and ornamental plants, shall be guilty of a misdemeanor and upon conviction in a court of competent jurisdiction shall be fined not to exceed one hundred dollars for the first offense and not to exceed two hundred dollars for each subsequent offense.

**SECTION 6.** The provisions of this act shall not apply to any person or persons growing or selling cereals and other seeds for seed.

**SECTION 7.** The provisions of this act of the Maine Agricultural Experiment Station before the enactment of the existing act, and the provisions of this act, shall be held in violation to the Secretary of the Board of Agriculture, and said Secretary shall prosecute the offender or parties thereto.

**SECTION 8.** All acts and parts of acts inconsistent with this act are hereby repealed.

**SECTION 9.** This act shall take effect September one, eighteen hundred-ninety-seven.

**RULES FOR TESTING PURETY OF SEEDS.**

The following rules for testing seeds are taken from those adopted by the Association of American Seed Producers, the Association of American Seed Producers, the College and Experiment Stations. The rules which have to do with germination

**STANDARDS OF THE PURITY AND GERMINATION OF AGRICULTURAL SEEDS.**

Seed.	Purity.	Germination.	Seed.	Purity.	Germination.
Alfalfa	98	85-90	Milk, musk	99	85-90
Asparagus	98	80-85	Milium, white	99	85-90
Barley	99	90-95	Millet, common ( <i>Setaria Italica</i> )	99	85-90
Beans	99	90-95	Millet, hard ( <i>Panicum italicum</i> )	99	85-90
Beet	99	90-95	Millet, pearl	99	85-90
Blue grass, Canadian	99	45-50	Mustard	99	85-90
Blue grass, Kentucky	99	45-50	Oats	99	90-95
Brome, awless	99	75-80	Onions	99	85-90
Buckwheat	99	90-95	Ornamentals	99	80-85
Cabbage	99	90-95	Ornamentals	99	70-75
Carrot	95	80-85	Parsley	99	70-75
Caulliflower	99	80-85	Parsnip	99	95-98
Celery	99	80-85	Pumpkin	99	85-90
Clover, Alsike	95	75-80	Raspberries	99	90-95
Clover, crimson	98	85-90	Rye	99	90-95
Clover, red	99	85-90	Safflower	99	85-90
Clover, white	95	75-80	Sorghum	99	85-90
Collard	99	90-95	Spinach	99	80-85
Corn, dent	99	85-90	Squash	99	85-90
Corn, sweet	99	85-90	Timothy	99	85-90
Cotton	99	85-90	Tobacco	99	90-95
Cowpeas	99	85-90	Tobacco	99	75-80
Cress	99	85-90	Wheat	99	90-95
Cucumber	99	85-90			
Excellent	99	85-90			
Fescue, meadow	95	85-90			
Lettuce	99	85-90			
Kern corn	98	85-90			

\* Each beet fruit or "ball" is likely to contain from two to seven seeds. One hundred balls should yield at least 150 sprouts.

are here omitted, and the other rules are modified, when necessary, to conform to the requirements of the law in this state for the regulation of the sale of agricultural seeds.

**Directions for Sampling Seeds.**—The contents of packets should be emptied out, mixed thoroughly by stirring, and small quantities taken from different parts of the mixture to make the sample. These "take handfuls at random" from the middle and bottom, and from these, after sifting, take the sample feeding into a sample pan, seeds so under scientific guaranty of quality, must be taken in the presence of the sender and a disinterested witness, who shall certify that the sample was taken in his presence according with the above directions. The sample must be enclosed in an envelope or other suitable package, securely fastened and sealed with wax or the presence of the witness. The names of the sender and witness must be written on the outside of package with all the larger vegetable seeds except beet "balls," 2 ounces.

Grasses, except noted below, 1 ounce.  
 Clovers and all seeds of similar size, 2 ounces.

Cereals, vetches, beet "balls," and all larger seeds, 4 ounces.

Rye grasses, bromes, sorghums, and millets, 2 ounces.

All the smaller vegetable seeds, 1 ounce.  
 All the larger vegetable seeds except beet "balls," 2 ounces.

**Sending samples.**—Every sample for test sent out of the Station should be securely fastened package accompanied by a statement certifying to the fitness of the sample, its source, etc. Blank forms for this purpose will be furnished by the Station upon application. In cases of guarantee seed, the sample must be taken in accordance with directions given above.

**Quantities of samples.**—All samples should be made by weight from fair, average samples of seed. The minimum quantities to be used for testing are as follows:—See below and must be so dry as to secure a thoroughly representative sample.

Grasses, clover, sorghum, etc., 100s, yellow oat grass, tobacco.

Two grams: Bermuda grass, velvet grass, timothy, timothy, timothy, dog's tail, orchard grass, sweet vernal grass, alsike clover, white clover, Umbellifer, and all the species except meadow fescue.

Three grams: All grasses seed not enumerated above.

Five grams: Mellotts, Medicago spp., millet, lettuce, and all species of clover seed.

Ten grams: Crucifers, flax, and legumina.

Thirty grams: Buckwheat, Vicia spp., Lathyrus spp., beet "balls," sunflower, sarracella, cucurbits, and all cereals except corn.

Fifty grams: Peas, beans, corn, lupines, cotton, and cowpeas.

NEW BEAUTIES IN JARDINIERS.

As the fondness of the human family for the charming bloom of flowers is well nigh universal, it may be said with equal truth that everything which enhances their beauty or contributes to their better development is estimated in the same relative proportion.

The jardiniere and pedestal and the fern receiver, head the list of articles for the reception of plants and flowers which not only perform that graceful office but are at the same time genuine specimens of household adornment when artistically modeled and decorated.

For a number of years past the Cook Pottery Co., of Trenton, N. J., has devoted special care and attention to the manufacture and decoration of jardinières, pedestals, fern receivers, and by steady and persistent effort they have so improved their methods and processes that they are now enabled to place upon the market a class of goods, which for elegance of style and richness of decorative effects, are unequalled by anything of a similar class produced either in this country or Europe.

At a recent exhibition of their lines in New York City one of the leading caterers to the florist trade volunteered the opinion that the jardinières, pedestals and ferners



of the Cook Pottery Co., more nearly approached the ideal receptacle for flowers and plants than anything that had yet come under his observation.

The manufacturers of these goods have placed a fine exhibit of the line on view at Room 322, 1st or House, New York, where florists desiring to inspect the same will be cordially welcomed at any time—Adm.

Amounts to be taken of seeds not enumerated shall be the same as those required for seeds named which are of similar size.

STANDARDS OF PURITY.

In accordance with Section 4 of the pure seed law, the following equitable standards of purity are tentatively suggested. They are the standards adopted by the U. S. Department of Agriculture and are based upon investigations made by the Division of Botany of that Department. They are here printed without change, and include some seeds not likely to be offered in this State. For convenience of reference the percentages of vitality, as well as percentages of purity, are given. (See page 734.)

EXAMINATION OF SEEDS BY THE STATION.

The following are the rules to be observed by agents upon tests made by himself, his agent or the Maine Experiment Station, as the Station has no funds available for this purpose, a charge sufficient to cover the cost of making the tests will be made. The charge for testing seeds for purity will be one dollar per sample in the case of seeds of one kind, and two dollars in the case of mixed seeds. The seeds sold in mixtures the charge will be one dollar for the sample and twenty-five cents additional for each kind of seed to be therein. Mixtures are difficult to separate and determine, and for this reason an extra charge is necessary. Seeds to be tested for purity for any person resident of the State, whether a dealer or not, at the above rates. The Station reserves the right to publish all results which prove of general interest.

Persons desiring to send seeds to the Station for testing can obtain, on application, blanks on which to describe the sample, directions for supplying and printed on the reverse of the blank. The receipt of the sample will be acknowledged as soon as they arrive. Usually a report can be made within two or three days.

CATALOGUES RECEIVED.

R. M. WIGGINS & Co., San Antonio, Fla.—Wholesale list of Anabasis, Citrinas and Pueraria, and other plants, ferns, etc.

J. M. THORNTON & Co., New York—Wholesale Trade List of Bulbs, etc.

Wm. NELSON, New Orleans, La.—Price List of Plants and Horticultural Supplies.

CHANGES IN BUSINESS.

Jamesville, N. Y.—Theo. Miller, formerly of Lafayette, N. Y., has entered into partnership with T. F. Clark, and will operate the florist business here under the style of Miller & Clark.

York, Pa.—H. C. Childs has turned over his business here to Miss G. Lyneis, by whom it will now be carried on.

Troy, N. Y.—H. C. Noyland has accepted a position with Young & Halsted of this city, as manager of their flower seed and bulb department.

# ASPARAGUS PLUMOSUS NANUS...

Representatives to the Providence Convention are cordially invited to inspect my Asparagus houses.

I am the only large grower of Asparagus in the United States, and can supply strings by the thousand at all times.

Take Oak Square Electric Car from the Boston Flower Market.

## W. H. ELLIOTT, BRIGHTON, MASS.

When Writing Mention Florists' Exchange

**EXTRA STRONG SMILAX,**  
\$2.50 per 100. **PRIMULAS**, bright colors, mixed, \$2.50 per 100. "surplus stock. Address **W. B. WOODRUFF, Florist,** Westfield, N. J.

**SMILAX**  
Strong heavy 1 year plants, 2 1/2 inch pots, \$2.50 per 100. Strong plants, 1 year old, 2 1/2 inch pots, \$1.75 per 100. \$15.00 per 1000.  
N. A. RICE—1 1/2 inch—Poinc. double and single Yon Son and King's Knide, 50c per 100. \$5.00 per 1000.  
A. D. YENHU—1 1/2 inch—L. I.—Indispensable for Green work, \$1.00 per doz.  
**F. A. BALLER, Bloomington, Ill.**

## AZALEAS!

**4,000 SMILAX PLANTS**  
In 3/4 inch pots, strong and healthy.  
\$2.50 per 100.  
**ASA L. BROWN, Davis Ave., Kearney, N. J.**  
When Writing Mention Florists' Exchange

(INDICA.)  
8 to 9 in. heads, \$15.00 per 100; \$145.00 per 1000  
9 to 10 " " " 17.50 " 175.00  
10 to 12 " " " 20.00 " 190.00  
12 to 14 " " " 25.00 " 250.00  
14 to 15 " " " 30.00 " "

**PALMS, Etc.**  
For Palms, Aspidistras, Araneas, etc., please refer to our advertisement in Florists' Exchange of May 15th and June 15th.

**BECONIAS.**  
(Erect Flowering) Single Tuberosus Rooted.  
About 1 inch diam., separate colors, \$8.00 per 100; \$70.00 per 1000.  
About 1 1/2 inch diam., separate colors, \$10.00 per 100; \$100.00 per 1000.

**GLOXINIAS** (Erect Flowering)  
About 3/4 to 1 1/4 inch diam., mixed, \$10.00 per 100; \$9.00 per 1000.  
About 1 inch diam. above diam., mixed, \$18.00 per 100; \$100.00 per 1000.

**LOW PRICES. HIGH VALUE.**  
**SMILAX**, strong, ..... \$2.00 per 100  
**DRACENA INDIVISA**, ready for planting, ..... 8.00 per 100  
**REX BECONIAS**, 2 1/2 assorted strong.  
Cash with order, please.  
**C. W. TURNLEY, Haddonfield, N. J.**  
When Writing Mention Florists' Exchange

## SMILAX! SMILAX!

Extra 2 inch, \$1.50 per 100;  
\$10.00 per 1000.

## GLADIOLI CUT SPIKES

By the 1000 or 10,000. Get our prices.  
**TERMS CASH.**  
**BETSCHER BROS., Canal Dover, Ohio,**  
When Writing Mention Florists' Exchange

**ROYAL NURSERY,**  
**LOUIS VAN HOUTTE PÉRE,**  
Ghent, Belgium.  
When Writing Mention Florists' Exchange

### Primula Chinoensis Fimbriata. NOW READY.

In excellent condition from 2 to 2 inch pots, single vars., in separate colors, \$1.50 per 100, mixed, \$1.00 per 100. Double Primula, Chino. Fim. B., alba, p. and rubra, \$4.00 per 100.

**PAUL MAOER, E. Stroudsburg, PA.**  
When Writing Mention Florists' Exchange

### SMILAX PLANTS

It is certain to do them out. White st. ch. leaves will sell at once, healthy, well-grown, one and 2 1/2 inch pots, at \$1.25 per 100; \$10.00 per 1000. Cash with order. Every plant shows off its wrapper money back. Strong, healthy, red, white, and variegated. Large specimens, 2 1/2 inch pots, \$1.50 per 100. Write for prices.

**R. KILBOURN, N. Clinton, N. Y.**  
When Writing Mention Florists' Exchange

### 500 FIGUS ELASTICA

2 1/2 inch and 5 in. pots, \$25.00 and \$30.00 per 100.

### 2000 FIGUS REPENS

3 to 4 in., \$10.00 per 100. Ready September 1st.

**J. H. MENARD, St. Charles and Howard Aves., NEW ORLEANS, LA.**  
When Writing Mention Florists' Exchange

### ASPARAGUS SPRENGERII.

**500 Strong Plants**  
From 2 inch pots; ready for a shift, \$6.00 per 100. CASH WITH ORDER.

**WACHENDORFF BROS., - - Atlanta, Ga.**  
When Writing Mention Florists' Exchange

### SMILAX

Strong, healthy plants, from 2 1/2 inch pots \$1.50 per 100; \$15.00 per 1000. 9 to 10 inch plants, ASPARAGUS, Tenaxistatus and Plumosa, from 4 inch pots, \$3.00 per 100.

**JAMES MORAN & SON, Bridgeport, Conn.**  
When Writing Mention Florists' Exchange

### Asparagus Plumosus Nanus...

(Tree) replanted seedling plants, now ready. \$25.00 per 1000. Sample on application. Also fine **ASPARAGUS SEED, \$10.00 per 1000 seeds.** Cash with order from unknown correspondents.

**R. ASMUS, - - NEW DURHAM, N. J.**  
When Writing Mention Florists' Exchange

### SMILAX PLANTS

2 1/2 INCH POTS.  
\$2.00 per 100. Cash.

**EDWIN A. SEIDWITZ, 36 W. LEXINGTON ST., BALTIMORE, MD.**  
When Writing Mention Florists' Exchange

## OBITUARY.

## Calvin S. Goddard.

Calvin S. Goddard died very suddenly on the morning of August 4, at his home in Deering Center. It is thought that his sudden demise was probably owing to pleurisy of the heart. Mr. Goddard had been known as a successful florist in Boston for some years. He had just come from Brunswick to Morrill's (former manager of Adams' nursery, and later a partner in business) or himself at his present stand.

He was a minister in the Society of Friends and president of the church that society. He leaves a widow, daughter, and two sons, one of whom, Lewis Goddard, was associated with his business. The other son Edward H. lives in Ashland, Me. Mr. Goddard was 72 years of age.

## Nathaniel P. H. Willis.

It is with regret we are called upon to record the death of Nathaniel P. H. Willis, which occurred on Monday, August 1, in Chelsea, Mass., at the advanced age of 87 years. Mr. Willis was perhaps the oldest salesman in the country and undoubtedly the oldest in any seed store, having served in that position for over 50 years. He died in 1894, in the constant employ of Joseph Ereck & Sons and their predecessors.

Mr. Willis was a native of New York, well known among the farmers at the beginning of this century, and was descended from Charles Willis of Putnam fame. He began work as a boy in his father's shop, and in a short time went on the salesforce of Jos. B. Newell, dealer in seeds and agricultural implements, at No. 108 State street. This business was carried on for some time by Jos. B. Newell, then in the seed business and publishers of the New England Farmer, and in their employ he remained until a few years prior to his death.

## Henry A. Gane.

Henry A. Gane died at his residence in West Newton, Mass., on Monday evening, August 9. Though not identified with the trade Mr. Gane had always been an ardent and successful horticulturalist, and devoted much time to cross-fertilization of plants. He has, for example, produced the Mrs. Jerome Jones, so popular with all growers the world over. In 1891, Mr. Gane was elected president of the A. S. G. Mr. Gane was born at Frome, Somersetshire, England, in 1811, and before he was 20 years of age he was spending several years in different parts of New England. He established himself in the book-binding and book-binding supply business in Boston, in 1846. He was successful and many years ago retired from active business, and spent the remainder of his life among his plants and flowers on his beautiful suburban estate in West Newton.

## Edwin M. Buswell.

On Saturday last the remains of Edwin M. Buswell were interred in Newton Cemetery, having been accompanied by his son and daughter from Brooklyn, N. Y., where he passed away two days before last. Mr. Buswell was a noted cultivist in the vicinity of Boston. Mr. Buswell was well known, and by them the Massachusetts Horticultural Society and in this position his love and knowledge of horticulture proved of incalculable benefit to the trade. It is to him alone the credit of introducing the French reinetia alias into the United States, having received it in exchange for some tree seeds sent to the secretary of the Society of Good Gardeners and Florists Society. His interest in his life's study continued up to a few days before his death, when he was afflicted with cerebral paralysis. He was 84 years and three months of age. W. K. W.

## William Murdoch.

William Murdoch, one of the pioneer nurserymen and florists of western Pennsylvania, died at Pittsburg August 4. Mr. Murdoch was born near Belfast, Ireland, in 1801. His parents were Scotch-Irish. In 1826 his father, John Murdoch, emigrated to America with his family. There were seven children in the family, three girls and four boys, William, James, John, and Andrew. William was the last survivor. The family landed in Baltimore and came overland to Pittsburg by stage. The father bought a farm of 112 acres. The place was formerly called Hedgerow farm nursery. On the death of the father, two of the sons, William and James, took up the business. They established the well-known store on Smithfield street. About four years ago James Murdoch died, and soon afterward William Murdoch retired from business on account of his increasing years. A. M. and J. E. Murdoch, sons of the deceased member of the firm, (James) succeeded him.

William Murdoch never married. Until the death of his sister, eight years ago, he made his home with her family, and since that time he has been living with his brother's family on Wilkins avenue. His death was sudden, and occurred while he was at his home Tuesday night, August 3.

city to take it upon themselves to call a formal meeting, by circular in defiance of the constitution and the wishes of many of the members of the society is an act that cannot be too strongly condemned. Mr. Rudd says these are "erroneous statements"; members of the society can decide that question for themselves. It seems very clear that the officers have run away with the society. I hope they will reconsider their thoughtless conduct and return it in good order and condition.

It probably did not occur to Mr. Rudd that the constitution of the society was in the meeting when he wrote that "The meeting at Providence cannot take action on this matter, as the constitution of the society never ratified at the regular annual meeting."

It is to be regretted that July 22, issued by the officers of the Carnation Society, they took the fate of the society into their own hands, under the S. A. F. and all. It is not wot that such action should pass unnoticed.

## LORNON WRIGHT.

[Technically, Mr. Wright is correct. No one can construe any portion of either the constitution or by-laws of the American Carnation Society into making provision for more than "one" general meeting in a year. Article VI. of the constitution is explicit enough on this point. If, however, our correspondents, Messrs. Wright and Rudd, will refer to the records

The constitution should, however, be altered to meet the exigencies of the case, or a meeting called to amend the constitution of the executive committee only. The constitution, as it stands, including an August meeting of the Carnation Society is an attempt to "unite with the S. A. F." and to "unite with the S. A. F." without foundation. Personally, we have attended the August meetings, and have not been asked to vote on any resolution. If desired, can only be accomplished in one way, and that is by open vote. It is to be regretted that the fact officers of the Carnation Society are perfectly cognizant. E. J.

## The New Tariff and its Probable Effects.

## Editor Florists' Exchange.

"This an ill wind that blows nobody good," they say. Now let us see what good may come to the trade in view of this new 25 per cent. ad valorem duty on most garden seeds on all bulbs, bulbous roots, corms, plants, trees, shrubs, vines, etc., to be levied by florists or nurserymen. It is very hard to see how it can be made to improve on the general quality of horticultural and floricultural stock sent to the United States. It is to be regretted on an occasional 10 per cent. in the past to the 25 per cent. standard. And it is to be regretted that no forwarding agent or silk taly that "anything is good enough for America," had after they previously sent rubbish, pretended that what they sent was good and prime, because of the ignorance, indeed possibly through previous occasional staple competition there to excel rather by charge of quality.

Second: Foreign countries will likely no longer consider the United States markets as a ready dumping ground for their surplus stocks of any grade and quality, when the chances are that in many instances they will not see the on-lays for freight and duties returned. This, prices in general will be better protected, and the quality of the goods to be affected and made to suffer by a sunken market and low prices for poor and inferior goods.

Third: The higher duty should diminish the chances of seeing foreign horticultural stock, of any grade and quality, or low grade offered to the unsuspecting public through channels that cannot be traced. It is to be regretted that articles which is acquired only by artificial training or after long experience. We are not to be surprised that the new system, whose main method is to buy anything that can be bought cheap and sell it at a profit, will be the rule. It still appear cheap in selling "dry goods by the yard," "bulls by the pound," etc. The seeds of the future will be made to give satisfaction first and last, thereby to create new demands, and this increase their trade. This will be the natural outcome, when not forgetting the lessons of the past, selling prices are kept at a fair level, and no excessive profits are taken. Truly, the seedsmen and florist who follows his stock in the trade, and has his heart in his business, will help more than he is aware of to develop and improve the character of the trade in our people's character, by cultivating their taste for the truly good and beautiful.

Fourth: The duty on horticultural stock will likely have a tendency to restrict the invasion of foreign salesmen by the "free of duty system" of the Meadows and Wilson days, or even to be made in many instances without any discretion or judgment of man or locality. We are not to be surprised that they were busy; collecting accounts was left to the future. Not satisfied to sell to respond to the demand, they were content with people of little or no responsibility; thus creating, when harvest time came, a glut of stock, which the trade will blame the florist who took the chances to make some money in winter and spring, when they were hard pressed; with little or no money outlay on his part? But will this same party be any better off when he has first to procure one-fourth cash for duty on goods, and then to pay the duties on the bulbs and plants for cut flower-growing, and then to pay the duties on the goods in the future, with a good stiff duty on, than in the past without a duty. We are not to be surprised that the trade in proportion to our market's wants. We believe this will improve the character of the trade, and the duty will do us as a blessing to all importers, dealers, consumers. E. E. E. E. E.

## Exhibit of Tulips at Hamburg International Horticultural Exposition.

Made by Krelage & Son, Holland.

## CORRESPONDENCE.

*Insertion will be given in this column to all communications free from animus, and the opinions expressed will be necessarily their own.*

## The American Carnation Society.

*Editor Florists' Exchange:*  
Article VI. of the constitution of the American Carnation Society reads as follows:

"The society shall hold an annual meeting commencing on the third Tuesday [since altered to Thursday, E. J.] in February. The convention shall hold two sessions each day, uninterrupted, until the business of the society is completed, and no local committee or officers of the society shall have power to set aside this article, except as provided in Section 10 of the by-laws. (Section 9 of the by-laws refers to the order of business only.)"

An annual meeting means one annual meeting; an being in the singular number. And it is only necessary to read the article to see that the officers of the society are perpetually forbidden to make any change.

At the New York meeting some attempt to bring together the Carnation Society and the S. A. F. was made. Opposed to this was the constitution, which voted that a delegate be appointed by the president to confer with the executive committee of the S. A. F. It was voted that a delegate was not appointed, for no resolution was made at any conference. It is well known that some of the members of the Carnation Society are strongly opposed to any connection with the S. A. F. If at a lawful meeting of the society a majority of the members vote to unite with the S. A. F., that ends it, and members who don't like it can withdraw if they choose. For the officers of the so-

ciety, they will therein find (Report of 1891-92, page 69) that the first meeting of the society held at the same time as the date of the S. A. F. convention at Washington was really an adjourned meeting of the Buffalo convention of the American Carnation Society, duly convened by motion to that effect put and carried at Buffalo. This has, no doubt, served as a precedent for subsequent meetings of the Carnation Society in New York. It is to be regretted that the meeting at Washington itself was unconstitutional. Article VI. declaring that the meeting of the society at the annual meeting shall be held "uninterruptedly until the business of the society is completed."

The only meeting in the interval between the annual gatherings, for which the society passed at Cincinnati, the convention there having been "adjourned subject to the call of the president."

It will be seen, however, that for the reason before stated, the "adjourned resolution" as a violation of Article VI. inasmuch as it set at naught the said article, without conforming to Article X. However, the necessity for such a preliminary meeting is obvious, and the holding of one has heretofore made for the benefit of the society. It is to be regretted for essays chosen, and the writers selected, and the members of the society an exhibition and other important business transacted. The time was also opposed to any connection with the S. A. F. together those members attending the convention of the S. A. F., thus saving the expense of convening the executive committee at a period in the interval between the annual meetings.

ROSES.

With the advent of August we most generally get very warm days... most perceptibly shorter, thus compelling us to reverse our methods of spraying...

ranced as to suggest a Dutch bulb field, excepting that the beds were laid out in half circles instead of being straight.

Cannas, etc., at Scarboro, N. Y.

At the Scarboro branch of the F. F. Pearson Company, at the present time, the rose-houses are in exceptionally fine shape, four houses of Beauty being in such condition that they would be hard to beat...

color markings than the parent, the crimson center being more solid and much more brilliant.

Admiral Avelan is head and shoulders above all others, its foliage is darker than that of Eganade; its dark orange-scarlet flowers harmonizing well therewith.

Autria, Burbank, and Italia are also good grow-ids by side. As seen here, Burbank is certainly distinct from Austria, and in very respect proves superior to it.

Speaking of the best walks for rose houses, I have been asked lately by young beginners in such walks where cement walks they should be wetted down more frequently than those with walks of ashes or such like material.

It is no credit to the machinery mentioned the great benefits derived by syringing from different directions once or twice a week, in the narrow center walk which we see in a good many houses.

The dark-leaved varieties undergo a crucial test in squares side by side. The dark-leaved varieties undergo a crucial test in squares side by side.

Where no steam plant is used, the apparatus may be conveniently arranged on the piping system used for warming the greenhouse, whether by water or steam heat.

It is no credit to the machinery mentioned the great benefits derived by syringing from different directions once or twice a week, in the narrow center walk which we see in a good many houses.

Allegany Hollyhocks. devoted to Boston fern, and Adiantum cuneatum. Several temporary houses, made of canvas, are filled with Lantana borbonica and Arca hirsuta.

It is no credit to the machinery mentioned the great benefits derived by syringing from different directions once or twice a week, in the narrow center walk which we see in a good many houses.

Other canna worthy of mention are: Beante de Pottville, Fern, Souv. d'Antoin Crozy, F. K. Merson, Trilby and Franz Buchner, the latter being unique in color—almost salmon with a slight gold band, having a clean tress, of large size.

It is no credit to the machinery mentioned the great benefits derived by syringing from different directions once or twice a week, in the narrow center walk which we see in a good many houses.

The 15 acres of nursery stock are also in superb condition, and embrace what is most valued in the tree and shrub line.

Cannas are always a feature at this establishment, and this season, as much so as ever. The acreage is not so large as in some previous years, but the interest is being as great as ever, so that comparisons are easy, and an excellent object lesson is presented to the visitor.

The headquarters of the firm is at Fairport, and here the 10 greenhouses are replete with valuable commercial stock. One house of Pandanus Yeddoicus claims especial notice, owing to the exquisite color and general good condition of the plants.

The following notes on new and other cannas are made after a recent visit. President Cleveland.—This canna is cardinal-red, slightly darker than that of Colombia; in foliage, habit, and flower can it very much resemble that variety, but is more floriferous, growing, perhaps, six inches taller, with apparently a much better constitution, and, generally speaking, a better grower.

Miniature Field of Darwin Tulips Referring to some recent reports in your paper on the Hamburg International Horticultural Exhibition, it may be said that the illustrations which you refer to see a picture of one of the great successes of this show, viz., our Darwin tulips, which were first planted and shown "not for competition" at the head entrance of the show.

Following notes on new and other cannas are made after a recent visit. President Cleveland.—This canna is cardinal-red, slightly darker than that of Colombia; in foliage, habit, and flower can it very much resemble that variety, but is more floriferous, growing, perhaps, six inches taller, with apparently a much better constitution, and, generally speaking, a better grower.

Altogether this is a grand canna, and President Cleveland.—This is a seedling from Queen Charlie, which it undoubtedly surpasses, in size of habit and in the coloring qualities render it very desirable. The flower is bolder in its

color markings than the parent, the crimson center being more solid and much more brilliant.

Allegany Hollyhocks. devoted to Boston fern, and Adiantum cuneatum. Several temporary houses, made of canvas, are filled with Lantana borbonica and Arca hirsuta.

Other canna worthy of mention are: Beante de Pottville, Fern, Souv. d'Antoin Crozy, F. K. Merson, Trilby and Franz Buchner, the latter being unique in color—almost salmon with a slight gold band, having a clean tress, of large size.

OPEN TO ALL... FREE TO ALL... ANSWERS SOLICITED FROM THOSE WHO KNOW.

(123) Tempering Water.—I would like to learn a plan to take the chill off water used for spraying and watering plants.

(124) Wood Ashes for Carnations. W. T. Mix a portion of the wood ashes with the soil at once, about one-half or two-thirds of an inch, and mix sufficient soil to make that amount deep.

(125) Heating by Coil B-her.—I would like to ask through the EXCHANGE how to heat a greenhouse by coil pipes and the best shape, to heat three houses running north and south, fairly properly, at a reasonable cost.

(126) Heating by Coil B-her.—I would like to ask through the EXCHANGE how to heat a greenhouse by coil pipes and the best shape, to heat three houses running north and south, fairly properly, at a reasonable cost.

(127) Cheap Liquid Shading Material for Greenhouses.—J. J. G. We know of no cheaper liquid material than this paper, viz., white lead and sphalerite.

Allegany Hollyhocks.

Our illustration is reproduced from a photograph kindly sent us by Messrs. J. and W. Storer, of Fairport, Allegany, Pa. The flowers of this new type of hollyhocks are very different from the old type, and are much more numerous and in the manner in which they are disposed on the stem.



resolutions; several members of the trade...

Secretary of the National Florists Association...

Mr. W. R. Smith, Washington, D. C., and Benjamin Hammond, Philadelphia...

Follow good advice and advertise heavily only when you have something to offer...

Philadelphia.

From present indications there will be from 55 to 60 in the delegation from this city...

Market Notes.

There is nothing new to report in this line...

Outdoor grown stock is selling very slow...

New Seed etc.

H. Water is now completing arrangements to open up a seed store in the Fall...

New Items. John Gardner & Co. have now almost closed...

John Dick, Jr., is the latest addition to the cycle craze...

Mr. Mike has returned from Italy, after an absence of three months...

Joseph Henock has his extensive establishment in splendid condition...

David Reek.

Springfield (Mass.) Sweet Pea Show.

Despite the very unpropitious weather which has prevailed for some time back...

The Eckford Challenge Cup was won by Mr. Hartzell...

Queen Victoria was perhaps adorned more than any other variety...

The male exhibitor's collection, "Triumph" was probably the most attractive...

Mr. Hartzell staged 55 named sorts, very fine selection...

Lottie Eckford, "Briming Bride" variety that looked like a great deal...

A very gratifying fact was the interest shown in the exhibition by the ladies...

The following was the result of the exhibition for the 12 named sorts...

After convention adjourns all will be anxious to read what took place...

First, second; Purple Rose Strife, third. Cornet did not show up...

Best stems with large blossoms. Royal Rose a mixed lot and Bonafleur...

Cleveland.

No particular change in business can be noted since the last writing...

Stock is plentiful and considerable improvement is shown in general...

Now retailing at 35c. to \$1 per dozen. Roses are also improving...

Index to Advertisers.

- Aquatic Supplies, Kean's, Asters, Auction Sales, Begonias, Bulb and Root, Business Cards, Cannas, Carnations, etc.

- Dahlias, Florists, Nursery Stock, etc. Lists of names and addresses.



**VALVES and FITTINGS**  
For Pipe and Tubing.  
**VENTILATING APPARATUS.**

**COLDWELL-WILCOX CO.,**  
Newburgh, N. Y.  
SEND FOR CATALOGUE.  
Mention paper.

**SUMMER IN WINTER**  
By Using  
**Standard Greenhouse Boilers**  
One cent gets our Catalogue.

**GIBLIN & CO.,** = Utica, N. Y.  
When Writing Mention Florists' Exchange

**Evans' Improved Challenge.**

Roller bearing, self-rolling device automatic action, self-ink, chain makes the **LEAD** **DRY** **CHALK** **DRY** **BLACK** **DRY** **INK** **DRY** **IN** **THE** **PERFECT** **WHITE** **ON** **ANY** **SURFACE** **WITHOUT** **PLACING** **YOUR** **ORDERS** **ELSE** **WHERE.**

**Quaker City Machine Co.,**  
RICHMOND, IND.

When Writing Mention Florists' Exchange

**Chadborn's Automatic Ventilator**  
**CHADBORN, KENNEDY & CO.,**  
NEWBURGH, N. Y.

When Writing Mention Florists' Exchange

**CYPRESS GREENHOUSE MATERIAL**

**JOHN C. MONINGER CO.,**  
412 to 422 WATNORNE AV. CHICAGO, ILL.

SEND FOR CATALOGUE.  
When Writing Mention Florists' Exchange

**IF YOU WANT A GOOD SASH LIFT**  
For a Very Little Money Get

**THE NEW DEPARTURE VENTILATING APPLIANCE**

For Descriptive Catalogue Send to  
**J. D. CARMODY,** Evansville, Ind.  
When Writing Mention Florists' Exchange

**DO NOT BE HUMBUGGED**  
In the Choice of  
**GREY'S SILKLINE**

Obtain no more cord and down case than anything else on the market. The original and only silk line made exclusively by **J. D. B. & CO.,** 20 N. W. Corner of 1st & 2nd Sts., New York, N. Y.  
When Writing Mention Florists' Exchange

**St. Louis.**  
Market Remains Unchanged.  
There has been little, if any, change in condition of the market since last writing. Carnations, if anything, have grown a little nearer, while roses are more plentiful. African tulanees are becoming to come in and sell very readily. This is a beautiful single white on long stalks and quite scarce, at \$1.00. *Gladioli* are also selling readily. The majority of *Hydrangeas* are becoming to come in and sell very readily. A few extra choice selected stock are sold as high as \$2.00 and \$3.00. *Hydrangeas* to grandiflora crosses are selling readily at from \$2 to \$7 per 100. *Harris* white peonies are ready market at from \$50c. to \$1 per 100.

One kind of one from St. Louis who expects to be in Providence at the convention. M. H.

**Chicago.**  
**State of Trade and Weather.**  
So far as the weather is concerned no complaint can be made; the week has been simply perfect.

Roses continue to improve under present conditions, and may be considered fair in quality for summer growth, although beauty are not yet a very conspicuous factor. A large quantity is, however, being grown this year, more than ever before, Bassett & Washburn selling 1000 at \$4.00. Price for best is \$15 per 100. Ten roses, except *Kaiserin*, are still short stemmed, but improving weekly. Price for first quality is \$2 to \$3. Some *Arnott* are showing up, but they also are short in stem. Growers, so far, seem favorably impressed with this rose.

Carnations are poor, white being scarce; the best varieties of color are L. Gilbert, Portia, and Scott; 50c. to 75c. is the prevailing figure for best single and double kinds; 25c. to 30c. *Gladioli* are plentiful, very fine flowers are common. All do not get sold and \$2 to \$3 is the asking price.

Amarium bills are abundant and good, selling at 75c. to \$1 per dozen.  
Asters are not prime stock; it looks as though some of the green lay poor and would hardly be the plants attention enough. Price for aster is 25c. to \$1.50 per 100.  
Snailus scarce, the selling price being \$8 to \$10.

**Convention Items.**  
The Chicago Florists' Club has made arrangements with the Pennsylvania Railroad for transportation to Providence. The train leaves Union Station, Chicago, at 10:30 a. m., Sunday, August 15, arriving at New York 2:40 p. m., Monday. At New York the party will take the Providence boat, leaving at 5:30 a. m. of same day, and reaching Providence at 6 a. m., Tuesday morning. The fare from Chicago to Providence will be \$25 going, \$7.67 returning. Total of \$30.67 for the round trip. A certificate must be secured when purchasing the ticket and this must be obtained at Providence, by the secretary of the society, to entitle the holder to the special fare returning.

**Around Town.**  
Julius Schindler, 191 Blue Island avenue, died the past week, aged 32. His father was one of the early florists of this city. Deceased leaves a widow and two children.

The commissioners of Lincoln Park have advertised and are to let the park and the laying out of a 24-acre park at Chicago avenue, from lands made from accretions from the lake.  
The new walk houses at Washington Park are now glazed, the glass being ribbed inside, and the outer surface ground. Mr. Knuts believes there is now no fear of burning, nor need of whitewashing and wet abundance of ground.  
Mr. Knuts believes there is now no fear of burning, nor need of whitewashing and wet abundance of ground. All work is well advanced, covering a space of 127x140 feet, is also fast nearing completion.

Visitors the past week included Fred Trebet and this must be obtained at Providence, by the secretary of the society, to entitle the holder to the special fare returning.  
The new walk houses at Washington Park are now glazed, the glass being ribbed inside, and the outer surface ground. Mr. Knuts believes there is now no fear of burning, nor need of whitewashing and wet abundance of ground. All work is well advanced, covering a space of 127x140 feet, is also fast nearing completion. All work is well advanced, covering a space of 127x140 feet, is also fast nearing completion. All work is well advanced, covering a space of 127x140 feet, is also fast nearing completion.

# The Right Cypress for Greenhouse Material.

Have you heard of Cypress Greenhouse Material that has not been satisfactory? If you have it does not follow that Cypress is not the best lumber to use. There is White Cypress, Yellow Cypress and Red Cypress; there is Cypress that grows on the high lands and Cypress that grows in the swamps.

All of these different kinds are not suitable for greenhouse purposes. Do you know which kind is best and do you know that kind when you see it? If not you would better buy from those that do know and will deliver exactly what they sell. We introduced Cypress for greenhouse construction and pushed it to the front. We know all about it. For fifteen years we have made a specialty of furnishing it, and during this time we have built up a reputation that we cannot afford to jeopardize. We send out the best only.

**Lockland Lumber Co.,**  
**LOCKLAND, O.**

Write for Circulars or Estimates.

When Writing Mention Florists' Exchange

**GLASS!** FOR GREENHOUSES, CONSERVATORIES, GRAPERIES, HOTBEDS AND FLORISTS' USE GENERALLY, AT LOWEST RATES.  
**L. HARRIS & SON,**  
497 W. BROADWAY, NEW YORK, (Bet. Houston and Bowler Sts.) 90 LIBERTY ST., NEW YORK (Bet. Broadway and Church Sts.)

When Writing Mention Florists' Exchange

**GLASS!** For Greenhouses, Conservatories, Graperies, Hotbeds and all other purposes, at Lowest Rates.  
**N. COWEN'S SON, 392 & 394 West Broadway, New York,** Formerly 184 and 156 So. Fifth Avenue.

Get our Figures before buying Glass. • Estimates Freely Given  
When Writing Mention Florists' Exchange

The live Florist is now planning for next season. Are you he? If so, or not, do not overlook the assisting features that might go with use of a set of

# LONG'S FLORISTS' PHOTOGRAPHS.

INTENDED FOR USE IN TAKING ORDERS. NEW CATALOGUE FREE.  
Also a new and adaptable FLORISTS' CATALOGUE of Cut Flowers and Arrangements.

**DAN'L B. LONG, Publisher, BUFFALO, N. Y.**  
When Writing Mention Florists' Exchange

**Emul Steffens** SUCCESSOR TO N. STEFFENS AND STEFFENS BRO'  
Manufacture of  
**FLORISTS WIRE DESIGNS**  
—AND SUPPLIES—  
**335 EAST 21<sup>ST</sup> STREET, NEW YORK CITY.**

When Writing Mention Florists' Exchange

# STANDARD POTS. STANDARD FLOWER POTS

We are now ready to supply a superior quality of Pots in unlimited quantities. Catalogues and price lists furnished on application.

**A. H. HEWS & CO.,**  
NORTH CAMBRIDGE, - MASS.  
When Writing Mention Florists' Exchange

**W. H. ERNEST,**  
Station M, N. E., WASHINGTON, D. C.  
When Writing Mention Florists' Exchange

**CYPRESS**  
**IS MUCH MORE DURABLE THAN PINE.**  
**CYPRESS SASH BARS**  
UP TO 2 FEET IN LENGTH OR LONGER.  
**GREENHOUSE AND OTHER BUILDING MATERIAL.**  
Send for our Illustrated Book.  
**CYPRESS LUMBER AND ITS USES.**  
Send for our Special Greenhouse Circular.

**THE A. T. STEARNS Lumber Co.,**  
Newport, Boston, Mass.

When Writing Mention Florists' Exchange

**STANDARD FLOWER POTS.**

12 inch, per 1000, \$3 00	<b>CYLINDERS,</b>
" 10 " " " " " 2 50	With handles, and a
" 8 " " " " " 2 00	lock, per dozen, \$0 75
" 6 " " " " " 1 50	cut flowers:
" 4 " " " " " 1 00	2 50 6 inch, per dozen, \$1 00
" 3 " " " " " 75	" 4 " " " " " 75
" 2 " " " " " 50	" 3 " " " " " 50
" 1 " " " " " 25	" 2 " " " " " 25
" 1/2 " " " " " 12 50	" 1 " " " " " 12 50

**HAND MADE,**

8 inch, per 100, \$5 00	<b>HANGING VASES,</b>
" 6 " " " " " 3 50	4 inch, per dozen, \$0 75
" 4 " " " " " 2 50	" 3 " " " " " 2 00
" 3 " " " " " 2 00	" 2 " " " " " 1 50
" 2 " " " " " 1 50	" 1 " " " " " 1 00
" 1 " " " " " 1 00	" 1/2 " " " " " 75
" 1/2 " " " " " 75	10 per cent. discount
" 1/4 " " " " " 50	on all work with order.

Send or Enlist for samples and prices to  
16 W. Wacker, 1547-1549 E. 90th St. N. Y. N. Y.  
We make no charge on delivery.  
Standard pot of the best quality. Address as  
**HILFINGER BROS. POTTERY,**  
**FORT EDWARD, N. Y.**  
When Writing Mention Florists' Exchange

SITUATIONS WANTED.

Best of health... Cash with order... SITUATION WANTED... CAPABLE sewer man... SITUATION WANTED... SITUATION WANTED... PRICES, etc. flowers, palms, etc.

BUSINESS OPPORTUNITIES

FLORIST WANTS

To buy or rent a small florist establishment with good home trade...

FOR RENT

For a term of years 6 greenhouses, near New York, all well stocked...

FOR SALE

Within two miles of New York City. Excellent, fully stocked florist's place...

ESTATE, care Florists' Exchange.

LOTS FOR SALE ON L O G ISLAND.

100 Choice Building Lots, suitable for the erection of greenhouses or houses...

FOR SALE

Or To Let, two greenhouses, each 20x100 feet, and one acre of ground...

FOR SALE CHEAP.

FIVE GREENHOUSES AT RAMSEY, N. Y.

HITCHINGS & CO., 233 Mercer St., N. Y.

NEWPORT, R. I.

For sale, the property of the late Gilbert I. Ward, comprising more than 5 acres...

Cleveland.

Favorable Weather. Growing crops have suffered considerably this season by spells from drought...

Next regular meeting of the Florists' Club was held on Tuesday evening last...

Convention News. At its last convention time we find more of our members will attend the convention...

Notes. Mr. Cushman may be looked for at Providence with a good display of his popular flowers...

Individual Credits.

(Concluded from page 644)

Business Evolving Changing Credit Customs.

Evolution in business which has produced new factors in mercantile circulation...

The drift in the retail line at present seems to be in the direction of greater conservatism...

The question of competition in business is one that all departments of trade must meet...

Concession for Prompt Cash Payment.

As a rule, no incentive is offered by the retailer in the way of discount or reduction in prices...

The question as to whether or not green credit and cash prices in retail stores, is one that I feel will receive considerable attention...

Some small tradesmen do not send out bills promptly on the first of each month; consequently they have great difficulty in securing the money due...

Notes an Abuse of Credit.

In some communities the custom is in some instances to take bills on credit...

Benefit of Cash Payments.

If the larger retailer sells for cash he will be able to pay cash for his purchases and avail himself of discounts...

The advantages of the cash system, however, are not all with the merchant. He shares them with the consumer...

It is to be said, however, in favor of the cash system, that the merchant is likely to become more or less attached to the store where he has an account...

This system also saves the merchant the time and annoyance to the customer in waiting for change...

The merchant who gives credit may do a very extensive business and appear to be in good times, but he will doubtless succeed in handling his business...

Credit should be Restricted.

Judicious credits are of incalculable value in retail lines they should be carefully restricted...

It is difficult for those who live in large cities where people are paid for their labor weekly, semi-monthly or monthly...

He desires, say, to sow it with wheat, which, perhaps, he may have to purchase. While he is preparing for the crop it is necessary for him to have a large amount of money...

Department Store Practices.

There is a great hue and cry being raised throughout the country against the intense competition which they offer. Some people are in favor of them...





Hammond's Paint and Slug Shot Works.

PAINTS, GLASS, PUTTIES, OILS, ETC. ECONOMIC INSECTICIDES and FUNGICIDES, AGRICULTURAL CHEMICALS and BONE.

B. HAMMOND, FISHKILL on HUDSON, N. Y. When Writing Mention Florists' Exchange

EVERY FLORIST OUGHT TO INSURE HIS GLASS AGAINST 'HALL'S' For particulars address JOHN G. ESLER, Sec'y, Saddle River, N. J. When Writing Mention Florists' Exchange

MANURE. Fresh and well rotted horse manure. Manure for fertilizer for garden and pot plants. Special facilities for shippers by P.M., R. F. & H. B. & Co. and Wm. A. Herberly, Union 300 1215 Filbert Street, Philadelphia, Pa. When Writing Mention Florists' Exchange

GALVANIZED WIRE PLANT STAKES From \$5.00 per 1000 upwards. RUBBER HOSE from 6 cents per foot. H. F. LITTLEFIELD, WORCESTER, MASS. When Writing Mention Florists' Exchange



NO ADULTERATION BONE FLUA NO ACID References: Fred. Dornig & Sons Co., La Fayette, Ind.; John H. Taylor, E. G. Hill & Co., L. L. May & Co., Chicago, Ill.; St. Paul, Minn. GEO. S. BARTLETT, 1265-1267 WEST 6TH ST., CINCINNATI, O. CINCINNATI DESICCATING CO. When Writing Mention Florists' Exchange

Standard Flower Pots. Send for our New Price List with extra discounts. All our pots, from 7 in. and upwards, have a Patent Escalator Bottom, which is a great advantage, as it insures perfect drainage. A FULL LINE OF BILB'S PATENT THE WHILDIN POTTERY CO., 713 TO 1719 Wharfton Street, PHILADELPHIA BRANCH HOUSES: 1 Kearney and Westside Aves. Jersey City, N. J. 7 Jackson Ave. and Pearson St. Long Island City, N. Y. When Writing Mention Florists' Exchange

A GOOD HOSE IS A GOOD INVESTMENT The best is the cheapest. To ascertain what a hose is worth, divide the cost per foot by the number of years it will last. We are in the market to complete in number of years with anything that is manufactured. Price lists. per foot for 1/4 inch; 10 cts. per foot for 3/4 inch and 20 cts. per foot for 1 inch hose. \*Best hose I have bought in twelve years.\*—N. STRIDER. \*His bro.\*—E. G. HILL. Address J. G. & A. ESLER, Saddle River, N. J. When Writing Mention Florists' Exchange

FLOWER POTS We are manufacturing a Full Line of STANDARD FLOWER POTS and HANGING BASKETS OF THE BEST QUALITY. Shipping Facilities First-Class, thereby Securing Lowest Freight Rates. Our goods are well packed, and breakage is nominal. Give us a trial. Send for Price List. Address THE SYRACUSE POTTERY CO., 403 N. SALINA ST., SYRACUSE, N. Y. When Writing Mention Florists' Exchange

JADOO FIBRE—Every plant grown in it thrives without earth. LIQUID—The best, safest and cheapest Fertilizer sold. THE AMERICAN JADOO CO., 811 Fairmount Avenue, PHILADELPHIA, PA. When Writing Mention Florists' Exchange

JADOO WOOD LABELS OF EVERY VARIETY. —FOR— Florists and Nurserymen. Quality Unexcelled. Samples and prices on application. BENJ. CHASE, Derry, N. H. When Writing Mention Florists' Exchange

MOSS, PEAT and GALAX LEAVES. Now is the time to lay in your Winter stock, and by quoting you prices on good stock. Dry Spangno Moss ..... 25 cts. per bhkt. 50 lbs. Green ..... 20 " Sheet Moss ..... 25 " Galax Leaves ..... \$1.00 per thousand. 25% strictly cash with order. Large orders at reduced prices. A. LUTZ & CO. 2110 Diamond St. Philadelphia. When Writing Mention Florists' Exchange

THE BEST FOR ALL Florists. ROSE LEAF EXTRACT OF TOBACCO INSECTICIDE. For Sale by Ross Stores. For Free Pamphlet, write to LOUISVILLE SPIRIT CURED TOBACCO CO. Louisville, Ky. When Writing Mention Florists' Exchange

FOR MILDEW and BLACK ROT on Roses, Fruits and Vegetables, and Carnation Root. USE FOSTITE, 1/3 per cent. 5 lb. cts. G. H. JOOSTEN, IMPORTER OF PLANTS, 193 Greenacre St., New York. When Writing Mention Florists' Exchange

THE BISSON NIKETEN DOES NOT INJURE SENSITIVE PLANTS USED FOR FUMIGATION OR SPRAYING, INDOORS OR OUT. Price \$1.50. ALL SEEDSMEN.

SHEEP MANURE Cleaned and prepared expressly for florists—use you will find it the best article. Refer to it as being first-class I refer you to Henry E. Fitch, 108 Market Street, Philadelphia, Pa. Total bag of 150 lbs.; \$2.00; per ton, 125.00. Cash on at ton rate, cash with order. HERMON ROSES will be taken in exchange. GODFREY ASCHMANN, 1012 Ontario St., PHILA., PA. When Writing Mention Florists' Exchange

SHEEP FERTILIZER PULVERIZED. COMPRESSED. A Quick Organiser and Crop Former NATURAL. CORRELATES. CLEAN TO HANDLE. JOHN J. PETERS CO., Long Island City, N. Y. When Writing Mention Florists' Exchange

DEATH TO THE INSECTS HARMLESS TO THE PLANTS. THE KENTUCKY EXTRACT CO.'S KILL IT. As an insecticide for quick destruction of the aphid enemies here recited. For sale by the trade as a sure remedy. SURE THE KENTUCKY EXTRACT CO. Columbus, O. SOLE MANUFACTURERS. Book of Directions sent Upon Application. When Writing Mention Florists' Exchange. Cleaned Out. We are cleaned out of aphids et-cetera, thanks to your paper. We intend to prepare none as long as we give you our advertisement again we will run it right through the year. FERRIS & ISNALL. Hackettstown, N. J., July 7, '97

Cincinnati. Trade Items. Business is not worth mentioning. There is a little call for white flowers for funeral work, but flowers of that color, especially roses and carnations, are very scarce. Asters are quite plentiful, also balsam, and these constitute the bulk of the supply. Among Growers. The growers are busy cleaning up and getting ready for fall business. At the Oakley rose houses, operated by George & Allen, ten houses of Beauty one house of Meteor, two houses of Brites and Bridemaid, in all 8,000 roses, are in fine shape, as also are two houses of chrysanths.

George Magrie continues the business at College Hill, and is forcing bulbs and growing a few, as well as roses and general stock. The Hoffmeister Floral Company, under the management of August Hoffmeister, has made rapid strides during the short time they have been growing cut chrysanths. Their houses of Beauty, Meteor, Bride and Bridemaid, also chrysanths—blossoms are about the best in this city. One house of the latter, consisting of Bergmann, Yellow Queen, M. M. Johnson and chrysanths of the new variety, will be in very early. A later house is in fine condition, as is also a house of Campbell violets. John Ernsterhoff & Sons, of Newport, Ky., are busy rebuilding. They are now in the building a new carnation house, 80x136 feet, for fancy kinds. Wm. Speck has one-half acre of tuberoses planted.

The News. Thieves, or a thief, broke into James Allen's residence Tuesday night and stole four suits of clothes. The well-known florist of that name, reports excellent business the past two weeks, the best he has experienced in three years.

J. Charles McCullough is able to be at his place of business again after having been laid up for five weeks from an injury caused by a spider bite on his leg. He, with his wife, children, and a party of twelve ladies, are on their way to Pittsburg on the new steamer Queen City. They will take a week to make the round trip. Mr. McCullough tells me he has done the best business of his life. He has been known for five years. Speaking of crimson clover, a great deal has been said regarding its standing our winters and whether it really would prove a success or failure in this country. He showed me a sample of the seed, and says that it averaged nine bushels per acre. If sown within the next six weeks and given chance to grow in a good firm start, crimson clover will not winter-kill, will make splendid early pasture, be a first-class fertilizer if turned under, and will give a good yield if cut for seed. It is selling now at retail for 4c per pound. The quality of the new seed is of excellent value. E. G. GILBERT.

Nashville, Tenn. One of the attractions here, in the horticultural division of the Centennial Exhibition, is the magnificent display made by the E. F. Peterson Company of Ferry-town, N. Y. On various portions of the grounds this firm exhibits 5,000 cannaes, 100,000 tuberoses, 2,000 dahlias, 500 lilies, 250 muses, besides evergreens, ornamentals, and a large collection of palms. Among a good many of Peterson's Premier, a dwarf grower, not exceeding 2 1/2 feet in height, could a rich glowing display with a very yellow border. Terry, Cabos, Queen Charlotte, Italia, Susan, Chicago, Bouvier, Souvenir d'Angleterre, Marquand, Eldorado, Florence Vaughan, and Charles Henderson. The dahlias exhibit includes Nymphs, Orange King, Golden Yellow, Dunton, Black Prince, and others. A fine collection of standard roses has been much admired, and Fremont cannot give great satisfaction out-of-doors. Dugce & Conard made a grand display of roses. Exhibits were made also by the local florists, Curry & Co., Joy & Co., and William McIntyre. The exhibition has been arranged for October 27, 28, and 29. Another stock show, which opens on Sunday, will be judged September 15. Youngstown, O. This locality was visited by a cloud-burst and very severe storm on the 23rd of July, which did many damages to field crops and trees. Many washouts are reported. G. A. G.

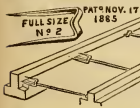
**LORD & BURNHAM CO.,**  
**HORTICULTURAL ARCHITECTS AND BUILDERS,**  
**STEAM AND HOT WATER HEATING ENGINEERS.**

Plans and Estimates furnished on application.



Largest Builders of Greenhouse Structures. Six Highest Awards at the World's Fair.

**LORD & BURNHAM CO.,**  
 ARCHITECTURAL OFFICE, 160 FIFTH AVE., COR. 21st STREET, NEW YORK.  
 Factory: Irvington-on-Hudson, New York.



**THE VAN REYPER**  
**PERFECT GLAZIERS' POINTS**  
 No rights or lefts. Prices per box of 1000, 60c. by mail, 75c.; in lots of 5000 by ex., 55c. per 1000  
**HENRY A. DREER, 714 Chestnut St., Phila., Pa.**

When Writing Mention Florists' Exchange

**CALIFORNIA RED CEDAR**  
**Never Decays.**

A. DIETSCH & CO., 619 Sheffield Avenue, CHICAGO.

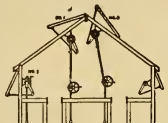
MANUFACTURERS OF RED CEDAR AND CYPRESS GREENHOUSE MATERIAL.

When Writing Mention Florists' Exchange

**STANDARD VENTILATING MACHINE.**

**EQUAL IT**  
**IN**  
**Strength**  
**AND**  
**Durability**

Send for Catalogue



**NOTHING**  
**Flimsy**  
**OR**  
**Complicated**  
**about it.**

**E. HIPPARD, YOUNGSTOWN, OHIO.**  
 When Writing Mention Florists' Exchange

**MASTICA**

FOR GLAZING GREENHOUSES. SUPERIOR TO PUTTY IN EVERY WAY.

It is hardened by the extreme heat or cold that a greenhouse is constantly subjected to both inside and out. Mastica is adhesive and remains permanently elastic so that it is not forced out of place by expansion and contraction of the woodwork. However glued with Mastica do not need re-glazing thus saving time and expense. With Mastica can "be-d-in" or use on the outside, but with a machine only.

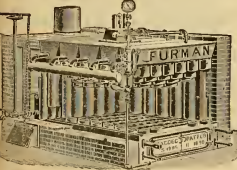
Mastica and Mastica Glazing Machine were given

**HIGHEST AWARD OF SOCIETY OF AMERICAN FLORISTS AT PITTSBURGH, 1895.**  
 Put up in gallons, \$1.00. Half gallons, 80 cts. Quarter gallons, 35 cts. Mastical Glazing Machines, \$1.00 each.

Send for full descriptive circular and testimonials. Agents in all the principal cities.

F. O. PIERCE CO., Sole Manufacturers, 170 Fulton St., New York.

When Writing Mention Florists' Exchange



**FURMAN BOILERS**

Greenhouse Heating.  
 specially adapted to  
 200 Styles and Sizes. Steam and Hot Water.

SAFE, SUBSTANTIAL, SIMPLE, ECONOMICAL.

Portable or Deck Set.

GREAT COAL SAVER.

Send for catalogue. Estimates Free.

THE HERENDEEN MFG. CO.,

Home Office: 13 Fay St., Geneva, N. Y.

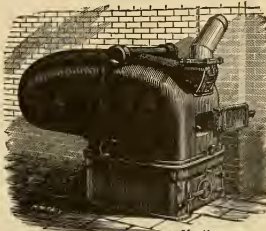
BRANCH OFFICES:

Boston, 54 Oliver St.; Philadelphia, 1015 Betz Bldg.; New York, 39 Cortlandt St.; Milwaukee, 135 2d St.

When Writing Mention Florists' Exchange

**GREENHOUSE HEATING AND VENTILATING,**

Horticultural Architecture and Building.



Mention paper

SEND 4c. POSTAGE FOR ILLUSTRATED CATALOGUE.

**Hitchings & Co**

ESTABLISHED 1844.

233 Mercer Street, NEW YORK.

FIVE PATTERNS OF BOILERS.

NINETEEN SIZES.

Perfect Sash Raising Apparatus.

Roschows, Greenhouses, Etc., of Iron Frame Construction erected complete or the Structural Iron Work shipped ready for erection.

Iron Frame Benches with the "Perfect Drainage Bench Tile" or Slate Tops.

SEND FOR OUR NEW CATALOGUE, WHICH SHOWS

**The New Automatic Cable Ventilator**

As it is put up in the house complete. We also give you prices with a guarantee that each machine sent out will operate your house successfully. Still machines now made in two sizes.

A. Q. WOLF & BRO., Dayton, Ohio.

When Writing Mention Florists' Exchange

**TRADE GREENHOUSES.**

THE BEST MADE.

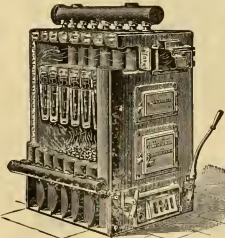
"Florists" Get Your Plans and Estimate from

**PLENTY'S HORTICULTURAL WORKS,**

148-156 Randolph Ave., JERSEY CITY, N. J.

When Writing Mention Florists' Exchange

**ATTENTION, FLORISTS!**



It will be to your advantage to look into the merits of the Scollay "Invincible" Hot Water Boiler.

It is all that its name implies, and don't forget it.

Cuts and full information mailed on application.

**JOHN A. SCOLLAY,**

74 & 76 MYRTLE AVE.,

**BROOKLYN, NEW YORK.**

When Writing Mention Florists' Exchange

**DON'T SYRINGE WITH COLD WATER**

and lower the vitality of your stock to such an extent as will invite disease and decrease materially the size, color and quantity of your bloom; but write for particulars of attachment which will

**TEMPER THE SYRINGING WATER,**

and is adaptable to all conditions, to

**HENRY W. GIBBONS,**

Heating Engineer and Greenhouse Architect,

136 LIBERTY STREET, - - NEW YORK.

**EXPERT ADVICE**

on all matters pertaining to the Design, Construction and Equipment of Greenhouses. Greenhouse plans prepared. Heating and Ventilating Apparatus and Building Materials furnished.

When Writing Mention Florists' Exchange



COLLECTIONS

WRITE

CORNELIUS S. DR.

Secretary National Florists' Board of Trade, 271 BROADWAY, N. Y.

REPORTS

CREDITS

When Writing Mention Florists' Exchange

Wholesale Florists... N. F. White... FLORISTS' SUPPLIES... 84 HAWLEY STREET, BOSTON.

Buffalo Cut Flower Exchange... 481 Washington St., BUFFALO, N. Y.

New Rochelle, N. Y.

The greenhouse plant of Messrs. Siebrecht & Son is fast assuming gigantic proportions... Ficus elastica. These have come through the recent rains and had weather in good shape...

GEO. A. SUTHERLAND... 67 Bromfield St., Boston, Mass.

E. G. HILL & CO., Wholesale Florists, RICHMOND, INDIANA.

New Greenhouses.

T. J. Reid, horticultural builder, New Rochelle, N. Y., recently completed a range of commercial houses...

Toronto.

Business is still very slow, and there are but few good roots or carnations offered...

City Hall Cut Flower Market... WELCH BROS., Props.

FOR FINEST... Galax Leaves and Leucothoe Sprays.

Regular Consignors Given Space Free of Charge... SEND FOR PRICE LIST...

ALWAYS WRITE THE INTRODUCERS, Highlands Nursery, Kawana, N. C.

HEADQUARTERS... WM. F. KASTING, Wholesale Commission Florist.

Galax Leaves. CHAS. H. RICKSECKER, Linville, N. C.

H. L. SUNDERBRUCH CO., Wholesale Commission Florists, 4th and Walnut Streets, CINCINNATI, OHIO.

Providence. All Ready for the Convention. Everything is in convention, and no one is thinking of business excepting what is absolutely necessary for funeral orders...

St. Louis Cut Flower Co. WHOLESALE FLORISTS, 1620 Olive St., ST. LOUIS, MO.

St. Louis. Emma Neek is building a new greenhouse 40x13 1/2 ft. at 70 Sackett street. A new greenhouse, 29x33 1/2 ft. is erected at the Dexter Asylum... Mr. Ross of Edwards & Ducker, box manufacturers of Philadelphia, was in town Monday.

COMPLETE LINE OF SUPPLIES... WIRE WORK... ALWAYS ON HAND... ELIJAH & POLLYWORTH MILWAUKEE WIS.

Batavia, N. Y. Paul Liebsch is improving the W. Main street greenhouse. Work has been commenced on a new building 82x23 1/2 ft. in size, and an addition is being built to raise vegetables in the winter.

The regular monthly meeting of the Horticultural Society was held on the 3d inst. The evening was very hot, but for the sake of the root and carnations... The subject for discussion was 'Sweet Peas' and there was a good showing of them on the table...

Fishkill-on-Hudson, N. Y. Hammond of Fishkill Landing, N. Y., the maker of slug shot, grape dust, etc., is re-arranging the interior of his considerable establishment by taking out his old engine and putting in a new 40-horse power; concentrating his gridding plant, putting in a new plan for making concrete extract, replacing in solid concrete his former extensive scale in the work; in addition to insecticides, etc., which form about one-quarter of his annual business...

Haddonfield, N. J. C. W. Turney is building a substantial greenhouse, three-hundred square, 20x80, brick walls, latest improvements, iron supports for roof and benches, patent ventilator, frame-made roll holder of two-inch pipe, with slaking grate, hot water under pressure... Eggersville, N. Y. A hail-storm swept across this section July 29, doing considerable damage...

Scattered about, in order to get light, is a nice stock of Pandanus Vetchii. Outside, putting up and framing the frames, is a superb stock of about 8000

When Writing Mention Florists' Exchange

LARGEST AND BEST STOCK OF  
PREPARED CYCAS LEAVES

TO BE FOUND ANYWHERE

Metal Floral Designs, Sheaves, Doves, Baskets, Moss Wreaths, Wheat, Milkweeds,  
Cape Flowers, Wire Work, and all Florists' Supplies.

Write for catalogue. Free to the trade.

A. HERRMANN, 404-412 East 34th Street (Near Ferry), New York,  
Manufacturer of METAL FLORAL DESIGNS, Importer and Dealer in FLORISTS' SUPPLIES.

When Writing Mention Florists' Exchange

DRACÆNA SANDERIANA Fine plants from 9 to 24.00 per doz.  
SMILAX Strong bushy plants, 3/4 inch pots, \$2.00 per 100.  
FICUS ELASTICA In excellent condition. 6 in. pots, \$1.00 per doz.  
CLEMATIS Large flowering varieties. Orders booked now for Fall delivery. Price List on application.

C. EISELE, 17th and Jefferson Streets, Philadelphia, Pa.  
When Writing Mention Florists' Exchange

**..DREER'S INVITATION..**

TO THE DELEGATES OF THE

**SOCIETY OF AMERICAN FLORISTS**

Florists visiting the Convention to be held in Providence,  
August 17, 18, 19 and 20, 1897, will find our

**...Exhibition of Decorative Plants...**

such as Palms, Ferns, Araucarias, &c., to be the most complete and comprehensive display of the kinds and sizes we grow in quantity. Our representatives, Messrs. Walter Mott and John A. Ruppert, will be in attendance and pleased to show stocks, furnish prices, and give any information desired. Delegates passing through Philadelphia or New York en route to Providence will find it to their advantage and interest to call at our Nursery in Riverton, New Jersey, and personally inspect stocks that are admitted to be the best in the country. We have six acres under glass devoted to these plants, and we can give you an object lesson to prove home-grown plants sold at moderate rates are what the people want. Time cards and information how to stop over cheerfully mailed.

HENRY A. DREER, 714 Chestnut Street, PHILADELPHIA, PA.

**KLONDIKE,  
YUKON RIVER.**

You don't have to go there to get gold. Buy your Florists' Supplies from H. Bayersdorfer & Co., and the returns from sales will bring you lots of gold.

Look out for our exhibit at the S. A. F. Convention. We are the only "Florists' Supply House" that has had a display at every convention since the S. A. F. has been in existence.

Baskets of Every Description, Metallic Designs, Wheat Sheaves, Cycas Leaves, Cape Flowers, Moss Wreaths,

AND OTHER STANDARD GOODS WHICH THE UP-TO-DATE FLORIST CANNOT BE WITHOUT.

Our display will also contain many novelties of recent importation, selected in Europe by Mr. H. Bayersdorfer.

Mr. Paul Berkowitz and the genial representative of the firm, Martin Renkauf, will be on hand to give you polite attention, it will give them pleasure to wait on you and show you the goods.

**H. BAYERSDORFER & CO.**

56 N. 4th Street, Philadelphia.

When Writing Mention Florists' Exchange

**KLONDYKE GOLD MINES ...ARE...  
YOURS**

And you need not go to Alaska to dig for it. We can give you pointers as to how to get Gold, with no effort on your part. The hard work has been ours, and we will cheerfully give you the entire benefit of it. For the past three months, our Buyer has been hunting the Foreign Markets in search of Novelties for you, and by hard work and great expense we have secured the Latest Novelties the markets afford, and at Prices that cannot fail to interest you. Before placing your orders, call and inspect our stock of Latest Novelties and compare prices. We feel sure the Gold is yours if you take advantage of this opportunity to see the Latest Novelties in

BASKETS, METAL DESIGNS, OUR FAMOUS WHEAT SHEAVES  
CYCAS LEAVES, IMPORTELLES, CAPE FLOWERS, DOVES, POT COVERS,  
ARTIFICIAL FLOWERS AND LEAVES, ENAMEL AND IRON PLANT STANDS,  
WAX FLOWERS, DRIED GRASSES, ETC., ETC.

Made only of  
Finest Italian Wheat.

WE MOST CORDIALLY INVITE INSPECTION AND COMPARISON. SEND FOR PRICE LIST.

Yours truly,

M. RICE & CO., 25 N. 4th Street, PHILADELPHIA, PA.

When Writing Mention Florists' Exchange

# FLORIST EXCHANGE

We are a straight shoot and aim to grow into a vigorous plant.

A WEEKLY MEDIUM OF INTERCHANGE FOR FLORISTS, NURSERYMEN, SEEDSMEN AND THE TRADE IN GENERAL.

VOL. IX. No. 34.

NEW YORK, AUGUST 21, 1897.

One Dollar Per Year

## DECORATIVE PLANTS

<b>ARECA BAUERII.</b>		
8 inch pots, 8-8 inches high.....	\$2.00 per doz.	\$15.00 per 100
4 inch pots, 12-15 inches high.....	\$3.00 per doz.	\$25.00 per 100
5 inch pots, 20-24 inches high.....	\$6.00 per doz.	\$50.00 per 100
<b>COCOS WEDDELIANA.</b>		
8 inch pots.....	\$3.00 per doz.	\$25.00 per 100
4 inch pots, single stem.....	\$5.00 per doz.	\$40.00 per 100
<b>KENTIA BELMOREANA.</b>		
2 inch pots.....	\$12.00 per doz.	\$100.00 per 100
3 inch pots, 8-12 inches high, 4 to 5 leaves.....	\$3.50 per doz.	\$35.00 per 100
4 inch pots, 12-15 inches high, 4 to 6 leaves.....	\$5.50 per doz.	\$55.00 per 100
5 inch pots, 18-20 inches high, 6 to 7 leaves, stocky.....	\$9.00 per doz.	\$75.00 per 100
Large specimen plants, prices on application.		
<b>KENTIA FORSTERIANA.</b>		
2 inch pots.....	\$10.00 per doz.	\$100.00 per 100
3 inch pots, 12-15 inches high.....	\$15.00 per doz.	\$150.00 per 100
4 inch pots, 15-18 inches high.....	\$4.50 per doz.	\$45.00 per 100
<b>LATANIA BORBONICA.</b>		
3 inch pots.....	\$10.00 per doz.	\$100.00 per 100
4 inch pots, 12-15 inches high.....	\$5.00 per doz.	\$50.00 per 100
6 inch pots, 18-20 inches high, stocky.....	\$7.50 per doz.	\$75.00 per 100
<b>PHOENIX RECLINATA.</b>		
4 inch pots, 12-15 inches high.....	\$3.00 per doz.	\$35.00 per 100
5 inch pots, 15-18 inches high.....	\$5.00 per doz.	\$50.00 per 100
ARECA LUTESCENS. 5 inch pots, 20-24 inches high, 3 plants in a pot, \$6.00 per doz.; \$50.00 per 100.		
GEONOMA GRACILIS. 2 inch pots.....\$15.00 per 100		
LIVISTONA HOOGENDORPHII. 4 inch pots, 12-15 inches high, 7 leaves, \$4.50 per doz.; \$45.00 per 100.		
LIVISTONA ROTUNDFOLIA. 5 inch pots, 12-15 inches high, 7 to 8 leaves, \$7.50 per doz.; \$75.00 per 100.		
ADIANTUM CUNEATUM. 3 inch pots.....\$7.00 per 100; \$65.00 per 1000		
ASPIDUM TENSIENSE. 3 inch pots.....\$8.00 per 100; \$75.00 per 1000		
ASSORTED FERNS. 2 inch pots.....\$4.00 per 100; \$35.00 per 1000		

## ROSE HILL NURSERIES

*NO DUTY*

No Advance in Prices if Orders are Sent at Once.

### HOME-GROWN STOCK.

**TWO GRAND OFFERS FOR TWO WEEKS:**

FERNS, 2 1/2 inch pots, 5 varieties, \$3.00 a 100; \$25 a 1000  
 COCOS WEDDELIANA . . . . . 2 1/2 inch, strong, \$10 a 100

**SPECIALTIES:**

Palms, Pandanus Veitchii, Dracaenas, Ficus Elastica, &c., &c., &c.

Write, telephone or telegraph us, and our carriage will meet you.

## SIEBRECHT & SON,

NEW YORK OFFICE: 409 5th Ave.      NEW ROCHELLE, N. Y.  
 When Writing Mention Florists' Exchange

When Writing Mention Florists' Exchange

## We invite Florists to visit Our Nurseries

Our Cannas are in full bloom at this time. We are making very extensive tests of all the

### NEWEST AND FINEST CANNAS IN CULTIVATION,

and an inspection of the recent novelties and a large number of new sorts which we are testing with a view to future introduction cannot fail to be of interest. We would call particular attention to a new *Canna* which we expect to introduce next year. This *Canna* can be seen on our catalogue of *Sp. Regularis Macrae*, at Pr. Orange, to whom we have sent plants for trial. We think that this will prove to be the finest dwarf red *Canna* that has been sent out up to this date. We are testing it extensively this summer so as to be certain in regard to its value before offering it, and from what we have seen of it this season, we shall be very much disappointed if it does not prove to be the finest variety for bedding that has ever been sent out.

We should be pleased to show visitors through our extensive range of Rose Houses. It is late for

### WINTER-FLOWERING ROSES.

But we still have a good stock of fine plants for buyers who are obliged to plant late.

We should like to call particular attention to our large stock of

### PLANTS AND OTHER DECORATIVE PLANTS,

and should be pleased to have our friends examine our stock before purchasing their Fall and Winter supplies. As we are crowded for room, we will make quite a considerable concession in the matter of prices where orders are placed early and shipped before we are obliged to put our plants in permanent winter quarters the same in labor, re-handling, etc. enabling us to make quite a difference in price where plants are shipped before cold weather. There is also an additional advantage to purchasers in having plants shipped early, because they not only can buy cheaper, but the plants can be shipped by freight with perfect safety and at a large saving in expense. Where parties have room to handle the stock, they will find it very much to their advantage to have goods shipped early.

### WE HAVE A LOT OF BARGAINS TO OFFER!

We have particularly the stock of the following leaders in the very best possible shape, viz: Large *Arecas* Lutescens, *Pandanus Veitchii*, *Ficus*, *Latanias*, *Nephrolepis Exaltata*, *Bostonides* and *Davallodes*, *Furcans*, *Araucaria*, *la Ecchia*, *Glans*, and *Meriania*, *Compaeta*, *Kenilots*, *Coccos Weddeliana*, *Adiantum*, *Plumosa*, *Variegata*, *Adiantum Cuneatum*, *Small Ferns* for Farm Plants, &c. We receive very largely Dutch, French, Japan, Bermuda, and all other BULBS FOR WINTER FORCING AND SPRING FLORICULTURE.

## CARNATIONS,

### FIELD-GROWN PLANTS.

WILLIAM SCOTT.....	\$6.00 per 100;	\$50.00 per 1000
ALASKA.....	6.00 "	50.00 "
McGOWAN.....	6.00 "	50.00 "
PORTIA.....	6.00 "	50.00 "
DAYBREAK.....	7.00 "	
C. A. DANA.....	12.00 "	

### BOSTON FERN.

Fine 2 1/2 inch stock.....\$5.00 per 100; \$40.00 per 1000

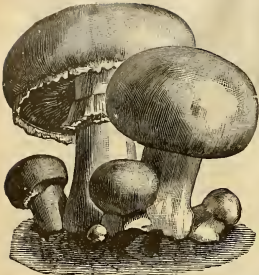
## THE COTTAGE GARDENS,

QUEENS, LONG ISLAND, N. Y.

When Writing Mention Florists' Exchange

Theraport is on the New York Central and Hudson River Railroad, in New York City. Central Station, New York.  
 Nurseries are five minutes walk from Station. Thirty times a day daily.  
 F. R. PIERSON CO.,  
 TARRYTOWN-OW-HOUSDON, NEW YORK.

When Writing Mention Florists' Exchange



## Mushroom Spawn

Fresh stock just arrived. Our **Special MITTBACK** brand is the **Best Spawn** that can be produced.

Par hundred lbs., \$8.00.

Correspondence solicited from buyers of large quantities.

**Gane Stakes,** 6 to 8 feet, \$7.00 per 1000.  
**Raffia,** 14 cts. per lb; bale 10cts, 12 cts. per lb.

**Clay's Fertilizer,** 50 lb. bag, \$3.50; 11 lb. bag, \$5.25.

**BULBS**—Our stock is now arriving. Lily Hyacinth, Freesias, Callias, Roman Hyacinths, etc. Tending now.

WRITE FOR PRICES.

WM. ELLIOTT & SONS, New York.

When Writing Mention Florists' Exchange

**ROMAN HYACINTHS,** Beat \$18 per 1000, exclusive duty.  
**NARCISSUS PAPER WHITE GRANDIFLORA,** Extra, \$7.50 per 1000, exclusive duty.  
**FREESIA REFRACTA ALBA,** Extra fine, \$5.00 per 1000, exclusive duty.

SPECIAL OFFERS ON ALL BULBS IN SMALL AND LARGE QUANTITIES.

**F. W. O. SCHMITZ,** Jersey City, N. J.

When Writing Mention Florists' Exchange

## Send Order Quick. Fresh PALM SEEDS—Extra Fine. . .

**KENTIA** Belmoreana or Forsteriana, delivery included, . . . per 1000, \$6.50.

Fresh **Corypha australis** or Seafortia elegans, delivery included, per 1000 \$7.75

37 SAMPLES FURNISHED ON APPLICATION.

Send for our NEW PRICE LISTS of all Japan Bulbs, Seeds and Plants. Also lists of Dutch Bulbs, Romans, Valleys, etc.

LET US FIGURE ON YOUR WANTS.

Address, **H. H. BERGER & CO., 220 Broadway, New York.**  
 Branch Office, San Francisco, Cal. (Established 1878).

When Writing Mention Florists' Exchange

## LILIUM HARRISII BULBS.

... AND ...  
 LONGIFLORUM BULBS.

Have you been disappointed in quality, supply or in any other way? If so, we can certainly satisfy you in

## Quantity, Quality and Price.

Being the largest individual receivers of these goods this year, and acting as agents for the **Bermuda Bulb Growers** in the U. S., we are better able to serve either **Florist** or **Dealer** more satisfactorily than any other source of supply.

Also Freesias, Calla Lilies, Buttercups, Oxalis, and all other **Bulbous Stock.**

## CLUCAS & BODDINGTON CO.

Importers, Exporters and Growers Agents,

et of phone C-11 403 18th St. 501 and 503 W. 13th St., N. Y. CITY.

When Writing Mention Florists' Exchange

## AMERICAN BULB COMPANY

SPECIAL OFFER: Importers and Jobbers,  
**ELLIOTT'S TRUE "Little" BULBS, PLANTS AND SEEDS.**  
**Gen'l Calla. DRY BULBS.** Write for copy of NEW FALL BULB LIST,  
 Package of 25 bulbs, post- DUTY PAID, now being mailed.

For \$1.25. When Writing Mention Florists' Exchange  
**SHORT HILLS, N. J.**

Seed, \$1.25 per 1/4 ounce.  
 Plants, \$5.00 per 1000;  
 75c. per 100; 2500 c.  
 for \$10.00.

## HERR'S PANSIES

ARE THE BEST.

**ALBERT M. HERR,**  
 LANCASTER, PA.

When Writing Mention Florists' Exchange

BEST QUALITIES, LOWEST PRICES, LARGEST STOCKS.

## SEEDS

Over 25 YEARS Personal Experience in Ohio, and in all other States.

**J. CHAS. McCULLOUGH,** NORTH-EAST CORNER  
**SEEDSMAN, GROWER, IMPORTER AND EXPORTER. CINCINNATI, OHIO.**  
 SECOND & WALNUT STS.

When Writing Mention Florists' Exchange

## SEEDS

KENTUCKY BLUE GRASS (POA PRATENSIS).  
 CHAS. E. PRUNTY,  
 MAIN MARKET, SAINT LOUIS.  
 When Writing Mention Florists' Exchange

## MOSS, GALAX LEAVES AND BULBS

If you are in want of any of the following goods, we will guarantee you good prices and fine quality. Our specialties are:

**MOSS, PEAT, GALAX LEAVES, BULBS, WIRE FRAMES, Etc.** Write for prices.

**A. LUSBY & CO. 2112 Delaware Phila., Pa.**  
 When Writing Mention Florists' Exchange

## -BULBS-

**GHAS. H. ALLEN, Floral Park, N. Y.**  
 When Writing Mention Florists' Exchange

## W. & D'S. CRISP MUSHROOM SPAWN

Special quotations to large buyers.

**ALL KINDS OF BULBS,** Lilium Harrisii, Freesias, Roman Hyacinths, Narcissus, etc., etc.

See also prices on application.

**WEEBER & DON,** Seed Merchants and Growers.  
 114 Chambers St., NEW YORK CITY.

When Writing Mention Florists' Exchange

## BURPEE'S SEEDS

WHOLESALE PRICE LIST FOR FLORISTS AND MARKET GARDENERS

When Writing Mention Florists' Exchange

## Palm Seeds...

From the celebrated nurseries of D. HAY & SON, Auckland, New Zealand.

**AREA BAEHRI** Immediate delivery.  
**KENTIA BELMOREANA,** September delivery.

E. H. PATERSON, Sole Agt. for U. S. A.  
 204 First Street, New YORK CITY.  
 When Writing Mention Florists' Exchange

## FOREST SEED.

600 lbs. White Pine Seed for sale also 4 1/2 cts.  
 Ash, Red Oak Acorns, etc. Please send in orders or come for collecting.

**SPECIAL BARGAINS IN PLANTS.** White and Norway Spruce, 18 to 24 in. (stocky plant), \$10.00 per 100. Double English Butternut, \$2.00 per 100. Double White Red and Pink "romans", strong cuttings, \$2.00 per 100. Blue Fraxinus 3 in. pots, 100 per 100. Helianthus strong cuttings, \$2.00 per 100.  
**GEO. L. HARVEY & Co.,** Seed, Minn.  
 When Writing Mention Florists' Exchange

## BUY FROM THE GROWERS DIRECT

ALL BULBS AND PLANTS

For Summer and Fall Delivery, Quoted at Very Low Rates.

FREE ON BOARD CARS OR BOATS NEW YORK CITY.

**HULSEBOSCH BROS.,** Englewood, N. J.  
 When Writing Mention Florists' Exchange

**Elliott's Little Gem**

## DWARF CALLA.

New plant with buds that will make excellent plants for spring sales, \$10 per 1000; \$100 per 1000 by mail, post paid.  
 Pandanus Calla, strong plants from 2 1/2 in. pots, \$5.00 per 100.  
 Red Begonia, 12 varieties, each 2 in. pots, well grown, \$3.00 per 100.  
 Aritida Crocodylus, strong, well branched plants from 2 1/2 in. pots, \$4.00 per 100.

Satisfaction guaranteed.

**A. B. DAVIS & SON,** Purcellville, Va.  
 (Near Wash'n, D. C.)  
 When Writing Mention Florists' Exchange

## FOR AUGUST DELIVERY.

# DALM

Seed. FRESH ON HAND

Kentia Belmoreana, . . .	\$1.25	\$10.00	\$27.50
Forsteriana, . . .	1.50	12.50	25.00
Pandanus calla, . . .	1.00	10.00	20.00
Above prices for selected seeds only of highest germinating power.			

**J. L. SCHILLER, Rutherford, N. J.**  
 When Writing Mention Florists' Exchange

## Fresh Seeds—Calla Bulbs.

**Apple Geranium** (true), 25 cts. pkt.; \$1.00 per 100 plants; \$2.50 per 10,000 seeds.  
**Musa Ensete,** 75 cts. per 100 seeds; \$6.00 per 1000 seeds.  
**Scarfonia Elegans,** 40 cts. per 100 seeds; \$4.00 per 1000 seeds.  
**Cyperus** **Microstylis,** 25 cts. per pkt.; \$1.00 per doz.  
**Phoradendron Tenax,** 25 cts. per 100 seeds; \$1.00 per 1000 seeds.  
**P. Fernax Variiegata,** 50 cts. per 100 seeds; \$2.00 per 1000 seeds.  
**Asphyllia Australis** (True Fern), 50 cts. per doz.

Send for prices on Calla Lilies, Angel and September delivery. Send for Trade lists of Novelties and Specialties for Autumn delivery.

**MRS. THEODOSIA B. SHEPHERD**  
 Trustees-Heaven, Cal.  
 When Writing Mention Florists' Exchange























fortune has favored beautiful as the gardens of the gods, and carried to the poor and the beauty of the city by the fragrance of the rose.

Wishing that every success may attend the meeting of the younger portion of the City, I am, very respectfully,  
CLISHA DYER,  
Governor of Rhode Island.

A selection by the orchestra was followed by singing by the Union Veteran Quartet. Solos by Florence Batchelder Sargent were enthusiastically received, and which it was announced that dancing would be enjoyed. The floor was cleared and the younger portion of the company gave themselves up to the pleasures of the dance. A light collation of ice cream and cake was served to all present.

The Bowling Contest.

The bowling contest continues as interesting as ever. It was decided that teams falling to make 600 on the first game would be unable to complete the three games, but due to one of the Providence team falling sick this rule was waived, and Buffalo and Providence, who had both failed to make the necessary 600 were allowed to roll the second time. Following are the scores by games:

Table with columns for Providence and Buffalo scores across multiple games.

Table with columns for Providence and Buffalo scores across multiple games.

Table with columns for Providence and Buffalo scores across multiple games.

Table with columns for Providence and Buffalo scores across multiple games.

Table with columns for Providence and Buffalo scores across multiple games.

Table with columns for Providence and Buffalo scores across multiple games.

Table with columns for Providence and Buffalo scores across multiple games.

Table with columns for Providence and Buffalo scores across multiple games.

Table with columns for Providence and Buffalo scores across multiple games.

Table with columns for Providence and Buffalo scores across multiple games.

Philadelphia team with a score of 2501; Boston third, with a score of 2384; Pittsburgh third, with a score of 2281.

Individual Competition.

Table listing individual scores for Philadelphia, Providence, and Buffalo.

The highest aggregate score in the three games was made by John Hornell, of the Philadelphia team, with 453 pins.

W. A. Manda having to leave, his place in the New York team in the second and third games was taken by James Logan.

The Shooting Contest.

The event of Wednesday afternoon was the clay pigeon shoot between the clubs representing Philadelphia, Buffalo and Providence. Through the courtesy of the home club or rather through the agency gave the visitors a very exciting Philadelphia match, the result being a total score of 90, Buffalo being high with 45, and the home club showing only a score of 35.

Table listing scores for Philadelphia and Providence in the shooting contest.

Table listing scores for Philadelphia and Providence in the shooting contest.

Table listing scores for Philadelphia and Providence in the shooting contest.

Table listing scores for Philadelphia and Providence in the shooting contest.

Table listing scores for Philadelphia and Providence in the shooting contest.

Table listing scores for Philadelphia and Providence in the shooting contest.

Table listing scores for Philadelphia and Providence in the shooting contest.

Table listing scores for Philadelphia and Providence in the shooting contest.

Table listing scores for Philadelphia and Providence in the shooting contest.

provement made in the growing of such stock as an up-to-date retail store must carry.

In concluding, I would say there has been a decided progress and improvement in all departments of our business for about a year, and now that after the S. A. F. convention we join the number of ones that have been visited with meetings, we hope the result will be a continuous increase financially, socially, etc.

THOMAS J. JOHNSON.

New York.

There is very little, if any business. The market is glutted with roses of very poor quality, which bring 4c. to 6c. per bunch. The Greeks pay 50c. for the best quality, in limited quantities. Many thousands are unsold, even at these prices.

Asters are a drug, except for a very few large varieties, which bring 4c. to 6c. per bunch. Thursday morning, at 34th Street market, the growers carried their roses home with them. The rise in wheat has had no perceptible effect upon the flower market as yet, but there is a good prospect.

Quite a large delegation from this locality left Monday night for the S. A. F. convention, at Providence.

Small Zee, N. Y., lost a little child by death, the past week.

David Y. Mellis, Flatbush, is on the sick list.

G. Oliver, Washington, D.C., on his way from Washington to Montreal missed connection and had to spend last Thursday in New York.

He improved his time by taking a trip to Connetquot Island.

Table listing scores for Buffalo and Providence in the shooting contest.

Table listing scores for Buffalo and Providence in the shooting contest.

Table listing scores for Buffalo and Providence in the shooting contest.

Table listing scores for Buffalo and Providence in the shooting contest.

Table listing scores for Buffalo and Providence in the shooting contest.

Table listing scores for Buffalo and Providence in the shooting contest.

Table listing scores for Buffalo and Providence in the shooting contest.

Table listing scores for Buffalo and Providence in the shooting contest.

CORRESPONDENCE.

Insertion will be given in this column to all correspondence from growers, but the opinions expressed do not necessarily reflect our own.

Sweet Pea Novelties, 1897.

Editor Florist's Exchange:— Re: Reply, etc. "Sweet Pea Novelties for 1897," in a recent number of the Exchange, I desire to make several points which you will find of interest in my test of Queen Victoria. I stated that it came a lemon self. I have since had a plant which has not yet come into bloom, which shows a tinting of light blue, which no doubt is what Mr. Eckford meant when he says in his description of the shading "subtly overlaid with faint purple." This shows that this variety includes two shadings, one of which has met with the greatest favor. Hutchins' notes made in Eckford's garden when he visited it in 1895, show that it was called a self.

While at Springfield, Mass., in July, I was struck by the blue color in coloring and shading of some of the well-known varieties, such as Crown Jewel, Queen Victoria, etc., which are so common. They were not at all like the shades that they come in the Middle West. It has occurred up to me the question of the "modification of soils and climates on the colors of sweet peas."

Fifteen miles from Springfield, in the high mountain country, the colors and shading were all blue. The soil was something in (or out of) the sand-hill variety, which is common in Massachusetts, which causes the variation of colors and shades. The greatest variation was noticed in the colors of the Queen Victoria. Esq., who will become a great favorite in this mystery. Some of his "coquette" colors are pink, but they have no trace of the yellow appearing in the wings of the coloring of Brilliant in a "brick red." SAM. C. HAMILTON, Sweet Pea Expert.

The Facts in the Case.

Editor Florist's Exchange:— Every now and then a new plant is brought to the notice of the craft, or it is put more exactly, an old plant, or a common one as it is called, but with a description that would make an ordinary grower go out and borrow the money to get it. It is then a matter of information that he ordinarily possesses it. He is told by the seller, and very often the result is that the grower has a great deal of experience with a small plant, and he has to pay a great deal of money. Now, what I want to get at is that there

should be some place where the intending purchaser could get the facts in the case without coloring. It seems to me that the EXCHANGE is the place to look for this information, and the writer would have had delight in furnishing a description of alleged "new" fruits and flowers.

I have moved to make these remarks by my experience with the straw-berry raspberry. I read the description of the thing, and my own eyes were not strong enough to pay for the expenditure ten times over, but there is also another side to the matter. The grower who has the body who invested his money in the plant on the basis of the description was disappointed. It is not enough to condemn the whole business.

The facts in the case, as I say them, are that the grower is the one who has the berry order, grows about a foot high, has a flower on the order of the strawberry, followed by a fruit like a strawberry, which grows to be as big as a good-sized hickory nut, turning a beautiful scarlet color about the middle of July. This fruit has all in its looks, and is not fit to eat. One can eat it, but it is not good. The grower is the one who "jazzers," dies down in the winter, and is not fit to eat. The grower is the one who "jazzes," dies down in the winter, and is not fit to eat. The grower is the one who "jazzes," dies down in the winter, and is not fit to eat.

Now this sort of talk might pinch somebody who has a very small business, but it would be a mighty help, all the same, in the division of the money that is now being made in this business. It may be that only the feeble-minded get the experience, but if the EXCHANGE is to be of any use to the grower, like the writer, who is going to do it? HOWARD MILLER.

The Scotch Thistle as a Decorative Plant.

Writing in the July number of Park and Cemetery, Fanny Cooper Seavey calls attention to the decorative possibilities of the Scotch Thistle. It is a native of Scotland, as exemplified at the Lexington (Ky.) cemetery, and by illustration shows, in a lesser degree, its adaptability for use in indoor decorations. Regarding the latter, this writer says:

Grow the Scotch Thistle in pots for indoor decoration. It is a native of Scotland, and it proved a marked success in this country. They were splendid plants and singularly attractive. It was the celebration of the Lexington Cemetery, the Scotch Thistle in honor of Queen Victoria's diamond jubilee.

The Scottish national emblem seems to be the thistle, for it may be traced to a family tradition of the national characteristics. There is, for instance, the brave brave right upright, picturesque, a certain scatty extensiveness, and a certain independence, a moderate intrusion and withal, the proverbial kindness of heart is not inaptly rendered in the motto downy under-surface of its leaves."

There are many Scottish societies scattered throughout the United States and Dominion of Canada, and the majority of them are engaged in the use of floral decorations are called in recognition. The thistle, as a part of such arrangement, would prove acceptable to the Scotch people, and it is a native to the emblem of their native country as much as to the kilt and bag-pipes. The Scotch Thistle is a native of the claus, generally occurs in January. It is very possible that the thistle could be raised into flower that year.

Imperfect Glass on Roses.

In many rose houses there are a few imperfections in the glass which, if left uncorrected, will do much harm to the plants. Probably only a plant or so may be noticed affected in a house at a time, and it is not until the plants are at their altitudes the burning ray is directed to others. To determine the location of the imperfection, the grower should turn white cardboard. When held over the plant affected the stronger ray is easily seen by the shadow it casts on the covering up to the glass it is easily found, and a little dab with the paint brush ends the mischief. H. H.







10,000 FIRST QUALITY FORCING ROSES

Fully equal to those sent out the last four years, first-class in every respect. Only selected growth from flower-bushes selected in propagating. AMERICAN BEAUTY, ... WOOTTON, LA FRANCE, ...

AMERICAN BEAUTY.

BRIDE MAID, PERLE, METEOR, BRIDE KAISERIN, MERMET, LA FRANCE and ... SUNSET. A new lot of plants, \$94 and 41. pots

FARQUHAR VIOLETS

Strong, healthy plants, from pots, \$5.00 per 100, Cash with order. Sample plants, 10 cents.

VIOLETS! VIOLETS!

MARIE LOUISE, Lady Campbell, ... Wm. J. CHINICK, Trenton, N. J. When Writing Mention Florists' Exchange

ROSES.

Strong \$5 1/2 inch plants in splendid shape. Yellow Rambler Azalia, \$14.00 per doz., \$8.00 per 100.

VIOLETS AND CARNATIONS

Marie Louise, strong healthy, 5 1/2 in. pot grown, \$1.00 per 100, \$1.00 per 100, \$1.00 per 100.

CARNATIONS.

375 fine plants, 3 inch pots. Will not cheap or exchange for good METEOR.

VIOLETS A SPECIALTY

All first-class plants. Orders received in for fall planting. Marie Louise, Lady Campbell, ...

JACKSON & PERKINS CO. NEWARK.

Will have offer for season of 1897-'98, a choice assortment of Field Crown Roses, ...

VIOLETS FOR BENCHING NOW.

M. Louise, Campbell and Swanley, first strong 2 1/2 in. Price, \$5.00 per 100; also 10,000 strong

ROSES IN BUD.

Field Crown Roses, small and old varieties Clematis, Ornamental Shrubs, and Trees.

VIOLETS FOR BENCHING NOW.

M. Louise, Campbell and Swanley, first strong 2 1/2 in. Price, \$5.00 per 100; also 10,000 strong

Bride and Bridesmaid Roses

2 1/2 inch.....\$2.50 per 100; \$2.00 per 100 3 1/2 inch.....4.00 per 100; \$3.00 per 100

VIOLETS

MARI LOUISE. 5000 to 7000 strong, healthy plants, \$6.00 per 100, \$5.00 per 1000.

THE NATIONAL PLANT CO., Dayton, Ohio.

When Writing Mention Florists' Exchange

VIOLETS

MARI LOUISE. 5000 to 7000 strong, healthy plants, \$6.00 per 100, \$5.00 per 1000.

ROSES IN BUD.

Field Crown Roses, small and old varieties Clematis, Ornamental Shrubs, and Trees.

VIOLETS

MARI LOUISE. 5000 to 7000 strong, healthy plants, \$6.00 per 100, \$5.00 per 1000.

Bride, Bridesmaid, Wootton,

PERLE, \$6.00 per 100. Strong plants, from 2 1/2 inch pots.

VIOLETS

MARI LOUISE. 5000 to 7000 strong, healthy plants, \$6.00 per 100, \$5.00 per 1000.

ADANTUM GUNEAUM.

4 inch pots, \$6.00 per 100. Cash with order.

VIOLETS

MARI LOUISE. 5000 to 7000 strong, healthy plants, \$6.00 per 100, \$5.00 per 1000.

ROSES

American Beauty, 1 inch pots.....per 100, \$10.00 2 1/2 inch.....\$12.00 per 100

VIOLETS

MARI LOUISE, Lady Campbell, strong, healthy plants, from 3 1/2 in. pots, \$10.00 per 100, \$7.00 per 1000.

SMILAX.

Strong from 3 1/2 in. pots, \$2.50 per 100. \$10.00 per 1000

VIOLETS

MARI LOUISE, Lady Campbell, strong, healthy plants, from 3 1/2 in. pots, \$10.00 per 100, \$7.00 per 1000.

CHRYSAANTHEMUMS.

For Varieties and Prices, see April 24th issue. New Trade List on Application.

VIOLETS

MARI LOUISE, Lady Campbell, strong, healthy plants, from 3 1/2 in. pots, \$10.00 per 100, \$7.00 per 1000.

WOOD BROS., Fishkill, N. Y. When Writing Mention Florists' Exchange

When Writing Mention Florists' Exchange

Cincinnati. No Business. It is hardly worth while to mention the good business, and while Providence is doing more than politics to restore prosperity I don't mean Providence, E. J. ...

Carnations.

A Trip to Murphysville tells me we shall have plenty of good carnations; those in the field taken as a whole, do not look so well this as last year. ...

the sun strikes them while the dew is still on. In order to prevent this, some of the growers have used glass shades during the nights with muslin or glass shades, which seems to be an effective pre-

Chicago.

Prosperity, now so much coveted by the alt has not yet given the florists, but the Summer season is not a good time to look for much evidence so hoped for a result among florists, but let us hope the Winter will end all our discontent. ...

Notes.

The new firm of George & Allen has just taken a new wagon from the shop. This firm is rapidly getting ready to do business. Frank Ball is rusticating on a farm in Kent. Allen Drake, with J. Charles McCulloch, will be married on August 25 to Miss Elizabeth Spilman. Mr. Drake has the congratulatory of all the florists for best wishes for a long and prosperous life. ...

Notes.

A trip to the Reibergs showed Peter Reiberg and wife, with houses, 25x370, building ready for carnations. These will take at least 20,000 or 25,000 carnations. The two brothers having at least 125,000 roses planted out. ...

Baltimore.

Asters are coming in abundance, the sale is but fair; roses are improving in quality, and good ones are more plentiful; the quality of carnations is also improving. ...

Springfield, Mass.

E. Pelke has rebuilt his houses at West Springfield, adding new glass for roses and carnations. B. J. Shaw, who suffered by the heavy rains submerging his carnations, thinks that he will receive much loss. ...

Market.

Asters are coming in abundance, the sale is but fair; roses are improving in quality, and good ones are more plentiful; the quality of carnations is also improving. ...

Market.

Asters are coming in abundance, the sale is but fair; roses are improving in quality, and good ones are more plentiful; the quality of carnations is also improving. ...





# IF YOU PARTICIPATE

In the return to prosperity do not forget that if we can take care of your orders during troublous times, we are equally capable of meeting your requirements during prosperous periods. We are prepared for your next season's trade and

## ...WE WANT YOUR ORDERS...

Goods packed with care and shipped promptly to all points. A full line of **CUT FLOWERS** constantly on hand.

**CARNATIONS A SPECIALTY. CONSIGNMENTS SOLICITED IN ANY QUANTITIES.**

### DUMONT & CO., Wholesale Florists, 1305 FILBERT ST., PHILA., PA.

When Writing Mention Florists' Exchange

Wholesale Florists  
 ALWAYS ON HAND!  
 CARNATIONS,  
 HYDRANGEAS,  
 ROSES.

**JOBBERS IN  
 FLORIST'S  
 SUPPLIES.**

*N. F. McCarthy*

**FLORIST'S VASES.**  
 Horticultural Auctioneers.  
 84 HAWLEY STREET, - BOSTON.

**HEADQUARTERS** In Western New York. Try us  
**ROSES, GARNATIONS AND ALL SEASONABLE FLOWERS.**

**WM. F. KASTING,** Wholesale  
 Commissioner  
 495 Washington Street,  
 BUFFALO, N. Y.  
*Also Dealer in Florists' Supplies & Wire Designs*

**EVERY FLORIST OUGHT TO INSURE HIS GLASS AGAINST THEFT.**

For particulars address  
**JOHN G. KSLER, 807 1/2 Saddle River, N. J.**  
 When Writing Mention Florists' Exchange

**M. RICE & CO.,**  
 Importers and Manufacturers of  
**FLORIST'S SUPPLIES.**  
 25 N. 4th St., Philadelphia, Pa.  
**NEW FALL CATALOGUE NOW READY**  
 When Writing Mention Florists' Exchange

**Galax Leaves.**  
**CHAS. H. RICKSACKER, Linville, N. C.**  
 When Writing Mention Florists' Exchange



**WIRE MESH**  
 MANUFACTURERS OF  
**FLORIST'S WIRE DESIGNS**  
 120 W. 25th St. N. Y. C.

TELEPHONE, 1782 18TH ST.  
 When Writing Mention Florists' Exchange

**GEO. A. SUTHERLAND,**  
 Successor to WM. J. STEWART,  
**CUT FLOWERS and FLORIST'S SUPPLIES**  
 WHOLESALE.  
 67 Bromfield St., Boston, Mass.



**St. Louis  
 Cut Flower Co.**  
 WHOLESALE  
 FLORISTS.  
 1620 Olive St.  
 ST. LOUIS, MO.  
 When Writing Mention Florists' Exchange

**CHOCOLATE COOLER CO.,**  
 GRAND RAPIDS, MICH.  
 Manufacturers of

## GOLD FISH.

**Fine Healthy Stock.**  
 Medium to large size, \$10.00 per 100. Cash with order. No charge for shipping cases. Gold Fish can be shipped by Express throughout the country with safety and at a profitable and attractive stock to handle.

**City Hall Cut Flower Market**  
**WELCH BROS., Props.**  
 Regular Consignors Given Space Free of Charge. Space let to growers wishing to sell their own goods.  
 Flowers Shipped to all Points.  
**SEND FOR PRICE LIST...**

**CUT SMILAX.**  
 Heavy 6 ft. Strings at 15 cts.

**FLORIST'S REFRIGERATORS.**  
 Send for Circular.  
 When Writing Mention Florists' Exchange

Full line of Agnaris Supplies.  
**KEENAN'S SEED STORE,**  
 6112 and 6114 Wentworth Ave., CHICAGO.  
 When Writing Mention Florists' Exchange

**Buffalo Cut Flower Exchange**  
**WHOLESALE COMMISSION.**  
 CONSIGNMENTS SOLICITED.  
 481 Washington St. BUFFALO, N. Y.  
 Telephone, Seneca, 1206.

**HAKES & SONS, 1170 N. Y.**  
 When Writing Mention Florists' Exchange

**E. G. HILL & CO.,**  
 Wholesale Florists,  
 RICHMOND, INDIANA.  
 When Writing Mention Florists' Exchange

\*\*\*\*\*  
**"JADDO"**  
 FIBRE and LIQUID are used and endorsed by the leading growers. Try them and be convinced.  
 \*\*\*\*\*  
 When Writing Mention Florists' Exchange

**DO NOT BE HUMBUCCED**  
 Into Cheap GREY SILK LINE  
 Imitations of our

**H. L. SUNDERBRUCH CO.,**  
**Wholesale Commission Florists,**  
 4th and Walnut Streets,  
 CINCINNATI, OHIO.  
 Consignments Solicited. Special Attention Given to Shipping Orders.

... FOR FINEST ...  
**Galax Leaves and Leucothoe Sprays.**  
 ALWAYS WRITE THE INTRODUCERS,  
 Highlands Nursery, Kawana, N. C.  
 When Writing Mention Florists' Exchange

**WELCH BROTHERS,**  
 DEALERS IN  
**FLORIST'S SUPPLIES.**  
 15 Province Street, }  
 or Caspian Place, } BOSTON.  
 Wire Designs, Wheat Sheaves, Baskets, Immortelles, Cape Flowers, Cut Flowers, Boxes, and all other supplies, at prices to meet competition.  
 When Writing Mention Florists' Exchange



Contains more cord and does more work than anything else on the market - original and only silk line - a quality solely by **JOHN N. C. BECKER & CO.,** 27 Summer Street, BOSTON, MASS., U. S. A.  
 When Writing Mention Florists' Exchange


**COMPLETE LINE OF SUPPLIES**  
**WIRE WORK**  
 WE MAKE  
 IMPORTERS OF  
**80 LBS**  
 PHONE 1571  
 BOX 73

**ALWAYS ON HAND  
 FINEST STOCK  
 OF CUT FLOWERS**

**ELLIS & POLLWORTH  
 MILWAUKEE WIS.**

**ASPARAGUS PLUMOSUS NANUS,** Cut Strings, 10 to 12 feet long, 50 cts. each.  
 Shipped to any part of the country.  
**W. H. ELLIOTT, - Brighton, Mass.**  
 When Writing Mention Florists' Exchange

## Boston Florist Letter Co.



**R** **FLORIST'S LETTERS.**

This wooden box nicely stained and varnished, 10x8x12 inches in size, contains one for each size letter, green and red, with that of 1000 letters, 1 1/2 x 2 inch size, per 100, \$2.00  
 Single Letters, \$1.00

Features with each letter or word.  
 Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.  
**N. F. MCCARTHY, Treas. & Manager.**  
 2002 1/2 ST. BOSTON, MASS., 2002 1/2 ST.  
 When Writing Mention Florists' Exchange

The live Florist is now planning for next season. Are you he? If so, or not, do not overlook the assisting features that might go with use of a set of

**LONG'S FLORIST'S PHOTOGRAPHS.**  
 INTENDED FOR USE IN TAKING ORDERS. NEW CATALOGUE FREE.

Also a new and adaptable **FLORIST'S CATALOGUE** of Cut Flowers and Arrangements.  
 CIRCULAR ON APPLICATION.  
**DAN'L B. LONG, Publisher, BUFFALO, N. Y.**  
 When Writing Mention Florists' Exchange

When Writing Mention Florists' Exchange

**VALVES and FITTINGS**  
For Pipe and Tubing.  
**VENTILATING APPARATUS.**



**COLDWELL-FILCOX CO.,**  
Newburgh, N. Y.  
SEEK FOR CATALOGUE  
Mention paper.

**SUMMER IN WINTER**  
By Using  
**Standard Greenhouse Boilers**  
One cent gets our Catalogue.  
**GIBLIN & CO.,** = Utica, N. Y.  
When Writing Mention Florists' Exchange

**Evans' Improved Challenge.**  
Boiler heating, self-offing device automatic stop, solid link chain, makes the SAFEST and most DURABLE the most perfect apparatus in the market.  
Write for catalogue and prices before placing your order elsewhere.  
**Quaker City Machine Co.,**  
RICHMOND, IND.  
When Writing Mention Florists' Exchange

**CYPRESS**  
GREENHOUSES  
MATERIAL  
OF  
ANY DESCRIPTION

**JOHN C. MONINGER CO.**  
412 to 422  
HAWTHORNE AV.  
CHICAGO, ILL.

When Writing Mention Florists' Exchange  
A CHANGE OF AD. is often as necessary as a change of air, or change of diet, and for the same reason - to keep trade and body healthy

**PIPE VALVES**  
Wrought Iron Pipe, Valves, Coocks, Fittings, etc., for Steam and Hot Water; Rubber Hoses, Pumps and Well Poles.  
**WM. H. KAY, 42 Day St., New York.**  
When Writing Mention Florists' Exchange

**The Agricultural Drain Tile**  
made by **JOHN H. JACKSON, JR.** of NEW YORK, N. Y., are the BEST that long experience, thoroughness of work and most productive. Make also Sewer Pipe, Cement, Plaster, Lime, etc. Write for what you want. 11 Third Ave.  
**ROUND TILE**  
When Writing Mention Florists' Exchange

**GLASS** FOR GREENHOUSES, CONSERVATORIES, GRAPERIES, HOTBEDS AND FLORISTS' USE GENERALLY, AT LOWEST RATES.  
**L. HARRIS & SON.**  
437 N. BROADWAY, NEW YORK, 28 LIBERTY ST., NEW YORK  
Est. Boston and Weymouth Sts.  
When Writing Mention Florists' Exchange

**GLASS!** For Greenhouses, Conservatories, Graperies, Hotbeds and all other purposes, at Lowest Rates. **GLASS!**  
**N. COWEN'S SON, 392 & 394 West Broadway, New York.**  
Formerly 184 and 186 So. Fifth Avenue.  
Get our Figures before buying Glass. Estimates Freely Given  
When Writing Mention Florists' Exchange

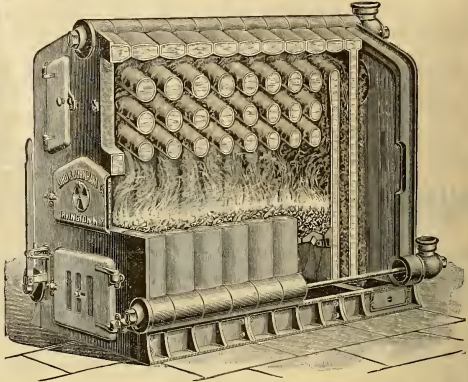
If you want to know which **IS** the best Greenhouse Boiler in the market write to  
**HENRY W. GIBBONS,**  
Heating Engineer and Greenhouse Architect.  
**136 LIBERTY STREET, NEW YORK.**  
**EXPERT ADVICE** on all matters pertaining to the Design, Construction, and Equipment of greenhouses. Greenhouse Plans prepared, Heating and Ventilating Apparatus, and Building Materials furnished.  
When Writing Mention Florists' Exchange

**THE VAN REYPER**  
**PERFECT GLAZIERS' POINTS**  
No rights or lefts. Price per box of 1000, 60c. by mail, 75c.; in lots of 5000 by ex., 55c. per 1000  
**HENRY A. DREER, 714 Chestnut St., Phila., Pa.**  
When Writing Mention Florists' Exchange



**TRADE GREENHOUSES.**  
**THE BEST MADE.**  
"Florists" Get Your Plans and Estimate from  
**PLENTY'S HORTICULTURAL WORKS,**  
148-156 Randolph Ave., JERSEY CITY, N.J.  
When Writing Mention Florists' Exchange

**LORD & BURNHAM CO.,**  
Horticultural Architects and Builders and Manufacturers of Heating and Ventilating Apparatus.  
Established 1864.  
Plans and estimates furnished on application for Heating and Ventilating Apparatus erected complete, or for material only. Highest Awards at the World's Fair.




**NEW SECTIONAL HOT WATER HEATER.**  
Specially adapted to large ranges. Will heat up to 16,500 feet of glass. Highest economy. Moderate cost. Also heaters for smaller work. Send six cents postage to New York office for latest catalogue of Heating and Ventilating Apparatus.  
**NEW YORK OFFICE:** 160 FIFTH AVE., COR. 21ST ST.  
**GENERAL OFFICE AND WORKS:** HINGWOOD-ON-HUDSON, N. Y.  
When Writing Mention Florists' Exchange

**CALIFORNIA RED CEDAR**  
Never Decays.  
**A. DIETSCH & CO. 819 Sheffield Avenue, CHICAGO.**  
MANUFACTURERS OF  
**RED CEDAR AND CYPRESS GREENHOUSE MATERIAL.**  
When Writing Mention Florists' Exchange

SEND FOR OUR "NEW CATALOGUE, WHICH SHOWS"  
**The New Automatic Cable Ventilator**  
As it is put up in the house complete. We also give you prices with a guarantee that each machine sent out will operate your house economically. Both machines now made in two sizes.  
**A. Q. WOLF & BRO., Dayton, Ohio.**  
When Writing Mention Florists' Exchange

**STANDARD VENTILATING MACHINE.**  
NONE EQUAL IT IN Strength AND Durability. NOTHING Flimsy OR Complicated about it.  
Send for Catalogue.  
**E. HIPPARD, YOUNGSTOWN, OHIO.**  
When Writing Mention Florists' Exchange



**MASTICA**  
FOR GLAZING GREENHOUSES. SUPERIOR TO PUTTY IN EVERY WAY.  
Is not deteriorated by the extreme heat or cold that a greenhouse is constantly subjected to both inside and out. Mastica is adhesive and remains permanently elastic so that it is not forced out of place by expansion and contraction of the wood work. Houses glazed with Mastica do not need re-glazing, thus saving time and expense. With Mastica can be used on the outside, but with a machine only.  
Mastica and Mastica Glazing Machine were given  
**HIGHEST AWARD OF SOCIETY OF AMERICAN FLORISTS AT PITTSBURGH, 1895.**  
Put up in gallons, \$1.00. Half gallons, 60c. Quarter gallons, 35c. etc.  
**Mastica Glazing Machines, \$1.00 each.**  
Send for full descriptive circular and testimonials. Agents in all the principal cities.  
**F. O. PIERCE CO., Sole Manufacturers, 170 Fulton St., New York.**  
When Writing Mention Florists' Exchange

Established  
1844.

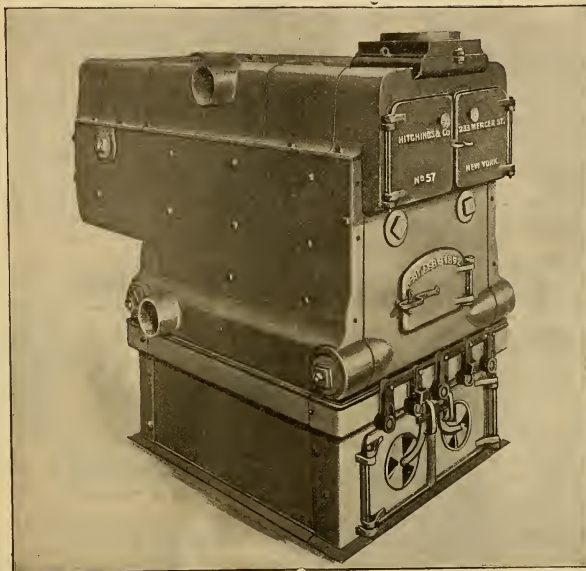
# HITCHINGS & CO.

Established  
1844.

## GREENHOUSE BUILDERS

....AND MANUFACTURERS OF....

### Hot Water Heating Apparatus and Perfect Sash Raising Apparatus.



✱

Awarded  
Certificate  
of  
Merit  
S. A. F.

✱

✱

The  
Only  
Certificate  
Given  
1897.

✱

### OUR NEW SECTIONAL, TUBULAR BOILER EXHIBITED IN CONVENTION HALL.

Office of HITCHINGS & CO., 233 Mercer Street.

TO THE FLORISTS AND GARDENERS OF AMERICA:

New York, August 5, 1897.

**GENTLEMEN:** We are pleased to announce that our business of Greenhouse Building is steadily growing, and we have, during the first seven months of 1897, designed and erected very much more glass than in any former year, not only for private places, but for commercial growers who now realize that high class roses, carnations and other bloom, which command the best prices, can only be grown in a greenhouse of modern construction, with large lights of glass, and a frame so designed as to cast the least shadow and at same time to be of ample strength. These requirements are fully met in our Improved Iron Frame Commercial House, and while the first cost of such construction is somewhat in excess of the old style wooden house, the saving in repairs, and the improvement in the quality of the bloom produced, will soon offset the increased cost. We will be glad to receive your inquiries for estimates for any new work or repairs you may have in view. Thanking you for past orders, and hoping for a continuance of your favors, we are,

Respectfully yours,

HITCHINGS & CO.

## HITCHINGS & CO., 233 Mercer St., New York.



# THE FLORISTS' EXCHANGE

We are a straight shoot and aim to grow into a vigorous plant.

A WEEKLY MEDIUM OF INTERCHANGE FOR FLORISTS, NURSERYMEN, SEEDSMEN AND THE TRADE IN GENERAL.

VOL. IX. No. 35.

NEW YORK, AUGUST 28, 1897.

One Dollar Per Year.

## DECORATIVE PLANTS

<b>ARECA BAUERI.</b>	
3 inch pots, 8-9 inches high.....	\$2.00 per doz.; \$15.00 per 100
4 inch pots, 10-15 inches high.....	\$3.00 per doz.; \$25.00 per 100
5 inch pots, 2-4 inches high.....	\$5.00 per doz.; \$50.00 per 100

<b>COCOS WEDDELIANA.</b>	
3 inch pots.....	\$3.00 per doz.; \$25.00 per 100
4 inch pots, single stem.....	\$5.00 per doz.; \$40.00 per 100
4 inch pots, bushy, 3 plants in a pot.....	\$5.00 per doz.; \$40.00 per 100

<b>KENTIA BELMOREANA.</b>	
2 inch pots.....	\$12.00 per 100
3 inch pots, 8-12 inches high, 4 to 6 leaves.....	\$3.50 per doz.; \$35.00 per 100
4 inch pots, 12-15 inches high, 4 to 6 leaves.....	\$4.50 per doz.; \$35.00 per 100
5 inch pots, 15-20 inches high, 6 to 7 leaves, stocky.....	\$6.00 per doz.; \$75.00 per 100

Large specimen plants, prices on application.

<b>KENTIA FORSTERIANA.</b>	
2 inch pots.....	\$10.00 per 100
3 inch pots, 12-15 inches high.....	\$15.00 per 100
4 inch pots, 15-18 inches high.....	\$4.50 per doz.; \$45.00 per 100

<b>LATANIA BORBONICA.</b>	
3 inch pots.....	\$10.00 per 100
4 inch pots, 12-15 inches high.....	\$3.00 per doz.; \$25.00 per 100
6 inch pots, 18-22 inches high, stocky.....	\$5.00 per doz.; \$50.00 per 100

<b>PHOENIX RECLINATA.</b>	
4 inch pots, 12-15 inches high.....	\$3.00 per doz.; \$28.00 per 100
5 inch pots, 15-18 inches high.....	\$5.00 per doz.; \$28.00 per 100

<b>ARECA LUTESCENS.</b>	
5 inch pots, 20-24 inches high, 8 plants in a pot.....	\$9.00 per doz.; \$90.00 per 100

<b>GEONOMA GRACILIS.</b>	
2 inch pots.....	\$15.00 per 100

<b>LIVISTONA HOOGENDORPIL.</b>	
4 inch pots, 10-12 inches high, 7 leaves, strong.....	\$15.00 per doz.; \$150.00 per 100

<b>LIVISTONA ROTUNDIFOLIA.</b>	
5 inch pots, 12-15 inches high, 7 to 8 leaves, strong.....	\$15.00 per doz.; \$150.00 per 100

<b>ADIANTUM CUNEATUM.</b>	
3 inch pots.....	\$7.00 per 100; \$65.00 per 1000

<b>ASPIDUM TENSIMENSE.</b>	
3 inch pots.....	\$5.00 per 100; \$75.00 per 1000

<b>ASSORTED FERNS.</b>	
2 inch pots.....	\$4.00 per 100; \$35.00 per 1000

**PITCHER & MANDA, Short Hills, N. J.**

JOHN N. MAY, Receiver.

When Writing Mention Florists' Exchange

## NOW READY

### FREESIAS.

Extra sized bulbs, 60c. per 100; \$5.00 per 1000.  
 Mammoth bulbs, \$2.00 per 100; \$15.00 per 1000.

### BERMUDA BUTTERCUP OXALIS.

\$1.50 per 100; \$12.00 per 1000.

### LILIUM HARRISII.

Finest quality, 5-7 inch bulbs, the most profitable size for general forcing, \$3.00 per 100; \$30.00 per 1000.

### BERMUDA GROWN LONGIFLORUM.

5-7 inch bulbs, \$3.50 per 100; \$30.00 per 1000.

### WHITE ROMAN HYACINTHS.

Finest quality bulbs, 12-15 ctm. in dia., \$2.50 per 100; \$25.00 per 1000. In full case lots about 2000 bulbs, \$20.00 per 1000.

### Blue Roman and White Italian Hyacinths.

\$2.50 per 100; \$19.00 per 1000.

### PINK ROMANS.

\$2.00 per 100; \$16.00 per 1000.

### Large Flowered Paper White Narcissus.

\$1.25 per 100; \$10.00 per 1000.

### CALLAS.

Extra size bulbs, 1-1 1/2 in. in diam., \$5.00 per 100; \$50.00 per 1000.  
 Selected bulbs, 1 1/2-2 in. " " 8.00 " " 70.00 "  
 Mammoth bulbs, 2-2 1/2 in. " " 12.00 " " 100.00 "

### ALLIUM NEAPOLITANUM.

75c. per 100; \$6.00 per 1000.

For DUTCH BULBS, etc., which will soon be ready, see our Fall List.

## F. R. PIERSON CO.,

TARRYTOWN-ON-HUDSON, NEW YORK.

When Writing Mention Florists' Exchange

## ROSE HILL NURSERIES

NO DUTY

No Advance in Prices if Orders are Sent at Once.

### HOME-GROWN STOCK.

#### TWO GRAND OFFERS FOR TWO WEEKS:

**FERNS, 2 1/2 inch pots, 5 varieties, \$3.00 a 100; \$25 a 1000**  
**COCOS WEDDELIANA, . . . . . 2 1/2 inch, strong, \$10 a 100**

#### SPECIALTIES:

Palms, Pandanus Veitchii, Dracaenas, Ficus Elastica, &c., &c., &c.

Write, telephone or telegraph us, and our carriage will meet you.

## SIEBRECHT & SON,

NEW YORK OFFICE: 409 5th Ave. NEW ROCHELLE, N. Y.  
 When Writing Mention Florists' Exchange

OF OUR "Florists Stock Now in Season"  
 We call attention to the choicest lots of the following ever imported. . . . .



Roman Hyacinth Bulb.

**White Roman Hyacinths,**  
**Mammoth Freesias,**  
**Narcissus P. W. Grandiflora,**  
**L. Harrisii and Bermuda Oxalis.**

### PANSY NEW CROP SEED

### Calla Bulbs.

We have facilities and direct connection with growers of these bulbs in California by which we secure select roots, well cured and healthy. For these prices we give.

#### EXTRA GOOD VALUE.

Doz. 100	
FIRST SIZE 1 1/4 to 1 1/2 in. in diameter.....	\$9 75 \$5 50
SELECT, about 1 1/2 to 1 3/4 in. in diameter.....	1 25 7 50

EXTRA SELECT, about 2 to 2 1/2 in. in diameter..... \$ 1 50 10 00

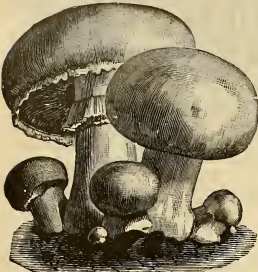
**VAUGHAN'S INTERNATIONAL PANSY MIXTURE.** This is the finest mixture for every Florist who would realize the highest prices for his seeds and plants. It contains the essence of the cream of every good Pansy grower's product the whole world over. It contains, besides all the choicest German, English and French strains of beautiful colorings, all the separate colors of the Giant Tricolors and their immense diverse and rich colors. It contains the finest Cester and Bazel strains, the product of celebrated Scotch strains, the Palatin and Hollande Giants. In fact there is no strain of any of the celebrated Pansy Specialties not represented in our INTERNATIONAL MIXTURE. Price, per se. \$1.00; 1/2 oz., \$1.00; 1/4 oz., \$1.50; trade price \$1.00. (Less 10 per cent. for cash).

**VAUGHAN'S GIANT PANSY MIXTURE.** All the above seeds and colors in a special strain not listed elsewhere, and which can only be had in this and our International Pansy. This mixture includes the richest reds, oranges and purples together with the most delicate rose and pink shades, all the distinct colors of Tricolors; the splendid Cester strain with its delicate veinings. We have spared no expense to secure the sweetest, richest and finest sorts. Price, per se. \$1.00; 1/2 oz., \$1.50; 1/4 oz., \$2.00.

Tricolors White, per 25c.	1/2 oz. 60c.
Tricolors Red, per 25c.	1/2 oz. 60c.
Golden Queen, pure yellow, per 25c.	1/2 oz. 85c.
Pink Pearl, per 25c.	1/2 oz. 85c.
White Pearl, per 25c.	1/2 oz. 85c.
Grand Black, per 25c.	1/2 oz. 85c.

**CHICAGO PANSY BEDDING PANSIES** 1/2 extra choice mixture. Per 100c.  
 1/2 oz. 30c. oz. \$1.00; 1/4 oz. \$1.50.

84 & 86 RANDOLPH ST., **VAUGHAN'S SEED STORE** 14 Barclay St., NEW YORK.  
 When Writing Mention Florists' Exchange



Mushroom Spawn

Fresh stock just arrived. Our Special Milktrick brand is the finest Spawn that can be produced.

Per hundred lbs., \$8.00.

- Correspondence solicited from buyers of large quantities. Gane Stakes, 6 to 8 feet, \$7.00 per 1000. Raffia, 14 cts. per lb; bale lots, 12 cts. per lb. Clay's Fertilizer, 50 lb. bag, \$3.50; 112 lb. bag, \$6.25. BULBS - Our stock is now arriving. Lily Harrisii, Freesia, Calusa, Roman Hyacinths, etc., ready now.

WRITE FOR PRICES. WM. ELLIOTT & SONS, New York.

When Writing Mention Florists' Exchange

SEEDS

KENTUCKY BLUE GRASS (POA PRATENSIS).

CHAS. E. PRUNTY,

MAIN AND MARKET, SAINT LOUIS.

When Writing Mention Florists' Exchange

GRASS SEEDS

We are Headquarters and Collectors.

RED TOP, BLUE GRASS, ORCHARD GRASS, MEADOW FESCUE and SUNFLOWER.

J. CHAS. McCULLOUGH, SEEDSMAN, CINCINNATI, O. JOBBING TRADE A SPECIALTY.

When Writing Mention Florists' Exchange

LOWEST PRICES

ON ALL KINDS OF

BULBS, PLANTS, Etc.

F. W. O. SCHMITZ, - Jersey City, N. J.

When Writing Mention Florists' Exchange

W. & D'S. CROP MUSHROOM SPAWN

Special quotations to large buyers. ALL KINDS OF BULBS. Lilium Harrisii, Freesia, Roman Hyacinth, Narcissus, etc. Special prices on application. WEBER & DON, Seed Merchants and Growers. 114 Chambers St., NEW YORK CITY.

When Writing Mention Florists' Exchange

Decorative border containing the text '= BULBS =' and 'CHAS. H. ALLEN, Floral Park, N. Y.' with 'When Writing Mention Florists' Exchange' below.

BULBS ... GLAZING MATERIAL

- Romans, Mastica, Harrisii, Mastica Machine, L. Candidum, Liquid Putty, Freesias, Scollay Putty Bulb, P. W. Narcissus, Van Reyper's

NOW READY. Glazing Points.

ELLIS & POLLWORTH, Milwaukee, Wis.

When Writing Mention Florists' Exchange

FRESH PALM SEEDS - Send Order Quick. Extra Fine.

KENTIA Belmoreana or Forsteriana, delivery included.....per 1000, \$6.50. Fresh Corypha australis or Seafartha elegans, delivery included, per 100 \$2.75. SAMPLES FURNISHED ON APPLICATION. Send for our NEW PRICE LISTS of all Japan Bulbs, Seeds and Plants. Also lists of Dutch Bulbs, Romans, Valleys, etc. LET US FIGURE ON YOUR WANTS. Address, H. H. BERGER & CO., 220 Broadway, New York. Branch Office, San Francisco, Cal. (Established 1873.)

When Writing Mention Florists' Exchange

BERMUDA LILIES!

Crop is Short. We have all Kinds Yet on Hand. LILIAM HARRISII, LILIAM LONGIFLORUM. They are soon fast. Telegraph orders receive preference. Write for our FALL BULB QUOTATIONS just published. AMERICAN BULB COMPANY, SHORT HILLS, N. J. When Writing Mention Florists' Exchange

WINTZER'S NEW PEDIGREE GANNAS.

PHILADELPHIA, the finest crimson, MAIDEN'S BUSH, color of Daybreak Caration. ALSACE, nearest pure white, and many other chosen new kinds of our own introduction. Write for catalogues. THE CONANT & JONES CO., WEST GROVE, PA. When Writing Mention Florists' Exchange

BURPEE'S SEEDS logo with 'WHOLESALE PRICE LIST FOR FLORISTS AND MARKET GARDENERS' and 'PHILADELPHIA'.

When Writing Mention Florists' Exchange

Palm Seeds...

From the celebrated nurseries of D. HAY & SON, Auckland, New Zealand. AREGA BAUEN. Immediate delivery. KENTIA BELMORIANA. September delivery. E. H. PATTERSON, Sole Agt. for U. S. A. 304 Pearl Street, NEW YORK CITY. When Writing Mention Florists' Exchange

FOREST SEED.

500 lbs. White Pine Seed for sale also Pitch Pine, Balm Fir, Spruce, Hemlock, White Ash, Red Oak, Acorn, etc. Please send in orders before time for mailing. SPECIAL BARGAINS IN PLANTS. White and Norway Spruce, 10 to 24, (stocky plants), \$1.00 per 100. Double Spruce, Bittersweet, \$1.50 per 100. Double Yew, Red and Green, \$2.00 per 100. Helianthus, strong stems, \$2.50 per 100. GRA. L. MA HONEY & Co., Secs. Natick, Mass. When Writing Mention Florists' Exchange

BUY FROM THE GROWERS DIRECT

ALL BULBS AND PLANTS. For Summer and Fall Delivery, Quoted at Very Low Rates. FREE ON BOARD CARS ON BOATS NEW YORK CITY. HULSEBROS BROS., Englewood, N. J. When Writing Mention Florists' Exchange

FOR AUGUST DELIVERY.

PALM SEEDS logo with 'FRESH ON HAND' and a list of seeds like 'Kentia Belmoreana', 'Forsteriana', 'Pandanus utilis', 'Rex Begonia', 'F. L. M. Lantana Borbonica', 'Rubber Plants' with prices.

J. L. SCHILLER, Rutherford, N. J. When Writing Mention Florists' Exchange

ELLIOTT'S LITTLE GEM DWARF CALLA.

Now plump little bulbs that will make excellent plants for spring sales, \$1.00 per 100; \$4.00 per 1000 by mail, post paid. Pandanus utilis, 2 1/2 inch plants, \$5.00 per 100; \$40.00 per 1000. Rex Begonia, 14 varieties, labeled, excellent assortment, never seen, strong plants, 2 1/2 inch pots, \$3.00 per 100; \$25.00 per 1000. F. L. M. Lantana Borbonica, strong plants, from 2 1/2 inch pots, \$4.00 per 100; \$35.00 per 1000. Rubber Plants, extra fine, perfect plants will grow, 18 in. high, from 5 in. pots \$5a doz. The above stock is clean, well grown and first-class in every particular. Satisfaction guaranteed. A. B. DAVIS & SON, Purcellville, Va. (Near Wash'n, D. C.) When Writing Mention Florists' Exchange

Pansies Worth Raising.

NEW CROP SEED OF THIS POPULAR STRAIN. 2-16 ounce.....\$1.00 1/2.....2 25 1/2.....4 00

CASH WITH ORDER. G. Soltan & Co., 199 Grand Jersey City, N. J. When Writing Mention Florists' Exchange

VAUTIER'S MAMMOTH PANSY.

New crop seed now ready. This is the largest and most Pansy ever offered. Mr. Vautier has been over 27 years perfecting his strains. We have testimonials from florists in all parts of the U. S. planting it also as novelty. Price, \$1.00 per doz. H. G. FAUST & CO., 64 & 66 N. Front St., Philadelphia, Pa. When Writing Mention Florists' Exchange

NEW CROP SEED NOW READY

ZIRNGEBEL'S STANDARD PANSIES. Silver Medal in Boston and First Prizes everywhere. Giant Market and Giant Fancy Strains, in trade packs, at \$1 each. Printed directions with every package. DENYS ZIRNGEBEL, Neudham, Mass. When Writing Mention Florists' Exchange

PANSIES!

SEED + SEED NEW CROP NOW READY. ROENNER'S SUPERB PRIZE PANSIES. This strain includes all the leading varieties, Odeur, Casseler, Bagot and Parisian mixture, and the very finest selected plants in great variety, all new colored, without doubt the finest strain in the market to-day. The following complimentary letter is one of many received every year: 'REPLY, L. N. Y. June 22nd, 1891. MR. E. B. JENNINGS, Dear Sir: The Pansy Seed you have sent me has been sown in a number of packets I have ever seen. They were uniformly first-class. I had but mixed it in soon as you are ready. Respectfully yours, PETER BROWN, Wholesale Pansy Grower, LANCASTER, PA. When Writing Mention Florists' Exchange

JENNINGS' STRAIN

of finest American grown Pansy seed; new crop, now ready, saved from the very finest selected plants, all large flowering, in great variety, all new colored, without doubt the finest strain in the market to-day. The following complimentary letter is one of many received every year: 'REPLY, L. N. Y. June 22nd, 1891. MR. E. B. JENNINGS, Dear Sir: The Pansy Seed you have sent me has been sown in a number of packets I have ever seen. They were uniformly first-class. I had but mixed it in soon as you are ready. Respectfully yours, PETER BROWN, Wholesale Pansy Grower, LANCASTER, PA. When Writing Mention Florists' Exchange

1000 WISTARIAS

TO EXCHANGE for other stock. What have you?

H. A. CATLIN, Richmond, Va. CHINESE PRIMROSE PLANTS.

Primaula chinensis Embratica, extra strong plants...

PELARGONIUMS

Victor, and other good grandis, 3 in., \$3 per 100.

Amelops Velutina. POT-GROWN SEEDLINGS.

J. KADLETZ, P. O. Box Dongan Hills, N. Y.

CACERARIA PLANTS

Ready for repotting into 3 inch pots. Best large-flowering dwarf varieties.

COSMOS

Giant flowered, Early Blooming. Six plants with seeds \$1.00 per ounce.

Prize-Winning DAHLIAS

An unprecedented record. 23 First Prizes, Certificate of Merit, 2 Diplomas.

W. P. PEACOCK, Dahlia Specialist, ATCO, N. J.

P. OUWERKERK, 1123 Summit Ave., Jersey City, N. J.

Just received from our Holland Nurseries: RHODODENDRONS, AZALEAS, SPIRAEA JAPONICA, LILIAM SPECIOSUM,

PONIES, BLEEDING HEART, POT GROWN LILACS, HYDRANGEA IN SORTS.

CLEMATIS and H. P. ROSES, to the best sorts.

PRICES MODERATE. When Writing Mention Florists' Exchange

BOLIVIAN LEAS

Glabra (?) and Glabra Sanderiana.

These Beautiful Plants are destined to come to the front from their comparative flowerless and almost continuous booming character for six or eight months of the year in its own state.

THEY AFFORD Characteristic material of a Cool State. Attractive pot plants, from 4 and 5 inch pots.

THE PLANTS are Strong, Rapid Growers. Free-tilled, bushy plants, very easily rooted in all States and not subject to any insect pests.

THO. F. BECKETT, NEWELL ISLAND, GLENFIELD, PA.

Cyperus, 1 1/2 inch pots \$0.75; Nianta, 10 plants, 10 inch pots \$0.75.

A. & G. ROSSBACH, Pemberton, N. J. PEACH AND PLUM TREES

FOR FALL DELIVERY 1897. All desirable leading varieties of PEACHES, and all kinds of FRUIT TREES.

ALEXANDER MULLEN, Milford Nurseries, Milford, Del.

POTTED STRAWBERRY PLANTS

50,000 plants of Glen M. Fry, Blamrock, Encomora, Marshall, Marr, Brandyvine, Michigan, Grosvenor...

THE ELIZABETH NURSERY COMPANY

WHITE PLUME and GIAN PASCAL. Field-grow plants at \$1.00 per 1000.

C. M. GROSSMAN, Celeryville, Ind.

CABBAGE LETTUCE and TOMATO PLANTS.

For Fall planting and forcing, now ready, 10 cts. per 100; \$1.00 per 1000.

H. C. ROSES, Clematis, Rhododendrons, Magnolias,

and all other kinds of Nursery Stock. Buy direct from the producers, at rock bottom prices.

L. C. BOBBINK, Agent for the Horticultural Co., Boskoop, Holland.

ORNAMENTAL TREES and SHRUBS.

Roses, Bulbs and Hardy Perennials in Large Assortment and of Superior Quality. Fully believe that we can show more Ornamental Trees and Shrubs...

TREES, SHRUBS, ROSES.

The largest and finest collection of General Nursery Stock in America, embracing Fruit Trees of all kinds, new and old.

LEADING SPECIALTIES: CURRANTS—Cherry, Fay's Versallaise; CRIMSON RAMBLER ROSE...

Trade List issued August 1st. Free on request. Special quotations on large lots. Correspondence solicited.

Elmanger & Barry, ROCHESTER, N. Y.

When Writing Mention Florists' Exchange



























**LORD & BURNHAM CO.,**

Horticultural Architects and Builders Steam and Hot Water Heating Engineers.

(Established 1856.)

Plans and estimates furnished on application for Greenhouses, Conservatories, and all kinds of Horticultural Buildings, erected complete with our patent iron construction, or for material only, ready for erection.



Largest Builders of Greenhouse Structures. Plans and construction embrace latest improvements. Six highest awards at the World's Fair. . . . .

NEW YORK OFFICE: 160 FIFTH AVE., COR. 21ST ST.

GENERAL OFFICE AND WORKS: IRVINGTON-ON-HUDSON, N. Y.

EVERY FLORIST OUGHT TO INSURE HIS GLASS AGAINST HAIL.

For particulars address JOHN G. ESLER, Sec'y, Saddle River, N. J. When Writing Mention Florists' Exchange

WRITE C. S. LODER, Sec'y, NATIONAL FLORISTS' BOARD OF TRADE, 271 Broadway, New York. In regard to Collections, Credits, etc. When Writing Mention Florists' Exchange

**GLASS**

FOR GREENHOUSES, CONSERVATORIES, GRAPERIES, HOTBEDS AND FLORISTS' USE GENERALLY, AT LOWEST RATES.

L. HARRIS & SON, 487 W. BROADWAY, NEW YORK, 160 FIFTH AVE., NEW YORK, N. Y.

When Writing Mention Florists' Exchange

**GLASS!**

For Greenhouses, Conservatories, Graperies, Hotbeds and all other purposes, at Lowest Rates.

**GLASS!**

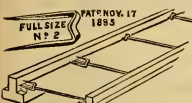
N. COWEN'S SON, 392 & 394 West Broadway, New York, Formerly 124 and 126 No. Fifth Avenue.

Get our Figures before buying Glass. Estimates Freely Given

When Writing Mention Florists' Exchange

**CALIFORNIA RED CEDAR**  
Never Decays.  
A. DIETSCH & CO. 619 Sheffield Avenue, CHICAGO.  
MANUFACTURERS OF RED CEDAR AND CYPRESS GREENHOUSE MATERIAL.

When Writing Mention Florists' Exchange



**THE VAN REYPER PERFECT GLAZIERS' POINTS**

No rights or lefts. Price per box of 1000, 60c, by mail, 75c; in lots of 5000 by ex., 55c. per 1000

HENRY A. DREER, 714 Chestnut St., Phila., Pa.

When Writing Mention Florists' Exchange

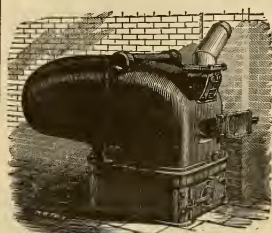
SEND FOR OUR NEW CATALOGUE, WHICH SHOWS  
**The New Automatic Cable Ventilator**  
As it is put up in the house complete. We also give you pieces with a guarantee that each machine sent out will operate your house successfully. Soil machines now made in two sizes.  
**A. & WOLF & BRO., Dayton, Ohio.**

When Writing Mention Florists' Exchange

**TRADE GREENHOUSES.**  
THE BEST MADE.

"Florists" Get Your Plans and Estimate from  
**PLENTY'S HORTICULTURAL WORKS,**  
148-156 Randolph Ave., JERSEY CITY, N. J.  
When Writing Mention Florists' Exchange

**GREENHOUSE HEATING AND VENTILATING,**  
Horticultural Architecture and Building.



**Hitchings & Co**

ESTABLISHED 1844.  
233 Mercer Street, NEW YORK.

**FIVE PATTERNS OF BOILERS, NINETEEN SIZES,**

Perfect Sash Raising Apparatus. Rosehouses, Greenhouses, Etc., of Iron Frame Construction erected complete or the Structural Iron Work shipped ready for erection. Iron Frame Benches with the "Perfect Drainage Bench Tile" at Site Type.

SEND 4c. POSTAGE FOR ILLUSTRATED CATALOGUE.

**STANDARD VENTILATING MACHINE.**

NONE EQUAL IT IN Strength AND Durability



NOTHING Flimsy OR Complicated about it.

E. HIPPARD, YOUNGSTOWN, OHIO

When Writing Mention Florists' Exchange

**ECONOMICAL GREENHOUSE HEATING, Low Cost Greenhouse BUILDING**

**HENRY W. GIBBONS,**  
Heating Engineer and Greenhouse Architect.

136 LIBERTY STREET, NEW YORK.

**EXPERT ADVICE** on all matters pertaining to the Design, Construction and Equipment of greenhouses. Greenhouse Plans prepared. Heating and Ventilating Apparatus and Building Materials furnished.  
**DON'T SYRINGE WITH COLD WATER** on plants. It injures the vitality of stock as it invites Mildew and other diseases—but write for information as to best means to **TEMPER THE WATER**

When Writing Mention Florists' Exchange

**MASTICA**

FOR GLAZING GREENHOUSES. SUPERIOR TO PUTTY IN EVERY WAY.

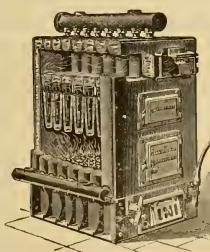
Is not hardened by the extreme heat or cold that a greenhouse is constantly subjected to both inside and out. Mastica is adhesive and remains permanently elastic so that it is not forced out of place by expansion and contraction of the wood work. It does not crack with frost. It does not rot. It is not washed out by rain. It is not injured by insects and other enemies. With Mastica on "bedding" or use on the outside, but with a machine only.

Highest Award of Society of American Florists at Pittsburg, 1895. Put up in gallons, \$1.00. Half gallons, 60c. Quarter gallons, 35c. etc.

Mastical Glazing Machines, \$1.00 each.

Send for full descriptive circular and testimonials. Agents in all the principal cities.  
**F. O. PIERCE CO., Sole Manufacturers, 170 Fulton St., New York.**

When Writing Mention Florists' Exchange



**ATTENTION, FLORISTS!**

It will be to your advantage to look into the merits of the Scollay "Invincible" Hot Water Bailer.

It is all that its name implies, and don't forget it.

Cuts and full information mailed on application.

**JOHN A. SCOLLAY,**  
74 & 76 MYRTLE AVE.,  
**BROOKLYN, NEW YORK.**  
When Writing Mention Florists' Exchange





# LARGEST AND BEST STOCK OF PREPARED CYCAS LEAVES

TO BE FOUND ANYWHERE  
Metal Floral Designs, Sheaves, Doves, Baskets, Moss Wreaths, Wheat, Milkweeds  
Cape Flowers, Wire Work, and all Florists' Supplies.  
Write for catalogue. Free to the trade.

**A. HERRMANN, 404-412 East 43rd Street (Near Ferry), New York,**  
Manufacturer of METAL FLORAL DESIGNS, Importer and Dealer in FLORISTS' SUPPLIES.  
When Writing Mention Florists' Exchange

**DO NOT BE HUMBUGGED**  
Use GENUINE **GREEN SILKALINE**  
Infections of our



Contains more cord and does more work than anything else on the market. The original and only SILKALINE made only by **JOHN C. WEAVER & CO.**, 87 Summer Street, BOSTON, MASS., U. S. A.  
When Writing Mention Florists' Exchange

## DEATH TO THE INSECTS HARMLESS TO THE PLANTS.

THE KENTUCKY EXTRACT CO'S

Extract of Tobacco containing the highest percentage of nicotine and is produced

**KILL IT SURE**

As an insecticide for quick destruction of the Aphid cannot be exceeded for sale by the leading

**THE KENTUCKY EXTRACT CO. Columbus, O.**  
SOLE MANUFACTURERS.  
Book of Directions Sent Upon Application.  
When Writing Mention Florists' Exchange

**DRACENA SANDERIANA** Floor plants, 10 to 15 in. \$1.00 per doz.  
**SMILAX** Strong bushy plants, 2 1/2 inch pot, \$1.00 per 100.  
**CLEMATIS** Latest flowering varieties. Orders placed only by **JOHN C. WEAVER & CO.**, 87 Summer Street, BOSTON, MASS., U. S. A.  
**C. EISELE, 17th and Jefferson Streets, Philadelphia, Pa.**  
 When Writing Mention Florists' Exchange

## Standard Flower Pots.

Sent for our New Price List with extra discounts. All our Pots, from 7 in. and upwards, have Patent Excelsior Bottom, which is a great advantage, as it insures perfect drainage.  
A FULL LINE OF BIRD FANN.  
**THE WHILDIN POTTERY CO., 713 to 719 Wharton Street, PHILADELPHIA**  
BRANCH HOUSES: 1700 and West 4th Ave., Jersey City, N. J.; Jackson Ave. and Pearson St., Long Island City, N. Y.  
When Writing Mention Florists' Exchange

## Florists' Supplies.

Largest Stock in the Country.  
All goods up to date, and of superior quality.  
Send for Illustrated Catalogue.  
**H. BAYERSDORFER & CO., PHILADELPHIA, PA.**  
56 N. FOURTH STREET,  
When Writing Mention Florists' Exchange

**Emil Steffens** SUCCESSOR TO N. STEFFENS  
Manufacturer of **WIRE DESIGNS**  
ESTABLISHED 1860  
- AND SUPPLIES -  
335 EAST 21<sup>ST</sup> STREET, NEW YORK CITY.  
When Writing Mention Florists' Exchange

## Wire Designs, Wire Designs, Wire Designs. CHEAP! CHEAPER!! CHEAPEST!!!

The Klondike and Alaska outdome. Have you seen it? Do you want it? You need it. All progressive Florists refer to it. Will be out of October.  
**JAS. GRIFFITH'S LATEST CATALOGUE AND HARD TIMES DESIGN LIST.**  
Lowest prices ever quoted. FREE! FREE! Send for it. Reserve your orders until you consult it. Sent at once before they are gone.  
To **JAMES GRIFFITH, W. Designer,** 701 Main Street, CINCINNATI, OHIO.  
When Writing Mention Florists' Exchange

**HAMMOND'S SLUG-SHOT**  
I SLAY BUGS  
INSECTICIDE & FUNGICIDE

**Hammond's Paint and Slug Shot Works.**

PAINTS, GLASS, PUTTIES, OILS, ETC.  
ECONOMIC INSECTICIDES and FUNGICIDES,  
AGRICULTURAL CHEMICALS and BONE.

**B. HAMMOND, FISHKILL on HUDSON, N. Y.**  
When Writing Mention Florists' Exchange

# A FORTUNE IN STRAWBERRIES!

The Strawberry King and his Remarkably Successful Career.  
HOW A POOR BOY BECAME WEALTHY.

Through one of those strange dispensations which often mock in real life the wildest imagination of the novelist, the publishers of AMERICAN GARDENING have become possessors of the story of the life and cultural methods of Henry Jerolam, undoubtedly the

**STRAWBERRY KING OF THE UNITED STATES.**  
Mr. Jerolam has agreed to write his life history and the full description of his cultural methods, exclusively for the readers of AMERICAN GARDENING. Further than this and at our solicitation he has made a contract to supply us One hundred thousand plants of the Henry Strawberry, which we will give away as premiums to subscribers to AMERICAN GARDENING.

**THE GRANDEST BERRY OF THE AGE!**  
Four berries of the Henry, grown by Mr. Jerolam, rounded a wooden quart measure. Individual berries were three and a-half inches through each way. Specimens will be exhibited, preserved in formalin, at Waverly (N. J.) Fair next week. Mr. Jerolam's description of the value and virtues of this wonderful variety in a recent issue of AMERICAN GARDENING has brought him hundreds of inquiries from the cream of the professional growers.

**A Gold Mine at Your Own Door.**  
More than one strawberry grower in every town, village and hamlet can come into a good thing through practicing the cultural methods and getting some of the plants which have made Mr. Jerolam not only wealthy and well-known, but so wonderfully successful, by at once

**TAKING ADVANTAGE OF THIS OFFER:**  
We will send you AMERICAN GARDENING, one year, and FIVE HENRY STRAWBERRY PLANTS, BY MAIL, FOR \$1.00. Plants will be shipped now or in the Spring, as you prefer.

Mr. Jerolam's story will be found in the first issues mailed you and his cultural methods will be published in time to be of service for Fall planting. "He who hesitates is lost." It is not likely that such an offer or such an opportunity will occur again in years, therefore hand us your name to-day. Present subscribers to AMERICAN GARDENING are entitled to this offer on renewal; if their subscription has not yet expired it will be dated ahead.

N. B.—Subscribers to Florists' Exchange wishing to know full terms for procuring subscriptions to AMERICAN GARDENING under this offer, posters, with full life-sized illustrations, etc., are invited to write us without a moment's delay, for the remaining season is short. Address Publishers AMERICAN GARDENING, P. O. Box 1697, New York.

**MANURE.**  
Fresh and well rotted horse manure. Manure for market growing a specialty. Excellent for all crops. Full life-sized illustrations, etc., are invited to write us without a moment's delay, for the remaining season is short. Address Publishers AMERICAN GARDENING, P. O. Box 1697, New York.

**THE BEST FOR ALL Florists.**  
ROSE LEAF EXTRACT OF TOBACCO INSECTICIDE  
For Free Pamphlet, write to: LOUISVILLE TOBACCO CO. Louisville, Ky.  
When Writing Mention Florists' Exchange

**WELCH BROTHERS, DEALERS IN FLORISTS' SUPPLIES.**  
15 Front Street, BOSTON.  
Wire Designs, Wheat Sheaves, Baskets, Immortelles, Cape Flowers, Cut Flowers, Boxes, and all other supplies, in prices so most competitive.  
When Writing Mention Florists' Exchange

**GOLD FISH.**  
Fine Healthy Stock.  
Medium to large size, \$10.00 per 100. Cash with order. No charge for shipping cases. Gold Fish can be shipped by Express through all cities with such ease as are profitable and attractive stock to handle.  
Full Size of Aquarium Supplies.  
**KEENAN'S SEED STORE,** 6112 and 6114 Wentworth Ave., CHICAGO.  
When Writing Mention Florists' Exchange

**Boston Florist Letter Co.**  
The most complete and up-to-date letter press in the world.  
When Writing Mention Florists' Exchange

**W. F. McCARTHY, Trees & Planter.**  
125 W. BOSTON, MASS.  
When Writing Mention Florists' Exchange





SEEK TRADE REPORT.

Points and information from seedsmen, and all interested in the course selected. Address Editor Seed Trade, care of Florists' Exchange, P. O. Box 200, New York.

New York.—Business, generally speaking, is fairly satisfactory. Bull trade so far is good; in connection with this a strange time having the past week, viz., Dutch and French bulbs came in at the same time, owing to the Dutch stock being very light and the first arrivals to arrive. All Dutch stock is unusually good in quality; the bulbs are well ripened, good color, and a fine size.

Walter J. Knight, of Newark, N. J., was, on August 31, appointed receiver for the E. E. McAllister Co., by Judge Stone of the Supreme Court, on the application of Elie B. Walter. We understand the appointment is to be continued.

Stonx City, Ia.—A temporary injunction has been issued restraining Receiver Jonathan W. Brown from operating the Stonx City Nursery and Seed Company, a portion of which he recently purchased at receiver's sale, in order to protect the rights of the stockholders. The hearing on the permanent injunction will come up at the next term of court.

Grand Rapids, Mich.—The Allied J. Brown Seed Company has been reorganized and managed by Alfred Brown, Sully B. Brown, Henry Idean, and James H. Wyie, who have filed articles of association for the purchase, sale, and preparation of seeds, grain, fruits, and produce, and the sale of implements and tools of all kinds. The capital stock is \$10,000, of which \$8,000 has already been paid in.

European Notes.

Weather Conditions.

We are once more laboring under somewhat unfavorable conditions in western Europe so far as the work of the weather is concerned, but as it applies to our plants for 1898 crops, the rains we now share with our eastern brethren are of assistance for these are not expected at present of any long-continued rains, and as a good slice of bright dry weather has intervened since the storms, the present conditions are more troublesome than destructive.

France—A Crop.

In the south of France most of the crops have already been secured, and the safety of those still in the field is practically assured. The following report fully summarizes the situation in that district, and fully corroborates the information already conveyed in these notes.

Beet and mangel, very little planted. Vegetation field, crop only mediocre.

Celery, more planted than last year, crop mediocre.

Celery, endive, and tomato crops satisfactory.

Letuce, middling to good on the whole, where the plants have not tumbled.

Cabbage and savoy, almost nothing planted, crops very ordinary.

Leaf-letuce insignificant this season.

Onion, where the plants were not attacked by mildew there is a middling crop; in places where extra good ones have survived, in the districts outside the service of the canal, the plants were badly given up by blight and hot dry winds. When it is remembered that seed growers, the principal industry of the district, are not so very profitable to the growers, as we perceive the report of the unfortunate region.

Lucerne has done well in Provence, but in the department of Vaucluse it is feeble.

Flower seeds, about the usual quantity has been planted, and the growth of the crop has been fairly good.

Very little rain has fallen in this district during the past eighteen months, and but for the irrigation with any crops would not have survived; in the districts outside the service of the canal, the plants were badly given up by blight and hot dry winds. When it is remembered that seed growers, the principal industry of the district, are not so very profitable to the growers, as we perceive the report of the unfortunate region.

The Market.

In market seeds the principal features are a brisk demand for tares which is very welcome. Rape is still higher and the price is very firm. It is evident that the crop is a small one, for now that the

price is remunerative to the grower, and the demand brisk, any stocks on hand or available would certainly be forthcoming. Chinese clover has made an upward move at last, but the lack of orders from your article has knocked it down again.

EUROPEAN SEEDS.

California Seeds.

Now that harvesting is at its height something can be said about this season's crops. The weather in general has been good throughout the summer, and it has made the crops come slowly and unevenly.

Onion Seed.

Every grower of onion seed is being made to push the onion crop; it is nearly all on the drying sheets and thrashing has begun. However, it is not an anxious seat, while this crop is still outside, for sometimes an early shower does a good deal of damage. While the onion crop is not heavy this year, the seed will be of good quality; the prospects for a crop the first part of next season are small, yet it turned out better than expected; some pieces were again affected by the mildew, but owing to the drying season, and the consequence is that the heads are only filled on one side; one side of the onion is better than the other, and the probability is that some contracts will be filled a trifle short. The prospects for the next season are more easily affected. Yellow onion came through fairly well.

The prospects for higher prices for the growers next season are very encouraging; very few growers have any contracts for the coming season and those growers who let out contracts for the bulbs will only get half a crop. Onions are now quoted at a dollar a sack in the market and at this price it does not pay to buy and grow.

Letuce and Carrots.

Letuce has turned out well; although it ripened very unevenly, it was harvested in good shape. The reddish seed crop is now out and is only an ordinary yield. Carrot, so far, looks very good; the same can be said of leeks and cauliflower.

Tomato.

This crop is still unsettled; the weather has been so unsettled that it is difficult to think to have done. The vines are of fruitful growth and full of bloom, but the fruit is not yet set. Melons are in the same condition.

Flour-N Seeds.

As predicted, sweet peas did not turn out so well as the leading variety, the lightest in several years, and the volunteer stands which got an unusually early start, did not yield very well. Bekford's latest set will yield half a crop, and Lady Nina Balfour which germinated so poorly will not be put on the market at all, but will all be used as stock seed for next year's growing. Pink Cupid promises to be the leading variety next year; its growth is exactly like Cupid and the quality of the seed as good as that of the Bicolor variety.

Asters are now in full bloom and a fine sight they are. Some seem to be better with a reputation for aster seed as if they had a good deal of the character of the flower; they are as large as Simple's, but on the contrary, slender; the petals are very narrow and long, and the flowers look exactly like a chrysanthemum; this strain has been developed in several colors.

Nasturtiums are again short, as are the nasturtium flowers. The variety which was are now going to seed; the crop will be very good; Burpee's Mammoth Fordhook nasturtium is the best for seed, or a mixture. Japanese Morning Glory is in full bloom, but as yet there is no seed. Early cosmos is just getting into bloom.

CALIFORNIA SEEDS.

American Dahlia Society. The schedule of prizes offered by this Society for their second annual exhibition, to be held at the Fairgrounds of the Pennsylvania Horticultural Society, has just been published. The exhibition will be a double one, as the prizes to be awarded have been divided into two classes, the first—commercial—open to all amateurs only. The awards are confined to bronze medals and certificates. The prizes to be awarded, however, many, and it is hoped, will contribute special prizes. For schedules, etc., apply to the Secretary, 4827 Main street, Germantown, Philadelphia, Pa.

POPPED STRAWBERRY PLANTS

800 plants of Glen Wild, Blenheim, Chermone, Marshall, Marj Brandtine, Michigan, Grenville Arome, Humbrel, Sander Wood, Busch, Charles Downie, Lovett's Early, Grand, Cumberland, Presler's Early, Sander Wood, Harwood, Mack's Early, Sharpes, Tennessee, Florida Woodley, etc., and many other varieties. Price given on application.

THE ELIZABETH NURSERY COMPANY, Elizabeth, N. J. When Writing Mention Florists' Exchange

Write at Once CORNELIUS S. LOOER, Secretary, NATIONAL FLORISTS' BOARD OF TRADE, Regarding Collections, Credits, Etc. 271 Broadway, N.Y. When Writing Mention Florists' Exchange

PANSY Giant Triumphant, mixed trade pkt., 10's; Giant Yellow, 15's; Casier, Bigutt, Parisian, etc. 187 Broome-st., trade pkt., 20's. Wm. HENRI B'AUILLIE, Woodhams, Belmont Ave., N.Y. When Writing Mention Florists' Exchange

Palm Seeds From the celebrated nurseries of HAY & SON, Auckland, New Zealand. ARECA BAHRN Immediate delivery. HENTIA BAHREMA, scientific delivery. E. H. PATTERSON, Sole Agt. for U. S. A. 204 Pearl Street, NEW YORK CITY. When Writing Mention Florists' Exchange

HOME GOWN BULBS FOR SALE. Correspondence solicited from those who are in, or contemplate a going into bulb growing in the South.

MISSIS WILSON - Mildred St., Montgomery, Ala. When Writing Mention Florists' Exchange

Cala Bulbs We have facilities and direct connections with growers of these bulbs in California by which we secure stock at the lowest cost and healthy. For these prices we give

EXTRA GOOD VALUE. 100 FIRST SIZE, 1 1/4 to 1 1/2 in diameter, ..... \$6.00 SECT, "100 1 1/4 to 1 1/2 in diameter, ..... \$4.00 100 SELECT, "about 2 to 2 1/2 in diam. .... \$2.00

VAUGHAN'S SEED STORE 84 & 86 Randolph St., Chicago. 14 Barclay Street, New York. When Writing Mention Florists' Exchange

WINTZER'S NEW PEDIGREE CANNAS.

PHILADELPHIA, the finest crimson. MAIDEN'S BLUSH, color of Daubrek Carnation. ALSACE, nearest pure white, and many other choice new kinds of our own introduction. Write for Special Catalogue. THE CONARD & SONS CO., WEST GROVE, PA. When Writing Mention Florists' Exchange

H. P. Roses, Clematis, \* \* \*

\* \* \* Rhododendrons, Magnolias, and all other kinds of Nursery Stock. Buy direct from the producers, at rock bottom prices.

L. C. LOWBINK, Agent for the Horticultural Co., Boskoop, Holland. P. O. Address RUTHERFORD, N. J. When Writing Mention Florists' Exchange

ORNAMENTAL TREES AND SHRUBS.

Roses, Bulbs and Hardy Perennials In Large Assortment and of Superior Quality. Fully believe that we can show more Ornamental Trees and Shrubs, and a larger, finer block of Hardy Roses, Hybrid Perpetual Moss and Climbers of the leading popular varieties including the famous Crimson Rambler than can be seen elsewhere. We have 32 greenhouses, several of them devoted to Palms, Cycas, Ficus and Araucaria Xcelsa. Personal inspection and correspondence solicited. Catalogue free. THE STORRS & HARRISON CO., Box 6 Painesville, O. When Writing Mention Florists' Exchange





**Work on some Problems in Violet Culture.**

BY R. T. GALLOWAY.

For several years the writer has been engaged upon a number of lines of work bearing on the cultivation of plants under glass. This work has been carried on in the principal objects in view, viz. (1) to gratify a love for plants, and (2) to obtain practical knowledge of our knowledge of some of the fundamental principles underlying their growth. The ever, were considered incidental and of other duties and has for the most part been done in a private way. This was necessary as many of the problems were of such a nature that it was not practicable to undertake them in any other manner. Since the beginning of the work the writer has been constantly aided by Mr. P. H. Dorsett, who has shared in both the expense and the labor involved. Much of the latter might have seemed unnecessary to the casual observer, but as facts were wanted and as they could not be obtained except by work, the work was done. Thus, we have constructed and reconstructed our houses to suit the needs in view; have made and re-made the heating apparatus, and have changed the arrangements for watering, spraying and feeding so many times that the original plans have in most cases entirely disappeared. Dotted glass and enameled glass and glass with putty and without putty have been used; soil boxes have been made and discarded; heating by water under pressure has been tried in competition with other systems; and there has been overheat and under-heat heating. All these matters, however, were considered incidental and formed little or no part of the serious work, but nevertheless many interesting points have been brought out and it is hoped that some time they may be fully discussed.

The present notes, which have been prepared at the request of the editor of the EXCHANGE, will deal with other problems and are intended more in the nature of a brief description of work under way than a statement of results. Results in such matters cannot be obtained in a year, in fact it may be ten years or longer before some of the questions involved can be satisfactorily answered. An account of some of the earlier work has already appeared, hence, it is not necessary to discuss it here. At this time we propose to speak of the violet, hav-

ing given it more attention than any other crop.

The work on the violet, now carried on in several years, has had for its object the elucidation of several problems, some of which are as follows: (1) to determine, if possible, the more important diseases affecting the crop, the nature of these diseases, their characteristic symptoms, and the best means of holding them in check. (2) to determine the physical and chemical characters of the soil best adapted to the crop. (3) to determine the best methods of feeding the plants. (4) to determine how far the plant might be improved in the number, size and color of the flowers; in general vigor and habit of the plant, in its flowering, by careful selection, propagation and culture.

Any one at all familiar with this crop will see and understand at once that the problems set down for investigation are not without difficulties. Perhaps no subject has been more discussed in horticultural journals during the past ten or twelve years than the so-called violet disease. The most varied opinions have been given, and up to the present time the literature, if condensed and sifted, would be found to be a chaotic mass of contradictions. However, in the light of the facts which have accumulated during the past few years in growing the crop, it does not appear strange to the writer that there have been so many conflicting statements.

The violet so behaves alike any two seasons. Some years certain methods may be followed, and the plants will be satisfactorily free from disease and again the same, or as nearly the same, conditions as possible may be furnished and nearly every plant may be set, growing the crop successfully, therefore, has come to be looked upon in many localities largely as a matter of luck. This might seem to be the case where effects only are considered, but where causes are carefully studied from year to year the true nature of many of the difficulties become apparent. It is matters of this kind that emphasize the necessity of knowing thoroughly every phase in the growth of the plant. This knowledge can be gained only in one way and that is by actually growing the plant and watching its behavior under the varying conditions which surround it and which influence its every vital function.

From the studies which have been conducted it is concluded that instead of one disease, as seems to be the general opinion, there are at least two or three; in fact, the evidence at hand is sufficient to warrant the statement that

the maximum yields of flowers considered with economy and health, is an important problem and has received considerable attention. The work in the main consisted of plant tests of various foods, singly and in combination (Fig. 1). Two general methods have been followed, (1) the incorporation of the desired food with the soil at the time of planting the crop, and (2) feeding from time to time as growth progressed, and in accordance with the sowing requirements of the crop. The first method involved a consideration of proper apparatus for applying the liquids economi-



FIG. 2.—Bed of Pedigree Plants.

The bed contained 425 plants and yielded for the season 3,470 flowers, or an average of 8.2 to the plant.

widening area, and although the changes may not be apparent to the naked eye, they are sufficient to enable the scrubland and by its comparatively rapid work, a spot of dead tissue is the result. Thus we have the apple puncture, the absorption of water, and the fungus to absorb, and in addition to this, the reaction of the plant to the constantly changing conditions which surround it.

In the work on soils many complicated questions must be considered, but after all this matter grows less complex the more skillful the grower becomes, in handling his plants and knowing just what to do and when to do it. Such practical questions, however, and the effects of different depths of soil, the value of benches and solid beds, the effects of different methods of drainage, the effects of subirrigation, the effects of continued cropping on the same soil, sterilizing the soil, etc., have been considered just as every grower would have to consider similar matters in order to find what is best for his own particular needs. The work has, of course, developed some interesting facts, but they will be applicable only in a general way other localities where conditions are different.

Subirrigation has been considered seriously, or the writer has always looked upon this process as of more value to the amateur than to the professional grower of plants. Sterilization of the soil by steam has been investigated to determine its effects on the growth of the plant as regards health and disease, and also to determine if the work could be made practicable on a large scale.

How to feed the plants in order to get

ally and expeditiously, warming the water, and other matters.

By far the most important line of work considered is that having for its object the improvement of the plants by systematic selection, careful propagation, and good culture (Fig. 2). For twenty-five years or more the Marie Louise violet has been the principal variety grown, and flowers to-day, when of good color and size, will sell in preference to all others. We are firmly convinced that much of the trouble now experienced in growing this variety is the direct result of the methods of propagation and culture practiced for many years. Like all other plants, the violet is constantly showing a tendency to vary. No two plants, in the strict sense of the word, are ever exactly alike, and while the differences themselves may be so small as to be unnoticeable, these differences eventually become markedly apparent. If a careful study be made of a hundred or a thousand plants, there will be found marked differences as regards size and general vigor of growth, resistance to disease, number of flowers produced, color of flowers, length of flowers, etc. In the case of plants, and most flowers are produced, etc. Thus, in the matter of yield, the following figures, selected at random from several hundred plants, show how strikingly the plants vary.

It will be seen that of the ten plants given, the yield varies from 62 to 126 flowers each. When we first commenced our work of selection, there were many plants that did not yield over 60 flowers, the average being about 50, taking everything in the houses. The average here is 88 flowers per plant, and there is

FIG. 1.—Plant Experiments with Fertilizers for Violets.

On the right, at the end, Albert's Horizontal Manure; on the left, at the end, no fertilizer. All the plants fertilized with Albert's Horizontal Manure, applied as recommended in the published circulars, eventually died. (Photographed July 9, 1895.)

there are no less than eight diseases, each of which is characterized by more or less distinct symptoms. The diseases in the order of their general distribution are as follows: (1) spot; (2) wilt, or stem rot; (3) blight, or stuntedness; (4) leaf falling, or withering; (5) wart disease, or Edema; (6) leaf yellowing; (7) crown rot; and (8) root galls, or nematodes. It is not our purpose, to enter upon any detailed account of the diseases here, it being sufficient at this time to simply call attention to them, in order that the gene-

TABLE I.—YIELD OF FLOWERS FROM PEDIGREE PLANTS.

No. of Plant.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	April.	Total Yield.
1	8	10	8	8	14	22	6	76
2	11	7	3	2	2	2	2	100
3	4	1	3	9	18	10	17	94
4	5	9	5	8	12	29	3	73
5	6	10	10	10	10	10	10	76
6	5	9	3	5	11	16	13	63
7	5	24	7	14	8	35	3	96
8	5	18	11	11	11	11	11	104
9	5	10	7	10	14	37	21	104
10	11	9	3	11	19	19	15	87
Average total								88

\*The growth of lettuce as affected by the physical properties of the soil (Agricultural Science, Vol. VII, 1894). The growth of radishes as influenced by the soil (Agricultural Science, Vol. VII, 1894). Commercial lettuce forcing (American Gardener, April, 1895). and radish growing under glass (American Gardener, September 30, 1895).







**CARNATIONS.**

**Peculiarities of some Varieties.**

When hosing your carnations do not forget to hose the soil. It will be better than others in positions which are well lighted. No carnation can receive too much water, but it is better not to water it there are some that can get along with less light than others, and since in the case of most of the carnations are better lighted than others, those varieties which have shown themselves very particular to soil and light are the best situations. All varieties which have a tendency to open very slowly or poorly, during hot weather, should be watered to be easy prey to bacterial and fungous diseases. Among these may be classed the following: Facke John, Eldorado, McEwan, and Alaska, Fenchlow, Helen Keller, etc. Observation will soon point out such kinds as are not properly placed, and the wide-awake grower will have made notes of the same from past experience, which will enable him to place his plants intelligently and know just what he is doing.

The varieties enumerated above might be divided into two classes, which are: one which are very susceptible to bacterial and fungous diseases; second, those which are healthy but very early in midwinter. Of the former Facke John is probably the best illustration; its extreme susceptibility to water bacteria is very well known, but when handled properly it is by far the freest blooming of all the carnations. The latter variety, purposing even Scott in this respect; the latter, however, is more productive during summer.

Della Fox seems to have developed a carnation from a single stem (pre-proprietary or misbranding may have had something to do with this). I feel confident however, that it can be grown out of its present trouble, and that it will prove a standard variety. The fragrance is rich and when well broken, the color is a pleasing shade of salmon-pink, several shades darker than Baybreak. It is also entirely in the color common to its last winter. I believe, was entirely due to the very severe attack of the rust disease. In fact, if better cultivation, it will doubtless be more popular the coming winter.

It is very susceptible to rust, and since light and air are essentials in combating rust, it should have a light position. It is also affected to an extent by the disease peculiar to Battenberg, which is undoubtedly a form of stem rot. The disease can be kept to a considerable extent, but which indoor culture reduces to a minimum. The case of Facke John is also similar, do not differ materially, in the fact that all of them require the lightest position possible. Their worst fault lies in not opening well during midwinter. The new variety is also affected to an extent at that time, and then as the days lengthen, come all right again, as is abundantly evident. A lack of light is the cause of the trouble.

Fenchlow differs somewhat from the others in that it is liable to produce after about January 1; but during the Fall and early Winter it is remarkably free flowering, while the color is superior to any pink carnation extant.

The poor blooming qualities of Helen Keller reported by us during midwinter, and in fact, by many throughout the Winter, and it seems to differ considerably in its behavior, as the plants get well out of the calyx, and in most cases never expand. The petals seem to have been deprived of their substance, as the leaf is quite limp and wilted. This is, perhaps, partly constitutional, and undoubtedly the same trouble which affects Calcege; yet I believe the stagnation which appears to take place in the stems is largely brought about by injudicious culture.

In the case of Keller I believe that a lack of light and poor drainage are the principal causes of its going to sleep. To me it seems that I have had more experience even with this variety several years ago. We had planted a side bench in the same place as the one in which Helen Keller stands north and south and is not so well lighted as the others. The bench contained about 300 plants. The bottom was made of boards 60 wide to admit of perfect drainage, although with care taking other varieties did very well. It was not so with Keller, however. Imperfect drainage caused impaired root action, which could only result in stagg-

nation to the plant, and, as a consequence, fully 70 per cent. of the flowers went to sleep.

As I said, other varieties did very well here since careful watering would tide them over, but since Helen Keller was constitutionally weak and naturally inclined to produce shaly flowers, the effect of imperfect drainage coupled with a lack of light can readily be imagined. Such then we have grown Keller on a smaller scale, and always in a light house on well-drained, narrow benches, and with much better results.

Daybreak and Meteor are good examples of varieties which do not require so much light as most others, and which also need a cooler temperature. Daybreak will grow better in a poorly lighted house than any other variety. The grower must study these points so that he can home and group his plants intelligently and systematically. Any other method will fail to produce the most satisfactory results.

H. WEBER & SONS,  
**CARNATIONS**  
OAKLAND, MD.  
When Writing Mention Florists' Exchange

**Harrison's White**  
CARNATION.  
New Carnation, sport from Wm. Scott.  
**JOHN HARRISON,**  
739 Bergen Ave., Jersey City, N. J.  
When Writing Mention Florists' Exchange

GRALLERT & CO.  
CARNATION GROWERS.  
COLMA, SAN MATEO CAL.  
When Writing Mention Florists' Exchange

**FIELD-GROWN CARNATIONS**  
and **VIOLETS**.  
When Writing Mention Florists' Exchange

**JOSEPH REMOND, Unionville, Chester Pa.**  
When Writing Mention Florists' Exchange

**CARNATIONS**  
**F. DORNER & SONS CO.,**  
La Fayette, Ind.  
When Writing Mention Florists' Exchange

**ROSES, CARNATIONS.**  
I still have a nice lot of Bride and Bridehead Roses, 3 inch pots, \$4.00 per 100. Will have the finest lot of Bride-rose, 2 1/2 inch pots, \$3.00 per 100. (Sole-rosary delivery). Write your wants and get a low price for your orders. Will also have a large lot of best stock of PRINCE OF WALES VIOLETS.  
**GEO. M. EMMANS, Newton, N. J.**  
When Writing Mention Florists' Exchange

**CARNATIONS!**  
**Scott, & Helen Keller, McEwan** and **John Keller**, \$5.00 per 100.  
CASH WITH ORDER.  
**E. FRYER,**  
Berrian St. and New Lots Ave., BROOKLYN, N. Y.  
When Writing Mention Florists' Exchange

Would Sell the Earth.  
I believe that an ad. in your paper would sell the earth.  
O. BUMFIELD.  
Dry Center, March 23, '97.

**BUSHY FIELD-GROWN CARNATIONS**  
Write your orders here. Send for prices.  
**GEO. HANCOCK & SON, Grand Haven, Mich.**  
When Writing Mention Florists' Exchange

**FIELD-GROWN CARNATIONS.**  
**STRONG, HEALTHY PLANTS, NOW READY.**  
**McEwan**, No. 1, \$1.00 per 100; No. 2, \$1.25 per 100; No. 3, \$1.50 per 100; No. 4, \$1.75 per 100.  
**Portia**, No. 1, \$1.00 per 100; No. 2, \$1.25 per 100; No. 3, \$1.50 per 100; No. 4, \$1.75 per 100.  
Order early and secure assured healthy plants.  
**Address CHAS. BLAIR, Highgate, Mass.**  
When Writing Mention Florists' Exchange

**FIELD-GROWN CARNATIONS**  
5000 McEwan, \$5.00 per 100.  
5000 Jahn Bros., \$5.00 per 100.

**5000 ROOTED GERANIUMS**  
La Favorite and Double Grant, \$4.00 per 100.  
**JAHN BROS., New Bedford, Mass.**  
When Writing Mention Florists' Exchange

**CARNATIONS, FERNS,**  
and **VIOLETS & SMILAX.**  
**Portia, Scott and McEwan**, lot quality \$3.00 per 100; \$3.50 per 100; 2nd quality, \$4.00 per 100; \$4.50 per 100.  
**Daybreak**, lot quality, \$5.00 per 100; \$5.00 per 10 and quality, \$5.00 per 100; \$5.00 per 100.  
**Adelma's Cucumber**, 2 in. pots, \$3.00 per 10; \$3.00 per 10; \$3.00 per 10.  
**Ferns**, in assortment, 2 in. pots, \$3.00 per 100.  
**Marie Louise Violets**, 3 in. pots, \$3.00 per 100; \$5.00 per 100.  
**Smilax**, 2 in. pots, \$1.50 per 10; \$3.00 per 100.  
**THE BOO! FLORAL CO.,** Ithaca, N. Y.  
When Writing Mention Florists' Exchange

**50,000 FIELD-GROWN CARNATIONS**  
Strong and healthy plants in quantity now ready for delivery, of the following sorts: William Scott, Rose Queen, Tinal Wave, Albertini, Daybreak, Mrs. Thomson, Nancy Hanks, Parfitt, Lizette Gilbert, Corbett, Lizzie Johnson, Silver Spray, Ivory King and Ivory. Price, per 100, \$3.00; per 100, \$3.00. No order for less than 100 accepted. Address  
**REINBERG BROS., Wholesale Cut Flowers, 51 Wabash Ave., Chicago, Ill.**  
When Writing Mention Florists' Exchange

**4 ACRES FIELD-GROWN CARNATION PLANTS, 94,000.**  
Our Carnations are grown with the greatest care. Free from disease and packed tight in our improved system of packing by which we can send them to all parts of the United States and Canada in perfect condition.  
**CRIMSON SPORT, IVORY, JUIEZE, DEAN HOLE, BUTTERCUP**, \$3.50 per 100; \$4.00, \$5.00 per 100.  
**BRIDE-SMAID, METEOR, GREATER PRIDE, ALBERTINI, CARLETON KILL, BRIDE OF ERIE-COURT, DAYBREAK, STORM KING**, \$1.25 per 100; \$1.50 per 100.  
**SWETHIRIER, LAZZIE MCGOWAN, LIZETTE, CAR NEGEE, L. L. LAMBORN**, \$1.00 per 100; \$1.00 per 100.  
**SILVER SPRAY, PORTIA, GRACE WILDER, PRITAN, WH. SCOTT, DEAN WAVE, ROSALIND**, \$1.00 per 100; \$1.00 per 100.  
**J. L. DILLON,** - - - **BLOOMSBURG, PA.**  
When Writing Mention Florists' Exchange

**NOW WE HAVE IT.**  
**A PERFECT CARNATION SUPPORT**  
We will send you free if you pay express charges, a sample which will convince you that it is all we claim.  
The only Carnation Support **RECOGNIZED** by the Judges of the S. A. F. Convention, at Providence, R. I., Aug. 16, 1897.  
**JAMES HORAN & SON,** Florists,  
Bridgeport, Conn.  
When Writing Mention Florists' Exchange

**CARNATION STAKE!**  
THIS STAKE is made of one piece of wire, No. 12, galvanized and neatly packed in bunches of 50, for the field or on benches. It is easily inserted and about, more quickly applied than anything we know of. Sample 10¢. Write for prices on large quantities.  
Will exchange for cut & McGowan plants.  
**MYERS BROS.,** Florists,  
ALTONDA, PA.  
When Writing Mention Florists' Exchange

**EXCELSSIOR CARNATION SUPPORTS**  
10, 13, 15, 20 inches high, \$3.00 per 100; \$1.00 per 100.  
**50,000 CARNATIONS.**  
Field-grown plants, all the standard varieties \$6.00 per 100; \$50.00 per 100. New sorts, \$10.00 per 100.  
**ROSE STAKES OF GALVANIZED WIRE**  
2 ft., \$5.00 per 100; 2 1/2 ft., \$7.00 per 100; 4 ft., \$9.00 per 100.  
**STEMMING WIRE.**  
20 to 24, 50 cts. per stone; 33 and 38, \$1.40 per stone; 31-23 cut 9 or 12 inches, 1.00 per box, per box of 12 lbs. Not less than 50 lbs. at these prices.  
**30,000 PALMS**  
At the lowest prices. Send for list.  
**H. F. LITTLEFIELD, Worcester, Mass.**  
When Writing Mention Florists' Exchange

**RUBBER PLANTS,** 4 to 60 cts. each.  
**ADRIANUM CINEAMUM.** 10 3/4, 5, 8 inch pots, 10 to 60 fronds, at 15, 20, 25, 30 cts. each.  
**BOSTON FERN.** Ready for 1 inch pots, 30 fronds, at 21 cts. per 100; 3 1/2 inch pots, at \$5.00 per 100.  
**GROUND BONE.** \$1.00 per 100; \$38.00 per acre. Sample on application.  
**BULL DOG HOSE.** 12, 14, 15, 16 cts. per foot, 5 and 7 ply. Send for sample.







# READ THIS FIRST

The publication of the below article in a recent issue of AMERICAN GARDENING, has brought Mr. Jerolaman, hundreds of letters from every part of the country.

## Strawberries Henry and Mary.

We have grown almost all varieties of berries, but have only found two really large fruited ones. The one is Mary, originated by the late H. Alley of this village, the other is called, here on Boyden Farm, Henry. We grow tens of thousands of quarts from each variety every year, and they are without doubt the largest and best of all grown in the whole world. I have had this season thousands of quarts of thirteen inches around, and berries would make a heaping wooden quart, and I have preserved several in glass jars, with formalin, so that all who doubt can come here and see for themselves. Some of these berries in the jars measure thirteen inches around, and am the present owner of the Seth Boyden farm. Seth Boyden originated the first large strawberries, perhaps, in the world (Agriculturist and others); he died in 1870. I then bought his farm, and have continued to grow strawberries from that time to this, and will say that an honest, true plant called Henry is, beyond all doubt, not only the strongest plant, but the largest, best fruited, and sweetest strawberry ever yet produced; color dark crimson, it is perfect (Mary) is very large, round, and no combe grows on it. I have grown them for years, and they are ready for market in a small way, and this season nearly one-half of all that I grew were of the Henry; it will out-produce any strawberry plant that I have ever known, four-year-old plants giving very large, and just as fine berries as plants one year old. The plants as yet have shown no disease, while all other varieties, such as Great American, Jersey Queen, and nearly all varieties except those sold berries not good for market (Sharpless, Bach, and others), have shown disease to the plant. My Mary this season could not stand the hot sun, and nearly one-half of all the plants burst and dried up while full of berries. Mary will not bear the second season, but must be set out next year, while the Henry, but a single plant has died, either old or young; it is the first berry ripe and the first giving the large berries from the Henry to date, July 15.—HENRY JEROLAMAN, N. J.

Mr. Jerolaman will not answer any further correspondence except through the columns of AMERICAN GARDENING.

# NOW READ THE ADVERTISEMENT

ESSRS. STEVENS, SIMPSON & CO., Commission Merchants, 232 West Street, New York City, state they handle the HENRY Strawberry, and have realized for it the highest price obtainable for any outdoor stock coming into New York market. Mr. Simpson further states that in his opinion, as grown, packed and shipped by Mr. Henry Jerolaman, it is the BEST HOME MARKET BERRY in existence. For SIZE, COLOR, and SWEETNESS, and in its KEEPING QUALITIES, IT HAS NO EQUAL; these many points in its favor rendering it easy for the grower to realize considerably more per quart than the regular market value of Strawberries generally.

# THE ADVERTISEMENT. YOUR FORTUNE IN STRAWBERRIES!

The Strawberry King and his Remarkably Successful Career: How a Poor Boy Became Wealthy.

THROUGHOUT one of those strange dispensations which often mock in real life the wildest imagination of the novelist, the publishers of AMERICAN GARDENING have become possessed of the story of the life and cultural methods of Henry Jerolaman, undoubtedly the STRAWBERRY KING OF THE UNITED STATES. We have prevailed upon Mr. Jerolaman to write the history of his life and a full description of his cultural methods, exclusively for the readers of AMERICAN GARDENING. Further than this and at our urgent solicitation we have prevailed upon him to make a contract to supply us One hundred thousand plants of the HENRY STRAWBERRY, which we will distribute only as premiums to subscribers to AMERICAN GARDENING. The unrivalled HENRY STRAWBERRY has positively never been advertised until now.

## THE CONTRACT

*Publisher American Gardening, Gentlemen,*  
*I hereby agree to furnish you within the next twelve months in quantities as ordered, One Hundred Thousand plants (100,000) of any portion thereof, of the Henry Strawberry, to be used solely as premiums for subscribers to American Gardening and not to be sold.*  
Address: *Trout Pond, Ohio.* (Signed) *Henry Jerolaman*

## The Best Berry of the Age.

Four Berries of the Henry, grown by Mr. Jerolaman, rounded a wooden quart measure. Individual berries were three-and-a-half inches through each way. Mr. Jerolaman's description of the wonderful berry in a recent issue of AMERICAN GARDENING has brought him hundreds of inquiries from the cream of the professional growers.

## A GOLD MINE AT YOUR OWN DOOR.

"He who hesitates is lost." It is not likely that such an offer or such an opportunity will occur again in years. More than one Strawberry grower in every town, village, and hamlet can come into a good thing through practicing the cultural methods and getting some of the plants which have made Mr. Jerolaman not only wealthy and well-known, but so wonderfully successful, by at once

## TAKING ADVANTAGE OF OUR OFFER:

For \$1.00 (check or money order preferred) we will forward you, by mail, postpaid,

# FIVE PLANTS HENRY STRAWBERRY OF THE UNEQUALED

And AMERICAN GARDENING One Year.

Plants to be shipped this Fall or in the Spring, as you prefer.

Mr. Jerolaman's story will be found in the first issues mailed you and his cultural methods will be published in time to be of service for Fall planting.

## OFFER EXTRAORDINARY

For every new subscription you send us at \$1.00, we will forward you, postpaid, as a premium, Five Plants of HENRY STRAWBERRY; at the same time we will also send Five Plants to the party subscribing through you. Thus a club of ten new subscribers entitles you to Fifty plants of this wonderful Strawberry, as well as each individual subscriber to Five Plants. This is a BIG OFFER to all who tend to become large holders of this wonderful Berry, never before advertised. Time is short, get to work at once if you wish to accomplish anything before frost.

Address Pubs. AMERICAN GARDENING, P. O. Box 1697, New York.

## Newport Group Picture S. R. F.

The photograph made of the members of the Society of American Florists at Newport, R. I., can be obtained by addressing FRANK H. CHILD, 242 Thames St., Newport, R. I. They are 14x17 in size, and the price is \$2.00 each. When the money is received with the order the photograph will be sent by express, prepaid. When Writing Mention Florists' Exchange

# RAFFIA

15 cts. per lb: 10 lbs., \$1.20.  
EDWIN A. SEIDEWITZ,  
36 W. LEXINGTON ST., BALTIMORE, MD.  
When Writing Mention Florists' Exchange

"JADOO"  
FIBRE and LIQUID are used and endorsed by the leading growers.  
Try them and be convinced.  
When Writing Mention Florists' Exchange



TELEPHONE, 1782 18TH ST.  
When Writing Mention Florists' Exchange

## GOLD FISH. Fine Healthy Stock.

Medium to large size, \$10.00 per 100. Fish with orange. No charge for shipping cases. Gold Fish can be shipped by Express thousands of miles with safety and are a profitable and attractive stock to handle. Full line of Aquaria Supplies.

KEENAN'S SEED STORE,  
6112 and 6114 Wentworth Ave., CHICAGO.  
When Writing Mention Florists' Exchange

## Boston Florist Letter Co.



This wooden box nicely stained and varnished, 10x30 with cover. The original and only style available with first order of 500 letters.  
Book Letters, 75c per 100; 100, \$2.00  
Sewn Letters, \$1.00  
Faster with each letter or mark.  
Used by leading florists everywhere and for sale by all florists and station supply dealers.  
N. F. MCCARTHY, Treas. & Manager, 100 BOSTON, MASS., APPROX. 1897.  
When Writing Mention Florists' Exchange

## DO NOT BE HUMBUGGED Into Using CHEAP Imitations of our GREEN SILKALINE



FOR MILFORD AND BLACK ROOT

USE FOSTITE, 5 pounds, 50 cts. ... G. H. JOOSTEN, IMPORTER OF PLANTS, BULBS AND SEEDS.

CELERY PLANTS

WHITE PLUME and GIANT PASCAL. Field-grown plants at \$1.00 per 100; \$4.50 per 10,000. C. M. GROSSMAN, Wolcottville, Ind.

CABBAGE

LETTUCE and TOMATO PLANTS, For Fall planting and foreign, now ready, 15 cts per 100; 1.50 per 10,000. R. VINCENT JR. & SON, White Marsh, Md.

FITZGERALD PEACH

The finest quality yellow peach in the existence, ripening with Crawford & Ayrle later. White and Bonald's Elaine ... J. J. HARRISON'S NURSERIES, Berlin, Md.

PEACH AND PLUM TREES

ALL LEADING VARIETIES. 8,000 Plum Trees, 1,000 Apricots, 10,000 Apple Trees, 3 years 3/4 up, Ben Davis and York Imperial.

100,000 PEACH TREES

ALL LEADING VARIETIES. 8,000 Plum Trees, 1,000 Apricots, 10,000 Apple Trees, 3 years 3/4 up, Ben Davis and York Imperial.

G. L. LONGSDORF, 9 KILBURNERIEB, ...

... I HAVE ... FINE STOCK

APLES, CHERRY CRIS, PEACHES, QUINCES, &c. 3,000 Elm, 12 to 15 feet, 2,000 Sugar Maple, 2,000 Elm, 10 to 12 ft.

Toronto.

The vice-president of the Toronto Horticultural Society, Mr. R. T. Cley, is a specialist in the raising and growing of nearly all the good known varieties and is very successful with them.

Springfield, O.

Extensive improvements, in the way of additions to their already commodious buildings are under way at the McGrew ... Recent improvements about the present range have added greatly to its facilities and appearance.

Poughkeepsie, N. Y.

David Haggerty, a well-known florist, who merely detests his daily avocation, ... The meeting of the British Association for the Advancement of Science has been quite a little business to be done in cut flowers here.

Pittsburgh.

Sick and Trade. Not much doing is what most all say. The market is not so hot as it was concerned for roses and carnations are decidedly scarce.

St. Louis, Mo.

John C. Remmon is making another handsome improvement in his already sumptuous home on Upper Jennings street. He is moving his houses at Ninth and Pierce streets, which he has purchased with a view to it extensively.

St. Paul, Minn.

John C. Remmon is making another handsome improvement in his already sumptuous home on Upper Jennings street. He is moving his houses at Ninth and Pierce streets, which he has purchased with a view to it extensively.

Grape Vines

Small Fruits ... Azalea Vines ... Will be ready for delivery October 1.

AZALEA VINES

L. C. BOBBING, Rutherford, N. J. When Writing Mention Florists' Exchange

300,000 Small and Large Ferns

In variety, well-grown, reasonable prices. Send stamps for samples. Cecae Weddelliana, 3/4 inch pot, \$5.00 per 100.

B. REDFIELD, - Glenside, Pa. When Writing Mention Florists' Exchange

Asparagus Plumosus Nanus

(True) transplanted seedling plants, now ready, \$2.00 per 100, in 6 inch pots.

R. ASMUS, - NEW DURHAM, N. J. When Writing Mention Florists' Exchange

OTAHETE ORANGES!

Bear in mind that we shall have a fine lot of well-fruited Otahete Orange Trees for Christmas delivery.

Glas, Zeller's Sons, Flatbush, Brooklyn, N.Y. When Writing Mention Florists' Exchange

500 PHOENIX RECLINATA.

In 5 and 6 inch pots, 30 to 35 inches high from top of pots, in best condition, \$3.00 per 100.

J. ST. MARD, Delachaise and Saratoga Sts., New Orleans, La. When Writing Mention Florists' Exchange

1,000 FINE C. CASAS.

From \$1.00 up. A Fine Lot of RUBBERS, &c. HESSON, Clarkson St., Flatbush, L. I. When Writing Mention Florists' Exchange

JULIUS ROEHR'S

Headquarters for Palms and Decorative Plants. RUTHERFORD, N. J. P. O. Address, - Carlton Hill, N. J.

LOOK HERE

The following plants are in all condition. Asparagus Plumosus Nanus, true climbing variety, 2 1/2 inch pots, \$7.00 per 100.

C. MERKEL & SON, Mentor, Ohio.

JOHN SCOTT, KEAP STREET GREENHOUSES BROOKLYN, N. Y.

When Writing Mention Florists' Exchange



SAVE THE BLOSSOM! NIKOTEEN DOES NOT INJURE SENSITIVE PLANTS... Price \$1.50. ALL SEEDSMEN.

When Writing Mention Florists' Exchange

DEATH TO THE INSECTS HARMLESS TO THE PLANTS.

THE KENTUCKY EXTRACT CO'S KILL IT!

As an insecticide for quick destruction of aphids... SURE!

THE KENTUCKY EXTRACT CO. Columbus, O. SOLE MANUFACTURERS. Book of Directions sent Upon Application.

THE BEST FOR ALL Florists.



FOR SALE BY Seed Store, For Free Pamphlet, write to LOEWENSON SEED CO. Louisville, Ky.

When Writing Mention Florists' Exchange

SCOLLAY'S IMPROVED PUTTY BULB

For Glazing Sash, Etc., -ALSO THE PATENT PLANT SPRINKLER



For sale by your Seedsmen or sent, postpaid, for \$1.60. JOHN A. SCOLLAY, 74 3/4 Myrtle Ave., BROOKLYN, N. Y.

SEND STAMP FOR CATALOGUE. When Writing Mention Florists' Exchange

A GOOD HOSE IS A GOOD INVESTMENT

The best in the cheapest. To ascertain what a hose is worth, divide the cost per foot by the number of years it will last.

Address J. G. & A. ESLER, Saddle River, N. J. When Writing Mention Florists' Exchange

FLOWER POTS

We are manufacturing a Full Line of STANDARD FLOWER POTS and HANGING BASKETS OF THE BEST QUALITY.

Shipping Facilities First-Class, thereby Securing Lowest Freight Rates. Our goods are well packed, and breakage is nominal. Give us a trial. Send for Price List.

Address THE SYRACUSE POTTERY CO., 403 N. SALINA ST., SYRACUSE, N. Y. When Writing Mention Florists' Exchange

Wire Designs, Wire Designs, Wire Designs, CHEAP! CHEAPER!! CHEAPEST!!!

The Klondike and Alaska outdome. Have you seen it? Do you want it? You need it. All progressive Florists refer to it. Will be out of list of October.

JAS. GRIFFITH'S LATEST CATALOGUE AND HARD TIMES DESIGN LIST. Lowest prices ever quoted. FREE! FREE! Send for it. Reserve your orders until you cannot get it. Send at once before they are gone.

To JAMES GRIFFITH, Wire Designer, 701 Main Street, CINCINNATI, OHIO. When Writing Mention Florists' Exchange

JADOO FIBRE--Every plant grown in it thrives without earth.

JADOO LIQUID--The best, safest and cheapest Fertilizer sold.

THE AMERICAN JADOO CO., 811 Filmorent Avenue, PHILADELPHIA, PA.

When Writing Mention Florists' Exchange

MASTICO FOR GLAZING GREENHOUSES. SUPERIOR TO PUTTY IN EVERY WAY.

In hot weather by the intense heat or cold that a greenhouse is constantly subjected to both inside and outside... Mastic and Mastic Glazing Machine were given HIGHEST AWARD OF SOCIETY OF AMERICAN FLORISTS AT PITTSBURGH, 1895.

F. O. PIERCE CO., Sole Manufacturers, 170 Fulton St., New York. When Writing Mention Florists' Exchange

A Pleas.

The annual picnic of the employees of H. Dale was called for August 18, and on that morning a jolly crowd of 150 of the men and their families assembled at the greenhouses lent on having a good time.

At 11 o'clock the rally-boe sounded, and a start was made in pleasure vans for Eldorado. Now as there are so many Eldorados in this little world of ours, I must admit that this particular one is a beautiful spot on the River (credit about four miles from Brampton--an ideal place for a picnic, left almost as nature made it with plenty of sunshine or shade, water or upland.

The program of sports held an event to give every one from ten to twenty rods for the wet lot of five and under, up through the different ages for misses and boys, ladies and gentils of forty and up with first, second and third prizes in each.

Say, there was more fun than a circus, a side show, roses at \$3 a dozen, and anyone might get a slice of pie. To the beautiful villa in which Dick kept his orchard, the water, lost his balance and landed in the bottom of his boat with heels in the air, or will rowed straight across the course and fouled all the other boats, or had struck out on a course of his own and landed in a clump of bushes on the shore. Then to see three boats foul each other and become jumbled together, men and oars all mixed up in a vain endeavor to get separated; altogether it was a sight to be not forgotten. The prizes, first, second and third, played cup, arm chair, and pipe in case, were awarded by the winners amid the cheers of the crowd.

After dinner the races started, beginning with the youngest, and here we found that the management had arranged so that all children under fourteen got a prize whether they won anything or not. It was worth something to see the squalls and hear the cheers "O, then kids."

A cricket match was played this afternoon, the sides being chosen on the grounds, and a prize going to the best batter of the day. A slight shower in the evening caused us to partake of the best meal under cover of a dancing hall on the grounds, and after doing to the edibles provided by the ladies, we arrived home a tired but happy crowd, about 9 P. M.

We are having a very cold spell, temperature falling to 47 degrees this week, making it necessary to put on light fires. Trade during August has been somewhat better than last year. H. DALE.

Syracuse, N. Y. State Fair.

With the exception of one day, bright cool weather favored the State Fair held at Syracuse last week. The entries in all departments were more numerous than ever before, being especially crowded in the horticultural department. The quality of the cut flowers was remarkable, all classes making a good showing, the amateurs putting up an especially fine exhibit. Considerable space heretofore used for plants was this year devoted to fruit, and this action caused some tall kicking by the plantmen. All the plants were crowded, many of them being placed on the floor, which of course detracted from the beauty of the exhibition.

Considering the early date, and the extreme dryness of the season, the work was very good. Peter Crowe of Utica and George Savage of Rochester were the judges of plants and flowers, a severe hail-storm passed over thirty two weeks ago, doing considerable damage to vegetation and to our plants, but very little glass was broken. L. B. Marquisse is enjoying a vacation camping out on the St. Lawrence. C. BARSON.

Hot-Bed Sash

Tenons white-leaded. Corners secured with iron dovetail pins. Every detail of construction perfect. Made of Clear Cypress Lumber.

Quick Shipments. We have in stock and can ship immediately:

- 3 ft. x 6 ft., 3 rows 10 in. glass, 3 ft. 3 in. x 6 ft., 5 " 8 in. " 4 ft. x 6 ft., 5 " 8 in. " Not glazed, 1 1/4 in. thick. Delivered Prices

Quoted on application. State size and quantity wanted. No order too small to receive careful attention, and none too large for our facilities. LOCKLAND LUMBER CO., Lockland, Ohio.

When Writing Mention Florists' Exchange

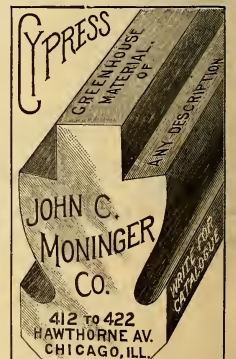
SUMMER IN WINTER

By Using Standard Greenhouse Boilers One cent gets your Catalogue. GIBLIN & CO., Utica, N. Y. When Writing Mention Florists' Exchange

A GOOD SASH LIFT For a Very Little Money Get



For Descriptive Catalogue Send to J. D. CARMODY, Evansville, Ind. When Writing Mention Florists' Exchange

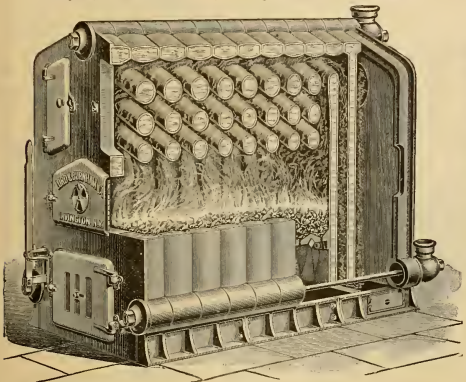


412 to 422 HAWTHORNE AV. CHICAGO, ILL. A Patent Factor. THE FLORISTS' EXCHANGE is the most potent factor in the Florist's line. W. H. DUBYEA Mattuck, E. L. June 8, '97.

LORD & BURNHAM CO.,

Horticultural Architects and Builders and Manufacturers of Heating and Ventilating Apparatus.

Plans and estimates furnished on application for Heating and Ventilating Apparatus erected complete, or for material only. Highest Awards at the World's Fair. (Established 1866.)



NEW SECTIONAL HOT WATER HEATER.

Specially adapted to large ranges. Will heat up to 15,500 feet of glass. Highest economy. Moderate cost. Also heaters for smaller work. Send six cents postage to New York office for latest catalogue of Heating and Ventilating Apparatus.

NEW YORK OFFICE: GENERAL OFFICE AND WORKS: BRUNNEN-ON-HUDSON, N. Y.

160 FIFTH AVE., COR. 21ST ST. When Writing Mention Florists' Exchange

**CYPRESS**  
IS MUCH MORE DURABLE THAN PINE.

**CYPRESS SASH BARS**  
UP TO 2 1/2 FEET IN LENGTH OR LONGER.

**GREENHOUSE AND OTHER BUILDING MATERIAL.**

Send for our Illustrated Book "CYPRESS LUMBER AND ITS USES." Send for our Special Greenhouse Circular.

THE A. T. STEARNS LUMBER CO.,  
NEWBURY, BOSTON, MASS.

When Writing Mention Florists' Exchange

**VALVES AND FITTINGS**  
For Pipes and Tubing. VENTILATING APPARATUS.

**COLDWELL-WILCOX CO.,**  
NEWBURGH, N. Y.

Send for Catalogue. Mention paper.

**Evan's Improved Challenge.**

Roller bearing, self-oiling device automatically stops, shifts like chain makes the IMPROVED CHALLENGER the most perfect sprayer yet in the market. Write for catalogue and proceed before placing your orders elsewhere.

**Quaker City Machine Co.,**  
RICHMOND, IND.

When Writing Mention Florists' Exchange

**HAVE RICH MELLOW LAND.** That condition is sure to follow thorough draining with JACKSON'S Best AGRICULTURAL DRAIN TILE. For 45 years we have been making these and Sewer Tiles and all the best, Green Tile, Chimney and Fire Lining and Pipe, Earthenware, etc. Write for prices. John H. Jackson, 112nd Ave. Albany, N.Y.

**ROUND TILE**

When Writing Mention Florists' Exchange

**GLASS** FOR GREENHOUSES, CONSERVATORIES, GRAPERIES, HOTBEDS AND FLORISTS' USE GENERALLY, AT LOWEST RATES.

**L. HARRIS & SON,**  
457 W. BROADWAY, NEW YORK, 89 BROADWAY ST., NEW YORK  
Est. Boston and Newark N.J. Est. Broadway and Church Sts.

When Writing Mention Florists' Exchange

**GLASS!** For Greenhouses, Conservatories, Graperies, Hotbeds and all other purposes, at Lowest Rates. **GLASS!**

**N. COWEN'S SON, 392 & 394 West Broadway, New York,**  
Formerly 184 and 156 So. Fifth Avenue.

Get our Figures before buying Glass. Estimates Freely Given

When Writing Mention Florists' Exchange

**CALIFORNIA RED CEDAR**  
Never Decays.

**A. DIETSCH & CO. 819 Sheffield Avenue, CHICAGO.**

MANUFACTURERS OF RED CEDAR AND CYPRESS GREENHOUSE MATERIAL.

When Writing Mention Florists' Exchange

GREENHOUSE HEATING AND VENTILATING,

Horticultural Architecture and Building.

Hitchings & Co

ESTABLISHED 1844.

233 Mercer Street, NEW YORK.

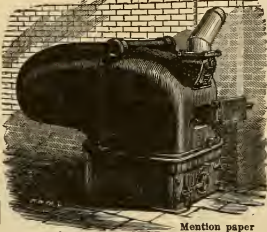
FIVE PATTERNS OF BOILERS.

NINETEEN SIZES.

Perfect Sash Raising Apparatus.

Reehouse, Greenhouses, Etc., of Iron Frame Construction erected complete or the Structural Iron Work shipped ready for erection.

Iron Frame Benches with the "Perfect Drainage Bench Tile" or Slate Top.



Mention paper

SEND 4c. POSTAGE FOR ILLUSTRATED CATALOGUE.

PIPE VALVES

Wrought Iron Pipe, Valves, Hooks, Fittings, etc., for Steam and Hot Water; Rubber Hose, Pumps and Well Points.

WM. H. KAY, 42 Day St., New York.

When Writing Mention Florists' Exchange

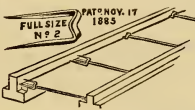
DON'T SYRINGE WITH COLD WATER

And so lower the vitality of your Stock, Inviting Mildew, Black Spot, and other Disease, but write for particulars of our Tempering Apparatus.

HENRY W. GIBBONS, HEATING ENGINEER AND GREENHOUSE ARCHITECT

138 LIBERTY STREET, NEW YORK.

When Writing Mention Florists' Exchange



THE VAN REYPER

PERFECT GLAZIERS' POINTS

No rights or lefts. Price per box of 1000, 60c. by mail, 75c.; in lots of 5000 by ex., 85c. per 1000

HENRY A. DREER, 714 Chestnut St., Phila., Pa.

When Writing Mention Florists' Exchange

SEND FOR OUR NEW CATALOGUE, WHICH SHOWS

**The New Automatic Cable Ventilator**

As it is put up in the house complete. We also give you prices with a guarantee that each machine sent out will operate your house successfully. But machines now made in two sizes.

**A. Q. WOLF & BRO., Dayton, Ohio.**

When Writing Mention Florists' Exchange

TRADE GREENHOUSES.

THE BEST MADE.

"Florists" Get Your Plans and Estimate from

PLENTY'S HORTICULTURAL WORKS,

148-156 Randolph Ave., JERSEY CITY, N.J.

When Writing Mention Florists' Exchange

STANDARD VENTILATING MACHINE.

NONE EQUAL IT IN Strength AND Durability



NOTHING Flimsy OR Complicated about it.

Send for Catalogue.

E. HIPPARD, YOUNGSTOWN, OHIO

When Writing Mention Florists' Exchange













# BLOOMING PLANTS!

**FACTS.** The plants are strong, rapid growers. They are easily handled in all stages of growth. The two varieties offered are very readily propagated. They are not subject to any insect pests. They are free and continuous bloomers for four to six months in the forepart of the year. The bloom-bracts are very durable on plant or in out sprays. The color is showy and very attractive. Sold for 14 CENTS and 20 CENTS PER 100.

We offer nice stock of both varieties, from 5 inch pots. **GLABRA** (7 to 10 to 30 inches above pots, 4 to 6 shoots. **GLABRA SANDERIANA**, 15 to 25 inches above pots, 6 to 8 shoots. Price, \$50.00 per 100; 5 plants at 100 rates.

The above plants can be safely shipped by freight to points within a week's shipping distance of Pittsburgh. We mail 4 nice branched plants of either variety, from 5 in. pots, for \$1.00, or 10 for \$2.50.

CASH WITH ORDER. **THEO. F. BECKERT**, Glenfield, Pa. **NEVILLE ISLAND, 9 miles below Pottsville, Pa.**  
When Writing Mention Florists' Exchange

**HERR'S PANSES**  
ARE THE BEST.  
...HERR'S...  
**CARNATIONS**  
3000 TRIUMPH, the best pink in every particular I ever grew, at \$7.50 per 100.  
**ALBERT M. HERR, Lancaster, Pa.**  
When Writing Mention Florists' Exchange

**HERR'S PANSES**  
**CHEAP!**  
ROEHMER'S SUPERB PRIZE PANSES.  
This strain includes all the leading varieties. These bushy plants, ready to set, are sold per 100, by mail, at \$2.00 per 50; packets of \$0.40 per 100. Send \$10.00 per 1000 packets.  
Seed, 1/4 ounce, \$1.75; packet of 2000 seed, \$1.00.  
CASH WITH ORDER.  
**PETER BROWN, - Lancaster, Pa.**  
When Writing Mention Florists' Exchange

**HERR'S PANSES**  
**CHEAP!**  
ROEHMER'S SUPERB PRIZE PANSES.  
This strain includes all the leading varieties. These bushy plants, ready to set, are sold per 100, by mail, at \$2.00 per 50; packets of \$0.40 per 100. Send \$10.00 per 1000 packets.  
Seed, 1/4 ounce, \$1.75; packet of 2000 seed, \$1.00.  
CASH WITH ORDER.  
**PETER BROWN, - Lancaster, Pa.**  
When Writing Mention Florists' Exchange

**HERR'S PANSES**  
**CHEAP!**  
ROEHMER'S SUPERB PRIZE PANSES.  
This strain includes all the leading varieties. These bushy plants, ready to set, are sold per 100, by mail, at \$2.00 per 50; packets of \$0.40 per 100. Send \$10.00 per 1000 packets.  
Seed, 1/4 ounce, \$1.75; packet of 2000 seed, \$1.00.  
CASH WITH ORDER.  
**PETER BROWN, - Lancaster, Pa.**  
When Writing Mention Florists' Exchange

**PRIMROSES.** Line, 2 1/2 inch pot plants, from choice imported seed, at \$2 per 100. Cash  
**MRS. M. CAVANAUGH, - Millers Corners, N. Y.**  
When Writing Mention Florists' Exchange

**P. OUWERKERK,**  
**1123 Summit Ave., Jersey City, N. J.**  
Just received from our Holland Nurseries:  
**RHOODENDRONS, AZALEAS,**  
**SPIREA JAPONICA, LILIUM SPECIOSUM,**  
**PEONIES, BLEEDING HEART,**  
**POT GROWN LILACS, HYDRANGEA IN BUDS.**  
**CLEMATIS** with **H. P. ROSES**, in the best sort.  
**PRICES MODERATE.**  
When Writing Mention Florists' Exchange

**Prize-Winning**  
**PAHL-PAS**  
AN UNPRECEDENTED RECORD.

**23 First Prizes, Certificate of Merit, 2** Diplomas, and highest mention everywhere.  
If you want the **Very Best Primaries** that bloom, send for our 1897 descriptive list now ready. Address  
**W. P. PEACOCK,**  
**Dahlia Specialist, ATCO, N. J.**  
When Writing Mention Florists' Exchange

**PRIMROSES.** Line, 2 1/2 inch pot plants, from choice imported seed, at \$2 per 100. Cash  
**MRS. M. CAVANAUGH, - Millers Corners, N. Y.**  
When Writing Mention Florists' Exchange

**PRIMROSES.** Line, 2 1/2 inch pot plants, from choice imported seed, at \$2 per 100. Cash  
**MRS. M. CAVANAUGH, - Millers Corners, N. Y.**  
When Writing Mention Florists' Exchange

**PRIMROSES.** Line, 2 1/2 inch pot plants, from choice imported seed, at \$2 per 100. Cash  
**MRS. M. CAVANAUGH, - Millers Corners, N. Y.**  
When Writing Mention Florists' Exchange

# FLORISTS.

## Treatment of Uncle John.

In my notes last week I mentioned Uncle John as being particularly susceptible to fungous and bacterial diseases. It is more so than any carnation which has ever come under my notice, and as I have received inquiries as to the treatment it should receive, I will give a brief outline of the same in this column.

In many respects Uncle John is identical with any other carnation, and I believe it may be profitably grown in any community where carnations are raised, and the atmosphere is fairly dry. It is of medium height, and a very rapid grower, so that when the conditions are favorable, large bushy plants are soon formed. The natural conclusion to be drawn is to give them plenty of room, not how much depending entirely on the nature of the soil and the locality in which they are grown. This is a point for the grower to decide, who knows more about the growth of carnations in his own locality than one at a distance. It is good, to say, however, that the plants will be kept fully as much room as any of the large growing varieties, such as Triumph, Hector, and others. Its very rapid growth must be checked and held firm by keeping the plants rather on the dry side; they can get along with less moisture, and really demand less than perhaps any other carnation.

To assist in keeping the plants healthy and free from mildew, as stated in my notes last week I demand the lightest house obtainable. Ventilation also must be good; the air should be completely better.

It has long since been demonstrated that carnation is not a moisture-loving plant; on the contrary, the atmosphere around it must be dry and invigorating, and what is of the utmost importance, always moving and changing. For this reason the fans must be kept going not only because it is cool but because it is damp. Damp atmosphere hangs about the plants and circulates, and the diseases peculiar to the carnation require just such conditions in which to thrive. The plants should be kept free from watering or spraying during Winter months, or when so open apparent. My experience has fully demonstrated the folly of applying fertilizers during Fall, Winter and early Spring, and the sooner every grower realizes the fact that water on the foliage is detrimental rather than beneficial, the quicker he will be on the road to ultimate success.

As I have said, Uncle John must be kept rather on the dry side. There should, however, be no extremes; the note must be drawn intelligently. Never wait until the plants wilt for the want of water, as such waterings can only be injurious.

An examination of the calyx of Uncle John will reveal the same weakness in the weakest of all carnations, and if it grew as most other carnations do, there still would be very little to be said of flowers; but as it is, the rapid growth of the plant extends to the calyx and petals as well, so that the latter do not form long enough to cause the calyx to burst. It is only when the plants receive a sudden check either from frost, or from suddenly chilled, keeping too low a temperature, or allowing the plants to become very dry before watering, that they are any trouble with bursting. When these checks occur the plant, growth to a large extent is suspended, and when resumed the petals will have developed more than the calyx, and the inevitable result is bursting.

With proper watering and regulation of temperature, there will be no trouble from bursted flowers. A night temperature of 55 degrees suits this variety best, and the glass should not go below 50 if it can be avoided.

Another thing to be remembered with Uncle John, when the grower selects other varieties, is that they require considerably more potash than such kinds as are usually raised. It will not do, however, but in applying it, do not act under the mistaken impression that "if a little is good, so much is better."  
H. W. HERR.

## Fire Insurance on Greenhouses.

To the Florists of America.

At the Providence convention of the Society of American Florists, the undersigned committee were authorized to ascertain whether or not the trade really desires a mutual fire insurance association, and if so, to proceed with the organization of a permanent organization. We want to accomplish this work quickly, and respectfully request that you, if so interested, state what amount of insurance you would take, providing a satisfactory rate of premium can be obtained.

You will find the committee's report in the enclosed bulletin, and also in the proceedings of the convention. Should you care to make any suggestions to the committee, or to have any questions cheerfully considered. All questions will be gladly answered by any member of the committee. When you state the amount of insurance you would take, please also mention when present insurance, if you carry any, will expire.

The members of the present committee have for five years given the matter careful attention, and after weighing every objectionable feature carefully, are now convinced that the scheme of a mutual fire insurance association is practicable. There are skeptics on the subject. The Hall Association had the same trouble, and you all know how it has triumphed.

Kindly address at once the member of the committee to whom you wish to object, your name, and state how much insurance you would carry should a satisfactory organization be formed. Give us the encouragement of your support. We need you; you need the insurance. When you are satisfied, we can give you for less than 50 cents of present underwriters' rates.

Write to one of us immediately.

- E. H. MICHEL, 1620 Olive St., St. Louis, Mo.
- J. G. WATSON, Saddle River, N. J.
- COMMITTEE: A. E. SEIDEWITZ, Annapolis, Md.
- W. J. TRACY, Fort Wayne, Ind.
- M. A. PATTEN, Tewksbury, Mass.

## A New Aster Worm.

A correspondent in Gardeners Chronicle London, this week, has called attention to a new aster worm, which he assumes is the cause of sickness in these plants. The name of the worm, as given as Euclyptus parvulus (Friend).

The worm is 3 to 5 mm. in length, or about an eighth of an inch. It is therefore the smallest species known to science. Viewed under a pocket lens, it is white and silvery, and has six feet. Under the microscope, the first six or seven segments are pellucid, while the remainder of the worm's intestinal organs are covered with dark cells.

The minute worm obtains admission to the roots and rootlets, and lodges under the epidermis, where it sucks the juices of the plant, or even (as microscopic examination has shown) enters the cell structure and swallows the vegetable tissues, thus preventing the plant from sending moisture and nutriment up through the stem to the leaves. Though the worms have no teeth, their mouths act as suckers, and they very quickly divert the nutriment from the ordinary channels to their own esophagus, to devour it of their own accord.

If it were possible, the moment sick plants showed itself, to hit the plant, excise the injured portion, and the worm might be arrested. There would, however, still be a danger, as the worm might be unable to reeve, and if it did, the eggs of the worm, which are infinitely small and are very easily diverted to other parts of the plant, would have been deposited in the tissues. This being so, young worms will soon appear and again do mischief. The only way to insure the destruction of the pest, when once in the plant, is to cut the plant off at the base, and consign it instantly to the flames.

## Why He Left His Job.

Muggins—Why did you give up your situation?  
Buggins—Well, you see, I was working for a man, and he treated me so good, though I'd leave and branch out for myself.—National Provisioner.

**FIELD-GROWN CARNATIONS**  
Good, strong, healthy plants. Write for kinds and prices. Delivery after Sept. 10th.  
**LOGAN AVE. GREENHOUSES, Danville, III.**  
When Writing Mention Florists' Exchange

**FIELD-GROWN CARNATIONS!**  
Kitty Cluster, Louis C. Hestlet, Portia, Dr. Warden, Nellie Bijl, Princess Bonnet, 4 or 12, Myosotis, 3 inch pots, \$3.00 per 100.  
**Begonia Rex**, 12 varieties, \$3.00 per 100.  
**WM. H. SEARGH, Avondale, Chester Co. Pa.**  
When Writing Mention Florists' Exchange

**FIELD-GROWN CARNATIONS**  
Good strong healthy plants.  
600 Daybreak, 400 Scott, 300 Portia.  
\$5.00 per hundred. Cash with order.  
**WM. F. KELLER, Florist, Easton, Pa.**  
When Writing Mention Florists' Exchange

**CARNATION PLANTS**  
Large Field-Grown, \$3.00 per 100.  
800 McGowan, 300 Alaska, 300 Scott, 100 Meteor.  
**SMILAX**, strong plants from 3 inch pots, \$2.00 per 100, \$1.00 per 500. Cash with order.  
**L. R. HANCOCK, 691 Lock Box Burlington, N. J.**  
When Writing Mention Florists' Exchange

**H. WEBER & SONS, CARNATIONS OAKLAND, MD.**  
When Writing Mention Florists' Exchange

**Harrison's White CARNATION.**  
New Carnation, sport from Wm. Scott.  
**JOHN HARRISON, 739 Bergen Ave., Jersey City, N. J.**  
When Writing Mention Florists' Exchange

**GRALLERT & CO. CARNATION GROWERS COLMA, SAN MATEO CAL. CO.**  
When Writing Mention Florists' Exchange

**FIELD GROWN CARNATIONS AND VIOLETS,**  
Ready September 16th.  
**JOSEPH REWARD, Unionville, Chester Co. Pa.**  
When Writing Mention Florists' Exchange

**CARNATIONS F. DORNER & SONS CO., La Fayette, Ind.**  
When Writing Mention Florists' Exchange

**CHAS. T. SIEBERT RESTLESSNESS THE FLOREST OF PITTSBURGH, PA. GROWS & SELLS CARNATIONS THAT PAY.**  
When Writing Mention Florists' Exchange

**BUSHY FIELD GROWN CARNATIONS**  
With plenty of roots. Send for prices.  
**GEO HANCOCK & SON, Grand Haven, Mich.**

**FIELD-GROWN CARNATIONS.**  
Strong, healthy plants, now ready.  
McGowan No. 1, \$1.00 per 100; No. 2, \$2.50 per 100. Scott, No. 1, \$1.50 per 100; No. 2, \$3.00 per 100. Portia, No. 1, \$4.00 per 100. 100 Daybreak, No. 1, \$5.00 per 100. All securely packed. Free of charge order each and assure strong, healthy plants.  
Address **CHAS. BLACK, Hightstown, N. J.**  
When Writing Mention Florists' Exchange

**FIELD GROWN CARNATIONS**  
3000 McGowan, \$6.00 per doz.  
5000 John's Scarlet, \$12.00 and \$15.00 per doz.  
**5000 ROOTED GERANIUMS**  
La Favorite and Double Grant, \$1.50 per doz.  
**JAHN BROS., New Bedford, Mass.**  
When Writing Mention Florists' Exchange

**CARNATIONS!**  
Field-grown—Scott, McGowan and H. Keller, of \$4.00 per 100.  
1000 Cut Clamps from field, \$3.00 per 100.  
Chrysanthemums from 5 and 5½ in. pots, \$7.00 per 100.  
**E. FRYER,** Berrian St. and New Lofs Ave., BROOKLYN, N. Y.  
When Writing Mention Florists' Exchange

**FIELD GROWN CARNATIONS.**  
Strong, healthy plants from field, of the following varieties: Scott, Carding, Daybreak, McGowan, 31 inch Cor. Alaska.  
Send at once for prices before stock is exhausted.  
**H. D. ROHRER, Box 344 LANCASTER, Pa.**  
When Writing Mention Florists' Exchange

**MARELLO**  
Field-Grown, at \$1.50 per dozen; \$3.00 per 100.  
**HOPP & LEMKE,** Paul Post Office. EAST GRAND RAPIDS, MICH.  
When Writing Mention Florists' Exchange

**FIELD-GROWN CARNATION PLANTS**  
3000 MCGOWAN, 2000 SCOTT.  
Prices on application.  
**J. A. SUYDAM,** Flatbush, Brooklyn, N. Y.  
When Writing Mention Florists' Exchange

**... CARNATIONS ...**  
FINE FIELD-GROWN PLANTS, NOW READY.  
300 Wm. Scott, 500 Mrs. Fisher..... \$1.00 per 100.  
Geraniums, fine plants from 2 and 4 inch pots. New plants for stock, as follows: Mrs. E. C. Hill, White Swan, Gen. Grant and Fire Brand, at \$2 per 100. The above varieties in 2 and 5½ inch pots, \$1.00 per doz.  
Petersons, Albs. Plets, Pres. Carnot and M. De Lesseps, fine plants from 2½ inch pots, 2½ ct. each.  
Arenas, Cuttings and geraniums, nice plants from 2½ inch pots, 2 ct. each. Pres. Carnot, 3 inch pots, 2½ ct. each.  
Petersonium, Robt. Green, 2½ in. in 150 per 100.  
**FAIRVIEW FLORAL CO., Beatty, Ohio.**  
When Writing Mention Florists' Exchange

**CARNATIONS, FERNS, VIOLETS and SMILAX.**  
**Portia, Scott and McGowan**, all quantities, \$4.00 per 100; \$5.00 per 1000, 2nd quality, \$4.00 per 100; \$3.00 per 1000.  
**Daybreak**, all quantities, \$5.00 per 100; \$5.00 per 1000. 2nd quality, \$4.00 per 100; \$3.00 per 1000.  
**Adiantum Cuneatum**, 2 in. pots, \$2.00 per 100; \$2.50 per 1000. 3 in. pots, \$5.00 per 100; \$5.00 per 1000. Seedlings, \$1.25 per 100; \$1.00 per 1000.  
**Ferns**, in assortment, 5 in. pots, \$9.00 per 100. **White Louise Violets**, 2 in. pots, \$5.00 per 100; \$3.00 per 1000.  
**Smilax**, 2 in. pots, \$1.50 per 100; \$1.00 per 1000.  
**THE BOOL FLORAL CO., Ithaca, N. Y.**  
When Writing Mention Florists' Exchange



**EXCELSIOR CARNATION SUPPORTS**  
10, 13, 16, 20 inches high, \$5.00 per 1000; \$1.00 per 100.

**50,000 CARNATIONS.**  
Field-grown plants, all the standard varieties, \$6.00 per 100; \$50.00 per 1000. New cuts, \$10.00 per 100.  
**ROSE STAKES OF GALVANIZED WIRE.**  
2 ft., \$5.00 per 1000; 3 ft., \$8.00 per 1000; 3 ft., \$7.00 per 1000; 4 ft., \$8.00 per 1000.  
**STEMMING WIRE.**  
20 to 25, 50 cts per stime; 35 and 35, \$1.40 per stime. 2 1/2 and 9 or 12 inches, 75 cts. per box of 15 lbs. Not less than 90 lbs. at these prices.  
**30,000 PALMS**  
At the lowest prices. Send for list.  
**H. F. LITTLEFIELD, Worcester, Mass.**  
When Writing Mention Florists' Exchange

**4 ACRES FIELD-GROWN CARNATION PLANTS, 94,000.**  
Our Carnations are grown with the greatest care. Free from disease and packed light by our improved system of packing by which we can send them to all parts of the United States and Canada in perfect condition.

**CRIMSON SPORT, IVORY, JUBILEE, DEAN HOLE, BUTTERCUP.** \$1.50 per doz.; \$5.00 per 100.  
**BRIDESMAID, NETER, CHESTER PRIDE, ALBERTINI, HELEN KELLER, BRIDE OF BRISFECOURT, DYNBEEK, \$1.25 per doz.; \$6.00 per 100.**  
**SWEETHEART, LIZZIE MCGOWAN, MRS. CARNEGIE, E. L. LAMBORN, SILVER SPRAY, POKY, GARFIELD, GRACE WILDER.** \$1.00 per doz.; \$5.00 per 100.  
**PIRITAN, WM. SCOTT, TIDAL WAVE, ROSALIND,**  
**J. A. DILLON, - - - BLOOMSBURG, PA.**  
When Writing Mention Florists' Exchange

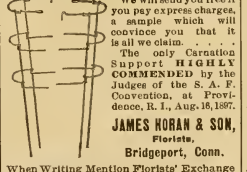
**50,000 FIELD GROWN CARNATIONS**

Strong and healthy plants in quantity now ready for delivery, of the following sorts: William Scott, Rose Queen, Tidal Wave, Albertini, Daybreak, Mrs. Thompson, Nancy Hanka, Pettie, Lizzie Gilbert, Coraet, Lizzie McGowan, Silver Spray, Storm King and Ivory. Price, per 1000, \$3.00; \$4.00, \$5.00. No order for less than 100 accepted. Address

**REINBERG BROS., Wholesale Cut Flowers, 51 Washburn Ave., Chicago.**  
When Writing Mention Florists' Exchange

**CARNATIONS PLANTS FOR SALE.**  
**WM. SCOTT, LIZZIE MCGOWAN and DAYBREAK,** clean plants, \$4.00 per 100. Cash with order. 10 cts. for sample.  
**F. G. MENSE, Glen Cove, N. Y.**  
When Writing Mention Florists' Exchange

**NOW WE HAVE IT. A PERFECT CARNATION SUPPORT**



We will send you free if you pay express charges. It is a sample which will convince you that it is all we claim. The only Carnation Support HIGHLY COMMERCE BY the Judges of the S. A. F. Convention, at Providence, R. I., Aug. 15, 1897.

**JAMES NORAN & SON, Florists, Bridgeport, Conn.**  
When Writing Mention Florists' Exchange

**CARNATIONS**  
Clean, healthy, field-grown stock at \$4.00 per 100; Daybreak, Silver Spray, Rose Queen, Garfield and Fortia.

**VIOLETS**  
Marie Louise and California, strong, healthy well established plants from 4 in. pots, at \$4.00 per 100. Field-grown California, at \$5.00 per 100. Samples mailed on receipt of 10 cts. to cover postage.  
**L. L. MAY & CO., St. Paul, Minn.**  
When Writing Mention Florists' Exchange

**FIELD-GROWN CARNATIONS FOR SALE OR EXCHANGE.**  
120 Daybreak, 120 Scott, 120 McGowan, 60 Mistle Cook, 125 in. at \$1.00 per 100, 120 Scott, 120 McGowan, 220 Alaska, 20 Acorn, 24 size, \$1.00 per 100. Will exchange for assortment-hand hotbed stock or 2 inch pipe, or medium Palms or sell the lot at a discount.

**B. F. ENCLE, - - - Beaver, Pa.**  
When Writing Mention Florists' Exchange

**FIELD-GROWN CARNATIONS**  
**SCOTT, HECTOR, ALBERTINI, FISHER.**  
Perfectly Healthy. Write for Prices.

**ELLIOTT & ULAM, Cheswick, Pa.**  
When Writing Mention Florists' Exchange

**FIELD-GROWN GARNATIONS**  
**MAYOR PINGREE \$1.00 per 100.**  
**JOHN BREITMEYER & SONS, DETROIT, MICH.**  
When Writing Mention Florists' Exchange





PALMS, OLEO FRAGRANS, BUDDED ROSES,

DWARF ORANGES (grafted).

Table listing Dwarf Oranges with columns for species, pot size, and price. Includes items like Areca Lutescens, Cocos Weddelliana, and Phoenix Recinata.

Advertisement for PALMS AND OTHER DECORATIVE PLANTS. Includes a circular logo with 'SPECIAL GARDENS' and text about quality and prices.

Advertisement for JULIUS ROEHR'S, Headquarters for Palms and Decorative Plants. Lists location in Rutherford, N.J. and contact information.

Advertisement for AZALEAS! (INDICA). Lists prices for various sizes and types of azaleas.

Advertisement for FERN PTERIS TREMULA. 'NOW READY.' In excellent condition. Price \$3.50 per 100.

Advertisement for AMPELOPSIS VEITCHII. 'NOW READY.' Large plants, 3 1/2 to 3 feet in length. Price \$5.00 per 100.

Advertisement for PALMS, Etc. and BEGONIAS. Lists prices for various palm and begonia varieties.

Advertisement for FERN PTERIS TREMULA and AMPELOPSIS VEITCHII. Lists prices and contact information for R. WITTEBATTER.

Advertisement for AMPELOPSIS VEITCHII. Lists prices and contact information for C. R. BENTON.

Advertisement for BEGONIAS. Double Flowering. Lists prices for different varieties.

PALMS, &c.

An immense stock of PALMS—Ficus Elastica, Aracaria Excelsa, Pandanus Veitchii and Utilis, Cycas Revoluta, Adiantum Parryense, &c. All sizes. Hardy, strong, home-grown plants. Will last and give satisfaction. Prices moderate. Price List on application.

CHAS. D. BALL, - - Holmesburg, Phila., Pa. When Writing Mention Florists' Exchange

Orange Glazette, Lombly. 15 to 20. 15 00
Orange Glazette, Lombly. 15 to 20. 15 00
Orange Glazette, Lombly. 15 to 20. 15 00
Orange Glazette, Lombly. 15 to 20. 15 00

Advertisement for GLOXINIAS (Erect Flowering). Lists prices for different varieties and quantities.

AZALEA INDICA

Will be ready for delivery October 1. Write us for prices on these; also Dutch Bulbs. L. C. BOBBINK, Rutherford, N. J.

PALMS

Areca Lutescens, Latania Borbonica, Kentias, Cocos Weddelliana, &c. HARDY, HOME-GROWN, PERFECT PLANTS, VERY LARGE STOCK OF ALL SIZES. PRICES LOW. SEND FOR WHOLESALE LIST.

JOSEPH HEACOCK, Wyncote, Pa. When Writing Mention Florists' Exchange

Advertisement for ROYAL NURSERIES, LOUIS VAN HOUTTE PÈRE, Ghent, Belgium. When Writing Mention Florists' Exchange

Advertisement for 300,000 Small and Large FERNS. In variety, well-grown, reasonable prices. Send stamps for samples.

Advertisement for B. REDFIELD, - Glenside, Pa. When Writing Mention Florists' Exchange

THE SPECIAL OFFER OF

We again call special attention to our stock of Palms, which is the largest and most complete in the country, especially in the varieties and sizes used in the general Florist's trade; our stock of Kentias alone occupying over one and a half acres of glass, and all other popular varieties being on hand in proportionate quantities.

Table for ARECA LUTESCENS. Lists prices for different pot sizes and heights.

Table for COCOS WEDDELIANA. Lists prices for different pot sizes and heights.

Table for GEOMORPA GRACILIS. Lists prices for different pot sizes.

LATANIA BOBONICA. One stock of Latania in small sizes is again in excellent condition, especially the 2, 3 and 4 inch pots.

PHENIX RECLINATA. 4 inch pots, \$3.00 per doz.; \$25.00 per 100; \$25.00 per doz. 8 inch pots, \$4.00 per doz.; \$35.00 per 100.

LIVISTONA ROTUNDIFOLIA. We have a grand stock of this miniature Latania, the most graceful of all the Pandanus family, and a variety that sells on sight.

Table for PHENIX RECLINATA. Lists prices for different pot sizes.

Table for PHENIX RECLINATA. Lists prices for different pot sizes.



KENTIA BELMOREANA.

Table for PTYCHOSPERMA ALEXANDREI. Lists prices for different pot sizes.

Table for KENTIA BELMOREANA. Lists prices for different pot sizes.

Table for KENTIA BELMOREANA. Lists prices for different pot sizes.

Table for KENTIA BELMOREANA. Lists prices for different pot sizes.

Table for KENTIA BELMOREANA. Lists prices for different pot sizes.

Table for KENTIA BELMOREANA. Lists prices for different pot sizes.

Table for KENTIA BELMOREANA. Lists prices for different pot sizes.

HENRY A. DREER, 714 Chestnut St., PHILA., PA.

When Writing Mention Florists' Exchange

**Combating Aphides on Violets.**

I am interested to the extent of twenty thousand plants in violet culture and no less success for five years. The hardest problem found in handling them is the control of aphides. Tobacco steams and powder, and while the aphides are not always killed, they usually suffer severely with spot after the use of tobacco in any form except smoke. The hydrocyanic gas, and the use of it, open or I would fumigate with tobacco, which, as already stated, has been the best remedy. The plants, however, do not look more promising now than ever before this season, but are beginning to show signs of recovery. The question can be done to keep them in check and do the least harm to the foliage? To use the hydrocyanic gas you recommend in the Florists' Exchange is out of the question, as the gas has all piled up and the houses shaded with kifs, mats, and brush.

I have rose-leaf tobacco extract on hand and have been thinking of mixing six ounces of it with five ounces of strong aqua ammonia, saturated with copper carbonate, and let them stand long enough to destroy any fungous spores that might be in the tobacco extract, then add to a six gallon knapsack sprayer of water and use that as a spray once a week. Would that be absolutely safe? It has been used that amount of copper carbonate solution to the knapsack of water once a week for the spot. It works well. I have also washed soap on hand. Would one-half pound of that to six gallons of water do the work?

You can understand that with a good crop in prospect, I am exceedingly anxious not to make any mistake. I am afraid of the tobacco extract unless the copper carbonate will make it safer than the former use of tobacco. Would you think that the spot on the leaves of the tobacco was the same as that affecting the tobacco plants in the market?

Aphides, especially the black ones, was once the most serious pest with violets. I have seen them, but have abandoned the hydrocyanic acid gas treatment, however, as described in a recent issue of the Exchange. It has been a serious trouble. So important do we consider the matter of being able to use tobacco in the market, that I have tried throughout the entire season in such a way that the plants may be fumigated at any time.

We abandoned tobacco extract some time ago, as we found by experience that no matter how used, it would tend to weaken the foliage and make it more subject not only to spot, but to other diseases as well. I have also washed with the tobacco leaves, stems, or extract contain the spores, or reproductive bodies of the spot fungus, and that when any of these materials are used we are sowing the seed of disease, so to speak. While the spot fungus, in its various forms may contain a few spores, there is never a time when the foliage is kept strong and vigorous, however the spores are destroyed. It is, however, experiments we can tell how many spores of the fungus will fall in a given time in any season, one by season. At night, when the air is still, it is not uncommon for twenty-five or thirty spores to fall on a square inch of the surface of a twenty-five cent piece. Every one of these spores is capable, under certain conditions, of producing a new fungus on leaf and producing a spot. It is no wonder, therefore, that we frequently find a spot on a leaf, when it has been used.

Now when tobacco is used, either as smoke, dust, stems, or extract, it seems to me to increase the vital functions of the leaf, the little cells of which temporarily lose their vitality and their ability to counteract diseases. Here is the opportunity the fungus needs, and it at once takes advantage of it by sending a hyphae into the tissue of the leaf. Once the tissue is entered the fungus confides to grow until the plant is dead. The fungus is not so fastidious. The spot then turns white, but when conditions are favorable the fungus will start anew, and the spot will be found soft, greenish, and watery. So the battlegoes

on. If the grower be wise he will try to fumigate his plants so that they can of their own accord check the fungus, for this, in the judgment of the writer, is the only way to master the disease when it once starts.

I would never use copper in any form on the foliage, nor would I use lime, for careful experiments have shown that these materials are of little or no use and sometimes may prove positively dangerous. We can produce most beautiful cases of spot with air-slacked lime alone, and can do the same with Bordeaux mixture under certain conditions.

Coming back, however, to the aphid question, the writer would recommend that the ash be put on at once if possible, and then that the plants be given one or two fumigations with cyanide gas, as already described in these columns. If it is not practicable at this time to put on the ash, then instead of using tobacco, give the plants a thorough



Cyclamen "Papilio." (A new strain).

our hose is only three-eighths of an inch in diameter and, while strong, is very light, so that it can be pulled directly over the plants without hurting them at all. Six gallons of the solution, put on as described, will cover about 500 million plants; in other words, the soap for the work will cost about ten cents per 1,000 plants for each spraying. A great many experiments have been made and many different kinds of soap have been used, but we have found nothing so good as plain Ivory soap. Strong soaps, such as white-cast, soft soaps, etc., should never be used, as they will injure the leaves in time and will certainly spot the flowers if the plants are in bloom. By actual experiments we have found that the Ivory soap will kill from 80 to 95 per cent of the aphides with which it comes in contact, and from 90 to 98 per cent of the red spiders. If not killed all the spiders' eggs, nor will it in every case destroy the young ones. The red

**Cyclamen "Papilio."**

Our illustration shows several flowers of this new and beautiful strain of cyclamen, which is very different from the Papilio or Butterfly. The originator states that it is a freak of nature, neither a cross nor a hybrid, but is the result of twelve years constant work in selection. The strain is absolutely distinct from any other known variety, and with marvelous constancy, surpassing in richness of coloring any yet observed in the class. The form of the petals of the flowers is incomparable, and its flowering qualities are surprising.

Five Dunsen Street, New York, to whom we are indebted for the illustration, writes us to the effect he has seen the strain flourish for the past three years, and the plants a superb display when in full bloom. The owner has been working up stock for the past 12 years, which has resulted in securing only the finest varieties. Some of the flowers are almost flat, and he expects to produce a variety with large, round, perfectly flat fringed blooms which will indeed be a charming novelty, especially as this one is so wonderfully reflowering.

**ROSES.**

As trade in the cut flower line is beginning to pick up considerably, many will begin to get anxious about getting the roses; at the same time the high prices and large demand at Christmas is something else to be calculated upon. I have seen roses for sale about the middle of June, from the first to the middle of June, for the reason that plants planted that date are strong enough to produce some flowers about now without injury to future crops; also by cutting early the crops will be ready to produce another week in October. To get a crop off by this time will be just about right to have to cut the roses in the winter. We get anything like reasonable weather.

I don't wish to convey the impression that it is best to get an early crop of roses, or that every bud that is formed should be left to develop. On the contrary, we must be very particular to the size and strength of each individual plant, and then only let those that are in our judgment strong enough produce a flower or two. At the same time the quantity of stem and foliage cut with each bud should have careful consideration.

It ought to be superfluous for me to mention that a person should be allowed to cut, especially just now, and the same is equally true in regard to disbudding. To allow an incompetent person to perform this work, cutting indiscriminately and letting nearly all the buds develop, will most assuredly result in financial loss during midwinter.

To get along with as few flowers as possible early, and being careful not to have any surplus that will be consigned to the rubbish heap, will require a great deal of care and attention, and over again for our foresight and trouble, during the holidays.

Greatly to be feared is to be more troublesome, and at the same time tobacco smoke will be more injurious. It is better to have the foliage and stems to work injury. My experience that the flowers will be more plentiful if we are careful with syringing, seeing to it that the foliage is well dried off before syringing, resulting in the foliage being the most susceptible to black spot; if syringing is done the next morning after finishing the work, it is better to turn the foliage over, the flowers that are only partially destroyed, the foliage that is left will be more healthy on the edges of the leaves and stems being covered with little plaques of water, which will remain visible and clean dried off by nightfall. Under such conditions we are most liable to get black spot, and also other diseases, and other kindred fungous diseases, that will come no end of trouble and loss. We are sure that the plants that are in perfect health will not have much water adhering to them after syringing. H. H.

treatment with a solution of soap. Possibly one or two applications of the three applications of this material, say at intervals of four or five days. As we have never published a description of our plan of using soap a detailed statement of the method may be of interest to the readers of the Exchange.

Take a 5-cent bar of Ivory soap, and with a knife, or preferably a small plane, shave it up, and then add about two quarts of boiling water. The soap will immediately dissolve, when three gallons more of cold water should be added. With a good, strong force pump, provided with suitable hose and a cyclone nozzle, spray the plants thoroughly with the solution of soap. The nozzle should be held down under the plant, and the spray, which is like mist, should be directed at first upwards and then into the crown. It is necessary to be quick, for a motion of the hand, if properly made, under the plant and then down in the crown will not get every leaf and limb. To give opportunity for rapid movements, about a foot of discharge hose should be used.

fellows, however, are killed by the soap almost as soon as they are touched. If any one can see by taking a leaf infested with spiders and dipping it into soap solution, that the soap, when in contact with the aphides they make a few struggles and die in from five minutes to half an hour.

The soap should be put on early in the morning and after it has been on the plants ten to thirty or more hours should be syringed off with clear water. This syringing, serves two purposes, (1) It cleans off the soap and (2) it washes the spiders and aphides down to the ground, where those not killed starve before they can again reach the plants.

Never mix tobacco with the soap, as it adds nothing to the value of the latter and makes a mess that may show on the foliage for a month. Clean, pure, mild soap will do the work; in fact, after using it for several years, we know of nothing better or cheaper for combating many kinds of insects infesting both greenhouse and house plants.

B. T. GALLOWAY.

**Must be Fresh, Not Dried Up.** Buy the Best Always.

75 Cents per 100 lbs. BALES WEIGH 450 lbs. each.



Exclusively a Trade Paper.

Entered at New York Post Office as Second Class Matter

Published Every SATURDAY by

A. T. DE LA MARE PUBLISHING CO., LTD.

2, 4, 6, 8 Duane St. New York

P. O. Box 1897. Telephone 2154 Cortlandt

REGISTERED CABLE ADDRESS (Commercial Cable) Florists, New York

SUBSCRIPTIONS:

\$1.00 per year to United States, Canada and Mexico... \$2.00 per year to foreign countries...

DATE AND ADDRESS label shows when the subscription expires... Do not order receipt unless otherwise instructed.

ADVERTISEMENTS:

Copy must reach this office not later than Thursday in order to secure insertion in issue of the following Saturday...

Exclusively a Trade Paper.

THE FLORISTS' EXCHANGE is published in the interests of those commercially identified with the Florist, Seed and Nursery business...

BOOKS.

Send for our catalogue of horticultural books, just off the press. It contains all the leading publications in this line.

Contents.

Table with 2 columns: Article Title and Page Number. Includes Aster Worn, Carnations, Changes in Business, etc.

For the Busy Man.

Violets reached the New York market as early as August 21... French stocks of Lilium candidum are reported as being very short.

Read what Professor Galloway has to say about the soap roses... We beg to call the attention of those interested in the circular issued by the Fire Insurance Committee, on page 816.

A clearance sale of palms and ferns at the establishment of Procter & Martin, Short Hills, N. J., will occur October 4, 5, & 7.

C. L. Watson, Des Moines, Ia., has been elected president of the American Pomological Society, and Professor T. J. B. Smith, of Purdue University, Iowa, secretary and treasurer.

At the recent meeting of the Society for the Promotion of Agricultural Science, held in Detroit, Mich., Dr. Byron D. Hall, of the New Jersey Agricultural Experiment Station, Newark, N. J., was elected president...

Reflections on Current Topics.

The receipt of a notice of the reconvening of the New York Florists' Club on Monday next after a lengthy vacation, recalls a conversation I had with one of the club members...

The point system in its relation to the exhibits before the American Ornithology Society is evidently a disappointment to some of the members who want it abolished.

It has been stated that florists' clubs can be of great service to the Carnation Society... Why cannot the Carnation Society pay to the certifying club a certain amount of the entry fee charged by the Society?

As regards judges for new seedlings at the exhibition of the Carnation Society, it occurs to me that one man drawn from each florists' club's committee should be appointed to act as judge.

To what base uses? some winners of the S. A. F. certificates of merit evidently put these flowers to very low uses... "Ornamental horticulturists." Give the private gardener and the amateur flower lover some reason to believe that the doors of the S. A. F. A. O. H. are open to them...

A notice American Gardening in a recent issue made a suggestion that, I think, will be of the greatest value to our members... "ornamental horticulturists."... A friend of mine has gone from the commercial ranks into those of the private gardener.

American Pomological Society.

At the meeting of this society, held in Columbus, Ohio, this week, the following officers were elected: President, W. Watson, Des Moines, Ia.; vice-president, G. W. Campbell, Delaware, Dc.; secretary, J. T. B. Smith, Purdue University, Indiana; treasurer, L. R. Zitt, Agricultural College, Mich. The membership fee was reduced from \$4 to \$2.

Mutual Fire Insurance Co.

The subject of fire insurance is one that has of interest several S. A. F. conventions. The complaint against the exorbitant rates of old line companies has been generally heard... The fire insurance committee of the S. A. F., consisting of E. H. Michel, John G. Esler, and H. C. Seibert, etc., has submitted a classification of greenhouse risks which was approved by the National Board of Underwriters... The Mutual Fire Insurance Co. has taken the matter from their table for action, and that board refused to recognize it.

If the usual apathy of the trade allows this opportunity to organize a fire insurance company, it will be a long time before another effort will be made.

New York.

Wholesale Market. The price of the cut flower business is going from bad to worse. With the advent of September some slight improvement was noticed, but it has not materialized for the week now ending will rank as one of the duller of the season.

Young roses are now coming into crop quite freely, and this has increased the supply of high grade flowers... The carnation demand was uncertain: at intervals they were selling fairly well for 75c and 80c but fell to figures a way below these prices.

As yet there is the talk of a very low price being taken, such as 25c, per 100 plants, etc., one finally rising to \$1 and \$2... The carnation demand was uncertain: at intervals they were selling fairly well for 75c and 80c but fell to figures a way below these prices.

Violets have made their appearance early this season, in fact, too early to be regarded as anything but a surplus... Ford Bros. received a few bunches of violets August 21, and again another small shipment Friday.

F. A. Bolker is rejoicing over the birth of a daughter which was presented to him on the 1st inst.

The stores are unusually quiet, and are carrying but very little stock, either in plants or in flowers... The floral work comprises the bulk of business, consequently wild flowers are most in demand.

An enterprising reporter speaking of a small wedding decoration which took place this week, said the body of the bouquet consisted of white chrysantheums, roses, rather airy...

Auction Sales. The season is now in full swing. Clean, well kept, on October 21, 22, and 23, the following will hold their first sale Tuesday next, Sept. 24, 25, and 26, and first in the city, R. M. Gardner & Co. also commence on the same date.

Various specimens of palm, ferns, etc., is announced to be held at Short Hills, N. J., by order of the receiver of the Fitchburg and Lowell, on October 4, 5, 6 and 7, Cleary & Co. are the auctioneers.

Horticultural Expositions.

The fourth week of exhibition at Madison Square Garden, beginning September 27 and continuing till October 23, promises to eclipse any previous attempts ever made in this city... The Dahlias Society expects to make a monster exhibit, and carries from the city to the exhibition grounds a permit William J. Ellison, Woodburn, for the construction of a new greenhouse, 11x55 feet.

The Chrysanthemum Society of America will have their annual exhibition on the best six blooms each of six standard varieties. This is likely to bring out the best of the exhibitors...

The Building Department has issued a permit William J. Ellison, Woodburn, for the construction of a new greenhouse, 11x55 feet.

After the long rest the members have enjoyed, a large attendance is expected. The Philadelphia Horticultural Providence will be the topic for discussion.

Henry A. Siebrecht, Sr., has been compensated for malaria, and is now recovering from malaria troubles. We understand he has been very ill, but are glad to state that a cure has been effected...

Philadelphia.

Business has been very dull the past week, even worse than in some weeks during the past year... The quality has had little to do outside of some funeral work. Roses are now becoming more plentiful and the quality has also improved. Prices have in greatest demand at present, beauty is being \$1.50 to \$2 per 100, while \$3 to \$4 has been the price of average quality for some time...

Valley has been selling well; first quality, 60c; second quality, 50c; and third quality, 40c. To 75c, per 100 is the price asked, but many growers are those figures...

Tuberoses are selling better this season; \$2.50 and \$3 per 100 and sell slow. Gladioli are very plentiful and sell slow.

Valters in Town. James Field, Boston; Miss Field, Baltimore; Mr. McMullin, of Galvin Bros., Boston.

The meeting on Tuesday last was well attended... The nomination of officers to serve for the next year, and owing to some many declinations... The election takes place next month. The subject for the essay for October will be "The Future of the Florist." The Florist the Coming Winter? It has been assigned to Mr. C. B. Smith on the various committees. As far as Philadelphia was concerned, the convention was a success... returned home covered with glory, and without a doubt this would be the means of a large delegation of the sporting...



Toronto.

An Exhibition.

The plant exhibit at the Toronto Industrial Exhibition both in quantity and quality was considerably ahead of last year...

The arthuriums were all foliage varieties, the first and second prize lots were all good plants...

In the class for stove and greenhouse flowering plants, there were five entries...

In fancy caladiums the most of the entries were not up to the standard...

There were very fine entries for twelve cuttings, the first lot was very good and hard to judge...

In the class for six adiantums the entries were hardly up to the standard...

In the class for 50 ferns in 3-inch pots the exhibit was not nearly so good...

For 75 foliage plants, distinct varieties, there were four entries...

The tuberoses, there was one very good exhibit, the other two were not up to the mark...

The class for flowering begonias was poorly filled, there being but one really good plant...

In the single and double geraniums were away below par...

In the class for ferns and rare plants there were some new dracaenas...

The specimen plants in bloom trained on standards included the plants for prize lot, all styles...

The classes for ferns and cypeds were all first-class...

The orchids were a rather poor lot, but that is nearly always the case...

As an extra entry Sir C. Gzowski exhibited a fine plant of Cyclis...

The woodman has taken another wife partner in Miss Amanda Shaw...

Evergreen Ala.

Caldwell, the woodman, informs us that his company is not yet incorporated...

Milwaukee.

Business on the whole is fair, with a slight increase over the same time last year...

Carnations, especially white, are scarce. Some very fine large white asters are coming into the market...

Very little building has been done in this vicinity...

New Haven, Conn.

Smith T. Bradley is busy touching up his plant. His roses look well...

John Champion is on top with a fine lot of chrysanthemus...

Robert Vetch & Son report a good bulb season...

East Rutherford, N. J.

W. E. Volmer, who, until recently and for five years, rented the Archway greenhouses...

The houses in question are substantial in appearance and should produce excellent results...

The work was only completed last week. Mr. Volmer already has one house planted with roses...

Having a surplus stock of white-flowering Horse Chestnut...

White Plumage and Giant Pascal. Field-grown plants \$1.00 per 100...

C. M. GROSSMAN, Wolcottville, Ind. When Writing Mention Florists' Exchange

LETUCE and TOMATO PLANTS. For Fall and Winter use...

H. VINCENT JR. & SON, White Marsh, Md. When Writing Mention Florists' Exchange

PEACH AND PLUM TREES FOR FALL PLANTING. Reliable and clean stock...

ALEXANDER PULLEN, Milford Nurseries, Milford, Del. When Writing Mention Florists' Exchange

ORNAMENTAL TREES AND SHRUBS.

Roses, Bulbs and Hardy Perennials. In Large Assortment and of Superior Quality.

Fully believe that we can show more Ornamental Trees and Shrubs, and a larger, finer block of Hardy Roses...

When Writing Mention Florists' Exchange

10,000 FIRST QUALITY FORCING ROSES

Fully equal to those sent out the last four years, first-class in every respect.

J. L. DILLON, Bloomsburg, Pa.

AMERICAN BEAUTY.

Special List Prices including delivery in Philadelphia or New York promptly.

BRIDE ROSES, STRONG PLANTS

When Writing Mention Florists' Exchange

20. ROSES 20.

When Writing Mention Florists' Exchange

THE 3 RAMBLERS.

When Writing Mention Florists' Exchange

FIELD GROWN CARNATIONS.

When Writing Mention Florists' Exchange

NEW AND LOCAL SPECIES

When Writing Mention Florists' Exchange

ROSES

When Writing Mention Florists' Exchange

VIOLETS.

When Writing Mention Florists' Exchange

100,000 PEACH TREES

When Writing Mention Florists' Exchange

CARNATIONTHUMS.

When Writing Mention Florists' Exchange

Chicago.

In the middle of the week it looked as though stock was to accumulate... State of Trade.

Buffalo.

Pleasant Summer weather now is with it... Cinnacini.

Market News.

Business during the past week has been very satisfactory for the season... Market News.

As to carnations, the dollar mark lasted but a few days, and 50c. to 75c. is now the prevailing price...

Around Town.

Basset & Washburn are cutting prime valley, but the demand as yet is not so brisk...

Jottings.

William Murphy has all his carnations homeed, they are in splendid condition...

The county and other fairs are supposed to be doing well...

The Bulb Business.

In the matter of the bulb trade J. C. Vaughan, who is now receiving large shipments...

Amoec Growers.

J. F. C. Meyer on Dumming street, last year, through a bad selection of soil...

T. F. Keenan, of Wentworth avenue, is preparing his mushroom beds...

The weather here is now depressing and gloomy nights...

Rochester, N. Y. Elwanger & Berry, Mont Hope Nurseries, shipped September 4...

FARQUHAR PLANTS.

Strong, healthy plants, from pots, \$5.00 per 100. Cash with order.

VIOLETS! VIOLETS!

MARIE LOUISE. Very good, clean and healthy in every particular...

MARIE LOUISE VIOLETS CARNATIONS

Field-grown, \$4.00 and \$5.00. FLORIDA HOT WATER BOILER

L. E. MARQUESE, Syracuse, N. Y.

VIOLETS MY SPECIALTY!

Marie Louise and Lady Campbell, from 34 inch pots, \$1.00 per 100...

GOOD SMILAX PLANTS.

FINE STOCK OF VIOLETS.

Prices of Wales, Luxonne, California, Admiral Avelino, Shoemrann, Lady H. Campbell, Swanley White, all good strong clumps...

PRIMROSES.

Strong, large plants, grown from seed, 3 in. pots, \$4.00 per 100...

MARIE LOUISE VIOLETS

CARNATIONS.

GEO. H. BENEDICT, Yorkville, N. Y.

CHRYSANTHEMUMS.

Twenty-five best varieties for cut flowers. Pink, White and Yellow, \$2.00 per 100...

R. H. MURPHY, Urbana, Ohio.

VIOLETS.

Luxonne, 400 per 100; \$4.00 per 100. California, 400 per 100; \$4.00 per 100.

VIOLETS FOR BEHCING NOW.

M. Louise, Campbell and Swanley, fine strong 3 1/2 in. plants, \$5.00 per 100...

VIOLETS

2000 extra strong Marie Louise, 4 inch pots, \$5.00 per 100...

CARNATIONS

400 extra strong, from open beds, \$2.00 per 100...

JOS. R. FREEMAN, WASH'N, D. C.

When Writing Mention Florists' Exchange

Marie Louise Violets

8000 strong healthy plants, no disease. No cuttings, no cuttings, no cuttings...

J. C. CREMB, Onida, N. Y.

FIELD-CROWN MARIE LOUISE VIOLETS

Free from Disease. \$4.00 per 100. \$1.00 per 100.

W. A. MILLS, Port Chester, N. Y.

PEARLGRAINS

Victor, and other good varieties, 5 in. to 3 1/2 per 100.

JOHN C. EISEL, PHILADELPHIA, PA.

Parisian Violets

POT-GROWN SEEDLINGS. \$4.00 per 100.

J. KADLETZ, P. O. Box Dongan Hills, N. Y.

CHINESE PRIMROSE PLANTS.

Prima chincensis imbricata, extra strong plants, 2 1/2 inch pots, blue varietals...

PRIMROSES

1000 Primrose, ready for 3 in. pots, \$2.50 per 100.

J. A. BALLER, Bloomington, Ill.

CHINESE PRIMROSE PLANTS.

Strong and well grown, ready for 3 in. pots. This fine stock is the best preparation of best unsurpassed...

JOHN F. RUPP, Shiremanston, Pa.

CHINESE PRIMROSE PLANTS.

Strong and well grown, ready for 3 in. pots. This fine stock is the best preparation of best unsurpassed...

CHINESE PRIMROSE PLANTS.

Strong and well grown, ready for 3 in. pots. This fine stock is the best preparation of best unsurpassed...

CHINESE PRIMROSE PLANTS.

Strong and well grown, ready for 3 in. pots. This fine stock is the best preparation of best unsurpassed...

CHINESE PRIMROSE PLANTS.

Strong and well grown, ready for 3 in. pots. This fine stock is the best preparation of best unsurpassed...

CHINESE PRIMROSE PLANTS.

Strong and well grown, ready for 3 in. pots. This fine stock is the best preparation of best unsurpassed...

CHINESE PRIMROSE PLANTS.

Strong and well grown, ready for 3 in. pots. This fine stock is the best preparation of best unsurpassed...

THE ADVERTISEMENT.

Southern California Notes.

State of Trade.

All business has felt the general depression in southern California, and with this depression the florist, the seedman, the nurseryman, and the grower have all been compelled to hedge on their expenses and hang their heads. But one has suffered no more than other lines, and now that the tariff is settled, for the time being at least, there is a steady and healthier feeling prevailing, and business on the whole is gradually improving. In some sections, however, the trade has been intensified in California by prevailing local conditions. The low market prices for fruit and vegetables and crops has greatly retarded tree planting, and as a result the nursery business has been almost at a standstill, leaving a number of nurserymen have gone out of the business. The sale foremanics has been light, but in the way of ornamentals, propagators of first-class stock have done fairly well. The seedmen quite generally complain of light sales, and an unusually dull season. The florist trade presents some anomalous conditions. The last city census gives Los Angeles a population of over 100,000. This increased population has of course enhanced the demand for cut flowers and dried stock, but with this larger population has also come an increase of florist establishments, there being up to 100 florists and florists doing business in the city, yet saying nothing about private gardens. In a small way, "pick up change" selling has increased. Of course the demand is constantly growing for a better class of flowers, hence there is a gradual "grading up." Two or three of our flower stores are the best of the West Coast, and one or two in New York. The result will eventually be "the survival of the fittest."

Seed Farms in California.

The growing of a flower, field, garden and tree seeds is a branch of the business in which I have always taken a keen interest. All the conditions here are certainly favorable to seed and bulb raising in so far as climate, soils, and water for irrigation are concerned. This growing factor—or rather two, to be particular—that certainly is an obstacle, and that is cheap labor. There is a considerable number of laborers who are so hazardous when we come to compete with European growers. Another point that is a disadvantage is the fact that we do not appreciate the small economies of farming and gardening. The Western idea of a poor man's garden or "one row" still permeates the atmosphere. What we waste would support the European grower in many instances, and to defeat our aim for the present in becoming a seed-producing section. But in spite of all the creditable heading has been made. A number of purely seed and flower farms are already a feature in our southern California landscape. No are they necessarily isolated ones. A number are situated in Los Angeles County, two or three in Ventura County, one in Orange and San Diego Counties, while the dealers buy up from private sources and sell in quite a quantity of seeds and bulbs on the side. This latter phase of the trade really "cuts some ice." Elmo H. Meserole recently shipped 600,000 bulbs, while the German Fruit Company sent out some 30,000; possibly the complete shipment for the season. Los Angeles will aggregate 100,000 bulbs. But to return to seed farms and seed growing.

Possibly the largest seed growers are John Bales and John Bales, Jr., of Santa Paula, Ventura County. They have some 200 acres devoted to the business and produce by the acreage of such things as lettuce, cucumbers and onions, 80 acres in flower seeds—10 of which were in asters (geraniums) and for cut flowers. They supply crops for the farm, fruits, etc. They grow almost exclusively for the trade, and are not open to the public under direct contract for large Eastern dealers. Their specialty crops are asters, Begonias, stocks and geraniums, sweet peas, and leading novelties. In vegetable they buy particular stress on beans, onions and frame cucumbers. This firm has done reasonably well at the business, commencing in a small way, and gradually increasing to the present acreage as the business would warrant. In a more limited sense Mrs. Shepherd has made a success of her neighborhood with flower seeds, and enjoys the proud distinction of having introduced several improved strains in one or two instances new varieties.

All readers of the Florists' Exchange.

# YOUR FORTUNE IN STRAWBERRIES!

The Strawberry King and his Remarkably Successful Career: How a Poor Boy Became Wealthy.

THROUGH one of those strange dispensations which often mock in real life the wildest imagination of the novelist, the publishers of AMERICAN GARDENING have become possessed of the story of the life and cultural methods of Henry Jerolaman, undoubtedly the STRAWBERRY KING OF THE UNITED STATES. We have prevailed upon Mr. Jerolaman to write the history of his life and a full description of his cultural methods, exclusively for the readers of AMERICAN GARDENING. Further than this and at our urgent solicitation we have prevailed upon him to make a contract to supply us One hundred thousand plants of the HENRY STRAWBERRY, which we will distribute only as premiums to subscribers to AMERICAN GARDENING. The unrivalled HENRY STRAWBERRY has positively never been advertised until now.

THE CONTRACT

*Publishers American Gardening.*  
Gentlemen,  
I readily agree to furnish you within the next twelve months in quantities as ordered. One Hundred Thousand plants (100,000) or any portion thereof, of the Henry Strawberry, to be used solely as premiums for subscribers to American Gardening and not to be sold.

Witness my hand and seal this 15th day of May, 1910.  
(Signed) Henry Jerolaman  
John P. Quinn

## The Best Berry of the Age.

Four Berries of the Henry, grown by Mr. Jerolaman, rounded a wooden quart measure. The berries were three-and-a-half inches through each way. Mr. Jerolaman's description of the wonderful berry in a recent issue of AMERICAN GARDENING has brought him hundreds of inquiries from the cream of the professional growers.

### A GOLD MINE AT YOUR OWN DOOR.

"If you hesitate is lost." It is not likely that such an offer or such an opportunity will occur again in years. More than one Strawberry grower in every town, village, and hamlet can come into a good thing through practicing the cultural methods and getting some of the plants which have made Mr. Jerolaman not only wealthy and well-known, but so wonderfully successful, by at once

### TAKING ADVANTAGE OF OUR OFFER:

For \$1.00 (check or money order preferred) we will forward you, by mail, postpaid,

## FIVE PLANTS OF THE UNEQUALLED HENRY STRAWBERRY

OF THE UNEQUALLED

And AMERICAN GARDENING One Year.

Plants to be shipped this Fall or in the Spring, as you prefer.

Mr. Jerolaman's story will be found in the first issues mailed you and his cultural methods will be published in time to be of service for Fall planting.

### OFFER EXTRAORDINARY

For every new subscription you send us at \$1.00, we will forward you, postpaid, as a premium, Five Plants of HENRY STRAWBERRY, at the same time we will also send Five Plants to the party subscribing through you. Thus a club of ten new subscribers entitles you to Fifty plants of this wonderful Strawberry, as well as each individual subscriber to Five Plants. This is a BIG OFFER to all who want to become larger holders of this wonderful Berry, never before advertised. Time is short, get to work at once if you wish to accomplish anything before frost.

Address: Pubs. AMERICAN GARDENING, P. O. Box 1697, New York.

## READ THE CONTRACT

The publication of the below article in a recent issue of AMERICAN GARDENING, has brought Mr. Jerolaman hundreds of letters from every part of the country.

### Strawberries Henry and Mary.

We have grown almost all varieties of berries, but have only found two really large fruited ones. The one is Mary, originated by the late H. Alley of this village, the other is called here on Boyden Farm, Henry. We grow tens of thousands of quarts from each variety every year, and they are without doubt the largest and best of all grown in the whole world. I have had this season thousands of quart jars where from five to ten berries would make an opening wooden quart, and I have preserved several in glass jars, with formalin, so that all who doubt can come here and see for themselves. Some of these berries in the jars measure thirteen inches around. I am the present owner of the Seth Boyden farm. Seth Boyden originated the first large strawberries, perhaps, in the world (Agricuturist and others); he died in 1870. I then bought his farm, and have continued to grow strawberries from that time to this, and will say that I am positive the plant called Henry is, beyond all doubt, not only the strongest plant, but the largest, best, hardiest, and sweetest strawberry ever yet produced; color, dark crimson, it is perfect (staminate), very large, round, and no oxocorns grow on it. I have grown it for the past four years for market in a small way, and this season nearly one-half of all that I grew was Mary; it will out-produce any strawberry plant that I have ever known, four-year-old plants giving very large, and just as fine berries as plants one year old. The plants are yet have shown no disease, while all other varieties, such as Great American, Jersey Queen, and nearly all varieties except those so far mentioned, are diseased in the plant. The Henry this season could not stand the hot sun and nearly one-half of all the plants burnt and dried up while full of berries. Mary will not bear beyond seasons, and will be set every year, while of Henry, not a single plant has died, either old or young. It is the finest berry type of the last. I am picking large berries from the Henry to-day, July 15.—HENRY JEROLAMAN, N. J.

Mr. Jerolaman will not answer any further correspondence except through the columns of AMERICAN GARDENING.

## NOW READ THE ADVERTISEMENT

MESSRS. STEVENS, SIMPSON & CO., Commission Merchants, 232 West Street, New York City, state they handle the HENRY Strawberry, and have realized for it the highest prices obtainable for any outdoor stock coming into New York market. Mr. Simpson further states that, in his opinion, as grown, packed and shipped by Mr. Henry Jerolaman, it is the BEST HOME MARKET BERRY in existence. For SIZE, COLOR, and SWEETNESS, and in its KEEPING QUALITIES, IT HAS NO EQUAL; these many points in its favor rendering it easy for the grower to realize considerably more per quart than the regular market value of Strawberries generally.



Brookline, Mass.

Grafted Rose Acaer.

E. Palmer is having good success with grafted roses and good results will not be likely to return to this method. It was explained to a lot of Bride who were grafted and cropped last season. They are looking well. It was thought now and then that plants from plants grafted last Winter; the buds are small, but are increasing in size. First crop was immense. Plants were set out about eight weeks since. Bridesmaid was put-bound when planted, but is coming right along.

He finds the following plan the best and which is practically a repetition of what was one tried here. This method is a short time since, but will bear repetition, the subject attracting attention from so great a distance as Woodbridge, New Mexico.

Instead of throwing away the plants after Spring blooming, head them in out-doors until the weather becomes cold and the leaves fall, then lift and place in a frame so as to be easy of access when needed. December is the best month to graft. When grafted and potted, bring the plants along steadily; don't hurry them, and they will make the better stock. While they are in the house, water it and it is not too late now to take care of the old stock, if not already thrown out, they no objection to the use of new wood. Secure the Manetti stock in the Fall, trim and head in in moss in boxes which places in the house. This induces the roots to start a little, the wood remaining dormant. This is found advantageous when the grafted plants are potted later.

There is nothing mysterious or expensive in this method, and from my own observation a few days since these plants are equally as robust as some of the same varieties grown on other elaborate and expensive scale.

Mr. Palmer utilized his violet houses this Summer by planting Sappie's asters, and is cutting some grand specimens. As these are rather expensive when bought outside, it will be well to make a note of this for future guidance. I know several who are disappointed with the aster outside, but it is a beauty grown inside. Queen of the Market has done finely, but it is only too soon to be ready cutting. W. M. is the best early variety.

Fall River, Mass.

Frank Duffton is rebuilding three houses, one to contain pans. I noticed that from force of circumstances a batch of Cane Weddellias has been standing in a shady spot outdoors all Summer; the plants vigorous growth is remarkable. Doubtless the season has been very favorable, but they beat all plants grown under glass for color.

George Smith has just completed a rose house 175x25 and one 75x25 feet. L-shaped, a fine house of cypress with a room for piling up plants and for planting some well-grown stock in same.

C. Warburton has hardly finished telling what a good time he had when he learned at the convention. He is planting a capital stock of carnations; roses and violets are its first-class.

Norwich, Conn.

J. F. Smith has made considerable additions to and improvements on his plant. In carnations Daybreak is the only kind that rusts badly with him.

Chrysanthemums are all grown in pots and look first rate. Mr. Smith believes in taking late cuttings. He will quote a list of carnations pretty plants.

MANURE.

Fresh and well rotted horse manure. Manure for Macrorrhizous and especially for Scabious suitable for shipping by Pullen's R. R. to R. H. & O. and J. & W. Wood, Philadelphia, Pa. The Fulton Street, Philadelphia, Pa.

SHEEP MANURE

Cleaned and prepared material for florists use. You will find it the same as regular. For reference to prices apply to J. & W. Wood, Philadelphia, Pa. or to J. & W. Wood, Philadelphia, Pa. or to J. & W. Wood, Philadelphia, Pa.

CODFREY ASCHMANN.

1012 Ontario St., PHILA., PA. When Writing Mention Florists' Exchange

EVERY FLORIST OUGHT TO INSURE HIS GLASS AGAINST THEFT.

For particulars address JOHN G. ESLER, Sec'y, Saddle River, N.J. When Writing Mention Florists' Exchange

THE BEST FOR ALL Florists.



When Writing Mention Florists' Exchange

FOR MILDEW AND BLACK ROT on Roses, Fruits and Vegetables, and Carnation Rust.

USE FOSTITE, 5 pounds, 50 cts. 25 pounds, \$2.00. G. H. JOOSTEN, IMPORTER OF PLANTS, BULBS AND SEEDS, 193 Greenwich St., New York. When Writing Mention Florists' Exchange

Advertisement for 'THE BUG KILLER' and 'NIKOTEEN' with a circular logo and text: 'SAVE THE BLOOMS! NIKOTEEN DOES NOT INJURE SENSITIVE PLANTS. USED FOR FUMIGATION OF SPRAWLING INDOORS OR OUT DOOR PLANTS TRACED IN THE PINK WITCHEN. Price \$1.50. ALL SEEDSMEN.'

STANDARD FLOWER POTS

In any quantity, and of the best quality. Get my price list before ordering elsewhere. W. H. ERNEST, Station M. N. E., WASHINGTON, D. C. When Writing Mention Florists' Exchange

STANDARD POTS.

We are now ready to supply a superior quality of Pots in unlimited quantities. Catalogues and price lists furnished on application. A. H. HEWS & CO., NORTH CAMBRIDGE, - MASS. When Writing Mention Florists' Exchange

DO NOT BE HUMBLED INTO USING CHEAP Imitations of our GREEN SILKLINE



Contains more coral and does more work than anything else on the market. The original and only Silkline is made solely by JOHN C. EVERETT & CO., 87 Newark Street, Newark, N. J. When Writing Mention Florists' Exchange

DEATH TO THE INSECTS HARMLESS TO THE PLANTS.

Advertisement for 'THE KILL IT' insecticide with a circular logo and text: 'THE KILL IT. An Insecticide for such destruction of the Aphid cannot be excelled. For sale by the 1 lb. & 1/2 lb. seedsmen. THE KENTUCKY EXTRACT CO. Columbus, O. SOLE MANUFACTURERS. Bank of Directors Best Vase Application. When Writing Mention Florists' Exchange'

RAFFIA TOBACCO STEMS

Fresh and strong, 70c. per 100 lbs. Best Standard Flower Pots, Wood-fibre Cut Flower Vase, Rubber House all grades. Lowest prices! Mail orders shipped immediately.

EDWIN A. SEIDEWITZ, 36 W. LEXINGTON ST., BALTIMORE, MD. When Writing Mention Florists' Exchange

Standard Flower Pots. Send for our New Price List with extra discounts. All our Pots, from 7 1/2 in. and upwards, have our Patent Eucalypt Bottom, which is a great advantage, as it ensures perfect drainage. A FULL LINE OF BULB PANS. THE WHILDEN POTTERY CO., 713 7 1/2 W. HARTWELL STREET, PHILADELPHIA. BRANCH HOUSES: (Kearney and Westside Aves., Jersey City, N. J.) Jackson Ave. and Pearson St., Long Island City, N. Y. When Writing Mention Florists' Exchange

A GOOD HOSE IS A GOOD INVESTMENT

The best is the cheapest. To ascertain what a hose is worth, divide the cost per foot by the number of years it will last. We are in the market to compete in number of years with anything that is manufactured. Price \$20s. per foot for 3/4 inch; \$25c. per foot for 1 inch, and \$30c. per foot for 1 1/4 inch. 'Best hose I have bought in twelve years.' - N. STRIDER. 'It is fine.' - E. G. HILL. Address J. G. & A. ESLER, Saddle River, N. J. When Writing Mention Florists' Exchange

FLOWER POTS

We are Manufacturing a Full Line of STANDARD FLOWER POTS and HANGING BASKETS OF THE BEST QUALITY. Shipping Facilities First-Class, thereby Securing Lowest Freight Rates. Our goods are well packed, and breakage is nominal. Give us trial. Send for Price List. Address THE SYRACUSE POTTERY CO., 403 N. SALINA ST., SYRACUSE, N. Y. When Writing Mention Florists' Exchange

J. ANDRE LIQUID--The best, safest and cheapest Fertilizer sold. U. S. Patent and Trade Mark. THE AMERICAN JADDO CO., 811 Fairmount Avenue, PHILADELPHIA, PA. When Writing Mention Florists' Exchange

MASTICA

FOR GLAZING GREENHOUSES. SUPERIOR TO PUTTY IN EVERY WAY. Is not hardened by the extreme heat or cold that a greenhouse is constantly subjected to both inside and out. Maximum adhesion and remains permanently elastic so that it is not forced out of place by expansion and contraction of the wood-work. Houses glazed with Mastica do not need re-glazing, thus saving time and expense. With Mastica can "head-in" or use on the outside, but with a machine only. Mastica and Mastica Glazing Machine were awarded the HIGHEST AWARD OF SOCIETY OF AMERICAN FLORISTS AT PITTSBURGH, 1895. Put up in gallons, \$1.00. Half gallons, 60 cts. Quarter gallons, 35 cts. Mastica Glazing Machines, \$1.00 each. Send for Full descriptive circular and testimonials. Agents in all the principal cities. F. O. PIERCE CO., Sole Manufacturers, 170 Fulton St., New York.

..The Water Garden..

BY WILLIAM TRICKER. PRICE \$2.00. TWENTY-FIVE PER CENT. OFF TO SUBSCRIBERS TO FLORISTS' EXCHANGE. This work contains nine im-pi-photogravure plates, eighteen full page descriptive views of leading Water Gardens and Ponds, and numerous smaller pictures prepared with special reference to this work. On heavy enameled paper. Elegantly bound. Large octavo. The text describes all operations from the growing of plants in tubs to the aquatic home, wintering, construction of ponds, adapting natural streams, planting, hybridizing, seed saving, propagation, the aquatic home, wintering, correct designing and planting of banks and margins, and all other necessary uses. This Book is of vital interest to every Florist in the land, and all should by it read and read. Introduce Water Gardens in your locality and make money. A. T. DE LA MARE PTG. & PUB. CO., Ltd., P. O. Box 1697, New York City.

# LORD & BURNHAM CO.,

Horticultural Architects and Builders Steam and Hot Water Heating Engineers.

(Established 1836.)

Plans and estimates furnished on application for greenhouses, conservatories, and all kinds of Horticultural Buildings, erected complete with our patent iron construction; or for material only, ready for erection.



Largest Builders of Greenhouse Structures. Plans and construction embrace latest improvements. Six highest awards at the World's Fair. . . . .  
Send four cents postage to New York office for latest catalogue. . . . .  
NEW YORK OFFICE: 2107 ST. . . . . GENERAL OFFICE AND WORKS:  
160 FIFTH AVE., COR. 21ST ST. . . . . IRVINGTON-ON-HUDSON, N. Y.

When Writing Mention Florists' Exchange

## VALVES AND FITTINGS

For Pipes and Tubing.  
VENTILATING APPARATUS.



COLDWELL  
WILCOX CO.,  
Newburgh, N. Y.  
SEND FOR CATALOGUE  
Mention paper.

**Great Improved Challenge.**  
Roller bearing, self-oiling device, automatic stop, rigid link chain makes the IMPROVED CHALLENGER the most perfect apparatus in the market.  
Write for catalogue and prospect before placing your orders elsewhere.  
Quaker City Machine Co.,  
RICHMOND, IND.

When Writing Mention Florists' Exchange

# GLASS

FOR GREENHOUSES, CONSERVATORIES, GRAPERIES, HOTBEDS AND FLORISTS' USE GENERALLY, AT LOWEST RATES.  
L. HARRIS & SON,  
497 W. BROADWAY, NEW YORK, 89 LIBERTY ST., NEW YORK  
Est. Broome and Bowler Sts.

When Writing Mention Florists' Exchange

# GLASS!

For Greenhouses, Conservatories, Graperies, Hotbeds and all other purposes, at Lowest Rates.

N. COWEN'S SON, 392 & 394 West Broadway, New York,  
Formerly 154 and 156 So. Fifth Avenue.  
Get our Figures before buying Glass. . . . . Estimates Freely Given

When Writing Mention Florists' Exchange

# DON'T SYRINGE WITH COLD WATER

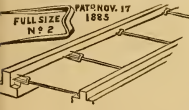
And so lower the vitality of your Stock, inviting Mildew, Black Spot, and other Diseases, but write for particulars of my Tempering Apparatus.

HENRY W. GIBBONS, HEATING ENGINEER AND GREENHOUSE BUILDER  
136 LIBERTY STREET, NEW YORK.

When Writing Mention Florists' Exchange

# CALIFORNIA RED CEDAR

Never Decays.  
A. DIETSCH & CO. 819 Sheffield Avenue, CHICAGO.  
MANUFACTURERS OF  
RED CEDAR AND CYPRESS GREENHOUSE MATERIAL.  
When Writing Mention Florists' Exchange



## THE VAN REYPER PERFECT GLAZIERS' POINTS

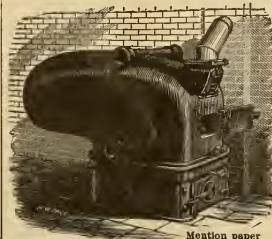
No rights or lefts. Price per box of 1000, 60c. by mail, 75c.; in lots of 5000 by ex., 55c. per 1000  
HENRY A. DREER, 714 Chestnut St., Phila., Pa.  
When Writing Mention Florists' Exchange

# The New Automatic Cable Ventilator

As it is put up in the house complete. We also give you prices with a guarantee that each machine sent out will operate your house successfully. Both machines now made in two sizes.  
A. Q. WOLF & BRO., Dayton, Ohio.

When Writing Mention Florists' Exchange

# GREENHOUSE HEATING AND VENTILATING, Horticultural Architecture and Building.



## Hitchings & Co

ESTABLISHED 1844.  
233 Mercer Street, NEW YORK.  
FIVE PATTERNS OF BOILERS.  
NINETEEN SIZES.  
Perfect Sash Raising Apparatus.  
Rosehouses, Greenhouses, Etc., of Iron Frame Construction erected complete or the Structural Iron Work shipped ready for erection.  
Iron Frame Benches with the "Perfect Drainage Bench Tile" or Slate Tops.

SEND 4c. POSTAGE FOR ILLUSTRATED CATALOGUE.

# STANDARD VENTILATING MACHINE, NONE EQUAL IT IN Strength AND Durability

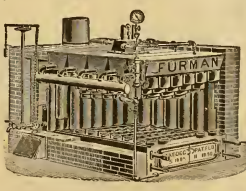


NOTHING Flimsy OR Complicated about it.

E. HIPPARD, YOUNGSTOWN, OHIO.  
When Writing Mention Florists' Exchange

# TRADE GREENHOUSES. THE BEST MADE.

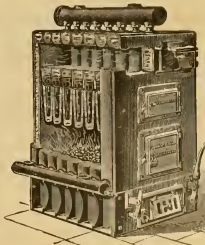
"Florists" Get Your Plans and Estimate from  
PLENTY'S HORTICULTURAL WORKS,  
148-156 Randolph Ave., JERSEY CITY, N.J.  
When Writing Mention Florists' Exchange



## FURMAN BOILERS

especially adapted to  
Greenhouse Heating.  
300 Styles and Sizes. Steam and Hot Water.  
SAFE, SUBSTANTIAL, SIMPLE, ECONOMICAL.  
Portable or Brick set.  
GREAT COAL SAVER.  
Send for catalogue. Estimates Free.  
THE HERENDEN MFG. CO.,  
Home Office: 13 Fay St., Geneva, N. Y.  
BRANCH OFFICES:  
Boston, 54 Oliver St.; Philadelphia, 1019 Betz Bldg.;  
New York, 39 Cortlandt St.; Milwaukee, 135 2d St.

When Writing Mention Florists' Exchange



## ATTENTION, FLORISTS!

It will be to your advantage to look into the merits of the Scollay "Invincible" Hot Water Boiler.  
It is all that its name implies, and don't forget it.  
Cuts and full information mailed on application.

JOHN A. SCOLLAY,  
74 & 76 MYRTLE AVE.,  
BROOKLYN, NEW YORK.  
When Writing Mention Florists' Exchange



**Wholesale Florists**  
 (AMATEUR OR PROFESSIONAL)  
 GARDENERS, ARCHITECTS, DESIGNERS.

**JOBBERS IN**  
 FLORIST'S SUPPLIES.

*N. F. White*

**FLORISTS' VASES.**  
 Horticultural Artisans.

84 HAWLEY STREET, - BOSTON.

**GEO. A. SUTHERLAND,**  
 Successor to WM. J. STEWART.

**CUT FLOWERS and FLORISTS' SUPPLIES**  
 WHOLESALE.

67 Bromfield St., Boston, Mass.

**City Hall Cut Flower Market**  
 WELCH BROS., Props.

Regular Consignors Given Space Free of Charge. Space let to growers wishing to sell their own goods.

Flowers Shipped to all Points.

...SEND FOR PRICE LIST...

**KEMMIGOTT BROS. COMPANY,**  
 Wholesale - Cut - Flowers,  
 88 Washab Avenue,  
 CHICAGO, ILL.

**WIRE WORK A SPECIALTY.**

**ROGERS PARK FLORAL CO.,**  
 Wholesale Growers of Cut Flowers

OFFICE AND SALESROOM,  
 41 WABASH AVE., CHICAGO.

Headquarters for AMERICAN BEAUTIES.

**H. L. SUNDERBRUCH CO.,**  
 Wholesale Commission Florists,  
 4th and Walnut Streets,  
 CINCINNATI, OHIO.

Consignments Solicited. Special Attention Given to Shipping Orders.

**HEADQUARTERS** In Western  
 New York. Try us

**ROSES, GARNATIONS and ALL SEASONABLE FLOWERS.**

**WM. F. KASTING, Wholesale Commission Florist,**  
 495 Washington Street,  
 BUFFALO, N. Y.

Also Dealer in Florists' Supplies & Wire Designs

**St. Louis Cut Flower Co.**

**WHOLESALE FLORISTS,**  
 1620 Olive St.  
 ST. LOUIS, MO.

**ILLINOIS CUT FLOWER CO.,**

J. B. DEAMUD, MANAGER.

Wholesale Commission Florists,  
 51 Washab Ave., - CHICAGO.

**E. G. HILL & CO.,**

**Wholesale Florists,**  
 RICHMOND, INDIANA.

When Mention Florists' Exchange

One of the Western Delegates.

Many florists through Missouri, Kansas and Nebraska have had business relations with George M. Kellogg of this city, but few perhaps this number have had the opportunity to look through his great cut flower factory two miles from Pleasant Hill. The place itself consists of over 70 acres of fertile ground, and on the highest point of it is the residence of its owner and his range of greenhouses consisting of almost 150,000 square feet of glass. From a small beginning only a few years ago, brought about through a desire to store a few plants over Winter, which caused him to build a small greenhouse. Mr. Kellogg has added from year to year to his glass structures until he today has the largest range of glass in the state; and with the exception of a very small space devoted to a few decorative plants in one of his houses, the entire plant is devoted to the growing of plants for cut flowers, principally roses. The varieties grown are such as the 'Crim. Maid', 'Perle' and 'American Beauty'; of the latter a specialty is made and the 300,000 feet of glass erected in 1878 is devoted almost entirely to this very marketable rose.

Thousands of bulbs are forced each year, and several houses are devoted to cuttings and seedlings. Everything in the greenhouses just now is looking very well, the houses having been renovated by white washed and painted in the inside, benches, practically making them the same as brand new. Mr. Kellogg is always on the alert for improvement, and makes several changes this year, which, while not absolutely necessary, will redound greatly to his benefit.

The office building and cold storage capacity for cut flowers have not been quite sufficient for the business, he is just erecting a large new office building at the lower part of his place. The first floor of it is partially underground in the slope of a hill, one-half being a cold storage cellar, the walls of which are built entirely of concrete, the base 18 inches, and the top solid rock and sloping gradually to the top, where they are about 12 inches wide. The cold storage is 18 by 12 feet in diameter and 60 feet in length. The banks of earth have been left on both sides about a foot wide and 30 inches high to be used as shelves, but doing so will not diminish the capacity of the cellar, being solid and cemented on both sides and top. The walk in the center is also cemented and well drained so that the place can be kept perfectly clean. A large refrigerator is connected with one end of this room and will help to cool it. The other half of the basement will be used as a sort of shipping room where the boxes after being packed in the cool room will be nailed shut and wrapped for shipping. On the upper floor will be Mr. Kellogg's office.

Another improvement will be in the heating apparatus. Mr. Kellogg now has five large horizontal radiators of about 30-horse power capacity each. They are now at two different points on the place, but he is building a new one together at the lowest point connecting all the lines into one large new brick chimney, which he is building before passing it into the chimney, however, he is in heating the water in two hot water boilers which he is to build on top of the steam boilers, thus utilizing much heat which might otherwise go to waste and which he thinks will be sufficient to heat the two or two of his large houses which are 282, feet wide and 200 feet long.

Mr. Kellogg was at the Providence convention and was one of those who so generously offered to help out the S. F. E. should its treasury suffer through the visit to Omaha next year. M. H.

**Galax leaves.**  
 CHAS. H. RICKSECKER, Linville, N. C.  
 When Mention Florists' Exchange

... FOR FINEST ...

**Galax Leaves and Leucocothoe Sprays.**  
 ALWAYS WRITE THE INTRODUCERS.  
 Highlands Nursery, Kawana, N. C.  
 When Mention Florists' Exchange

**GREEN-HOUSE CONSTRUCTION.**

This has been a specialty with us for many years and to us is due the credit for many of the great improvements that have been made in the construction of wooden green-houses. To those that buy our

**Clear Cypress Building Material**

we furnish, free of cost, complete detail drawings from which any intelligent workman can put up the material correctly. We have plenty of time to write letters ABOUT OUR BUSINESS, and we will be glad to hear from those contemplating building.

Write for Circulares or Estimates in one of these boxes.

**LOCKLAND LUMBER CO.**  
 LOCKLAND, OHIO.

When Mention Florists' Exchange

**ASPARAGUS PLUMOSUS NANUS,**  
 W. H. ELLIOTT, Brighton, Mass.

**ENGLISH IVY LEAVES** Greenhouse grown, 50 cents per 100; \$4.00 per 1000. Cash with order.  
 Mrs. S. A. CARPENTER, 44 Division St., Ashabula, O.  
 When Mention Florists' Exchange

**CHOCOLATE COOLER CO.,**  
 GRAND RAPIDS, MICH.

Manufacturers of  
**FLORIST'S REFRIGERATORS.**  
 Send for Circular.

When Mention Florists' Exchange

**M. RICE & CO.,**  
 Importers and Manufacturers of  
**FLORIST'S SUPPLIES.**  
 25 N. 4th St., Philadelphia, Pa.

**NEW FALL CATALOGUE NOW READY**  
 When Mention Florists' Exchange

**REED LETTER**

MANUFACTURED BY  
**FLORIST'S WIRE DESIGN CO.**  
 120 W. 25th St., New York City

TELEPHONE, 1782 18TH ST.  
 When Mention Florists' Exchange

**Emil Steffens** SUCCESSOR TO N. STEFFENS  
 manufacturer of  
**FLORIST'S WIRE DESIGNS**  
 - AND SUPPLIES -  
 335 EAST 21<sup>ST</sup> STREET, NEW YORK CITY.

When Mention Florists' Exchange

**Wire Designs. Wire Designs. Wire Designs.**  
**CHEAP! CHEAPER!! CHEAPEST!!!**

The Klondike and Alaska outdone. Have you seen it? Do you want it? You need it. All progressive Florists refer to it. Write the cut list of order.

**JAS. GRIFFITH'S LATEST CATALOGUE AND HARD TIMES DESIGN LIST.**  
 Lowest prices ever quoted. FREE! FREE! Send for it. Reserve your orders until you consult it. Send at once before they are gone.

**To JAMES GRIFFITH, Wire Designer,**  
 701 Main Street, - CINCINNATI, OHIO.  
 When Mention Florists' Exchange

Cat Strings, 10 to 15 feet long  
 50 cts. each.  
 Shipped to any part of the  
 COUNTRY.

**"JADOO"**

**FIBRE and LIQUID are used and endorsed by the leading growers.**  
 Try them and be convinced.

**WELCH BROS.,** DEALERS IN  
**FLORIST'S SUPPLIES,**  
 15 Prince Street,  
 9 Chapman Place, - BOSTON.

Wire Designs, Wheat Sheaves, Baskets, Immaculate, Cape Flowers, Cut Flowers, Boxes, and all other supplies at prices to meet competition.

When Mention Florists' Exchange

**Boston Florist Letter Co.**

FLORIST'S LETTERS.

FOR THE USE OF FLORISTS.

117 made in two editions, and for each size letters, given away with first order of 500 letters.

Black Letters, 1 1/2 or 2 inch size, per 100, \$2.00  
 Script Letters, \$4.00

Patented with each letter or word.  
 Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.

**N. F. McCARTHY, Treas. & Manager.**  
 10 STATE ST., BOSTON, MASS., - 227-2.

When Mention Florists' Exchange



# FLORISTS' EXCHANGE

We are a straight shoot and aim to grow into a vigorous plant.

A WEEKLY MEDIUM OF INTERCHANGE FOR FLORISTS, NURSERYMEN, SEEDSMEN AND THE TRADE IN GENERAL.

VOL. IX. NO. 38.

NEW YORK, SEPTEMBER 18, 1897.

One Dollar Per Year.

## DECORATIVE PLANTS ROSE HILL NURSERIES.

<b>ARECA BAUERI.</b>		<b>PHŒNIX RECLINATA.</b>	
3 inch pots, 8-9 inches high.....	Per Doz. Per 100	4 inch pots, 12-15 inches high.....	Per Doz. Per 100
4 inch pots, 13-15 inches high.....	\$2.00 \$15.00	5 inch pots, 15-18 inches high.....	\$3.00 \$25.00
5 inch pots, 2-24 inches high.....	6.00 50.00		45.10
<b>COCOS WEDDELIANA.</b>		<b>GEONOMA GRACILIS.</b>	
3 inch pots.....	Per Doz. Per 100	2 inch pots.....	\$15.00 per 100
4 inch pots, single stem.....	\$3.00 \$20.00	<b>LIVISTONA HOOGENDORPII.</b>	
4 inch pots, bushy, 3 plants 1 1/2	5.00 40.00	4 inch pots, 1-12 inches high, 7 leaves, \$4.50	per doz.; \$35.00 per 100.
pot.....	5.00 40.00	<b>LIVISTONA ROTUNDIFOLIA.</b>	
<b>KENTIA BELMOREANA.</b>		5 inch pots, 10-12 inches high, 7 to 8 leaves,	\$1.00 each; \$12.00 per doz.
2 inch pots.....	Per Doz. Per 100	6 inch pots, 12-15 inches high, 7 to 8 leaves,	strong; \$1.50 each; \$15.00 per doz.
3 inch pots, 12-12 inches high, 4 to	\$3.00 \$20.00	<b>ADIANTUM CUNEATUM.</b>	
5 leaves.....	\$3.50 \$25.00	3 inch pots.....	\$7.00 per 100; \$65.00 per 1000
4 inch pots, 12-15 inches high 4 to	4.50 35.00	<b>ASPIDUM TENSIMENSE.</b>	
5 inch pots, 15-20 inches high, 6 to	7.00 55.00	3 inch pots.....	\$8.00 per 100; \$75.00 per 1000
7 leaves, stocky.....	9.00 75.00	<b>ASSORTED FERNS.</b>	
<b>KENTIA FORSTERIANA.</b>		2 inch pots.....	\$1.00 per 100; \$5.00 per 1000
2 inch pots.....	Per Doz. Per 100	<b>ALSOPIHILA AUSTRALIS.</b>	
3 inch pots, 15-18 inches high.....	\$4.50 35.00	3 inch pots.....	\$1.50 per doz.; \$10.00 per 100
<b>LATANIA BORBONICA.</b>		<b>ADIANTUM FARLEYENSE.</b>	
3 inch pots.....	Per Doz. Per 100	4 inch pots.....	Each. Doz.
4 inch pots, 15-18 inches high.....	\$3.00 25.00	5 inch pots.....	\$4.25 \$30.00
6 inch pots, 18-20 inches high,	9.00 75.00	6 inch pots.....	1.50 15.00
stocky.....			

## JUST ARRIVED! DRACÆNA CANES

**FOR PROPAGATING.**

We are the Largest Growers and Importers and Exporters of  
Dracæna Canes.

<b>Dracæna Terminalis,</b>	<b>Dracæna Braziliensis,</b>
“ Gladstonia,	“ Norwoodensis,
“ Metallica,	“ Stricta Grândis,
“ Youngii,	“ Imperialis,
“ Amabilis,	“ Regina,
“ Sheppardii,	“ Lady Hume,
	<b>Dracæna Titsworthii.</b>

All Canes sound and in perfect condition. If ordering equal proportions of each of the above varieties we shall make prices for immediate DELIVERY 15 cents per pot. ORDER AT ONCE.

**SIEBRECHT & SON, NEW ROCHELLE, N. Y.**  
(New York Office, 309 5th Ave.)

## THE COTTAGE GARDENS,

WHOLESALE FLORISTS,

...QUEENS, N. Y.

## SPECIALTIES

- Carnations,
- Chrysanthemums,
- Geraniums,
- Dahlias,
- Cannas,
- Boston Fern.

When Writing Mention Florists' Exchange

**PITCHER & MANDA, Short Hills, N. J.**  
JOHN N. MAY, Receiver.

When Writing Mention Florists' Exchange

## WE WERE THE ONLY FIRM WHO RECEIVED A CERTIFICATE OF MERIT FOR GENERAL COLLECTION OF BULBS CLEVELAND 1896—PROVIDENCE 1897

- The following Bulbs are now ready for delivery:
- FREESIAs.** Extra sized bulbs, 60c. per 100; \$5.00 per 1000. Mammoth bulbs, \$2.00 per 100; \$15.00 per 1000.
  - BERMUDA BUTTERCUP OXALIS.** \$1.50 per 100; \$15.00 per 1000.
  - LILIUM HARRISII.** Finest quality, 6-7 in. bulbs, the most profitable size for general forcing, \$3.00 per 100; \$30.00 per 1000.
  - BERMUDA GROWN LONGIFLORUM.** 5-7 in. bulbs, \$3.50 per 100; \$30.00 per 1000. 7-9 in. bulbs, \$7.50 per 100; \$70.00 per 1000. 9-11 in. bulbs, \$15.00 per 100. Large size Bermuda grown Longiflorum is very scarce—order quick if you want any.
  - WHITE ROMAN HYACINTHS.** Finest quality bulbs, 12-15 cm. in dia., \$2.50 per 100; \$25.00 per 1000.
  - WHITE ITALIAN HYACINTHS.** \$2.50 per 100; \$19 per 1000.
  - PINK ROMANS.** \$2.00 per 100; \$16.00 per 1000.
  - CALLAs.** Extra size bulbs, 1-1 1/2 in. in diam., \$8.00 per 100; \$80.00 per 1000. Selected bulbs, 1 1/2-2 in. in diam., \$6.00 per 100; \$70.00 per 1000. Mammoth bulbs, 2-2 1/2 in. in diam., \$12.00 per 100; \$100.00 per 1000.
  - ALLIUM NEAPOLITANUM.** 75c. per 100; \$6.00 per 1000.

For DUTCH BULBS, etc., which will soon be ready, see our Fall List.

## F. R. PIERSON CO.,

TARRYTOWN-ON-HUDSON, NEW YORK.

When Writing Mention Florists' Exchange

# ORCHIDS!

Mr. Jos. E. Brown, of Bellport, L. I., will offer his collection of

## 5000

Comprising all the leading varieties. Also a fine selection of

## PALMS, DECORATIVE PLANTS, BULBS, &c.

From well-known growers, which we will sell

## AT AUCTION, FRIDAY, SEPT. 24,

At our Salesrooms, 54 and 56 Day Street, New York.

WILL OFFER PALMS AND DECORATIVE PLANTS AS USUAL TUESDAY.

**WM. ELLIOTT & SONS, Auctioneers.**

When Writing Mention Florists' Exchange

## SEEDS

KENTUCKY BLUE GRASS (POA PRATENSIS).

CHAS. E. PRUNTY,

MAIN AND MARKET, SAINT LOUIS.

When Writing Mention Florists' Exchange

## WINTER'S NEW PEDIGREE CANNAS.

PHILADELPHIA, the finest crimson. MAIDEN'S BLUSH, color of Daybreak Garden. ALSACE, nearest pure white, and many other choice new kinds of our own production. Write for special list.

**THE CONARD & JONES CO., WEST GROVE, PA**  
When Writing Mention Florists' Exchange

## LILIUM HARRISII.

5 & 7, \$2.00 per 100.

ROMAN HYACINTHS, 12 to 15, \$22.00 per 1000.  
Pink Gem Calla, pot-grown plants.  
FRESIA REFRACTA ALBA, matumbo, \$3.00 per 1000.  
Pink Gem Calla, pot-grown plants, \$4.00 per 1000.

**SPECIAL PRICES ON LARGE LOTS.**

**F. W. O. SCHMITZ, Importer and Exporter, Jersey City, N. J.**  
When Writing Mention Florists' Exchange

## ROMANS! GOSMOS

GIANT FLOWERED, EARLY BLOOMING.

Six splendid varieties, separate, \$1.00 per ounce  
New Callipho, 75 cs. per ounce.  
CANTON, 75 cs. per ounce.  
Special prices on quantity.  
A fine lot of 10 lbs. fresh, 1.00 per 1000 seeds;  
31 lbs. fresh, 2.00 per 1000 seeds;  
100 seeds, 60 per 1000 seeds;  
Send for Free List of Novelties, Seeds, Plants, Bulbs and Grafts.

## EDWIN A. SEIDEWITZ,

38 W. LEXINGTON ST., BALTIMORE, MD.  
When Writing Mention Florists' Exchange

## D. & G. BULLETIN

MONEY-MAKING SPECIALTIES FOR IMMEDIATE SALES. Per 100

- Black Calla (Arum Section), \$7.00
- Black, California grown, 2 1/2 inch in circ- and over, 4.00
- Narcissus, Improved Paper White large bulbs, 5.00
- Alpenrose, in bud, large roots, 6.00
- Finney Favored Catalinids, 3 in. pots, 6.00
- Canna Flamingo, 2 in. pots, 6.00
- Cyanus Kewaldis, 4 in. pots, 20.00
- Alpenrose Variegata, 3 feet, 20.00
- Plumbago Loebensis, 1 1/2 to 2 feet, 15.00
- Latania Borbonica, 3 1/2 ft., 15.00
- Patra Washingtonia Hill pots, 7.00
- Mina Bonale, 2 feet, 3.00
- Zamia (Integrifolia), large roots, 3.00
- Grevillea Robusta, 2 1/2 in. pots, 3.00
- Swed Fern, 3 in. pots, 3.00
- Sauvevillea Zebrifolia, 3 in. pots, 2.00
- Red Branched Hydrangea, 3 in. pots, 4.00
- Swinonia Albis, 3 in. pots, 4.00
- Strobilanthus Dyerianus 2 1/2 in. pots, 4.00
- Chilodendron Luteum Plant (Epiphyllum) (cacti), 3.00
- Oleander Bononia, 2.00
- Radiocela (golden glow), 2.00
- Ambition Saxifraga (New), 1.50
- Ambition Souv. de Bonn, 4.50
- Chilodendron, white and blue, 4.00
- Pink Her Majesty, field-grown, 4.00
- Amelopsia Veitchii, 3 in. pots, 4.00
- Ampelopsia Veitchii, 3 inch pots, 5.00
- Orange Discolor, 2 1/2 in. pots, 4.00
- Qualeya Veitchii, 3 inch pots, 2.00
- Caryophyllus Marsechana, from field, 2.00
- Rosa Kagosa Rubra, 2 to 2 1/2 feet, 25.00

We also have in stock over 700 varieties of ROSES, field-grown and pot plants, including all the standard kinds as well as the very newest European and Am-eric in novelties, a complete stock of Canna, Camellias, Hardy Shrubs, Vines and Small Fruits. If you send us what you want, please write to us. Send us your list, anyway, for price.

**THE DINGEE & DONATO CO., West Grove, Pa.**  
Rose Growers.  
When Writing Mention Florists' Exchange

## BULB HEADQUARTERS

WRITE FOR TRADE CATALOGUES. SAVE MONEY BY GETTING SPECIAL ESTIMATES ON YOUR WANTS IN BULBS, PLANTS AND SEEDS, WHETHER LARGE OR SMALL. OUR SPECIAL OFFER THIS WEEK: BELLFLOWERS: VERY LITTLE COST CALLS! 25 BULBS FREE FOR \$1.00

## American Bulb Company

Importers and Growers, SHORT HILLS, N. J.

When Writing Mention Florists' Exchange

## LILIUM HARRISII AND LONGIFLORUM BULBS.

(BERMUDA GROWN.)

**ONLY A SMALL SURPLUS LEFT OF IDENTICALLY THE SAME CHOICE STOCK WE EXHIBITED AND FOR WHICH WE RECEIVED THE ONLY CERTIFICATE OF MERIT AT THE PROVIDENCE CONVENTION - THE HIGHEST POSSIBLE AWARD!**

Having to make room for large shipments of Dutch, French, California and Japan Bulbs coming to hand, we will clean out at the following prices.

- FIRST COME, FIRST SERVED. SINGLE BOXES AT 1000 RATE.**
- Lilium Harrisii, 5 to 7 inch bulbs, 4 and 500 in a box, \$25.00 per 1000
  - " 7 to 9 " 200 in a box, 35.00 per 1000
  - " " 10 to 11 " 100 in a box, 12.00 per 100
  - " Longiflorum, 5 to 7 inch bulbs, 400 in a box, 25.00 per 1000
  - " " 7 to 9 " 200 in a box, 12.00 per 100
  - " " 9 to 11 " 100 in a box, Price on application.

**Freesia Refracta Alba. True White.** Selected large bulbs, \$5.00 per 1000  
1 1/2 size, 6.00 per 1000  
2nd size, 3.50 per 1000

**WHITE ROMAN HYACINTHS** 15 to 15 stems, \$20.00 per 1000; 15 to 15 stems, \$35.00 per 1000

**Oxalis Bermuda Buttercup**, selected bulbs, \$7.50 per 1000  
If you need any other **BULBOUS STOCK** send us your list for estimate. We handle only the very best at lowest market prices.

**ROEMER'S Superb Giant Prize Pansy Seed** ... Per pkt., 50c; per oz., \$8.50  
Fancy " " " 25c; per oz., 5.00

## CLUCAS & BODDINGTON CO.

IMPORTERS, EXPORTERS AND GROWERS' AGENTS OF SEEDS, BULBS AND PLANTS, Telephone Call 403 18th St. 501 and 503 W. 13th St., N. Y. CITY.  
When Writing Mention Florists' Exchange

## GRASS SEEDS

J. CHAS. MCCULLOUGH, SEEDSMAN, CINCINNATI, O.  
JOBBER TRADE A SPECIALTY.  
When Writing Mention Florists' Exchange

## BULBS... GLAZING MATERIAL

- Romans, Mastica,
- Harrisii, Mastica Machine,
- L. Candidum, Liquid Putty,
- Freesias, Scollay Putty Bulb,
- P. W. Narcissus, Van Reyper's

## ELLIS & POLLWORTH, Milwaukee, Wis.

When Writing Mention Florists' Exchange

## FALL DELIVERY OF CALIFORNIA GROWN SEEDS!

**SWEET PEA SEED**, in best standard sorts, introductions of '96 and NOVELTIES of '97. (Crop in California and early orders are solicited.) Following seeds of BEST quality, carefully selected and CLEAN.

- Asters, in FAVORITE sorts.
- Falsedais, in FAVORITE sorts.
- Cannas, in FAVORITE sorts
- Camellias, in FAVORITE sorts
- Centauria, in Standards and NEW COMBIDS
- Chrysids, (Paint Perfection, separate colors or mixed.)
- Dahlia, Tom Thumb and others.
- Freesia Seed.
- Hollyhock, in BEST sorts.
- Labellia, in BEST sorts.
- Mignonecra, FINEST varieties.
- Nasturtium, tall mixed.
- Nasturtium, Tom Thumb, mixed.
- Peonias, fringed, single and double.
- Phlox Drummond.
- Phlox Nana Compacta.
- Silxias.
- Stocks, Giant Perfection, and all other finest sorts.
- Verbena, Mammoth, finest sorts.

**SPECIAL OFFER.** Limited stock of following seeds: **Phloxes** (varieties, F. Natalensis, P. Cyanotincta, P. F. Bird Rapunzel and Stylax), all at \$1.00 per 1000, delivered. Order QUICKLY.  
**Address, H. B. BERGER & CO., 220 Broadway, New York.**  
Branch Office, San Francisco, Cal. (Established 1878).  
When Writing Mention Florists' Exchange



Kenia Balmersiana, \$1.25 \$10.00 per 2500 seeds.  
Bicolor, 120 6.50 25.00  
Pandanus, 120 1.50 25.00  
above prices are for selected seeds only of highest germinating power.

**J. I. SCHILLER, Rutherford, N. J.**  
When Writing Mention Florists' Exchange

## Calla Bulbs

We have facilities and direct connections with growers of these bulbs in California by which we secure select roots, well cured and healthy. For these prices we give

**EXTRA GOOD VALUE.**  
100 FIRST SIZE, 1 1/4 to 1 1/2 in. in diameter, \$6.00  
SELECT, about 1 1/2 to 1 1/4 in. in diameter, \$5.00  
EXTRA SELECT, about 2 to 2 1/4 in. in diam., \$6.00

**VAUGHAN'S SEED STORE**  
84 & 86 Randolph St., Chicago.  
14 Barclay Street, New York.

When Writing Mention Florists' Exchange

INSIDE THE HOME REPORT.

Points and information from seedmen, and all interested in this column invited. Address: Editor SEND TRADE, Care of Florists' Exchange, 200 Broadway, New York City.

AMERICAN SEED TRADE ASSOCIATION.

JEROME B. RICE, Cambridge, N. Y., President; E. B. CLARK, Milford, Conn., Vice-President; S. E. WILSON, Watershed, Conn., Secretary and Treasurer.

Philadelphia—The Times of Saturday, September 11, contains a very interesting illustrated article on 'Burpee's Seed Farm at Doyleston, Pa.'

Harrisburg, Pa.—Harry L. Holmes succeeded to the firm of Holmes & McKubbin, on September 1.

The Harvest.—All over the country, excepting the Pacific Coast, where seeds are grown, we hear the same complaint—seed crop and sowing very low. Change is not nearly as good as predicted. The blight caused so much shrunken seed requiring to be cleaned out that the yield is light.

Most of the ruta bags and turnip seed has the same general appearance. Kale and turnip seed we regard as very good, but the crop is remarkably light. From the Eastern States we have this year very light—no more than half as much as expected, and every thing else in the same ratio. Egg plants, particularly the 'Blue Wonder' have a seed crop which is not pleasing, although it does no injury.

On Long Island lettuce is very good, and has yielded a fine crop, and the sample is remarkably good. A question naturally arises what will be the effect? We think it will cause an advance in price, particularly on Long Island productions. For the crop, prices with the grower are already fixed, but the question is, Can contractors be made to pay the same price for the present high prices for potatoes, and the light seed crop has made the farmers feel it is advisable to grow, unless at a considerable advance in price.

We look for higher prices for spinach next season, as there was not a seed of the 1896 crop in the growers' hands, and this year's crop is very light. Some of the buyers, by way of refusing orders for this year's crop, and the crop of 1898 cannot be shipped in time for next autumn's sales. This will create a demand for home-grown spinach for next year. We do not look for an advance in the price of American turnip seed, but bulbs already made much bigger than that of the imported seed, but we look for an increase in demand for this seed in the fall.

There is an improved feeling in the trade generally, dealers are beginning to see the back tiers of bags, which they have been working on for two years. While there is nothing particularly short at present, the indications are that there will be a recovery in activity in the fall, though slight, in trade which will have a good effect. The farmers, boy that they have not when they should be. The mail trade do not have a good business the coming year, all signs will fail, if the growers and shippers in the business, as it is reported it will, excepting in lines that do not materially affect the retail trade. There will be activity in every branch.

European Notes.

Spain Favorable Transplanting. A severe prostrance through the pages of the Florists' Exchange appears to have a magical effect upon the powers that be. In our paper in England for within 24 hours of the dispatch of last week's notes we were favored with a request for the seed of the plants where it was very badly needed. This has not only cleared the vermin off the seed, but has also had the effect of making us to push forward the work of transplanting to such an extent that within the next three days all the plants that are worth setting out will be resting where they are to remain.

With reference to the work of harvesting the balance of this season's crops, namely, turnip, and carrot, which have been some of the most satisfactory of our culture, right up to the finishing up in good shape. Spinach is much shorter than we had at first supposed. The weather in this country, particularly in very brick, stocks on hand in April next will be very light indeed. Nasturtium, for instance, the best varieties are yielding badly in western Europe (more). This, combined with the wholesale market, has put the growers of the new lucky growers to stand out for a considerable advance in price. The price keeps on creeping up, slowly it is true, but those buyers who are holding back in the hope of a fall, are likely to get left in the end. The market for auring very nicely, and provided we do not get an excessive amount of rain, there will be from three-fifths to four-fifths of a good crop on, the land that has been planted.

The excitement in the bird-seed market caused by the Greece-Turkish war has all subsided and the trade is absolutely stagnant. Canary will be plentiful. Hemp seed, a light, for the crop is very good. Corn, however, will fix the prices for these articles this season. EUROPEAN SEEDS.

CATALOGUES RECEIVED.

- D. B. LONG, Buffalo.—List of Forcing Bulbs, etc.
M. THORURN & Co., New York.—Wholesale Trade List of Bulbs, etc.
THEO. F. BECKETT, Neville Island, Pa.—Price List of Bougainvilleas.
ALFRED BRIDGEMAN, New Jersey.—Descriptive Catalogue of Bulbs, etc.
JOHN LEWIS CHILDS, Floral Park, N. Y.—Catalogue of Plants.
JOHN BANCROFT & SON, Cedar Falls, Iowa.—Price List of Plants for Fall and Winter Blooming.
THOS. MEHRAN & SONS, Germantown, Philadelphia.—Wholesale Trade List of Choice Nursery Stock.

- HENRY F. MICHELL, Philadelphia.—Catalogue of Bulbs, etc. with Wholesale Price List of Bulbs, etc. for Fall planting.
W. W. WOOD & SONS, Richmond, Va.—Fall Catalogue of Choice Flower Seeds, Bulbs, Fruit Trees, Ferilisers, etc.
HENRY A. DREER, Inc., Philadelphia.—Quarterly Wholesale Price List of Bulbs, Plants, Seeds and Miscellaneous Florists' Supplies.
AMERICAN BULB COMPANY, Short Hills, N. J.—Catalogue of Bulbs, Roots, Plants, Seeds and other Horticultural Propagations on Bulbs and Price List of Flower Seeds.

THE EXPERIMENT STATIONS.

- FERTILIZERS.—Bulletin 45, Hatch Experiment Station, Amherst, Mass.
THE MAINTENANCE OF FERTILITY.—Field Characteristics with Fertilizers, Bulletin 30, Ohio State Agr. Expt. Sta.
CORN, COTTON, FORAGE CROPS, TORRACO.—Bulletin 20, Louisiana Experiment Station, Baton Rouge, La.
AGE OF TREES AND TIME OF BLAZING DETERMINED BY ANNUAL RINGS.—Circular, 17, U. S. Dept. of Forestry, Department of Agriculture.
THE CAMPHOR TREE.—Circular, No. 12, Dept. of Forestry, Department of Agriculture, giving points on cultivation, propagation, uses, etc. in a distillation and end look for future market.

CALIFORNIA PLANT.

- 12 to 18 in., \$1.50 per 100; 2 to 3 ft., \$2.50 per 100; 3 to 4 ft., \$3.50 per 100.
CLEMATIS, Paniculata, very heavy.....\$1.00 per 100. Home
ROSES, Empress of China, strong..... 8.00 "
General Assortment, on own roots.....\$10.00 per 100.
HONEYSUCKLES, extra fine..... 6.00 "
HOLLYHOCKS, to color, strong field-grown plants... 6.00 "
A fine stock of Shade and Ornamental Trees. Prices on application.
THE ELIZABETH NURSERY COMPANY, - Elizabeth, N. J.
When Writing Mention Florists' Exchange

W. & D'S. 'SURE MUSHROOM SPAWN' Special operations to large buyers. ALL KINDS OF BULBS, Lium, Harzili, Hyacinths, Narcissus, etc., etc. WEEBER & DON, Seed Merchants 114 Chambers St., NEW YORK CITY. When Writing Mention Florists' Exchange

GRAS. H. ALLEN, Floral Park, N. Y. When Writing Mention Florists' Exchange

E. G. HILL & CO., Wholesale Florists, RICHMOND, INDIANA.

THE FLORISTS' FERTILIZER. Made by steam process from pure sulphate (liquid and solid matter), not adulterated with absorbent matter and combined with all necessary elements for the fertilization of the soil... STANDARD FERTILIZER CO., 1832 Fifth Street, PHILADELPHIA.

JIRNIEBEL'S STANDARD PANSIES. GIANT MARKET and GIANT FANCY. SEED in trade pats., at \$1 each. Also plants of the above for sale.

DENYS ZIRNGIEBEL, Neadham, Mass. When Writing Mention Florists' Exchange

PHILADELPHIA SEEDS. Wholesale Price List for Florists and Market Gardeners. When Writing Mention Florists' Exchange

True Berlin and Hamburg Pis. A1 quality, and very evenly assorted, at import prices, in cases lots only. J. L. SCHILLER, Rutherford, N. J. Sole Agent for F. G. Pomrenke, Hamburg. When Writing Mention Florists' Exchange

VAUTIER'S MAMMOTH PANSY. New crop seed now ready. This is the largest and best sown ever offered. Mr. Vautier has been over 30 years perfecting this strain. We have testimonials from growers from all parts of the U. S. regarding its size and merit. Trade pak. \$1.00 per doz., \$1.00 per doz. 64 & 66 N. Front St. H. G. FAUST & CO., Philadelphia, Pa. When Writing Mention Florists' Exchange

AZAEEA PANSY. Will be ready for delivery October 1. Write us for prices on these; also Dutch Bulbs. L. C. BOBBINK, Rutherford, N. J. Branch of The Horticultural Company, Esquel, Holland. When Writing Mention Florists' Exchange

BUY FROM THE GROWERS DIRECT ALL BULBS and PLANTS. For Summer and Fall Delivery, Quoted at Very Low Rates. FREE ON BOARD CARS OR BOATS NEW YORK CITY.

HULSBOSCH BROS., Englewood, N. J.

PANORAMA PANSY. Of our own importation from Japan, we offer the following superior stock. Size, 5 1/2 in., \$6.75 per box of 500. 5 1/4 in., \$1.25 " 400. 7 1/2 " 10.50 " 400. Orders only taken for whole boxes.

PAISES SEED THE JENNINGS' STRAIN. One of finest American grown Pansy seed now crop now ready, saved from the very finest selected plants, all large flowering, in great variety and most splendid colors; without doubt the finest strain in the market to-day. The following complimentary letter is one of many received every year: ILLINOIS. H. F. JENNINGS, Keokuk, Ia. Dear Mr. E. F. Vautier, We received your fine Pansy seed early in the season and it is all about produced the finest lot of pansies I have ever seen. The colors are uniformly clear. Send me one box of the best you can secure as you are ready. Respectfully, J. W. WILLIAMS

PAISY PLANTS ready Sept. 16. E. B. JENNINGS, Rutherford, N. J. BROWER OF THE FINEST PANSIES. When Writing Mention Florists' Exchange



300,000 Small and Large FERNS  
In variety, well-grown, reasonable prices. Seed  
samples for sample.

Cocos Weddelliana, 2½ inch pots, \$8.00 per 100  
Ceanothus from field, Victor, Daybreak, Scott,  
Metcalf, K. Clover and Eldorado.

B. REDFIELD, - Glenside, Pa.  
When Writing Mention Florists' Exchange

**JULIUS ROEHR'S,**  
Headquarters for  
**Palms and Decorative Plants.**  
RUTHERFORD, N. J.  
P. O. Address, Carlton Hill, N. J.  
When Writing Mention Florists' Exchange

**FOR SALE CHEAP!**  
3 Scarlet Hillsiana, ..... 4 ft.  
2 Dicksonia Antarctica, ..... 5 ft.  
1 Latania Borbonica, ..... 8 ft.  
2 Decasera Australis, ..... 10 ft.  
2 Musa Cavendishii, ..... 4 ft.  
200 Cyclamen, ..... 2 inch pots.  
300 Lycopodium, ..... 3 inch pots.  
H. W. HALL'S, Ridgewood, N. Y.  
When Writing Mention Florists' Exchange

**100,000 FERNS**  
20 best varieties. Write for list  
and lowest prices.

**1,000 FICUS ELASTICA**  
4 inch pot, fine stock.

**10,000 SMILAX**  
Strong plants, twice cut back.

CHAS. F. BAKER, Utica, N. Y.  
When Writing Mention Florists' Exchange

**EVERY FLORIST OUGHT TO  
INSURE HIS GLASS AGAINST  
FIRE.**

For particulars address  
**JOHN G. ESLER, Sec'y, Saddle River, N. J.**  
When Writing Mention Florists' Exchange

**Cyperus Alternifolius.**  
2½ in. pots, 40 cts. per doz.; \$2.50 per 100.  
GREVILLE ROBUSTA, 2½ in. pots, 40 cts.  
per doz.; \$2.50 per 100.  
ASPARAGUS TENUISIMUS, 3 in. pots, 50  
cts. per doz.; \$3.50 per 100.

CALIFORNIA VIOLETS, field-grown, \$4.00  
per 100.  
CAERNATIONS, Mapplede (new), \$5.00 per 100.  
Medium sized plants of the following stand-  
ard varieties, \$4.00 per 100. Portia, Wm.  
Scott, Delia Fox, The Stuart and Tidal Wave.

**NATHAN SMITH & SON, Adrian, Mich.**  
When Writing Mention Florists' Exchange

**GENUINE BOSTON FERN.**  
(N. EXALTATA BOSTONIENSIS.)  
\$5 to \$25 per 100. Prices on  
specimen plants on application.

**KENTIAS,**  
from \$5.00 per dozen to \$10.00 each.  
**LATANIAS,**  
from \$5.00 per dozen to \$3.00 each.

**PRIMROSES,**  
2½ in. pots, \$4.00 per 100; 3½ in. \$5.00  
per 100.

**RUBBER PLANTS,**  
6 in. pots, \$5.00 per doz.

**WILLIAM A. BOCK, North Cambridge, Mass.**  
When Writing Mention Florists' Exchange

**PALMS** See prices  
DECORATIVE PLANTS  
At Greatly Reduced Prices.  
Stock large and in fine con-  
dition  
Send for Wholesale list.  
Special prices on large orders.  
See our list of your wants.  
W. J. HESSER,  
Pittsmeath, N. Ch.  
When Writing Mention Florists' Exchange

**FERN PTERIS TREMULA**  
**NOW READY.**  
In excellent condition, from 2½ in. pots,  
10 to 12 in. high, ready to ship to us, \$3.50  
per 100; \$30.00 per 1000.  
R. WITTERSTETTER, Sedamsville, Ohio.  
When Writing Mention Florists' Exchange

**GOOD STOCK**  
Adiantum Cuneatum, 4 in. pots, Dcs. 100  
\$10.00  
Asparagus Plumosus, 2½ " 1.00 7.00  
Ficus-Humilis, 2½ " .75 5.50  
Chrysanth. Autumn Frigate, 2½ " 1.00 8.00  
Cyclamen albatrum, 2½ " 6.00 50.00  
" mixed, 2½ " 5.00 40.00  
" " 2½ " 3.00 20.00  
" " 2½ " 2.50 20.00  
" " 2½ " 1.50 10.00  
" " 2½ " 2.00 15.00  
" " 2½ " 1.00 7.00  
Pencilum, mixed, 2½ " 1.25 6.00  
Drosera in Fronds, field-grown, 12 in. 2.00 30.00  
" high 2.00 30.00  
Nerveless Fern, 10 in. pots, 25 3.00  
Nephrolepis Exaltata, 3 " 75 5.00  
Pendula Cilia 3 in. pots, 12 in. high, 50 5.00  
Rubber Plants, 6 in. 4.50 55.00  
6-8 " 15-18 in. 3.50 20.00  
6 " 12-15 " 2.00 20.00  
Smilax, 3 in. pots, 3½ in. pots, 30 2.00  
Cash with order from unknown customers or C.O.D.  
Orders amounting to \$5 and over P. O. S. N. Y. CITY.  
**SEAWANNAH GREENHOUSES,**  
OYSTER BAY, QUEENS CO., N. Y.  
Jas. C. CLARK, Supt. P. O. Box 58, Wm. L. SWAN, Prop.  
When Writing Mention Florists' Exchange

**NEPHROLEPIS CHEAP**  
I have 4000 Nephrolepis, mostly Exaltata, in  
2½ and 3 inch pots, and I must have the room  
they occupy. Price per 1000, \$30.00. No order  
for less than 1000 stalks.

**JOHN C. URE,**  
EVANSTON AVE., STATION X, CHICAGO, ILLINOIS.  
When Writing Mention Florists' Exchange

**AZALEAS!**  
(INDICA.)  
8 to 9 in. buds, \$15.00 per 100; \$145.00 per 1000  
9 to 10 " " " 17.50 " 175.00  
10 to 12 " " " 30.00 " 300.00  
12 to 14 " " " 50.00 " 500.00  
14 to 15 " " " 70.00 " 700.00

**PALMS, Etc.**  
For Palms, Aspidistras, Araucarias, etc.,  
please refer to our advertisement in Florists'  
Exchange of May 15th and June 15th.

**BEGONIAS.**  
(Erect Flowering) Single tuberos root.  
About 1 inch diam., separate colors, \$22 per 1000;  
\$20.00 per 1000.  
About 1 to 1½ inch diam., separate colors,  
\$16.00 per 1000; \$150.00 per 10,000.

**GLOXINIAS** (Erect Flowering.)  
About 1½ in. diam., separate colors, \$22 per 1000;  
\$16.00 per 1000; \$150.00 per 10,000.  
About 1 to 1½ inch diam., mixed, \$18.00 per  
1000; \$150.00 per 10,000.

Forcing and other Nursery stocks  
grown in quantities.  
OASM with packing free, except on approved  
Credit.

**ROYAL NURSERIES,**  
**LOUIS VAN HOUTTE PÈRE,**  
Ghent, Belgium.  
When Writing Mention Florists' Exchange

# RECEIVER'S SALE!

THE ENTIRE STOCK OF PLANTS OF  
**PITCHER & MANDA,** at Short Hills, N. J.

**WILL BE OFFERED FOR SALE, WITHOUT RESERVE, ON  
OCTOBER 4th, 5th, 6th and 7th EXT.**

The Stock consists of over 100,000 PALMS in splendid condition, in such standard varieties as  
Areca Baueri, Areca lutescens, Cocos Weddelliana, Kentia Belmoreana, Kentia Forsteriana,  
Latania borbonica, Phenix reclinata, Livistona rotundifolia, etc., etc.

Also the finest stock of Adiantum Farleyense ever seen in this country, and a general assort-  
ment of other FERNS, as well as a very fine lot of Ornamental Foliage Plants containing many  
choice things not to be found elsewhere, together with all the Greenhouses, Packing Sheds, etc., and all  
the Real Estate, which will be sold in four distinct parcels as follows:

No. 1.-Containing about 10½ acres, on which are located all the greenhouses, with  
about 80,000 feet of glass, all in excellent condition; a good dwelling house, con-  
taining eight rooms; stable, store rooms, packing sheds, several hundred sash and  
frames, etc., etc. This is a specially favorable opportunity to purchase a well  
established Florist and Nursery business at a greatly reduced price, within three  
minutes' walk of the railroad station, and eighteen miles from New York City.

No. 2.-Contains about 3 acres, with a good dwelling house on it, within  
500 feet of the railroad station.

No. 3.-Contains about 6½ acres, now used as an Herbaceous Nursery, and is  
well stocked with the largest and best collection of these plants in the country.  
Close to railroad station.

No. 4.-Contains about 62 acres, well adapted for an excellent Nursery, Farm,  
or to cut up for building lots. This is situated on the main road between Short  
Hills and Summit, and one mile from each station.

For Catalogue containing full particulars write to  
**JOHN N. MAY, Receiver, SHORT HILLS, N. J., or**

**CLEARY & CO., Auctioneers, 60 Yesev St., New York.**  
When Writing Mention Florists' Exchange

## Cupid Sweet Pea.

A representative of the Florists' Exchange made a trip into Jefferson County, N. Y., for the express purpose of putting to an end all doubts as to what statements and expressions not distinctly favorable to the Cupid sweet peas were true.

That these dwarf sweet peas flourished in full splendor in the climate of California has not once been disputed, but at the same time the claim has been urged that this novelty would not develop in the East, as it did in the West, its home.

The Florists' Exchange has been desirous of obtaining positive evidence in this direction, and in presenting this present note and accompanying illustration, congratulates Messrs. W. A. Purpee & Co. upon what must be regarded as a vindication of the statements made by them in introducing this dwarf race.

The bona fides of gentlemen who have spoken of low germinating power, failure of the plants to flower, etc., is not contested—such doubtless was their experi-

entially when the sun shone on it and enhanced the brilliancy of the *Blanche Ferry* flowers, for such indeed they are that popular variety being the source whence the dwarf has sprung. The compactness of bloom as seen on the bed in question is a point for consideration; it did not run itself out with one burst of flower. The seed was sown 2½ inches deep in hills 2 feet 6 inches apart, and the whole then treated as a good sowing. The soil had received a surface dressing of lime, but this application can hardly have had much influence on the plants. We counted 121 stalks in blossom on one plant and an average of three flowers to the stem. The height of the plant was six to eight inches, and the spread generally two feet, while occasionally one would run to 30 inches and even more, while the individual blooms measured across the standard 1½ inches.

## The Pansy as a Bedding Plant.

In order to get strong and healthy pansy plants suitable for bedding, I have found that one must aim to produce me-

long and thin; it is with pansies as with chrysanthemums, when they are not transplanted when ready, they lose in vitality.

Never sow the seed too thick, no matter whether in drills or broadcast, good stout plants which have had enough room to develop, have more roots and are easier and quicker handled.

I have found it most practicable to sow in drills four inches apart; one can more readily weed the frame when necessary.

## Transplanting.

By November the plants will be ready to transplant into cold frames; this can be done any time during that month or December. Have the frames filled with rich fibrous soil to a depth of 8 to 12 inches; moist any good soil will do, but in a light soil the plants will make the thickest bunch of roots and consequently carry better when shipped; but the plants can, if necessary, quite well remain in the seed bed until the sun gets strong in February. From 3 feet 4

and open, you had better ventilate well and open the back and keep them robust. If pansies are sown much earlier than the 15th of August, they will, I believe, prove generally early unless a heavy frost at night and boards or such employed in place thereof.

## Final Packing.

When your plants are ready for planting out-of-doors and you have grown them in back and kept them most readily healed by forcing a fork under a lot of them, and lifting the whole cover together and re-rolled it. Always water the plants a few hours before lifting them. When we lift pansies for shipping, they are packed in boxes, round in boxes, round, without separate wrapping; we find they carry best in the manner and are usually lifted out of the boxes on arrival at the destination.

We frequently pack two layers in one box, when we do, a lid or bottom is made to fit in the box right above the top of the lower layer, where it rests on the four strips nailed to the sides of the box; this compartment is then filled with the lower one was, and if care is taken, that no foliage or roots extend over top of box, both layers will come out intact and fresh. The boxes are made of a mild iron size, and can be packed one on top of the other in the cars without the least injury to contents.

## Planting.

The plants are then planted in such beds as are found suitable for display at various points along our lines of railroad in well-prepared soil. The distance between plants should be immediately between 6 and 8 inches; a greater distance is advisable only where the soil is very rich, and they can have good attention.

The care after planting is of the greatest importance to be insisted upon, and duly held all Summer from April to October. If you plant your pansies in stiff bed water will be best kept close off; you can keep your bed pretty all season, but in light or sandy soil a pancy bed that grows in deep soil will do better. If you plant early, no matter how much care is taken, I find that it is best to try to keep them in the shade, even that long in a sandy soil and consequently we remove them sooner and plant something else in place.

## Varieties.

For a show at a distance and for hardiness and lasting qualities, I can particularly recommend *Goldsleeve*, *Lord Beconsfield*, *Bronze*, and *Empire*. While these four varieties have proved most excellent under all conditions, and make a good show in a bed on account of the strong colors. For choice coloring and for effect, at short range, would recommend the *Bugnot*, *Frimardeau*, *Malraugay*, *Faust*, and most any other good variety or strain such as recommended by our seedmen. For a good distance effect the bed must be 10 to 12 feet, not less, and plant one strong color in center and a border not less than 12 to 16 inches wide of a sash, purple, or contrasting color around the bed; the yellows, blues, or purples make the best borders for a distance.

If your plants are a trifle backward in March, apply a little blood and bone and will carry them to a supply of fertilizer; never try to force them on bottom heat; it will not be a success.

A. E. WOLLETT.

## Changes in Business.

MT. STERLING, Ohio.—G. H. Johnson has completed a greenhouse, 80x200 feet; will recently started in business.

CLEVELAND, O.—The F. R. Williams Co. has succeeded the Williams-Wilson Co., and will carry on the supply business. Mr. Wilson having retired and sold out his interest in the firm.

ELIZABETH, Harlan Co., Ohio.—Highland Nursery, Kawana, N. C., has opened an office at 1123 Tremont building here, to which all orders and correspondence should be sent. The Habitues of the Highlands Nursery have been satisfied, and the time has not yet passed. A number of hardy native American plants has been received from Mr. Kelsey by his late assignee.



Bed of Sweet Pea Pink Cupid, in Jefferson Co., N. Y.

ence. The evidence they supply does not prove the arguments however, but if taken with facts, such as are here adduced, goes to show they did not fully provide for the cultural demands of the plant.

Moreover, to the Florists' Exchange as representing the American seed and florist trade, certain remarks of foreign writers as to "non-pansy recommendations" being "strictly American," seem to demand an answer, and we add to our own expressions from observation of the grand bed of pink Cupid the evidence of the photographic camera.

The picture herewith reproduced represents a bed 50x40 feet in a spot a dozen or so miles inland from the shores of Lake Ontario where the soil is shallow and of a hard cold clay loam nature. The plants on this place are being grown for seed, and at the time of our visit (September 3) not only was the area a sheet of color, but there were evidences of what had been in the great profusion of seed-pods which were being carried, and furthermore the end was not yet for the buds still to show their blooms promised to make the sea of rosy pink just as the till frost should come.

As to the effect of pink Cupid as a leader, we confess the sight astonished us; it was gorgeous in the extreme, espe-

dium-sized stock plants; small ones do not make a display at once, and large ones are not easily moved, and certainly do not give satisfaction when shipped a distance. We grow here from 20,000 to 30,000 plants for ornamentation of our station grounds between Philadelphia and Pittsburgh and on some branches as well. We have consequently various climatic conditions and a goodly variety of soil to contend with.

## Sowing.

The idea is to have something pretty early in the season. While the pansy is quite hardy nothing is gained by planting your beds before the winter frosts are gone; if the ground is likely to freeze to a crust during night, the pansies had better be in the ground, which is much danger is over. We have found it safe to plant in month or two before we get cold.

By planting time one should have good strong plants just filled with their first flowers or buds, and to get this condition the seed is sown between August 15 and September 15 in a couple of batches; this gives one a succession, which is a convenience when ready to transplant them; the seedlings can then be handled in rotation before they overgrow and get too

inches each way is suitable space for the pansies while in frames.

## Winter Covering.

I have never found covering a necessity to keep the cold out, no matter how cold the weather may get; simply avoid excessive moisture, such as will gather where a light is broken. The best covering is glass; if you use that your plants are always sure to be early enough, as they will grow even in Winter when the weather is mild. We use here, in conjunction with sash, lids made of ½-inch worked lumber of the same size as the sash; these lids can be used as a substitute for glass over such stuff as panes or sashpanes, and as a cover over the glass to keep the cold out of the frames or when pestered with dogs traveling over the snow-bound frames at night.

## Ventilation.

During cold weather no attention need be paid to ventilation; it will take a great deal of sunshine to hurt pansies, and if you are in a low frame, later on, however, when the sun gets strong, more care is needed, and you will want to ventilate freely to your plants' benefit. You can regulate the earliness of your plants by the ventilation; if the Winter is warm

FOR BUREAU PURPOSES  
Must be Fresh, Not Dried Up.  
Buy the Best Always.

H. A. STOOHOFF, 315 Madison Ave., N. Y. City.

75 Cents

per 100 lbs.

BALES WEIGH

450 lbs. each.

New York Florists' Club.

The attendance at the Club meeting on Monday evening was not so large as was anticipated, probably owing to the very humid weather. ... President Henshaw occupied the chair.

The late convention at Providence was the subject for discussion. John N. May spoke in large measure of the increased interest shown in the meetings.

Mr. May eulogized President Graham as being one of the most instructive to which the speaker had ever listened, the illustrations being extremely educational.

Touching on the beneficial nature of the trade, Mr. May considered that the man must be dull indeed who could not learn enough to pay him for the trouble of entering the profession.

Mr. Allen considered the Providence convention in several respects the greatest object lesson the Society had.

President Henshaw commented on the all-round training of the old-time gardeners and on a corresponding tendency towards specialization.

Mr. May said the young man in entering a commercial place, where a specialty was required, that he should have the knowledge there obtained was sufficient for him, made a great mistake.

ing it in the aggregate, was a most remarkable thing. It was run on three kinds of roses, three or four kinds of carnations, possibly a little mignonette, and a few other odds and ends in different sections.

Exchange and praised its qualities, closing with a few remarks on the success of the Lomburg Exposition. A remarkably fine display of canna was put up by Charles H. Allen, Floral Park, Austria, Idaho, and Burbank were in unusually fine condition.

Then his whole collection consisted of one small lot. He remained there until 1886 when he removed to 22 Dry street, where he built up a considerable trade, especially in the bulb and flower seed line.

Throughout his entire business life, he had met with varying success, often struggling with impaired health, a fact which greatly retarded his progress, and to which could largely be attributed his recent unfortunate embarrassment.

Mr. Henshaw then gave an interesting account of his recent trip to the botanical gardens of Europe, and other points of interest in the continent.

York last season. This was a plant from which good results would be obtained if taken care of in winter the same as mignonette, and given the same temperature as the carnation.

The late convention at Providence was the subject for discussion. John N. May spoke in large measure of the increased interest shown in the meetings.

Mr. May said the young man in entering a commercial place, where a specialty was required, that he should have the knowledge there obtained was sufficient for him, made a great mistake.

ing it in the aggregate, was a most remarkable thing. It was run on three kinds of roses, three or four kinds of carnations, possibly a little mignonette, and a few other odds and ends in different sections.

Mr. Henshaw then gave an interesting account of his recent trip to the botanical gardens of Europe, and other points of interest in the continent.

York last season. This was a plant from which good results would be obtained if taken care of in winter the same as mignonette, and given the same temperature as the carnation.

The late convention at Providence was the subject for discussion. John N. May spoke in large measure of the increased interest shown in the meetings.

Mr. May said the young man in entering a commercial place, where a specialty was required, that he should have the knowledge there obtained was sufficient for him, made a great mistake.

ing it in the aggregate, was a most remarkable thing. It was run on three kinds of roses, three or four kinds of carnations, possibly a little mignonette, and a few other odds and ends in different sections.

The late convention at Providence was the subject for discussion. John N. May spoke in large measure of the increased interest shown in the meetings.

Mr. May said the young man in entering a commercial place, where a specialty was required, that he should have the knowledge there obtained was sufficient for him, made a great mistake.

ing it in the aggregate, was a most remarkable thing. It was run on three kinds of roses, three or four kinds of carnations, possibly a little mignonette, and a few other odds and ends in different sections.

OBITUARY.

F. E. McAllister.

This week it is our sorrowful duty to announce the death of F. E. McAllister, seedsman, New York City, which occurred on Tuesday last, September 14.

The name of F. E. McAllister has been before the trade of the country for almost a quarter of a century, during which time he had conducted a seed and importing business in the city of New York, in the Exchange field, and garden seeds, bulbs, implements and supplies.

Throughout his entire business life, he had met with varying success, often struggling with impaired health, a fact which greatly retarded his progress, and to which could largely be attributed his recent unfortunate embarrassment.

Mr. Henshaw then gave an interesting account of his recent trip to the botanical gardens of Europe, and other points of interest in the continent.

York last season. This was a plant from which good results would be obtained if taken care of in winter the same as mignonette, and given the same temperature as the carnation.

The late convention at Providence was the subject for discussion. John N. May spoke in large measure of the increased interest shown in the meetings.

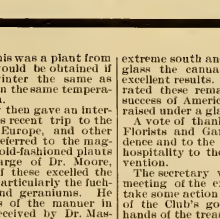
Mr. May said the young man in entering a commercial place, where a specialty was required, that he should have the knowledge there obtained was sufficient for him, made a great mistake.

ing it in the aggregate, was a most remarkable thing. It was run on three kinds of roses, three or four kinds of carnations, possibly a little mignonette, and a few other odds and ends in different sections.

The late convention at Providence was the subject for discussion. John N. May spoke in large measure of the increased interest shown in the meetings.

Mr. May said the young man in entering a commercial place, where a specialty was required, that he should have the knowledge there obtained was sufficient for him, made a great mistake.

THE LATE F. E. McALLISTER.



THE LATE F. E. McALLISTER.

National Florists Board of Trade

C. S. Loder, New York, secretary of the National Florists Board of Trade, has as a copy of the third quarterly revised credit and information list of that association.

Plants and Flowers.

COLE'S KLONDRK.—Carl Hagenburger, Mentor, O., sends us a few leaves of the new cactus Klondike, which was shown and so favorably commented upon at the Providence convention.

Joseph Gibson.

Early Monday evening Joseph Gibson, for many years gardener for the late Gov. E. D. Morgan, and more recently for another notable florist, Benson Rock, Newport, died from a ruptured blood vessel. He had been out driving his horse and carriage, when the fatal complication raised his umbrella, which frightened the horse and in going on, he fell from the carriage, striking his head, and being carried to the hospital, where he died shortly after his arrival.

A. J. Swanger.

A. J. Swanger, nurseryman and florist, died at his home at Sillito, O., Tuesday, September 8, 1897. He had been suffering from nervous prostration caused by rheumatism.

Jesse K. Sharpless.

Jesse Keesey Sharpless, the originator of the Sharpless strawberry, died at his home in Catawissa, Pa., on September 10, 1897, at the age of 75 years. His name was the result of a series of experiments conducted by Mr. Sharpless, and his strawberry leaves have many small fruits, and was obtained from mixed seed of Jamaica, Charles Downing, Wilson, and Coburn Clery.

**BURQUAINVILLE!**

**FACTS.** The plants are strong, rapid growers. They are easily handled in all stages of growth. The two varieties offered are very readily propagated. They are not subject to any insect pests and are continuous bloomers for four to six months in the forefront of the year. The bloom-bracts are very durable on plant or in cut sprays. The color is showy and very attractive. Send for "Facts and Comments."

We offer nice stock of both varieties, from 5 inch pots.  
**GLABRA** (7 1/2 to 10 inches above pots, 4 to 6 shoots. GLABRA SANDERIANA, 15 to 25 inches above pots, 6 to 8 shoots. Price, \$50.00 per 100; 5 plants at 100 rates.

The above plants can be safely shipped by freight to points within a week's shipping distance of Pittsburgh.  
 We mail 4 nice burquainville plants of either variety, from 5 inch pots, by air, or 12 for \$7.50.  
**CASH WITH ORDER. THEO. F. BECKERT, Glenfield, Pa. NEVILLE HILTON, Salesman**  
 Below Pittsburgh, Pa. When Writing Mention Florist's Exchange

**BRIDE ROSES, STRONG PLANTS**  
 5 in. pots \$2.00 per 100; 3 1/2 in. pots, \$2.50 per 100.  
 Will take 400 Kaiserin Augusta Victoria in exchange for 400 Bride.

**THE FLORAL EXCHANGE, 614 Chestnut St., Philadelphia**  
 When Writing Mention Florist's Exchange

**2c. ROSES 2c.**

\$2.25 Per 100; \$20.00 Per 1000.  
 Nice stock from 2 1/2 in. pots.  
 Moesella, Yellow Souperl, Pink Souperl, Crimson Rambler, Permet Florist, Bridesmaid, C. Souperl, Ecole de Lyon, Glancing Meteor, Meteor, Golden Rambler.  
 THE 3 RAMBLERS, Yellow, White and Pink, \$1.00 per 100; \$10.00 per 1000.  
**2 YEAR OLD ROSES** for October delivery. Send me a list of your wants.  
**FIELD GROWN GARNATIONS,** Strong clumps \$4.00 per 100, McGowan, Florida Silver Spray, Fred. Dresser, Mrs. Harrison Stout.  
**JOHN A. DOYLE, - Springfield, Ohio.**  
 When Writing Mention Florist's Exchange

**SURPLUS STOCK**

Per 100  
**500 Pearlygons,** pink, with dark upper petals. Stock plants, 3 and 4 1/2 inch pots. . . . . \$3.00  
**Red Begonia,** 10 to 20 in. plants, 2 1/2 in. pots. . . . . 4.00  
**Red Begonia,** 3 and 4 in. pots, \$3.00 and 4.00  
**Mrs. Pollock Germania,** 2 1/2 in. pots. . . . . 3.00  
**Mk. of Snow Germania,** 2 1/2 in. pots. . . . . 4.00  
**Breeze Germania,** 2 1/2 in. pots. . . . . 3.00  
**Snow Crest Dalis,** . . . . . 4.00  
**Rosea,** 2 1/2 and 3 in. pots. . . . . 3.00  
**Vivosa var.,** 2 1/2 inch pots. . . . . 2.50  
**Cyperus Alterniflorus.** These can be divided and make 4 or 5 1/2 in. pots. . . . . 3.00

**ROOTED CUTTINGS.**  
 Mrs. Pollock Germania . . . . . \$2.00  
 Vivosa var. . . . . 1.25  
 From Downing . . . . . 2.00  
 Snow Crest Dalis . . . . . 2.00  
 Hydangea, Pink and White. . . . . 2.00  
 Torosae Geat. . . . . C. O. D.

**GREENE & UNDERHILL, Watertown, N. Y.**  
 When Writing Mention Florist's Exchange

**10,000 FIRST QUALITY GERANIUM ROSES**

Fully equal to those sent out the last four years, first-class in every respect. Only selected growth  
**"SAGRANO, PEARLE, AMERICAN BEAUTY, MERMET, SUNSET,"**  
**"GONTIER, LERIE, KAISERIN A. V., METRO, BEIDE,**  
 3 inch pots, \$3.00 per 100.

Mention this paper. **J. L. DILLON, Bloomsburg, Pa.**

Plants ready now, at \$5.00 per 100; 75 cents per 100. A trial order solicited from every florist.  
**HERR'S PANSEES SMILAX,**  
 at \$1.25 per 100; \$10.00 per 1000. Sample for 10 cents.  
**3000 McGowan, 3000 Armand, 700 Abundance, 3000 Germania, 300 Alaska, 500 Cartridge,** 5 Centa per doz. Each.  
**3000 TRIUMPH,** the best pink in every particular I ever grew, at \$7.50 per 100.  
**ALBERT M. HERR, Lancaster, Pa.**  
 When Writing Mention Florist's Exchange

**Cyclamen Periscum Giganteum**

**BRILLIANT RED.**  
 Imported, guaranteed, extra fine quality. Per 1000 seeds, \$5.00. Cash with order.

**H. PLADECK, Middle Village, L. I., N. Y.**  
 When Writing Mention Florist's Exchange

**IT'S A DAISY.**

The size and style of a Cosmos, constant bloomer, and invaluable for Winter cut flowers. Per 100; root cuttings delivered free. Do. 1000  
 rooted cutting, 35 cts. per doz. **Floerle D'Or,** yellow Daisy, 2 1/2 in. pots, 50 cts. per doz.; rooted cuttings, 35 cts. per doz. **CYPERUS,** 4 1/2 in. pots, 40 cts. per doz. **Ferns and Mosses,** 5 cts. per doz. **Carex Japonica,** var., 7 1/2 cts. per doz. **Smilax,** transplanted 75 cts. per 100; root cuttings delivered free. A discount of 10 per cent. on all orders of \$5.00 and over. Cash with order.

**A. G. ROSSBACH, Pemberton, N. J.**  
 When Writing Mention Florist's Exchange

**OLD COLONY NURSERIES**

**SURPLUS STOCK.**  
**Asplenium thibosum.** . . . . . \$2.00  
**Hemodorum,** B. var. . . . . 1.00  
**Iris, German,** 10 sorts. . . . . 4.00  
**1000 Lilies, 3 1/2 in. pots.** . . . . 2.00  
**Liatris Scariosa.** . . . . 5.00  
**Mariposa,** 10 sorts. . . . . 4.00  
**Paoniae, mixed, per 1000.** \$4.00. . . . . 3.00  
**Primulae, named.** . . . . 2.00  
**Platycodon.** . . . . 5.00  
**Salixia Chlorostylis.** . . . . 4.00  
**Yucca Filamentosa, strong.** . . . . 5.00  
**Apples, for Christmas.** . . . . 3.00  
**Bignonia Radicans.** . . . . 5.00

**T. R. WATSON, Plymouth, Mass.**  
 When Writing Mention Florist's Exchange

**THE NEW PURE YELLOW DAHLIA,**

**Coffroy & W. B. Braton**

And all the leading new and old Dahlias are now in full bloom on our Dahlia farm at Atco, N. J. All interested are cordially invited to visit the Dahlia Exhibition at Horticultural Hall, Broad street, below Locust street, Philadelphia, Sept. 21st and 22d.

**W. P. PEACOCK, Atco, N. J.**  
 When Writing Mention Florist's Exchange

**Seasonable Stock for Florists.**

**ALL STRONG FIELD-GROWN.**  
**Assomee Whirlwind.** . . . . \$5.00 per 100  
 Day Lily, white, blue, yellow. . . . . 5.00  
**Dolphinium Formosum.** . . . . 6.00  
**Hotchkiss' orange,** 1 1/2 per 100. 5.00  
**Poanisa.** . . . . 10.00  
**Ruebeckia Golden Glow.** . . . . 6.00  
**Yucca Filamentosa, 3 year.** . . . . 8.00

Also Bonvardias, Carnations, Smilax, Tulips, Hyacinths, and all kinds of Bulbs.  
**SEND FOR FALL TRADE LIST.**

**VIK & HILL CO., Rochester, N. Y.**  
 When Writing Mention Florist's Exchange

**PRIMULA PUBCONICA.**

Very fine plants, some in bloom, 3 in. pots. . . . . \$5.00  
**Begonia Resc.,** 10 vars. 3 in. pots. . . . . 5.00  
**Claytonia albigata,** 1 1/2 per 100. 5.00  
**Clay California Daisy,** strong, 3 in. line for flowering. . . . . 5.00  
**Helleborus,** Lemona's Brilliant, strong, bushy, 3 inch. immense flowers. . . . . 4.00  
**Begoniae, Rooted Cuttings, Hunte's Best Begonia Cuttings, Metallica, siva picta, etc.** . . . . 2.50  
**WILKINSON'S MILK MAY ROOM, 5,000 SMILAX, strong and thrifty, 2 in. pots, \$1.00 per 100; \$7.00 per 1000.**  
**GEORGE J. HUGHES, Berlin, N. J.**  
 When Writing Mention Florist's Exchange

**ROSES.**

**Black Spot and Mildew.**

I have been asked several times if the small black spots, about the size of a pin-head, sometimes seen on the Gontier, were identical with the well-known spot; also its cause and cure. This is not what I know of black spot, but the white powdery mildew in disguise form, and is superinduced by excessive moisture and an insufficient circulation of air; so conditions the cause of these should be resorted to for its cure. It is not very dangerous, but has a tendency, in bad cases, to induce the green foliage to fall, which is a well-known habit of this variety.

In regard to mildew it is most advisable now, even though none be seen, to prevent its putting in an appearance, by painting every new and old tree on the heating pipes some sulphur and lime mixed together, half and half, to the consistency of cream. It should not be put on too strong—just enough being applied so that the fumes are perceptible.

It is a very good policy to observe cleanliness in the greenhouse at all times, by keeping all dead leaves picked up, and having all other rubbish that may accumulate both on top and under the benches removed.

Don't on any account neglect keeping the plants in dry property; it will be found that lots of roots and time are needed in this direction, as during this month the plants most generally make their best and most rapid growth of the season.

You are all doubtless aware that light is one of the most important factors for the production of fine flowers. If you have not already cleaned your glass on the under side, the work should be done on the first favorable morning. It is always select a bright day for this purpose, as in the course of the operation some condensation will be on the glass. It is always more or less matter on the under side of the glass that obscures considerable amount of the light. The same glass is used. We moisten the glass first, then rub it over with a rag, when a fine jet of water from the fine rose ridge to gutter plate completes the work.

If you want to grow some of that useful little polyantha rose, Clothilde Souperl, for spring sales or cutting during next Summer, now is the time to put in some cuttings in a hotbed. They root very quickly, and are best carried over early Winter in small pots, in a cool house.

While attending to our current work, we must not overlook procuring soil for our market. It is the duty of every man, many men who neglect this work until almost time for commencing replanting and setting out for the winter, that they are troubled greatly by the grass growing from the ground. That is not the only trouble, for it often happens that owing to pressure of other work, the soil is left unworked and becomes unsorted, irrespective of whether or not it is best adapted to the future plants. In this respect, it is important but that one of the fundamental principles in successful rose-growing is in the use of good soil and good material, so we should be most careful in its selection.

I find a soil that suits most varieties to be a good fibry and non-puddled soil of a medium heavy texture; that is, a soil not light or the extreme heaviness; and such soil is not found in low ground. Be careful to avoid that which has not been mowed or grazed for years, as the weeds and grass roots, if not pulled, are cetera, thereon makes it too light, and it has too much of a leaf-mould appearance which thorough working and good strong loam is what is needed; nothing of a mucky nature. It is sometimes preferable to dig some good material inside a city's limits to know where to get soil near enough at a reasonable cost. We were in that predicament once, and as we had to get our soil from a point six miles distant, we found the most expensively way to get the soil, as the canal was near by at both ends. Soil should not be drawn in wet weather.

### FIELD GROWN CARNATIONS

2000 McGowan, \$6.00 per 100.  
3000 John's Scarlet, \$12.00 and \$15.00 per 100.

5000 ROOTED GERANIUMS  
La Favorite and Double Grant, \$1.50 per 100.  
JAHN BROS., New Bedford, Mass.  
When Writing Mention Florists' Exchange

### Harrison's White CARNATION.

New Carnation, sport from Wm. Scott.  
JOHN HARRISON,  
739 Bergen Ave., Jersey City, N. J.  
When Writing Mention Florists' Exchange

### GALLERT & CO.

CARNATION GROWERS  
COLMA, SAN MATEO CO., CAL.  
When Writing Mention Florists' Exchange

### FIELD GROWN CARNATIONS and VIOLETS,

Ready September 16th.  
JOSEPH RENARD, Unionville, Chester Pa.  
When Writing Mention Florists' Exchange

### CARNATIONS

F. DORNER & SONS CO.,  
La Fayette, Ind.  
When Writing Mention Florists' Exchange

### BALTIMORE

A NEW PINK CARNATION,  
FIELD-GROWN. WRITE FOR PRICES.  
CONRAD HESS, - Baltimore, Md.  
329 Friendship Avenue.  
When Writing Mention Florists' Exchange

### SURPLUS STOCK CARNATIONS

2000 Wm. Scott,  
2000 Uncle John.  
At \$5.00 per 100. Fine Plants. No rust.  
JOY & SON, Nashville, Tenn.  
When Writing Mention Florists' Exchange

### CARNATIONS

Extra heavy plants, short and bushy, carefully packed, of the following varieties: Scott, Silver Spray, John's Scarlet, Madison's Favorite, Tidal Wave, E. Pieroni, at \$3.00 per 100; \$4.00 per 100.  
MARIE LOUISE VIOLETS, large, double, 20 diam., the very best stock at \$1.00 per 100; \$3.00 per 100. Healthy; large, 3 inch, pot grown. Marie Louise, \$3.00 per 100; \$5.00 per 100.  
GEO. H. BENEDICT, Yorkville, N. Y.  
When Writing Mention Florists' Exchange

### SURPLUS CARNATIONS

1000 DAYBREAK,  
1000 LIZZIE MCGOWAN.  
Fine, bushy plants, at \$4 per 100. Terms Cash.  
CHAS. E. SMITH, York, Pa.  
When Writing Mention Florists' Exchange

**CHAS. SIEBERT** THE RESTLESS FLORIST OF PITTSBURGH, PA. GROWS & SELLS CARNATIONS THAT PAY. When Writing Mention Florists' Exchange

### CARNATIONS

Clean, healthy, field-grown stock at \$1.00 per 100; Daybreak, Silver Spray, Rose Queen, Garfield and Portia.

### VIOLETS

Marie Louise and California, strong, healthy well established plants from 4 in. pots, at \$4.00 per 100. Field-grown California, at \$5.00 per 100. Samples mailed on receipt of 10 cts. to cover postage.  
L. L. MAY & CO., St. Paul, Minn.  
When Writing Mention Florists' Exchange

### 40,000 Field-Grown Carnations

Clean, Healthy Stock.	100	\$50.00
Daybreak	300	\$150.00
Scott	500	45.00
McGowan	500	45.00
Mrs. Fisher	500	45.00
Anna Webb	500	45.00
Tidal Wave	500	40.00
Anna Webb	500	45.00

M. LOUISE VIOLETS, PAGE 844.  
EDW. J. TAYLOR, Southport, Conn.  
When Writing Mention Florists' Exchange

### FIELD-GROWN CARNATIONS

SPRAT, HECTOR, ALBERTINI, FISHER.  
Perfectly Healthy. Write for Prices.  
ELLIOTT & ULAM, Cheswick, Pa.  
When Writing Mention Florists' Exchange

### CARNATIONS, FERNS, VIOLETS and SMILAX.

Portia, Scott and McGowan, 1st quality, \$5.00 per 100; \$5.00 per 100. 2nd quality, \$4.00 per 100; \$3.00 per 100.  
Daybreak, 1st quality, \$5.00 per 100; \$5.00 per 100. 2nd quality, \$4.00 per 100; \$4.00 per 100.  
Adriatic Cucumber, 2 in. pots, \$3.00 per 100; \$2.50 per 100. 3 in. pots, \$6.00 per 100; \$5.00 per 100. Seedlings, \$1.00 per 100; \$1.00 per 100.  
Ferns, in assortment, 2 in. pots, \$3.00 per 100; \$2.00 per 100. 3 in. pots, \$5.00 per 100; \$3.00 per 100.  
Smilax, 2 in. pots, \$1.50 per 100; \$1.00 per 100.  
THE BOOFL FLO. CO., Ithaca, N. Y.  
When Writing Mention Florists' Exchange

### 10,000 CARNATIONS

Field-grown, strong, healthy, well-grown plants. Fisher, Scott, Portia, Tidal Wave, Himz's White, Edmond's, Bay Finzer, Silver Spray, Lamborn, Meteor, Daybreak, Chester Pride, Helen Keller, Ruth, Thos. Cardigan, Anna Webb, Chester, Bridesmaid, McGowan, Sweetbrier and Wilder, \$5.00 per 100; \$45.00 per 100.  
VIOLET CLUMPS.—5000 Field-grown. No spot, Marie Louise, Swanley White, E. Garrett, California and Lady Campbell, \$4.00 per 100.  
REX HEGONIAS.—8000 in 15 varieties labeled, grown in 2 1/2 in. pots. Strong, well grown plants, \$3.00 per 100; \$25.00 per 100.  
FANDANUS UTILIS.—3000 2 1/2 in. pots, \$5.00 per 100.  
EXCELSIOR'S LITTLE GEM CALLA.—5000 Small, pump bulbs, will make nice plants for Spring use, \$1.00 per 100; \$10.00 per 100. Plants.  
Satisfaction guaranteed.  
A. B. DAVIS & SON, Parcerville, Va. (Near Washington, D. C.)  
When Writing Mention Florists' Exchange

### FIELD-GROWN CARNATIONS

**MAYOR PINGREE**  
\$10.00 per 100.  
JOHN BREITMEYER & SONS,  
DETROIT, MICH.  
When Writing Mention Florists' Exchange

### NOW WE HAVE IT. A PERFECT CARNATION SUPPORT

We will send you free if you pay express charge, a sample which will convince you that it is all we claim. . . .  
The only Carnation Support RIGHTLY COMMENDED by the Judges of the S. A. F. Convention, at Providence, R. I., Aug. 16, 1897.  
JAMES HOBAN & SON,  
Florists, Bridgeport, Conn.  
When Writing Mention Florists' Exchange

### CARNATIONS and CYCLAMEN

CARNATION.—First-class field-grown no rust Scott, Alaska, McGowan, Portia, Tidal Wave, E. Pieroni, \$6 per 100; \$50 per 100. In baskets, Major, Albertini, Bridesmaid, \$7 per 100; \$60 per 1000. Buds on \$5 per 100.  
CYCLAMEN PRINCEIM GIGANTEUM.—from 9 1/2 in. pots, \$10 per 100; \$10 per 100. \$5 per 100.  
J. C. BURROW, Agent, Fishkill, N. Y.  
When Writing Mention Florists' Exchange

### CARNATION STAKE!

THIS STAKE is made of one piece of wire, No. 12, galvanized and neatly packed in bunches of 50, for the field or no benches. It is easily worked about, more quickly applied than anything we know of. Sample 100, \$1.50 Write for prices on large quantities.  
Will exchange for Scott & McGowan plants.  
MYERS BROS.,  
Florists, ALTOONA, PA.  
When Writing Mention Florists' Exchange

### 50,000 FIELD GROWN CARNATIONS

Strong and healthy plants in quantity now ready for delivery, of the following sorts: William Scott, Rose Queen, Tidal Wave, Albertini, Nancy Franklin, Portia, Inez, Gilbert, Corsair, Lizzie McGowan, Storm King and Ivory. Price, per 100, \$3.00; per 1000, \$25.00. No order for less than 100 accepted. Address REINBERG BROS., Wholesale Cut Flowers, 51 Wabash Ave., Chicago.  
When Writing Mention Florists' Exchange

### FIELD-GROWN CARNATIONS. FINE HEALTHY PLANTS.

Wm. Scott, Alaska, Tidal Wave, \$5.00 per 100; \$5.00 per 1000.  
Ficus Elastic, 6 in. pots, \$5.00 per doz. Kestine, 6 in. pots, \$16.00 per doz. Catalpa, 7 in. pots, \$12.00 per doz. Oyas Revoluta, from \$1.00 to \$5.00 each. Large Kestine, 6 ft. high, \$2.00 to \$4.00 each. 4 plants in each pot. Bay Trees, 7 ft. high, 8 feet in diam., \$50.00 per pair! Araucaria Excelsa, from \$1.50 to \$5.00 each. Cash with order.  
H. C. STEINHOFF, Tel. Call, 13 Union, 578 Hudson Boulevard, West Hoboken, N. J.  
When Writing Mention Florists' Exchange

### 4 ACRES FIELD-GROWN CARNATION PLANTS, 94,000.

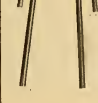
Our Carnations are grown with the greatest care. Free from disease and packed light by our improved system of packing by which we can send them to all parts of the United States and Canada in perfect condition.  
CRIMSON SPORT, IVORY, JUBILEE, DEAN HOLE, BUTTERCUP, \$1.50 per doz.; \$5.00 per 100.

- BRIDESMAID, ALBERTINI, DAYBREAK, CHESTER PRIDE, BEEDE OF EXCELSIOR, \$4.25 per doz.; \$6.00 per 100.
- SWEETBRIER, SILVER SPRAY, PURITAN, LIZZIE MCGOWAN, PORTIA, Wm. SCOTT, MRS. CARNEGIE, GARFIELD, GREAT WILDER, TIDAL WAVE, L. L. LAMBORN, \$3.00 per doz.; \$5.00 per 100.

### J. L. DILLON, - - - BLOOMSBURG, PA.

### EXCELSIOR CARNATION SUPPORTS

10, 13, 18, 20 inches high, \$5.00 per 1000; \$1.00 per 100.  
50,000 CARNATIONS. Field-grown plants, all the standard varieties, \$5.00 per 100; \$50.00 per 1000. New sorts, \$10.00 per 100.  
ROSE STAKES OF GALVANIZED WIRE.  
2 ft. \$5.00 per 1000; 2 1/2 ft. \$5.00 per 1000; 3 ft. \$7.00 per 1000; 4 ft. \$8.00 per 1000.  
STEMMING WIRE.  
20 to 24, 50 cts. per stone; 33 and 36, \$1.40 per stone. 21-23 cut or 9 or 12 inches, 75 cts. per lot; \$2.00 per 100. Not less than 50 lbs. at this price.  
30,000 PALMS  
At the lowest prices. Send for list.  
H. F. LITTLEFIELD, Worcester, Mass.  
When Writing Mention Florists' Exchange





Philadelphia.

Warm Weather Makes Business Quiet.

As regards the cut flower market there is very little to report. Business has been very quiet, so that the ordinary warm weather is the cause of this, as the buyers are still a ways and won't return until cooler weather is assured.

All kinds of flowers are more plentiful, and on account of fall trade the fallers get a great many first-rate trade. Beauty are being offered on the street at 5c each.

Asters are quite a glut; there was a large demand for purple ones this week on account of the Asters Convention, but few were to be obtained.

Violets are now coming in, but are very small and don't last long. R. M. Eisenberg is sending in some home-grown and finds ready sale.

Fred, Harold Married.

Fred, Elmer, the well-known uptown florist, was married on Wednesday last, and has taken his bride to Niagara to spend the honeymoon.

Outing.

On Wednesday last a party of about 20 went up to Morristown on the invitation of Hugh Hughes, gardener at the State House, and spent a very pleasant day looking over that immense institution. Mr. Hughes deserves great credit for his excellent management, in which the grounds are kept. The principal building is in front of the administration building, the first thing to catch the eye being an immense bed with ricinus in the center, edged with Salvia splendens. Two large tropical beds, a new bedding plant was noticed, cardoons were used to fill up spaces, and had an excellent effect. On the terraces, there have all done very well here this season. After inspecting the institution the party was entertained to dinner by the steward, and then entered carriages and were driven to the Morristown farm, after which an adjournment was made to a club-house on the banks of the Schuylkill River, where a very pleasant evening was spent. DAVID KIST.

SPECIAL FALL TRADE EDITION

OCTOBER 9, 1897.

THE FLORISTS' EXCHANGE always publishes its Special Editions with an eye single to the best interests of its advertisers; this is why its columns at such times are so thoroughly representative of all trade interests.

The FALL TRADE EDITION has annually been a great success; this year, on account of the boom which, without doubt, is here in real earnest, we expect our SPECIAL to prove more than ever an index to the business situation, and so are preparing for and have reason to expect this to be still better patronized than any of its predecessors.

The date set, October 9, marks the period when the effect of the Fall trade is just commencing to be felt; this is the auspicious moment to make announcements in order to maintain and increase business.

Our Special Fall Trade Edition is really

A TRADE ENCYCLOPEDIA,

and we sincerely trust that every firm with goods to sell will be represented in it. It will be a Business Edition for Business Men, and as such will, we trust, accomplish all the purposes which the publishers seek to gain on behalf of their friends—the advertisers.

of the Special will be mailed out to live members of the Florist, Seed and Nursery Trades. Advertisements must be in this office by Wednesday, October 6. To secure good position and display send in your copy as much earlier than the above date as you possibly can. First come, best served. Do not neglect to be represented in this Business Man's Edition.

The reading matter to be furnished with this edition will be fully worthy of our previous successes, and the special articles will be of the utmost value to all who grow plants.

THE FLORISTS' EXCHANGE, P. O. Box 1697, New York.

Table listing various florists and suppliers such as Crane S., Elizabeth Nure Co., Harrison Nure, Jackson & Perkins, Carmody J. D., etc.

Index to Advertisers. Lists names and page numbers for sections like Aquatics Supplies, Arrangements, Auction Sales, Begonias, Board of Trade, Bouquets, Cacti and Succulents, etc.







**AMERICAN BEAUTY.**  
MILAX transplanted, \$1.00 per 100 ASPAKAGIA PLUMS & CALIFORNIA VIOLETS, per 100. A. S. MacBEAN, Lakewood, New Jersey.  
When Writing Mention Florists' Exchange

**BUSBY FIELD GROWN CARNATIONS**  
With plenty of roots. Send for prices.  
**GEO. HANCOCK & SON, Grand Haven, Mich.**  
When Writing Mention Florists' Exchange

**Rooted Cuttings of the New Geranium Mme. BRUANT Ready Now.**  
I am able to furnish the standard and distinct varieties now in the United and Kingdom, and the most up-to-date stock of the year. Order at once and I will give you three to 15 per cent. off. Price list \$3.00 per 100; by express \$3.50 per 100.  
**FRED SCHNEIDER, 671 Grandview Rd., Cleveland, O.**  
When Writing Mention Florists' Exchange

**CHINESE PRIMROSES FOR SALE.**  
Mixed, ready for three and four inch pots \$2.00 per 100. Cash with order.  
**M. & S. DYSINGER, Albion, Mich.**  
When Writing Mention Florists' Exchange

**CARNARIAS**  
We have a large assortment of Dwarf and Standard flowering Carnations of this beautiful plant is expedited to you in the best 2 1/2 inch, \$2.50 per 100; \$3.00 per 100.  
**WITTON & SONS, Wholesale Florists,** City and Green Sts., Elm St., N. Y.  
When Writing Mention Florists' Exchange

**Rooher's Superb Prize PANSEES.**  
Fine plants from seed, 50 cts. per 100, by mail \$1.25 per 100, by express \$1.50 per 100.  
Transplanted plants ready September 25th, 15 cts. per 100, \$1.00 per 100, by express \$1.25 per 100.  
Special list to exchange Carnations for Violets, for particulars apply.  
**H. WILSON SMITH, Miltilineague, Mass.**  
When Writing Mention Florists' Exchange

**CHINESE PRIMROSE PLANTS.**  
Primula chinensis ambrata, extra strong plants from 2 1/2 inch pots, single varieties, 15 cents per 100; double, \$2.00 per 100. Single plants, white and red, \$1.00 per 100. 100 extra plants from 1 inch pots, Extra and German strains and untransplanted also and quality.  
**PAUL MAHER, East Broadways, Pa.**  
When Writing Mention Florists' Exchange

**PRIMROSES**  
7000 Primroses, ready for 3 in. pots, \$2.00 per 100.  
1200 CHEYSANTHEMUMS, 25 vars., \$1.00 per 100.  
1000 C. in pots, \$1.00 per 100.  
1000 CARNATIONS, field-grown, \$1.00 per 100.  
500 PANSY SEEDS, 1/2 doz., \$5.00 doz., \$5.00 doz.  
**JOS. H. CUNNINGHAM, Delaware, Ohio**

**CHRYSANTHEMUMS.**  
Twenty-five best varieties for cut flowers: Pink, White and Yellow, at \$3.00 per 100; \$1.50 per 100; my selection, from pots.  
**R. H. MURPHY, Urbana, Ohio.**

**FIELD-GROWN CARNATIONS**  
Kitty Clover, Louis C. Haettel, Fortia, Dr. Warden, Mrs. Wm. Brimicombe, Monnie, \$4 per 100.  
Bogonia Rex, 15 varieties, \$5.00 per 100.  
**WM. H. SEARNS, Avondale, Chester Co. Pa.**

**CARNATIONS.**  
Field-grown Scott, McGowan, Fortia and Rose \$3.00 per 100. \$5.00 per 100. Pink, Yellow and White. From John W. and Wm. Starr, (retd), \$5.00 per 100. \$5.00 per 100. Rooted cuttings of Mme. Bruant and other Primrose, \$1.00 per 100. Palms, H. K. and Mrs. C. F. Fryer.  
**Wm. H. & F. WILLIAMS CO., 331 Erie Street, CLEVELAND, O.**  
When Writing Mention Florists' Exchange

**BRIDESMAID, PERLE, METEOR, BRIDE KAISERIN, MERMET, LA FRANCE and RUSEN.** H. H. RICHARDSON, 303 1/2 St. Louis, Pa.  
A. S. MacBEAN, Lakewood, New Jersey.  
When Writing Mention Florists' Exchange

**FIELD-GROWN CARNATIONS**  
Good, strong, healthy plants. Write for kind prices. Delivery after Sept. 10th.  
**LOGAN AV. GREEHOUSES, Danville, Ill.**  
When Writing Mention Florists' Exchange

**Field Grown Carnations.**  
**GOOD STOCK.**  
3700 Wm. Scott, 3000 Lizzie McGowan. Price on application.  
**VICTOR S. DORVAL, - Woodside, L. I.**  
When Writing Mention Florists' Exchange

**H. WEBER & SONS, GARNATIONS OAKLAND, MD.**  
When Writing Mention Florists' Exchange

**CARNATIONS**  
PLANTS FOR SALE.  
WM. SCOTT, LIZZIE MCGOWAN and DAYBREAK, clean plants, \$4.00 per 100. Cash with order. 10 cts. for sample.  
**F. G. HENSE, Glen Cove, N. Y.**  
When Writing Mention Florists' Exchange

**FIELD-GROWN CARNATIONS**  
Good strong healthy plants.  
**600 Daybreak, 400 Scott, \$5.00 per 100,000.**  
Cash with order.  
**WM. F. KELLER, Florist, Easton, Pa.**  
When Writing Mention Florists' Exchange

**FIELD GROWN CARNATIONS.**  
Strong, healthy plants from field, of the following varieties: Scott, Carlidge, Daybreak, McGowan, Minnie Cook, Alaska.  
Send at once for prices before stock is exhausted.  
**H. D. ROHRER, Box 344, LANCASTER, PA.**  
When Writing Mention Florists' Exchange

**MORE LILIO**  
Field-Grown, at \$1.50 per dozen; \$10.00 per 100.  
**HOPP & LEMKE, East Grand Rapids, MICH.**  
When Writing Mention Florists' Exchange

**FIELD-GROWN CARNATION PLANTS**  
3000 MCGOWAN, 2000 SCOTT.  
Prices on application  
**J. A. SUYDAM, Brookline, N. Y.**  
When Writing Mention Florists' Exchange

**CARNATIONS**  
Field-grown Scott and McGowan, \$3.00 per 100. Chrysantheum, named varieties, all colors, fine stocky plants, 50 cts. per 100. \$7.00 per 100. Chrysantheum, Dwarf Hybrids, 2 and 3 1/2 in. pots, very fine strain, \$2.50 per 100.  
Rose, Heidelberg, 4 in. pots, clean, healthy stock, \$4.00 per 100.  
English Lily, large plants from field, \$4.00 per 100.  
Cash with order.  
**E. FRYER, Berlincott St. and New Lots Ave., BROOKLYN, N. Y.**  
When Writing Mention Florists' Exchange

**Grape Vines**  
Small Fruits  
New varieties.  
Extra fine stock of **CITRANTS**, including the new and attractive **VILLER** and **WILLIAMS** extra quality ones. Warranted true.  
**HARRISON CO., Fredonia, N. Y.**  
When Writing Mention Florists' Exchange

**JACKSON & PERKINS CO., NEWARK, NEW YORK.**  
Have to offer for season of 1897-98 a choice assortment of Field-grown Roses, never sold elsewhere. Climatic, Ornamental Shrubs and Trees, Fruit Trees and Small Fruit Plants.  
**WRITE FOR PRICE LIST.**  
When Writing Mention Florists' Exchange

**PEACH AND PLUM TREES DELIVERY INST.**  
Both old and clean stock at lowest wholesale rates. All desirable leading varieties of PEACHES, old and new in fruiting orchards, and very large stock of P. M. FREE, 6 in. plum roots, one and two years. Beds can be supplied of these also, other from nurseries or orchard trees. Have all the leading Japanese varieties. Abundance, Bank, Chabot, Osamu, Williams et al. offer; also the new Red Jane and Wisconsin good supply. Local supply also of Aswarth Root to order.  
**ALEXANDER PULLEN, Millard Nurseries, Millard, DE.**  
When Writing Mention Florists' Exchange

**HERBACEOUS PAONIAS.**  
Splendid assortment of strong clumps, 25 varieties, \$8.00 per 100; \$7.00 per 1000.  
**HARDY SHRUBS. HARDY ROSES.**  
Get our Catalogue and Price List.

**W. & T. SMITH CO., Geneva, N. Y.**  
When Writing Mention Florists' Exchange  
**CABBAGE AND LETTUCE PLANTS**  
Cabbage, Early Jersey Wakefield, Charleston Wakefield, New Early and Henderson's Succession.  
Lettuce, Big Boston, Boston Market, Tennis Ball, White Leaf, Grand Rapids and Richer's Forcing, 15 cts. per 100; \$1.00 per 1000. If by mail \$1.25 per 100.  
**TOMATO - Lorrain, 25 cts. per 100.**  
Cash with order.

**R. VINCENT JR. & SON, White Marsh, Md.**  
When Writing Mention Florists' Exchange  
**P. Ouwerkkerk,** 1123 Summit Ave., Jersey City, N. J.  
Just received from our Holland Nurseries:

RHODODENDRONS, AZALEAS,  
SPIRÆA JAPONICA, LILIUM SPECIOSUM,  
PEONIES, BLEEDING HEART,  
POT GROWN LILACS, HYDRANGEA IN SORTS.  
CLEMATIS & H. P. ROSES, in the best sorts.  
PRICES MODERATE.  
When Writing Mention Florists' Exchange

**HARRISON'S**  
BERLIN, MD., have one and a half million  
**PEACH TREES**  
grown from natural seed. Send for prices.  
When Writing Mention Florists' Exchange

**OLD COLONY NURSERIES**  
SURPLUS STOCK.  
Beech, European, 5 to 6 ft., \$20.00 per 100.  
" 5 to 6 ft., \$15.00  
Purple-leaved Hollies, \$15.00  
Berberis purpurea, 10 to 25 ft., 2.00 per 100.  
Prickly Pear, 10 to 18 in., \$1.00  
" 6 to 10 in., 1 year, 2.00  
Palm, Utmis Americana, 8 to 9 ft., \$5.00 per 100.  
Corydia Suspecta, 4 ft., \$5.00  
Ficus Japonica, 3 to 4 ft., 15.00  
Arbutus, California (tree), 18 to 24 in., 2.00  
Samborcarpus vulgaris, 15 cts. per 100.  
Viburnum opulus (tree cranberry), 3 to 4 ft., \$1.00  
**T. R. WATSON, Plymouth, Mass.**  
When Writing Mention Florists' Exchange

**100,000 PEACH TREES**  
All Leading Varieties.  
8,000 Plum trees, 1 year, \$100. Apricot, 10,000 Apple trees, 3 years, \$1 up, Ben Davis and York Imperial.  
The following stock will be sold very cheap in view of the small quantity of trees remaining:  
10,000 Norway Maple, imported seedlings, twice transplanted, from 3 to 8 ft.  
500 Sugar Maple, 8 to 14 ft.  
500 Norway Maple, 10 to 12 ft.  
300 Sugar Maple, 5 to 7 ft.  
300 Sugar Maple, 3 to 4 ft.  
1000 Ridgely Chestnut, 5 to 7 ft.  
1000 American Linden, 10 to 12 ft.  
1000 Norway Spruce, 2 to 4 ft.  
1000 Irish Juniper, 2 to 4 ft.  
1,000 American Spruce, 3 to 8 ft.  
200 Cal. Leaf Birch, 7 to 8 ft.

**C. L. LONGSDORF, OAK HILL NURSERIES, Pine Bluff, Arkansas, Adams Co., Ark.**  
When Writing Mention Florists' Exchange  
**I HAVE A...**  
**FINE STOCK**  
OF—  
PEARS, APPLES, CHERRIES  
PEACHES, QUINCES, AC.

3000 Elm, 10 to 15 feet  
1,000 Sugar Maple, 12 to 14 ft.  
1,000 Norway Maple, 10 to 12 ft.  
1,000 Norway Maple, 8 to 10 ft.  
1,000 Norway Maple, 5 to 7 ft.  
2,000 Red and Yellow Norway Spruce, 3 to 5 ft.  
2,000 Large Leaved Hemlock, 3 to 5 ft.  
2,000 Norway Spruce, 10 to 12 ft.  
1,000 Linden Horse Chestnut, 8 to 15 ft.  
20,000 Green Spruce, 2 to 4 ft.  
20,000 California Horse Chestnut, 2 to 5 ft.  
1,000 Rhododendron and Azalea, strong plants.  
1,000 Peaches, Apples & Quinces, bearing trees.  
1,000 American Apples, Trees and instruments of Paris, waiting stock for customers, should call on me for catalogue, terms and remittance to New York City.  
**STEPHEN CRANE, Norwich, Conn.**  
Proprietor Norwich Nurseries.

**Tree Roses**  
2,000 superior Holland gown and transplanted Tree Roses for early shipment.  
Rhododendron, English or Holland gown, Azalea, Shrubs and nursery stock in general.  
**KEENE & FOLK, - FLUSHING, N. Y.**  
When Writing Mention Florists' Exchange

**ORNAMENTAL TREES AND SHRUBS.**  
**Roses, Bulbs and Hardy Perennials**  
In Large Assortment and of Superior Quality.  
Fully believe that we can show more Ornamental Trees and Shrubs, and a larger, finer block of Hardy Roses, Hybrid Perpetual Moss and Climbers than can be seen elsewhere. We have 25 green-houses, several of them devoted to Palm, Cactus, Ficus and Araucaria Excelsa. Personal inspection and correspondence solicited. Catalogue free.  
**THE STORRS & HARRISON CO., Box 6 Painesville, O.**  
When Writing Mention Florists' Exchange

**"JADOO"**

FIBRE and LIQUID are used and endorsed by the leading growers. Try them and be convinced.

When Writing Mention Florists' Exchange

**FOR MILDEW AND BLACK ROT**

on Roses, Fruits and Vegetables, and Carnation Root.

USE FOSTITE, 5 pounds, \$5.00, 35 pounds, \$2.00.

**C. H. JOOSTEN, IMPORTER OF PLANTS, BULBS AND SEEDS,**  
193 Greenwash St., New York.

When Writing Mention Florists' Exchange

**SAVE THE BLOOMS! NIKETEEN**

DOES NOT INJURE SENSITIVE PLANTS USED FOR FUMIGATION OR SPRAYING, INDOORS OR OUT DOORS.

Price \$1.50. ALL SEEDSMEN.

When Writing Mention Florists' Exchange

**THE BEST FOR ALL Florists.**

FOR SALE BY Seed Stores.

FOR Free Pamphlet, write to LOUISVILLE SEED GROWERS TOBACCO Co. Louisville, Ky.

When Writing Mention Florists' Exchange

**GOLD FISH.**

Fine Healthy Stock.

Medium to large size, \$10.00 per 100. Cash thousands of males with safety and are profitable and attractive stock to handle.

Full line of Aquaria Supplies.

**KEENAN'S SEED STORE,**  
6112 and 6114 Wentworth Ave., CHICAGO.

When Writing Mention Florists' Exchange

**DEATH TO THE INSECTS HARMLESS TO THE PLANTS.**

**THE KENTUCKY EXTRACT CO'S**

**KILL IT**

AN insecticide for quick destruction of the Aphid on tobacco cannot be excelled. For sale by leading dealers.

**SURE**

**THE KENTUCKY EXTRACT CO. Columbus, O.**

802 N. MAIN ST. ACTUARY.

Book of Directions Sent Upon Application.

When Writing Mention Florists' Exchange

**DO NOT BE HUMBUGGED**

Info Using CHEAP Imitations of our **GREEN SILKALINE**

**SILKALINE**

FOR SALE by the leading Retail supply houses. On 2 oz. smooth, 8 cents; 1 lb. tin, 50 cts. It keeps in packing. Price \$1.50 per lb.

Contains more color and does more work than anything else on the market. The original and only SILKALINE is made only by **JOHN W. MEYER & CO'S**, 27 Sumner Street, BOSTON, MASS., U. S. A.

When Writing Mention Florists' Exchange

**A Patent Factor.**

The Florists' Exchange is the most potent factor in the Florists' Union. W. H. DUBVETZ, Mattituck, L. I., Zone 8, 97.

*Washington.*

One Form of Government Competition Renewed.

For some time the Suburban Citizen has been making a study of the competition suffered by florists through government institutions here, and in its issue of September 4, it makes the following announcement:

"The Reform School people have taken the tip and backed down from their plans formed early in the Summer, and instead of asking Congress for \$6,000,000 for a new dairy building and dairy appliances, and \$750 for the purchase of cows. The florists are to be given a rest for a season and a new scheme is to be entered into for supplying the people of Washington with milk and butter. Of course the establishment of a large dairy plant would do great damage to all the dairymen in the district, and then we would afford the florists a season of relief for which they have been crying for some time."

*St. Louis.*

Market Conditions.

Another week of extremely hot weather finds us with still plenty of white and pink roses in the market, a slight shortage of Perle, and Meteor very short in demand, though short in supply. Quite a few varieties in the field are selling better than they have been for some time. Carnations are of very poor quality, and as they were better.

**The News.**

Fred Foster, recently of Milwaukee, has been engaged to assume the management of a new floral concern in this city which will be owned by a corporation of which Mrs. H. H. is the principal organizer. They have rented the store at 602 Olive street, a very central location, and promise to do very well.

Eugene Wurst, until recently gardener to Mr. C. S. Brown, has resigned his position and started in business for himself in East St. Louis, at the stand formerly belonging to August Miering.

While on a fishing excursion with three others of the employes of the Michel Plant and Bulb Company, John W. Muhlenschlager, for a number of years foreman of that company, fell into the Merrimac River, and losing a foot-hold, was drowned before his companions could reach him. His small children. He had been a faithful, conscientious worker and a thoroughly practical florist and mechanic, and leaves many friends among his late co-workers in this city.

*New Orleans.*

At last we have a little cooler weather. This has been a very hot, dry, long Summer, and plants have suffered more than any other city in the South. The weather is so poor as this year. Spring came in early and dry; all varieties commenced to flower, wood got very hard, and the late struck cutting; and the plants are very weak. The same may be said of roses in the ground. Caneaux would be very showy if it were not for the ravages of the worms. The past Summer I gave up one lot to Providence, R. I. and the entomologist of this city, in which to grow, but obtained no good results. Until we can find something to eradicate this pest there will be no use in planting canna's in the city.

In regard to the new flower glazing kinks, Italia and Austria, I don't think they will be any good for bedding; they are, however, grand when protected from glass. I have not seen anything better for general use than Mme. Crozy. I have succeeded best with Italia and Austria by growing them in water.

U. J. Virgin's roses are looking exceedingly well in the three new houses he built last year. He has changed from heating from hot water to steam and the test he has made of it has been very satisfactory.

M. Cook has just moved here. He has also built two very fine dwellings on his back square.

M. L. Vail has just bought three lots on Hurst street. He intends building there.

Most of the florists have got in their bulbs and seeds. They have also commenced to order their plants for all Saints' Day. HARRY PALWORTH.

**Simplicity in Greenhouse Construction.**

During our long experience we have not only made many improvements in greenhouses, but we have so simplified the construction that building a greenhouse is no longer a matter so full of complications as to tax the patience and the ingenuity of even the most intelligent mechanic. Our

**Clear Cypress Building Material**

is worked out in the best manner ready to be put up, and we furnish our customers such complete detail drawings that any workman of only ordinary capabilities can put it up correctly.

Write for Circulars or Estimates.

**Lockland Lumber Co.,**  
LOCKLAND, OHIO.

When Writing Mention Florists' Exchange

**MANURE.**

Fresh and well rotted horse manure. Manure for Mushroom growing especially. For reference to shipping by Penn. R. R. P. & R. B. O. & O. Call on J. H. H. at 1215 Filbert Street, Philadelphia, Pa.

When Writing Mention Florists' Exchange

**SHEEP MANURE**

Cleaned and prepared expressly for florists' use. For full details of the same see article. For reference to its being first-class I refer you to Henry F. Michell, 1015 Market Street, Philadelphia, Pa. Price of 150 lbs. \$3.00; per ton, \$35.00. \$1.00 to one ton, cash with order.

Herman Rows will be taken in exchange.

**CODFREY ASCHMANN,**  
1012 Ontario St., PHILA., PA.

When Writing Mention Florists' Exchange

**SCOLLAY'S IMPROVED PUTTY BULB**

For Glazing Sash, Etc., — ALSO THE PATENT PLANT SPRINKLER

For sale by your Seedsmen or sent, postpaid, for \$1.00.

**JOHN A. SCOLLAY,**  
74 & 76 Myrtle Ave., BROOKLYN, — N. Y.

SEND STAMP FOR CATALOGUE.

When Writing Mention Florists' Exchange

**PIPE VALVES**

Wrought Iron Flanges, Valves, Cooke, Fittings, etc., for Steam and Hot Water; Rubber Hose, Pumps and Wall Points.

**W. H. KAY, 42 Day St., New York.**

When Writing Mention Florists' Exchange

**TILE DRAINED LAND**

is the earliest, easiest worked and most productive. It is the only one that will give surplus water and admit the soil to the sun's rays. It is made by **RICQUART'S DRAIN TILE** meets every requirement. Write also Sewer Pipe. See our book "How to Drain Land." Write for what you want and price. JOHN H. JACKSON, 11 Third Ave. Albany, N. Y.

When Writing Mention Florists' Exchange

**FOR GREENHOUSES, CONSERVATORIES, GRAPERIES, HOTBEDS AND FLORISTS' USE GENERALLY, AT LOWEST RATES.**

**L. HARRIS & SON,**  
497 W. BROADWAY, NEW YORK, 89 BROADWAY AND THURSDAY St.,

When Writing Mention Florists' Exchange

**A GOOD HOSE IS A GOOD INVESTMENT**

The best is the cheapest. To ascertain what a hose is worth, divide the cost per foot by the number of years it will last. We are in the market to compete in number of years with anything that is manufactured. Price 50c. per foot for 3/4 inch; 80c. per foot for 1 inch hose.

"Best hose I have bought in twelve years." — N. STRONG. "It is fine." — E. O. HILL.

**Address J. C. & A. ESLER, Saddle River, N. J.**

When Writing Mention Florists' Exchange

**DON'T STRUGGLE WITH HOT WATER**

And so lower the vitality of your Stock, invite Mildew, Black Spot, and other Disease, but write for particulars of my Tempering Apparatus.

**HENRY W. CIBBONS,** HEATING ENGINEER AND GREENHOUSE BUILDER  
136 LIBERTY STREET, NEW YORK.

When Writing Mention Florists' Exchange

**MASTICOA**

**FOR GLAZING GREENHOUSES. SUPERIOR TO PUTTY IN EVERY WAY.**

It is not hardened by the extreme heat or cold that a greenhouse is constantly subjected to both by day and night. Masticoa is enduring and remains permanently elastic so that it is not forced out of place by expansion and contraction of the wood of the frame. It is also proof against rust. It is not dried out by the sun's rays. Masticoa is made of glass. With Masticoa can seal-in or use on the outside, but with a machine only.

**HIGHEST AWARDS OF SOCIETY OF AMERICAN FLORISTS AT PITTSBURGH, 1895.**

Put up in gallons, \$1.00. Half gallons, 60 cts. Quarter gallons, 35 cts. Mastical Glazing Machines, \$1.00 each.

Send for full descriptive circular and testimonials. Agents in all the principal cities.

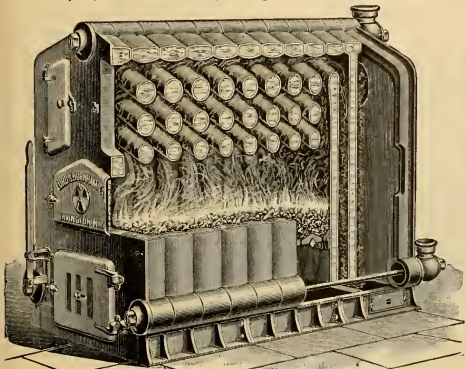
**F. O. PIERCE CO., Sole Manufacturers, 170 Fulton St., New York.**

**LORD & BURNHAM CO.,**

Horticultural Architects and Builders and Manufacturers of Heating and Ventilating Apparatus.

(Established 1862.)

Plans and estimates furnished on application for Heating and Ventilating Apparatus erected complete, or for material only. Highest Awards at the World's Fair.



NEW SECTIONAL HOT WATER HEATER.

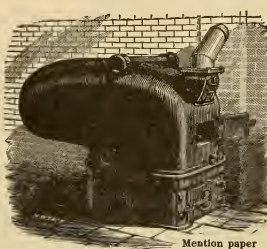
Specially adapted to large ranges. Will heat up to 16,500 feet of glass. Highest economy. Moderate cost. Also heaters for smaller work. Send six cents postage to New York office for latest catalogue of Heating and Ventilating Apparatus.

NEW YORK OFFICE: 160 FIFTH AVE., COR. 21ST ST. GENERAL OFFICE AND WORKS: IRVINGTON-ON-HUDSON, N. Y.

When Writing Mention Florists' Exchange

**GREENHOUSE HEATING AND VENTILATING,**

Horticultural Architecture and Building.



Mention paper

**Hitchings & Co**

ESTABLISHED 1844.

233 Mercer Street, NEW YORK.

FIVE PATTERNS OF BOILERS.

NINETEEN SIZES.

Perfect Sash Raising Apparatus.

Reservoirs, Greenhouses, Etc., of Iron Construction erected complete or the Structural Iron Work shipped ready for erection.

Iron Frame Benches with the "Perfect Drainage Bench Tile" or Slate Tops.

SEND 4c. POSTAGE FOR ILLUSTRATED CATALOGUE.

**GLASS! GLASS!**

For Greenhouses, Conservatories, Graperies, Hotheds and all other purposes, at Lowest Rates.

N. COWEN'S SON, 392 & 394 West Broadway, New York,

Formerly 184 and 186 So. Fifth Avenue.

Get our Figures before buying Glass. Estimates Freely Given

When Writing Mention Florists' Exchange

**CALIFORNIA RED CEDAR**

Never Decays.

A. DIETSCH & CO. 819 Sheffield Avenue, CHICAGO.

RED CEDAR AND CYPRESS GREENHOUSE MATERIAL.

When Writing Mention Florists' Exchange

**VALVES AND FITTINGS**

For Pipe and Tubing.

VENTILATING APPARATUS.

COLDWELL-WILCOX CO.,

Newburgh, N. Y.

SEND ON CATALOGUE

Mention paper.



**SUMMER IN WINTER**

By Using

Standard Greenhouse Boilers

One cost gets our Catalogue.

GIBLIN & CO., - Utica, N. Y.

When Writing Mention Florists' Exchange



**Evans' Improved Challenge.**

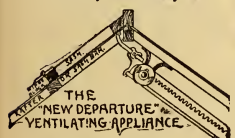
Roller bearing, self-oiling device automatically stop, solid link chain makes the IMPROVED CHALLENGE the most perfect apparatus in the market.

Write for catalogue and prices before placing your order else Quaker City Machine Co., RICHMOND, IND.

When Writing Mention Florists' Exchange

**IF YOU WANT A GOOD SASH LIFT**

For a Very Little Money Get



**THE NEW DEPARTURE VENTILATING APPLIANCE.**

For Descriptive Catalogue Send to J. D. CARMODY, Evansville, Ind. When Writing Mention Florists' Exchange

**CYPRESS**  
IS MUCH MORE DURABLE THAN PINE.

**CYPRESS SASH BARS**  
UP TO 12 FEET IN LENGTH OR LONGER.

**GREENHOUSE AND OTHER BUILDING MATERIAL.**

Send for our Illustrated Book "CYPRESS LUMBER AND ITS USES." Send for our Special Greenhouse Circular.

**A. T. STEARNS Lumber Co.,**  
Nepesens, Western, MASS.

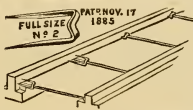
When Writing Mention Florists' Exchange

**CYPRESS GREENHOUSE MATERIAL OF ANY DESCRIPTION**

**JOHN C. MONINGER Co.**

412 to 422 HAWTHORNE AV. CHICAGO, ILL.

When Writing Mention Florists' Exchange



FULL SIZE PAT. NOV. 17 1885 No 2

**THE VAN REYPER**

**PERFECT GLAZIERS' POINTS**

No rights or lefts. Price per box of 1000, 60c. by mail, 75c.; in lots of 5000 by ex., 55c. per 1000

HENRY A. DREER, 714 Chestnut St., Phila., Pa.

When Writing Mention Florists' Exchange

SEND FOR OUR NEW CATALOGUE, WHICH SHOWS

**The New Automatic Cable Ventilator**

As it is put up to the house complete. We also give you prices with a guarantee that each machine sent out will operate your house successfully. Still machines now made in two sizes.

**A. & WOLF & BRO., Dayton, Ohio.**

When Writing Mention Florists' Exchange

**STANDARD VENTILATING MACHINE.**

NONE EQUAL IT IN Strength AND Durability

Send for Catalogue.



NOTHING Flimsy OR Complicated about it.

E. HIPPARD, YOUNGSTOWN, OHIO.

When Writing Mention Florists' Exchange

**TRADE GREENHOUSES.**

THE BEST MADE.

"Florists" Get Your Plans and Estimate from PLENTY'S HORTICULTURAL WORKS,

148-156 Randolph Ave., JERSEY CITY, N.J.

When Writing Mention Florists' Exchange

J. K. ALLEN, Wholesale Commission Dealer in CUT FLOWERS, 87 W. 28th St., New York.

W. S. ALLEN, 17 West 28th St., New York. Correspondence Solicited.

ESTABLISHED 1891. C. E. BRADSHAW, 125 W. 30TH ST., NEW YORK, Wholesale Dealer in CUT FLOWERS

FORD BROS. WHOLESALE FLORISTS, 111 West 30th Street, NEW YORK.

WM. H. GUNTHER, Wholesale Florist, VIOLETS AND CARNATIONS A SPECIALTY.

MICHAEL A. HART, Wholesale & Commission Florist, 113 W. 30th St., New York.

H. A. HOFFMANN, Wholesale Florist, 44 W. 29th St., New York.

EDWARD C. HORAN, WHOLESALE FLORIST, No. 34 W. 29th St., New York.

JULIUS LANG, Wholesale Florist, 53 WEST 30TH ST. Consignments Solicited.

FRANK MILLANG, Wholesale Commission Dealer ...in Cut Flowers...

MacDONALD & McMANUS, WHOLESALE FLORISTS & DEALERS IN CUT FLOWERS. 50 W. 30th St., New York.

VAUGHAN, McKELLAR & WINTERSON, WHOLESALE COMMISSION JOBBERS, 45, 47, 49 WABASH AVENUE, CHICAGO, ILL.



Table with columns: NAMES AND VARIETIES, NEW YORK, BOSTON, PHILADELPHIA, CHICAGO, ST. LOUIS. Lists various flower types and prices.

For Prices of Fancy and Special Stock see our Correspondence Catalogue. Prices are for quantities of one hundred unless otherwise noted.

REINBERG BROS., Wholesale Growers of Cut Flowers. 500,000 Feet of Glass. We can fill all orders on short notice with all leading varieties of ROSES and CARNATIONS.

SAMUEL S. PENNOCK, WHOLESALE FLORIST. A fine stock of VALLEY on hand throughout the Summer. All a full line of all reasonable cut flowers.

C. A. KUEHN, WHOLESALE FLORIST, 1122 Pine St., St. Louis, Mo. C. W. WORS, Wholesale Florist, 313 N. LEFFINGWELL AVENUE, ST. LOUIS, MO.

THE NEW YORK CUT FLOWER CO. 119-121 West 23d Street, 112-114 West 24th Street, Telephone 733-15. NEW YORK.

PURDY & BLAUVELT, Wholesale and Commission Dealers in CUT FLOWERS. MADEIRA FEEL FRONDS A SPECIALTY.

F. A. ROLKER, WHOLESALE DEALER IN CUT FLOWERS, 53 West 28th Street, Tel. phone 2379 38 h St. NEW YORK.

W. F. SHERIDAN, Wholesale Commission Dealer in CUT FLOWERS, 59 West 25th St., New York.

FRANK H. TRANDY, CHARLES SCHENCK, TRAENDY & SCHENCK, Wholesale Florists, 38 W. 28th St., NEW YORK.

JOHN YOUNG, Wholesale Florist, 51 WEST 28th ST., NEW YORK.

WM. J. BAKER, Wholesale Florist, 1432 So. Penn Square, Philadelphia, Pa.

DUMONT & CO., WHOLESALE FLORISTS, CARNATIONS A SPECIALTY. No. 1305 Filbert St., Philadelphia, Pa.

S. FROWERT, Wholesale Florist, 17 North 13th Street, PHILADELPHIA, PA.

EDWARD REDD, Wholesale Florist, Finest Varieties Roses, Carnations, etc. 1528 Ransford St., bet. Market & Chestnut Sts. PHILADELPHIA, PA.

Wholesale Florists... FLORISTS' SUPPLIES.

FLORISTS' VASES... 64 HAWLEY STREET, BOSTON.

GEO. A. SUTHERLAND... CUT FLOWERS and FLORISTS' SUPPLIES... 67 Bromfield St., Boston, Mass.

City Hall Cut Flower Market... WELCH BROS., Props.

Regular Comers... SEND FOR PRICE LIST.

KENNICOTT BROS. COMPANY, Wholesale - Cut - Flowers... 88 Washab Avenue, CHICAGO, ILL. WIRE WORK A SPECIALTY.

ROGERS PARK FLORAL CO., Wholesale Growers of Cut Flowers... 41 WABASH AVE., CHICAGO.

Buffalo Cut Flower Exchange... CONSIGNMENTS SOLICITED... 481 Washington St., BUFFALO, N.Y.

H. L. SUNDERBRUCH CO., Wholesale Commission Florists, 4th and Walnut Streets, CINCINNATI, OHIO.

HEADQUARTERS... WM. F. KASTING, Wholesale... 495 Washington Street, BUFFALO, N. Y.

St. Louis Cut Flower Co. WHOLESALE FLORISTS... 1620 Olive St., ST. LOUIS, MO.

ILLINOIS CUT FLOWER CO., J. B. DEAMUD MANAGER... Wholesale Commission Florists, 51 Washab Ave., CHICAGO

ASPARAGUS PLUMOSUS VARIUS, W. H. ELLIOTT, - Brighton, Mass.

Chicago. Club's Fourth outing... Fully 25,000 cannae are planted in 125 varieties...

After this part of the grounds was gone over, the party seemed to break up into groups...

A game of ball was engaged in, and the best breaking of eggs showed...

After refreshments were partaken of, Mr. Vaughan in a few happy remarks...

In Western New York, try us ROSES, CARNATIONS and ALL SEASONABLE FLOWERS.

WM. F. KASTING, Wholesale... 495 Washington Street, BUFFALO, N. Y.

St. Louis Cut Flower Co. WHOLESALE FLORISTS... 1620 Olive St., ST. LOUIS, MO.

ILLINOIS CUT FLOWER CO., J. B. DEAMUD MANAGER... Wholesale Commission Florists, 51 Washab Ave., CHICAGO

Cat Strings, 10 to 12 feet long... Shipped to any part of the country.

young and enterprising concern of wholesale florists... Cat Strings, 10 to 12 feet long...

The regular monthly meeting of the Kentucky Society of Florists took place Tuesday at the place of Herman Kleinstrank, Clifton.

After the meeting Mr. Kleinstrank served a choice lunch to the members... Business is dull with plenty of roses.

N. Griedeling, who recently purchased the Scott property on Main street, has moved his family here and is nicely settled.

J. F. Ammann has just completed a new 3' square rose house, 22x12 feet, with all the latest equipments...

IVY LEAVES 3 to 4 inches, 1000 per 1000. Cash with order.

ENGLISH IVY LEAVES Greenhouse grown, 50 cents per 1000. Cash with order.

GAAX LEAVES CHAS. H. RICKSECKER, Linville, N. C. When Writing Mention Florists' Exchange

Galax Leaves and Leucothea Sprays, ALWAYS WRITE THE INTRODUCERS, Highlands Nursery, Kawana, N. C.

HARDY CUT FERNS Eight months on hand, beautiful and well cultivated...

Hot-Bed Sash Tenons white-leaded. Corners secured with iron-dovetails.

Quick Shipments. We have in stock and can ship immediately: 3 ft. x 6 ft., 3 rows 10 in. glass...

LOCKLAND LUMBER CO., Lockland, Ohio. When Writing Mention Florists' Exchange

CHOCOLATE COOLER CO., GRAND RAPIDS, MICH. Manufacturers of FLORIST'S REFRIGERATORS.

WELCH BROTHERS, DEALERS IN FLORIST'S SUPPLIES, 15 Province Street, BOSTON.

M. RICE & CO., Importers and Manufacturers of FLORIST'S SUPPLIES, 25 N. 4th St., Philadelphia, Pa.

IVY LEAVES 3 to 4 inches, 1000 per 1000. Cash with order.

ENGLISH IVY LEAVES Greenhouse grown, 50 cents per 1000. Cash with order.

GAAX LEAVES CHAS. H. RICKSECKER, Linville, N. C. When Writing Mention Florists' Exchange

GAAX LEAVES CHAS. H. RICKSECKER, Linville, N. C. When Writing Mention Florists' Exchange

Galax Leaves and Leucothea Sprays, ALWAYS WRITE THE INTRODUCERS, Highlands Nursery, Kawana, N. C.

HARDY CUT FERNS Eight months on hand, beautiful and well cultivated...



# LIVE FLORISTS' EXCHANGE

We are a straight shoot and aim to grow into a vigorous plant.

A WEEKLY MEDIUM OF INTERCHANGE FOR FLORISTS, NURSERYMEN, SEEDSMEN AND THE TRADE IN GENERAL.

VOL. IX. NO. 39.

NEW YORK, SEPTEMBER 23, 1897.

One Dollar Per Year.

## DECORATIVE PLANTS ROSE HILL NURSERIES.

### JUST ARRIVED!

# DRACÆNA CANES

### FOR PROPAGATING.

We are the Largest Growers and Importers and Exporters of Dracæna Canes.

<p><b>Dracæna Terminalis,</b>          " <b>Gladstonciii,</b>          " <b>Metallica,</b>          " <b>Youngii,</b>          " <b>Amabilis,</b>          " <b>Sheppardii,</b></p>	<p><b>Dracæna Braziliensis,</b>          " <b>Norwoodensis,</b>          " <b>Stricta Grandis,</b>          " <b>Imperialis,</b>          " <b>Regina,</b>          " <b>Lady Hume,</b>  <b>Dracæna Titsworthii.</b></p>
---	--

All Canes sound and in perfect condition. If ordering equal proportions of each of the above varieties we shall make prices for immediate DELIVERY 15 cents per foot. ORDER AT ONCE.

**SIEBRECHT & SON,** NEW ROCHELLE, N. Y.  
(New York Office, 399 5th Ave.)  
 When Writing Mention Florists' Exchange

<b>ARECA BAUERII.</b>	
3 inch pots, 8-9 inches high.....	Per Doz. Per 100 \$2.00 \$3.00
4 inch pots, 12-15 inches high.....	3.00 35.00
5 inch pots, 21-24 inches high.....	6.00 50.00
<b>COCOS WEDDELIANA.</b>	
3 inch pots.....	Per Doz. Per 100 \$3.00 \$20.00
4 inch pots, single stem.....	5.00 40.00
4 inch pots, binary 3 plants in a pot.....	5.00 40.00
<b>KENTIA BELMOREANA.</b>	
2 inch pots.....	Per Doz. Per 100 \$1.00 \$12.00
3 inch pots, 8-12 inches high, 7 to 8 leaves.....	\$3.50 35.00
4 inch pots, 12-15 inches high, 7 to 8 leaves.....	4.50 35.00
5 inch pots, 18-20 inches high, 7 to 7 leaves, stocky.....	9.00 75.00
<b>KENTIA FORSTERIANA.</b>	
2 inch pots.....	Per Doz. Per 100 \$1.00 \$10.00
3 inch pots, 12-15 inches high.....	1.50 15.00
4 inch pots, 18-18 inches high.....	\$4.50 35.00
<b>LATANIA BORBONICA.</b>	
3 inch pots.....	Per Doz. Per 100 \$1.00 \$10.00
4 inch pots, 12-15 inches high.....	3.00 25.00
6 inch pots, 18-20 inches high, stocky.....	9.00 75.00

<b>PHOENIX RECLINATA.</b>	
4 inch pots, 12-15 inches high.....	Per Doz. Per 100 \$3.00 \$25.00
5 inch pots, 15-18 inches high.....	6.00 45.00
<b>GEONOMA GRACILIS.</b>	
2 inch pots.....	\$15.00 per 100
<b>LIVISTONA HOOGENDORPHII.</b>	
4 inch pots, 10-12 inches high, 7 leaves.....	\$4.50 per doz.; \$55.00 per 100.
<b>LIVISTONA ROTUNDIFOLIA.</b>	
5 inch pots, 10-12 inches high, 7 to 8 leaves.....	\$1.00 each; \$12.00 per doz.
8 inch pots, 15-18 inches high, 7 to 8 leaves, strong, \$1.50 each; \$18.00 per 100.	
<b>ADIANTUM CUNEATUM.</b>	
3 inch pots.....	\$7.00 per 100; \$65.00 per 1000
<b>ASPIDIUM TENSIMENSE.</b>	
3 inch pots.....	\$7.00 per 100; \$65.00 per 1000
<b>ASSORTED FERNS.</b>	
2 inch pots.....	\$4.00 per 100; \$35.00 per 1000
<b>ALSOPIHILA AUSTRALIS.</b>	
3 inch pots.....	\$1.50 per doz.; \$10.00 per 100
<b>ADIANTUM FARLEYENSE.</b>	
4 inch pots.....	Each. Doz. \$0.50 \$6.00
5 inch pots.....	1.00 10.00
8 inch pots.....	1.50 18.00

**PITCHER & MANDA, Short Hills, N. J.**

JOHN N. MAY, Receiver.

When Writing Mention Florists' Exchange

## WE WERE THE ONLY FIRM WHO RECEIVED A CERTIFICATE OF MERIT FOR GENERAL COLLECTION OF BULBS CLEVELAND 1896—PROVIDENCE 1897

The following Bulbs are now ready for delivery:

<b>FREESIAs.</b>	Extra sized bulbs, 60c. per 100; \$5.00 per 1000. Mammoth bulbs, \$5.00 per 100; \$15.00 per 1000.
<b>BERMUDA BUTTERCUP OXALIS.</b>	\$1.50 per 100; \$15 per 1000.
<b>LILIUM HARRISII.</b>	Finest quality, 5-7 in. bulbs, the most profitable size for general forcing, \$3.00 per 100; \$25.00 per 1000.
<b>BERMUDA GROWN LONGIFLORUM.</b>	5-7 in. bulbs, \$3.50 per 100; \$30.00 per 1000. 7-9 in. bulbs, \$7.50 per 100; \$70.00 per 1000. 9-11 in. bulbs, \$10.00 per 100. Large size Bermuda grown Longiflorum is very scarce—order quick if you want any.
<b>WHITE ROMAN HYACINTHS.</b>	Finest quality bulbs, 12-15 cm. in diam., \$2.50 per 100; \$22.00 per 1000.
<b>WHITE ITALIAN HYACINTHS.</b>	\$2.50 per 100; \$19 per 1000.
<b>PINK ROMANS.</b>	\$2.00 per 100; \$16.00 per 1000.
<b>CALLAs.</b>	Extra size bulbs, 1-1 1/4 in. in diam., \$4.00 per 100; \$50.00 per 1000. Selected bulbs, 1 1/2-2 in. in diam., \$2.00 per 100; \$20.00 per 1000. Mammoth bulbs, 2-2 1/2 in. in diam., \$12.00 per 100; \$100.00 per 1000.
<b>ALLIUM NEAPOLITANUM.</b>	\$75. per 100; \$6.00 per 1000.

For DUTCH BULBS, etc., which will soon be ready, see our Fall List.

## F. R. PIERSON CO.,

TARRYTOWN-ON-HUDSON, NEW YORK.

When Writing Mention Florists' Exchange

## A FULL LINE of Dutch French and Japan BULBS

HYACINTHS and TULIPS : :  
 WHITE ROMAN HYACINTHS  
 MAMMOTH FREESIAs : :  
 NARCISSUS P. W. GRANDIFLORA  
 L. HARRISII and BERMUDA OXALIS

## A Book for Florists

A COMPLETE AUTUMN TRADE LIST  
IS READY.

VERY CLOSE NEW PRICES ON ALL  
Wire Designs, Moss, Stakes, Foil, etc.

84 & 86 RANDOLPH ST., **VAUGHAN'S SEED STORE** (4 Barclay St., CHICAGO. NEW YORK.)

When Writing Mention Florists' Exchange



# Mushroom Spawn

Fresh stock just arrived. Our Special Milltrack brand is the finest spawn that can be produced.

Per hundred bs. \$8.00.  
\$7.00 per 1000.

Correspondence solicited from buyers of large quantities.

- Cane Stakes, 6 to 8 feet, \$7.00 per 1000.
- Raffia, 14 cts. per lb.; bale lots, 12 cts. per lb.
- Clay's Fertilizer, 50 lb. bag, \$3.50; 110 lb. bag, \$6.25.

**BULBS** — Our stock is now arriving. Lily Harrisii, Freesia, Galias, Roma Hyacinthis, etc., ready now.

WRITE FOR PRICES.  
**WM. ELLIOTT & SONS, New York.**  
When Writing Mention Florists' Exchange

## GRASS SEEDS

We are Headquarters and Dealers in RED TOP, BLUE GRASS, ORCHARD GRASS, MEADOW FESCUE and SUNFLOWER.

**J. CHAS. McCULLOUGH, SEEDSMAN, CINCINNATI, O.**  
JOBBER TRADE A SPECIALTY.

## LILIAM HARRISII.

5x7 \$2.50 per 1000.  
**ROMAN HYACINTHS.** 12x15 \$22.50 per 1000.  
**PAPER WHITE GRANDIFLORA NARCISSSUS.** \$10.00 per 1000.  
**FRESIA REFRACTA ALBA,** mammoth, \$5.00 per 1000.  
good bulbs, \$4.00 per 1000.  
SPECIAL PRICES ON LARGE LOTS.  
**F. W. O. SCHMITZ,** Importer and Exporter, Jersey City, N. J.

## BULBS... GLAZING MATERIAL.

- Romans, Mastica,
- Harrisii, Mastica Machine,
- L. Candidum, Liquid Putty,
- Fresias, Scollay Putty Bulb,
- P. W. Narcissus, Van Reyper's

**NOW READY.** Glazing Points.

**ELLIS & POLLWORTH, Milwaukee, Wis.**

## LILIAM LONGIFLORUM (Eximium verum)

We offer as long as stock lasts: 5x7 inches per 1000, \$14.00. 10 per cent discount for cash. These bulbs make extra good returns where Cut Flowers are wanted.

## CALIFORNIA CROWN SEEDS.

SWEET PEA SEED. In best standard sorts, introductions of '96 and NOVELTIES of '97. (Crop in short and EARLY orders are solicited.) Following seeds of BEST Growers, carefully selected and CLEAN.

Asters, Balsams, Cannas, Centaureas, Cosmos (Giant Perfection), Dahlia Tom Thumb, Freesia, Hollyhock, Lobelia, Mignonette, Nasturtiums, Verbena Mammoth, Petunias in choicest sorts, Phlox, Saxifax, Stocks, Verbenas

Address, **H. H. BERGER & CO., 220 Broadway, New York.**  
Branch Office, San Francisco, Cal. (Established 1878.)

# LILIAM HARRISII

... AND ... **BULBS.** (BERMUDA GROWN.)

ONLY A SMALL SURPLUS LEFT OF IDENTICALLY THE SAME CHOICE STOCK WE EXHIBITED AND FOR WHICH WE RECEIVED THE ONLY CERTIFICATE OF MERIT AT THE PROVIDENCE CONVENTION — THE HIGHEST POSSIBLE AWARD.

GET OUR PRICE BEFORE BUYING.  
**CLUCAS & BODDINGTON CO.**

IMPORTERS, EXPORTERS AND GROWERS' AGENTS OF SEEDS, BULBS AND PLANTS,  
Telephone Call 403 18th St. 501 and 503 W. 13th St., N. Y. CITY.  
When Writing Mention Florists' Exchange

## BULB HEADQUARTERS

WRITE FOR TRADE CATALOGUES. SAVE MONEY BY GETTING SPECIAL ESTIMATES ON YOUR WANTS IN BULBS, PLANTS, AND SEEDS. WHETHER LARGE OR SMALL.

OUR SPECIAL OFFER THIS WEEK: **Lilium Harrisii,** large selected, 6 to 7 inch bulbs, \$1.00 per 100; \$17.50 per 1000.

## American Bulb Company

Importers and Growers, **SHORT HILLS, N. J.**  
When Writing Mention Florists' Exchange  
**SEEDS** KENTUCKY BLUE GRASS ("POA PRATENSIS"), CHAS. E. PRUNTY, MAIN AND MARKET, SAINT LOUIS.  
When Writing Mention Florists' Exchange

## WINTZ'S NEW PEDIGREE CANNAS.

PHILADELPHIA, the finest crimson. MAIDEN'S BLUE, color of Daybreak variation. ALSACE, nearest pure white and many other choice new kinds of our own introduction. Write for Special List. . . . THE CONARD & JONES CO., WE-T-T GROVE, PA. When Writing Mention Florists' Exchange

## ROMANS!

12 to 15 cm.  
\$2.15 per 100; \$20.00 per 1000. SPOT CASH.  
**EDWIN A. SEIDEWITZ,**  
38 W. LEXINGTON ST., BALTIMORE, MD.  
When Writing Mention Florists' Exchange

## HEADQUARTERS FOR

French, Dutch, Chinese, Bermuda, Japanese, German and California Bulbs.  
**CALLAS** 14-16 inch, \$4.50 per 100; 14-15 inch, \$3.00 per 100; 2-2 1/2 inch, \$10.00 per 100.  
Fresias: Cyclamen, New Crop Mushroom Swartz. Send for Special List.  
**H. B. FAUST & CO., 43 & 46 N. Front St., Philadelphia, Pa.**  
When Writing Mention Florists' Exchange

## VALVEYS!

True Berlin and Hamburg Pips. All quality, and very evenly assorted, at import prices, in case lots only  
**J. L. SCHILLER, Rutherford, N. J.**  
Sole Agent for F. C. Pomrencke, Hamburg.  
When Writing Mention Florists' Exchange

## BUY FROM THE GROWERS DIRECT

ALL BULBS AND PLANTS  
For Summer and Fall Delivery, Quoted at Very Low Rates.  
FREE ON BOARD CARS OR BOATS  
NEW YORK CITY.  
**HULSEBOSCH BROS., Englewood, N. J.**

## COSMOS

GIANT FLOWERED, EARLY BLOOMING.  
Six splendid varieties, separate, \$1.00 per ounce mixed, 75 cts. per ounce.  
New California lace, grand, (faint) flowered California varieties, \$1.00 per ounce. Special prices on quantity.  
Apple Grandiflora, Texas 1 1/2 per 1000 seeds; \$1.50 per 10000 seeds.  
Seaforthii, Alfreddian, Havana, 75 cts. per ounce.  
Saxifraga Elegans, after October 1st, 40 cts. per 100; \$3.00 per 1000 seeds.  
Callas Lily Bulbs. Prices on application. Send for Trade List of Novelties, Stocks, Plants, Buds and Cuttings.  
**MRS. THEODOSIA B. SHEPHERD**  
Ventura-by-the-Sea, Cal.

## LILIAM LONGIFLORUM

Of our own importation from Japan, we offer the following surplus stock.  
Size, 5-7 in., \$8.75 per box of 500  
" 6-8 " 11.25 " " 400  
" 7-9 " 12.00 " " 350

Orders only taken for whole boxes.  
CASH WITH ORDER.

**A. SCHULTHEIS, College Point, N. Y.**  
When Writing Mention Florists' Exchange

## ZIRNGIEBEL'S STANDARD FANCSIES

GIANT MARKET and GIANT FANCY. SEED in trade pkts., at \$1 each.  
Also plants of the above for sale.

**DENYS ZIRNGIEBEL, Needham, Mass.**  
When Writing Mention Florists' Exchange



WHOLESALE PRICELIST for Florists and Market Gardeners.  
When Writing Mention Florists' Exchange  
**W. & D'S. SURE MUSHROOM SPAWN**  
Special quotations to large buyers.  
ALL KINDS OF BULBS, Lilium Harrisii, Freesia, Roman Hyacinths, Narcissus, etc., etc.

Send Merchants and Growers.  
**WEBBER & DON, 114 Chambers St., NEW YORK CITY.**  
When Writing Mention Florists' Exchange

## =BULBS=

**GHAS. H. ALLEN, Floral Park, N. Y.**  
When Writing Mention Florists' Exchange

## ASPARAGUS ROOTS FOR FORCING.

Have a large stock of Asparagus Roots, 3 and 4 years strong, selected large enough for forcing in greenhouses, Conservatories, Halls, and Palm-trees. Orders for stock now for  
**XMAS HOLLY,** December shipment. Prices of the above on application. State quantity desired.

**ALEXANDER PULLEN, Milford, Del.**  
When Writing Mention Florists' Exchange

## PALM SEED.

FRESH ON HAND  
Per 100 1000  
Kentia Belmoreana, . . . \$1.25 \$12.50  
Fosteriana, . . . 1.25 \$12.50  
Pardalipha Ulii, . . . 1.50 \$15.00  
Above prices are for selected seeds only of highest germinating power.

**J. L. SCHILLER, Rutherford, N. J.**  
When Writing Mention Florists' Exchange  
A Patent Factor.  
THE FLORISTS' EXCHANGE is the most potent factor in the floral industry. W. H. DURFEY  
Mattick, L. I., June 8, 1897.



## Government Free Seed Distribution.

The following paper on "The Government Seed Shop" was read before the National Horticultural Convention recently by J. E. Northrup, of Minneapolis, and is reproduced from the *Tri-Weekly*.

Two hundred years ago a brig from the coast of Malaga came driven by stress of weather into the harbor of Charleston, S. C. The captain, who then formed the acquaintance of Lauder Smith, and patented in a sack of rice. This rice, however, caused to be planted in his garden in the city of Charleston.

From this arose one of the great staple crops of the south, which soon amounted to value millions of dollars. Strangely related, doubtless, by such example, countless of the splendid opportunities which the country at that time offered for such an enterprise, in its vast and unknown range of soil and climate, and inspired with a patriotic desire to promote the welfare of his countrymen, Henry L. Ellsworth, the first commissioner of patents, caused the idea of sowing seeds of rare and rare seeds among the farmers of the United States.

Mr. E. did at his own expense from 1836 to 1839, when he asked and secured from Congress an appropriation of \$50,000 for the purpose of collecting and distributing rare and improved varieties of seeds and prosecuting agricultural improvements and sowing agricultural statistics.

From this small beginning, founded in seeds, has arisen the great government seed shop at Washington, the colossal hatching of the day. During the earlier part of its existence it has been very useful for this purpose seem to have been wisely expended.

The reports of the patent commissioners for succeeding years showed the importance that was attached to the sowing of seeds, that had proven of commercial value in other countries, and which were not known in the United States.

In distributing these seeds, great care was exercised that they should be sent only in the hands of experienced agriculturalists, who would give them intelligent attention, and be prepared to report fully as to their merits or demerits.

### WANTED RARE SEEDS.

The patent commissioner's report to Congress showed in detail the varieties which had been patented, and from which they were obtained, the quality of excellence for which they were sent, and the success or failure which attended their planting.

These reports went with expressions showing the keen interest with which these experiments were regarded. Charles Mason, commissioner of patents in 1857, in his report to Congress in the following year: "A prime object has been the introduction and naturalization of new and novel products, the most desirable to the United States. These have been placed in the hands of persons most likely to try and experiment with them, and a large number of the whole number tried, a single one shall prove as eminently successful and profitable to the people as ten others. The trouble and expense attendant upon all these experiments will be richly compensated by the advantage derived from the acquisition of a new commodity or its more value to the country than the acquisition of a new one."

It was in this spirit that the authorities in charge of the purchase generally and Congress itself participated in this work. In 1862 the department of agriculture was established, and the distribution of that act shows the importance with which this seed distribution was regarded.

"Be it enacted by the Senate and House of Representatives of the United States in Congress assembled, that there shall be established at the seat of government of the United States, a department of agriculture, the duties, powers and responsibilities of which shall be to acquire and diffuse among the people of the United States such useful information as may be connected with agriculture, in the most general and comprehensive sense of the term, and to promote the same, and to distribute among the people new and valuable seeds and plants."

It is not long since, before above expressed the distribution of seeds, for in the absence of a law, the department pointed commissioner of agriculture, in a special report to Congress, says:

"I see every day the seeds of plants practically grown into a sort of fungus of licit-

value in itself, and which needs to be removed in order to give vitality to the system." Further in his report he says: "Seeds distributed among the people must be new and valuable; new, in the sense that they must be of a kind that has not been previously sown, and valuable, in the sense that they possess some important quality above those of the ordinary varieties." He also mentions some peculiar property which renders them worthy of being a gift from the nation, and which would not be otherwise.

Following this high conception of the seed which I thought his department in charge, I thought I would try and distribute something less than one-third of the seeds distributed from the time they were sent out the previous year by his predecessor in office. This distribution I have been making for two years, and do not then cultivated in this country. It included seeds of cereals, grasses, hemp, flax, rye, ramie, opium poppy, sugar beets, sorghum, forest and shade trees, and many of the rarer varieties of plants, eschewed medicine and agriculture. The standard was not long maintained. Through the carelessness, incompetence, and finally, the absence of the department soon became the dumping ground for the commonest sorts. Complaints were made that the seeds sent under a "frank" was a cheap and easy way to "fiddle the vanity of a rural agriculturist." I do not know whether he was a farmer or a sailor.

Efforts have been made from time to time by various departments to put an end to this tide of paternalism, and to divert the food into its original channel, but it has become an enormous Government expense.

In his report for 1875 Gen. De Luc, on assuming the duties of commissioner of agriculture, said:

"I found that the distribution of seeds had grown into an evil of serious magnitude, and that many of the seeds sent under a 'frank' were of such kinds in use, and which could be bought in almost any seed store, so to say 'corrocy'."

### REPORTS NOT AVAILABLE.

In urging that all distribution of seeds be made direct by the department and not by the Congressmen, he said: "That of the seeds and plants that have passed through the hands of members of Congress in their capacity as farmers or growers have never been made that was being available by the department as agriculture."

"Notwithstanding the strong language of this report, Congress in the following year appropriated \$100,000 for the purchase of all the seeds, plants, and cuttings purchased by the department should be supplied to the States, and to the delegates in Congress, for distribution among their constituents."

The effects of this decree was that farmers in North Dakota received their full quota of cotton seed, while those in Alabama, Texas, and Michigan got their prize packages.

This unwise and statesmanlike method of distribution, by which the Government, however, for under it many farmers had an opportunity of inspecting seeds they were to receive, and to give their own distributions they had been presented with varieties with which they had been acquainted, and which they had seen and tried on days upon the farm.

Secretary Morton, in his report for 1875, says: "The extravagance and inutility of these distributions are apparent to any person who will investigate the matter, and the expenditure of \$400,000."

"That the distribution is regarded as a waste of public money, and the fact that out of 9,000,000 papers of seeds distributed among 1,800,000 citizens of the United States, only 540 acknowledged their receipt."

Several vigorous efforts have been made to put an end to this kind of demoralizing use of the public funds which has already consumed nearly three millions of dollars. By the character of the present secretary of agriculture is sufficient guarantee that he will not repeat the error of his predecessor in the distribution within proper lines, but the head of the department is not to be blamed for the error under the present act, it is mandatory upon him, to purchase the greatest quantity of seeds possible to obtain for the sum appropriated, and to send as three-fourths the packets for the use of Senators and Representatives.

It is really doubtful if Congressmen themselves are not the cause of this waste, then a source of endless annoyance, trivial correspondence and petty jealousies, but they can do nothing to put an end to it, they have a good many, for if a member of

Congress sends seeds to John Doe and fails to send any to Richard Roe he has made an enemy of Richard. In fact, to look upon a member of Congress who has a collection of seeds to each voter of his own political faith in the district.

It is a fair inference that the word means shall this "Old Man of the Sea" be thrown from our shoulders, and the attention of Congressmen directed to the only force which can accomplish it. Believing that this body of representative men is not only the best representative of the United States, will rise as one man in the effort to crush this monstrous evil, I have written this article, and hope that which I now beg leave to offer for your consideration.

### OFFERED RESOLUTIONS.

**WHEREAS,** Believing the free distribution of seeds, as at present conducted by the United States department of agriculture, is an unlawful and unwarranted departure from the terms of the act under which that department was created, and

And whereas, the distribution of common varieties, can in no wise advance the cause of agriculture, and the useful and beneficial purpose for which the early appropriations for the distribution of agriculture, is a collection of seeds in full sight of practice, and the same have become a burden upon the appropriations no longer exist, as the work is being done by the States, and by the various States, who are best acquainted with the needs and resources of their respective States,

**WHEREAS,** The farmers of America are not members of Congress, and are not entitled to their votes to be influenced by a package of seeds, and

**WHEREAS,** It is an insult to their intelligence and unjustifiable penalty of a law, a gross fraud and a waste of public property, the use of a noble department, which was created to enlighten and instruct, not to purchase, grade and sell.

**RESOLVED,** That it is an unjust discrimination against many merchants through the country, engaged in the selling of seeds, who can not get their goods to market, and are carried on by the United States Government, and that the Government, which is taxed to pay for the knife which is cutting their throats.

**Resolved,** by the Farmers' National Congress, in session at New York, that they earnestly request the president of the United States, our senators, representatives, and delegates in Congress, to cease the purchase of our fellow citizens all over the land, to stop the purchase, re-sale, and distribution of seeds, and to withdraw from the purchase of seeds, and to discontinue the sale of seeds to joint and individual efforts.

**Third,** That the secretary of this Congress, be and is authorized to prepare resolutions to the president of the United States, our senators, representatives, and delegates in Congress, and to procure for it as wide a publication as possible in the press.

## The Cosmos.

"That this plant will adapt itself to its environments is generally understood, that is, when a plant has the whole year in front of it, and it is not quite apt to take it, and frequently it will become perennial in habit. While perennials are generally more hardy, and flourish in climates, will become annuals, this is not generally, but frequently, the case. In the present year, we have seen a number of the Cosmos in Spring, Summer, and Autumn, yet so rapid is the growth of vegetation that our plants have had to be cut down, and the vegetables that require most of our Summer to reach perfection, can be ready to produce in the fall of the year. Four years ago we put out a few plants of *Cosmos* in a protected situation, and to our surprise, they were taken in the Spring. The young plants came up freely in the place, and some were so cut and selected their seeds, and we did not attempt to save them, but let them seed themselves, and came again in the following year. In the case of the *Cosmos* experiment, as we found the birds very fond of them. However, we secured a few plants, and from them saved seeds, which were sown as soon as the soil was in a fit condition to work. They came up in the Spring, and were first seen the last week in July. At the present writing, September 10, the plants are six feet high, and some of them are white and crimson varieties. Besides that, they are seeding very freely. Our plants were sown in a shallow bed, or shall have sufficient for a number of acres the coming season.

As to the seeds, we secured acquisition, as the plants come into flower fully two months earlier than those from seeds sown in the fall. In the south of Europe, we think if the seeds were sown in the fall, they would be ready to bloom could be had in flower by the first of August, thus extending their period of usefulness very nearly three months.

C. L. ALLEN.

## Experience with Jadoo.

In the early part of 1896 I was the recipient of a new soil (I may not term it) called Jadoo, and from the time that I had the fibrous was a quart of liquid manure, called "Jadoo" Liquid (Jadoo, I have seen it elsewhere, and for my purpose, and accompanying the goods was a request to subject them to a fair test, and to report on their merits. I was skeptical of its usefulness as a medium in which to grow plants, even though it was said to be a fertilizer, and I have noted horticulturists at home and abroad. Having the appearance of fibrous matter, resembling that of palm fronds, ferns, and pandanus in it, and carefully washed developments, in a few weeks the plants had become established, by their clean vigorous growth, clearly demonstrated its superiority over soil prepared in the usual way for such plants. After the pots were well filled with roots, I applied Jadoo liquid, in the proportions of one part liquid to 48 parts clear water, and these few plants continued to flourish, when under ordinary conditions a shift to a larger pot would be imperative. My employer and myself were much interested in the results of this new introduction, and the result of our conviction was the placing of an order for a quantity of Jadoo liquid, and a hogshead of Jadoo liquid, and from that day we began to use it in earnest.

Some growers assert that it is unnecessary to use a compost of peat, loam, and manure, and to use the soil of palms and ferns that I know to-day say such a compost is necessary. But since the introduction of the use of Jadoo, I have abandoned peat and sand so costly and use the fibrous almost exclusively. My plants, when sown, are given the preparation, being always ready for use, it retains moisture for a much longer period than any other soil, and as a natural sequence the top growth is better, larger leaves of strong color, and a more robust growth, and a greater resistance to insects; it does not retain so wet a soil, and it is equally admirably adapted for decorative plants of every description. They keep moist and healthy longer, and are more resistant to a high temperature by steam or hot air, whereas those grown in soil for the production of the same, have to be constantly watered, and are unprofitable for decorating. Such is the experience of those who have used Jadoo with plants. I have used "Jadoo" very successfully for hanging baskets and for the decoration of balconies, windows and porches. It retains the moisture for a long time in situations exposed to the direct rays of the sun.

I use it entirely for germinating seeds of every kind grown in a greenhouse. The production of the same are never caked, and the most delicate seeds can push their way through it, besides, it retains so wet a soil, and it is equally admirably adapted for every kind whatsoever.

I have not yet commenced to grow over-cold, but when the time comes for us to do it, Jadoo fibre will be my choice for the production of the same. Through out the past Winter and Spring I use Jadoo for my hydrocetes, begonias, and other plants, and especially gladioli, crotons, geraniums, melissas, ficus, pandanus, lilies, roses, carnations, and other plants. I have usually grown by the commercial sort, and I have produced, and they have been uniformly superior to those grown in soil.

Our hydrocetes were especially fine at Easter; to them I applied Jadoo liquid in the proportions of one part to 48 parts until they began to assume color, and the result that the flower heads were of a deep purple color, and they were all. My method of application is as follows: I have a tank in each house; I fill it with water, and I pump the water through the Kiley pump at the rate of 16 to 1, maintaining the correct proportion of the water to the Jadoo, and efficient and safe liquid manure, which will give equally good results when applied.

In using Jadoo fibre care should be taken to use smaller pots than you would use if you were to use soil, and if the spongy nature it requires to be packed firmly around the roots, of the plants, for I find it the easiest thing in the world to give it too much water.

JAMES S. REED.

**SENSIBLE ADVERTISING PAYS.**  
If you does not pay you, consult us. Perhaps we can help you.

**ADVERTISING IN THE FLORISTS' EXCHANGE PAYS.**

**Minneapolis, N. Y.**

At the Fair held here this week, the display of William L. Swau of the Scawaha greenhouse, Oyster Bay, was the center of attraction in the floral department. His magnificent exhibit of palms, some of the specimens of *Areca lutescens* spreading to a height of ten feet, excited the center stand of the building. Some fine specimens of araucaricus attracted considerable attention. Mr. Swau's collection, which consisted of over 200 pots and baskets, contained some fine specimens of ferns. P. Seudler of Glen Cove had a large display of palms, ferns, and greenhouse plants. John Lewis Childs of Floral Park, the finest display of gladioli ever seen here, and a large display of miscellaneous cut flowers. G. Rogers of Hempstead, a large assortment of greenhouse plants, geraniums, begonias and coleus. Ferd Boulton of Sea Cliff, some handsome floral designs, roses, carnations, and palms. Oasis Nursery Company of Westbury exhibited carnans, becaeos, and shrubs.

**Pittsburgh.**

Superintendent William Falconer of Schenley Park, is endeavoring to create a popular interest in the knowledge of cultivation of flowers. He has arranged and view- ing he has begun to give exhibitions, accompanied by talks on flowers, at each of the meetings of the Western Pennsylvania Botanical Society. The meetings are held in Science Hall of the Carnegie Institute, at the University of Pittsburgh at 8 P. M. At the last meeting a general exhibition of flowers in bloom was given, and especial attention paid to tropical water lilies and ornamental fruit shrubs. Friends in Philadelphia and Rochester, N. Y., sent material for the meeting. There is no charge, and anyone interested in gardens or flowers is invited.

**Trade Improves.**  
From all appearances trade in cut flowers has brightened here in the past few weeks, and it looks as if this condition would continue, as a good many orders for weddings have been received lately by the florists. Condition of stock is nothing to brag about. Carnations are very scarce, particularly pink ones, and roses are of inferior quality. Asters are fair, but not up to other seasons.

There has been a revival of trade in wedding orders, having had three the past week; at one of them he used a great quantity of Asparagus plumosus which made a very pretty decoration and was much admired. This grand vine in its native place is one of the varieties for all kinds of work, being supplied by F. Burk in large quantities. Mr. Raden has a large house devoted to its culture, giving strings of 10 and 15 feet in length.

**Notes.**  
No quorum at the last Club meeting, the weather being too warm.  
A letter from John Hoggan from London where he is spending a few weeks at the close of his European tour, states that he will be home in a few days. Mr. Raden has purchased a large lot of stock and intends to put up a few houses yet this Fall. He has a large charge of the New York land's place again, his old home it seems. A week's hot spell just about the time the plants are getting in blossom, is not what the growers like. The heat and the dry weather have caused the trees to shed their leaves and trees to be cut down usually; many trees in the parks are almost entirely divested of their foliage.  
E. C. RANDEMAN.

**The Pitcher & Manda Sale.**

The Reeder's sale of the entire stock of Pitcher & Manda, Inc., takes place at Short Hills, N. J., on Monday, Tuesday, Wednesday, and Thursday, October 4-7 (inclusive). The catalogue of the sale contains 125 illustrations of plants from the real estate. The stock which is in splendid condition embraces over 100,000 palms, the grand collection of foliage plants for which this firm was noted; an excellent stock of Adiantum Farleyense, cannas, palms, anemones which are some rare and valuable pieces, nursery stock; besides implements, office furniture, books, etc. This is probably the largest sale of horticultural products that has ever occurred in the United States. Cleary & Co., 60 West street, New York, will be the auctioneers.

Short Hills has for years been renowned for Adiantum Farleyense, and the stock that is now offered for public auction is no exception to that which in previous years has been sold in this town. The stock at the present time consists of 10,344 plants and nearly all of these are in decorative sizes that can be immediately put into use, no less than 5,323 pieces being in five and six-inch pots. Other ferns are in good condition and are offered in quantities. Adiantum cuneatum also is represented by 12,975 plants in three-inch pots, besides larger sizes.

Stove and greenhouse plants formerly were a great feature, but of late years the stock of these has been decreased, nevertheless the ones remaining a fine collection is evidenced by the fact that 310 distinct lots are offered. It may be well to here point out that there is an increased demand for these class plants, largely for the reason that so many people have dropped them. Five to ten years ago have been in the collection of drainage plants, but these are now a thing of the past. Willow, which has only been in this country four years, also D. Sanderaiana and other plants of the same kind are available, besides many decorative kinds of plants.

Among greenhouse plants there are many fine specimens. A quantity of 362 seedlings demand more than a passing notice. This stock is in various sizes from the comparative new yellow cells. R. Elliottiana and R. Pentlandii. These have originated from the parent stock of the latter stock, which originally cost \$15 to \$26 each bulb.  
During the last few years of the year the cultivation of palms from seed and in this way the Exchange has succeeded in producing a noble lot of clean, free, handsome plants such as will now grow in the Exchange pens, and which are sold into money quickly, being in the right condition to do so. These being over 100,000 plants, and the number of visitors to participate, and a house of Livingston rotundifolia is a pleasant memory.

**An Agricultural Congress.**

A Congress of Agricultural Industries will be held in Omaha, Neb., next year. The Executive Committee, composed of representative delegates from all State Boards of Agriculture, Agricultural Colleges and Experiment Stations, dairymen's associations, live stock breeders' societies, and other organizations related to the Exhibition, will convene in session for from two to four weeks, during which time the American Association of Agricultural Colleges and Experiment Stations, National Nurserymen's Convention, the Dairyman's National Association, and number of other national and state agricultural, horticultural, and pomological associations also will hold their sessions. The program of the Exhibition, Secretary Wilson, of the Department of Agriculture, has assured the managers of his cordial co-operation.

**NEW SINGLE VIOLET PRINCESS OF WALES**

The best single violet in cultivation, strong field clumps, \$5.00 per 100.

**CANNAS** Chas. Henderson and Paul Marquant ..... \$1.50 per 100  
Flamingo, dormant roots..... \$1.00 per 100  
**CARNATIONS** Perita and Lizzie McGowan, strong field plants, \$5.00 per 100.  
**ROBT. SCOTT & SON**, 19th and Catharine Streets, Philadelphia, Pa.  
When Writing Mention Florists' Exchange

**FARQUHAR VIOLETS**  
Large field plants, strong and healthy, 75¢ per 100. Cash with order. \$1.00 and 1000 in pots, at \$3.00, 1001; \$25 a 1000. Cash with order.  
THOMAS F. O'BRIEN, Folsom St., Redlands, Mass.  
When Writing Mention Florists' Exchange

**VIOLETS! VIOLETS!!**  
MARIE LOUISE, Fine pot, clean and healthy in every particular, \$5.00 per 100; \$50.00 per 1000. Sample plant, 10c. Cash with order.  
WM. J. CHINICK, Trenton, N. J.  
When Writing Mention Florists' Exchange

**FIELD-GROWN Marie Louise and California Violet Plants**  
For Sale, \$6.00 per 100, or \$50.00 per 1000.  
WM. CLARK, Park St., Colorado Springs, Colo.  
When Writing Mention Florists' Exchange

**7000 MARIE LOUISE VIOLETS**  
Fine field-grown plants, free from disease, \$2.00 per 100. Price of later classes, \$1.00 per 100. Cash with order. No return on application. Clumps, 10 cents.  
FREDK. A. TAYLOR, Canastota, N. Y.  
When Writing Mention Florists' Exchange

**VIOLETS.**  
Marie Louise, Czar and Swanley Violets, healthy, field-grown plants, 42¢ per 100. Cash with order. Swanley White, 25¢ size, 25¢ per 1000; 53¢ per 1000. Cash with order.  
E. McALL, - Anchorage Jefferson Co, Ky.  
When Writing Mention Florists' Exchange

**VIOLETS MY SPECIALTY!**  
Carnations, extra clumps from field, \$5.00 per 1000. Special price for large quantity. Other varieties all sold for 1¢.

**LILACS.**  
Charles X and Marie Laura, 3 years, grafted, good forcing plants, delivered to your door, 45¢ per 100; \$4.00 per 1000.  
FRED. BOULTON, Sea Cliff, L. I., N. Y.  
When Writing Mention Florists' Exchange

**Marie Louise Violet Plants**  
\$3 per 100, clean healthy plants.  
Samples 10c. Cash with order.  
C. F. BAHRET, Poughkeepsie, N. Y.  
When Writing Mention Florists' Exchange

**MARIE LOUISE VIOLETS AND CARNATIONS**.....  
Field-grown, 4.00 and \$5.00.  
FLORIDA HOT WATER BOILER  
No. 1 for sale cheap.  
L. E. MARQUESE, Syracuse, N. Y.  
When Writing Mention Florists' Exchange

**VIOLETS FOR BENCHING NOW.**  
M. Louise, Campbell and Swanley, three strong 2 1/2 in. Price, \$3.00 per 100; also 1000 strong field clumps of California and Campbell for Fall planting; ask for prices.  
**SMILAX**, 2 1/2 inch, fine, \$2.50 per 100.  
BENI. CONNELL, FLORIST, West Grove, Pa.  
When Writing Mention Florists' Exchange

**VIOLETS FOR BENCHING NOW.**  
M. Louise, Campbell and Swanley, three strong 2 1/2 in. Price, \$3.00 per 100; also 1000 strong field clumps of California and Campbell for Fall planting; ask for prices.  
**SMILAX**, 2 1/2 inch, fine, \$2.50 per 100.  
BENI. CONNELL, FLORIST, West Grove, Pa.  
When Writing Mention Florists' Exchange

**FIELD-GROWN MARIE LOUISE VIOLETS**  
Free from Disease.  
\$4.00 per 100, \$40.00 per 1000.  
J. A. MILLS, Port Chester, N. Y.  
When Writing Mention Florists' Exchange

**10,000 M. LOUISE VIOLETS.**  
Large, healthy, field-grown clumps, \$4.00 per 100, \$40.00 per 1000.  
**10,000 CARNATIONS** Nice bushy plants of the following kinds, Scott, E. Pearson, Tidal, Wars, McGowan, Alaska, Meteor, Silver Spray, \$5.00 per 100.  
GEO. H. BENEDECIT, Yorkville, N. Y.  
When Writing Mention Florists' Exchange

**15,000 MARIE LOUISE**  
Field-Grown Plants, \$5.00 per 100; \$40.00 per 1000.  
Fine California, \$4.00 per 100; \$30.00 per 1000.  
EDW. J. TAYLOR, Southport, Conn.  
When Writing Mention Florists' Exchange

**Marie Louise Violets**  
Healthy field-grown plants \$4.00 per 100. Cash with order.  
CHAS. L. DOLE, LOCKPORT, N. Y.  
When Writing Mention Florists' Exchange

**Marie Louise Violets**  
8000 strong healthy plants, no disease. No. 1, \$4.00 per 100; \$35.00 per 1000. No. 2, \$3.00 per 100; \$25.00 per 1000. All at 1000 rates. Cash with order.  
J. C. CREMS, Oneida, N. Y.  
Successor to S. H. Day.  
When Writing Mention Florists' Exchange

**VIOLETS! SMILAX!!**  
Buy or send healthy stock and make money.  
Violeta, Marie Louise, field-grown, large and small, \$4.00 per 100; \$35.00 per 1000. Second lot, \$3.00 per 100; \$25.00 per 1000.  
The plants for sale are strong and clean. Also \$1.25 per 100; \$10.00 per 1000. Cash or good references on order. Plants shipped by mail 10 cents. Violeta special price on large lots.  
R. KILBOURN, Clinton, New York.  
When Writing Mention Florists' Exchange

**VIOLETS.**  
Luscious..... \$5.00 per 100; \$5.00 per 1000  
Violeta..... 8.00 ..... 80.00  
Farquhar..... 8.00 ..... 80.00  
No. 3 extra..... 6.00 ..... 60.00  
Large field-grown clumps, grown on selected stock  
and C. F. SCHMIDT & CO., Bristol, Pa.  
When Writing Mention Florists' Exchange

**FIELD-GROWN GOOD STOCK. CAMPBELL VIOLETS and CARNATIONS**  
Bismardo, Louis and Lois Hattell, \$4.00 per 100; Helen Keller, second size, \$3.00 per 100. VIOLET CLUMPS, \$5.00 per 100. California and Campbell.  
E. J. ALYSSIM, fine 3 inch bunch, \$3.00 per 100.  
G. E. CLOUD, (L. B. 32) Avondale, Pa.  
When Writing Mention Florists' Exchange

**VIOLETS**  
3000 extra strong Marie Louise, 4 inch pots, \$6.00 per 100; \$50.00 per 1000. 3000 extra strong Farquhar, 3 1/2 inch pots, \$5.00 per 100; \$40.00 per 1000.  
CARNATIONS  
Large extra strong, from open ground; price and variety  
1010 HYDRANGE OTAKA, 3 in. pots, at \$5 and 10, 1010 HIE POINSETTA, 2 1/2 in. pots, at \$5.00 per doz.; 4 1/2 in. pots, \$8.00 per doz.  
Cash with order only.  
JOS. R. FREEMAN, 612 1/2 WASH'N, D. C.  
When Writing Mention Florists' Exchange

## CORRESPONDENCE.

*Insertion will be given to this column to all communications free from animus, but the opinions expressed do not necessarily reflect our own.*

## Winter Blooming Nymphaeas.

## Editor Florists' Exchange:

Mr. Tricker's perfectly satisfied that he has disproved the statement of the Haester Brothers respecting the winter blooming of nymphaeas. He wants it to be thought they are not an unusual winter blooming plant there to it. All that we have to go by is the statement of the editor of the *Gardener's Chronicle* and of these winter blooming nymphaeas growers against that of Mr. Deer's representative. Why we should credit the statement of the one in preference to the others, Mr. Tricker has not made clear. Probably the figures of the Haester Brothers are a trifle rosy; but I am also a little inclined to think the information which Mr. Tricker has gathered respecting the Haester establishment smacks suspiciously of having been gleaned while looking out of the window of a florist's shop. He tells him "no water lilies in bloom," and triumphantly reports their seedlings to "not so good as our own," and he reaches that conclusion when he had no means of making a comparison.

Once Mr. Tricker, I think, had no communication with the Haester Brothers, nor have I seen any of their figures beyond what Mr. Tricker takes pains to furnish, but I am not afraid to trust in the summer of 1891, as furnished by the gardening journal above mentioned.

Mr. Tricker, since he started in with the idea of setting me right in this matter, has changed his ground so often that I can exactly follow him. He stands at the present time. In last week's issue he trusts some of the progressive growers will do us the honor to come and be contending for that, "do some experimenting and give the fraternity the results of their experiments." A short time ago one of the principal reasons Mr. Tricker advanced against the winter cultivation of nymphaeas was the natural inclination of the flowers to close up just when the florist would want them to stay open, and now that he has or can get a remedy to compel them to remain open, he will have none of it. He says that by moneysing in this mystical manner with the "blooms" the natural flower is robbed of one of its true characteristics, that is, I suppose, toppling over when it wants to, "and it would be nothing more than an artificial flower." It is refreshing to get so much plain sense in one breath. Should there be any potency in this new preparation, it is welling to get it. G. W. OLIVER.

## Selections of Sweet Peas.

## Editor Florists' Exchange.

Noticing Mr. Hamilton's letter concerning the Hamilton County Horticultural Society's list of sweet peas, I called the attention of the committee to your article, asking them to give us a reply as early as possible. This committee was appointed to select a list of sweet peas suited to the amateur grower. The average buyer of seeds is as much at a loss to who he wants to buy as is the seedsmen's list as before; the varieties all appear good and desirable, yet he does not want them. He reads the list which he don't know. For his benefit this committee was chosen (men of much experience and their report could be generally follows.

W. F. GALE.

Nothing correspondence by Mr. Hamilton in our issue of 11th inst. in regard to selections of sweet peas, we take pleasure in replying to his inquiry. The first place the Hamilton County Horticultural Society appointed a committee to make a selection of the best 12, 24, and 36 varieties of sweet peas for general culture; that is, for ordinary home

garden culture, the object being to select for people to grow who are not matters of not familiar with the shades of the multitude of varieties, 12, 24, or 36 varieties which would give the representative shades. A committee was appointed, consisting of three practical growers, all thoroughly well posted on varieties and familiar with general sweet pea culture. The choice of the first 12 varieties published in your issue of the 11th inst. We note that exceptions are taken to *Pink Fire*, *Her Majesty*, *Venus*, and *Blanche Ferry*. Our reason for rejecting *Mars in Flight* of *Pink Fire* was its great tendency to burn in our locality. *Her Majesty* was selected particularly for its brilliant rose shade and its profuse blooming. *Venus*, *Blanche Ferry*, and *Blanche Ferry* are complicated for shade in any of the sweet peas named later by him, and which is a very popular selection in our locality.

We respectfully urge upon Mr. Hamilton the fact that we were not selecting for expert growers, but were selecting for

who are not as thoroughly posted on sweet peas as himself or associates, and we also suggest that the difference in locality and climate may have some trilling bearing upon our selections. For our own part we must insist upon holding to our original selection, and trust our reason will be sufficiently satisfactory to all growers. O. H. DECKER, chairman; D. ROMSON, W. J. ELDRED, committee.

## The National Charter.

## Editor Florists' Exchange.

As an original member of the S. A. F., one of the few that paid (voluntarily) double price, in order to get the show started, I have watched its doings with considerable interest.

Now the question comes up. Shall we have a national charter? If so, what shall the title be? It seems our rulers think S. A. F. is "a huckebery below

But why a national charter for the Society as now organized? What object could be gained, what purpose accomplished, or what use whatever. To re-constitute the Society on a new basis, institution, no matter what its name might be, or the impetus of its organization, would be necessary. Its character; it must be catholic in the broadest sense of the word. Its members must be representative men, such as would honor any position they might be called upon to fill. The motto should be "craft what our national representatives are to the people."

But why have a national society, one that would be an honor to our country, respected at home and abroad. Such a society would be a credit to our nation, which, in its way is all right and highly useful. Man is a social being and must meet his fellow-men on terms of social as well as human equality; he must have pleasures mingled with duties. Whatever his pleasure may be, he is born with a desire to be on top, without this feeling there would be no personal ambition or progress. He needs some stimulus to carry him onward and upward. Every man must have an ambition to excel in his calling; the rose grower to produce the best roses, the carnation grower the best carnations, and the fruit grower the best fruit.

Society is made up of links, or steps, one above the other, and all men are striving to reach the highest step. There is no exception to the rule, only that it is a disjoined, ungraded mass of honorable men and noble women. Like a public school, it needs grading. We clipped the following from one of your correspondents, some months or years ago, which expresses our ideas fully and clearly.

There are degrees in everything, that pertains to life and to government. There is the high and low in every walk, the amplitude and the bottom, trying to reach the top round of the ladder, and he can only reach it by slow degrees. But his ambition need not be to make an attempt is just what progress feeds upon. From the first year's existence of the S. A. F., we have seen that a national organization was necessary to a healthful and progressive as well as useful society. It is a mistake, indeed, to think of a society that belongs to local clubs or auxiliary societies.

The first link in the chain should be the local club where good fellowship, which is a conspicuous feature in the Florist's character, can have free play. A state, or district society, composed of such members as the subordinate society may elect, should be organized. Here business, not banqueting, should be in order. Members should be elected to serve for three years, one-third of the number to be elected annually.

The national society should be made up of representatives from the state societies, and to serve for five or more years. This society would very naturally be composed of the most intelligent and honorable men in the trade. Before that society all new plants and appliances should come on for their approval or disapproval. A certificate from such a body of men would carry weight, and the plant that had been awarded a certificate, would have a value because of that certificate, given by men acknowledged its authoritativeness and character. X.

## A New Strain of Comet Asters.

Our illustration is reproduced from a photograph that had been favored by a Gifford, who writes us on the subject as follows:

"I have raised a new strain of Comet aster; the plants are a mass of bloom when at their best, as many as 30 to 40 flowers grow on a one plant. The flowers are comparatively long-stemmed and measure from 4 to 5½ inches in diameter. The petals are of a light blue; their base, as being those of a chrysanthemum instead of an aster. I think it is a desirable new departure in this beautiful flower."

75 Cents

Must be Fresh, Not Dried Up.

per 100 lbs.

Buy the Best Always.

BALES WEIGH

450 lbs. each.

H. A. SPOOTHOF, 315 Madison Ave., N. Y. City.

## Giant White Comet Aster.

the best variety of shades in twelve colors and those most readily grown to perfection. It seems difficult to realize that Mr. Hamilton and other expert associates have disapproved *Blanche Ferry* as being too far behind the times. We sincerely regret that this is the case, and must insist that she be placed very near the head of our list, bearing in mind that we are not prescribing a set of leaders for expert growers, but for the ordinary growing qualities in this section. *Ramona*, although a beautiful pea and of fine form, turns blue and is not sufficient to warrant its place in the first twelve. Brilliant, a very fine pea on the vine, turns blue and would not come within the circle of popular shades. *Little Doris* we find is very shy of blooming, and we can easily put up with *Blanche Ferry* in its place.

We trust Mr. Hamilton will take into consideration the fact that we are catering to a large percentage of the public their persimmon," that they must have a more noble title for their recognition, and to win the coveted prize, the S. A. F. has added O. H. (Ornamental Horticulturist). What a title! What does it mean? Is there anything in horticulture that is not ornamental? If so we have failed to see it. Is not the home garden, the well furnished garden, all desired vegetables and fruits, and well tended, in the direct line of ornamental horticulture, yet the aesthetic element in the S. A. F. cannot recognize the vegetable gardener, even though he cultivates flowers as well as an ornamental horticulturist. We think the man that is proud of his little plot, in which may be found a few flowers, much better entitled to the name of ornamental horticulturist, than a few of the flowers he loved in his mother's garden. We are not to be understood as ornamental horticulturist, but the love we bear for it is not the seller of flowers, fruits or vegetables, but the lover of them that is the horticulturist. To be a horticulturist, a man must needs both understand the principles of horticulture and practice them. If the name is to be significant, why not add to the five letters on the head, W. J. G. F.—"we are jolly good fellows."

QUESTIONS BOX.

OPEN TO ALL FREE TO ALL. Answers Solicited From Those Who Know.

(111) Richardia Pentlandii may be... rather narrow unspotted leaves, dark reddish-brown leaf stalks, and pure, rich red flowers...

(112) Starting Palm Seeds.—Now that we have the fall plant sale...

We beg to reprint the answer given to a similar question which appeared on page 139, volume VII, of the GOSSET EXCHANGE.

—The season of the year will make but little difference in the result of this operation, providing the seeds are fresh and in good condition...

—The greater portion of the Kentia seeds in the market are from the Spring and Summer months, and it is best to sow them as soon as possible...

For small quantities the best method is to use six-inch pots, placing some drainage material in the bottom of the pots...

—The pots should then be placed either in propagating frames or in a house in which the temperature of 70 degrees can be maintained...

No special care is needed as to the position of the seeds, provided that they are not buried too deeply...

In large establishments these seeds are frequently sown broadcast on a shallow bed of propagating house in which some two or three inches of suitable soil has been placed...

(113) Mice in Violet Beds.—N. L. See page 146 of the present volume for a remedy for mice.

(114) Carrying Hydrangea Plants through the Winter.—Is a glass-covered propagating house in which some two or three inches of suitable soil has been placed...

(115) Disinfecting.—Hydrocyanic acid gas—I have prepared a new violet house 15x21 feet, 3 foot sides, 8 feet 2 inches to ridge, 2 foot walks 21

in, center walk 2 ft. wide. We have some of that black fly, and would like to use the same method for the winter...

—The house contains 13,560.4 cubic feet of space, and the following amounts of material are required...

(116) To Obtain Wood For Propagating H. P. Roses.—Can I dig-grow, or grow in a pot, and place in a cold pit for a month or two...

—Yes, this is the proper treatment and applies to all species...

—The best method of tempering the water is to pass the water through a small heating coil...

Rooted Cuttings of the New Geranium Mme. BRUANT Ready Now.

I am able to furnish this wonderful and distinct variety now by the hundred and thousand...

PEARLGRANUMS Victor, and other good varieties now ready.

Alamanda Henderson, 2 in., \$2.50 pr. doz. Saginawta Emiliae, 2 in., \$2.50 pr. doz.

ITS A DAY.

The size and style of a Cosmos, constant bloomer, and invaluable for winter cut-flower...

ARE THE BEST.

PERFRONS... CARNATIONS

3000 TRIUMPH, the best pink in variety I ever grow, at \$7.50 per 100.

making it as fine as possible, and level off the surface evenly. Trenches should be four or five inches apart...

I have tried every conceivable way to successfully root hard wood rose cuttings...

(118) Tempering Water for Carnations—I would like to hear through the Exchange of some way of taking the chill off the water...

—The best method of tempering the syringing water in this case would be to pass the water through a small heating coil...

Rooted Cuttings of the New Geranium Mme. BRUANT Ready Now.

I am able to furnish this wonderful and distinct variety now by the hundred and thousand...

PEARLGRANUMS Victor, and other good varieties now ready.

Alamanda Henderson, 2 in., \$2.50 pr. doz. Saginawta Emiliae, 2 in., \$2.50 pr. doz.

ITS A DAY.

The size and style of a Cosmos, constant bloomer, and invaluable for winter cut-flower...

ARE THE BEST.

PERFRONS... CARNATIONS

3000 TRIUMPH, the best pink in variety I ever grow, at \$7.50 per 100.

MUSHROOM SPAW

Fresh stock just arrived, \$7.50 per 100 lbs. PANSY 174 A. N. S. Fine strain, 60 cts. per 100, \$4.00 per doz.

PANSIES

Strong plants from Engle's select strain, now ready for sale at \$4.00 per 100.

Pansies Worth Raising.

STRONG PANSIES, ready now, \$4.00 per 1000, P. O. B. express here. SEED as usual.

CASH WITH ORDER.

G. Soltan & Co. 156 Grand Jersey City, N. J. When Writing Mention Florists' Exchange

PAISES!

ROEMER'S SUPERB PAIZE PANSIES.

This strain includes all the leading novelties, strong but early, \$4.00 per 1000.

PETER BROWN - Lancaster, Pa.

When Writing Mention Florists' Exchange

...900,000...

Now ready, transplanted from up-to-date colors and sizes, 75c per 100 by express, \$4.00 per 1000 by express, not paid.

North Carolina strain of Pansies is the finest strain in one mixture.

THE MORRIS FLORAL CO., Morris, Ill.

When Writing Mention Florists' Exchange

SEED PAISES!

Of finest American grown Pansies now ready; they are of the leading strain in the market...

The following letter is but one of many received every day:

MR. E. B. JENNINGS, Buffalo, N. Y., June 28th, 1937. I have just received your Pansies...

Finest mixed, per 100 by mail, postpaid, 75c; per 1000, by express, \$4.00; \$5.00 per 1000, State of N. Y. order, \$4.00 per 1000.

CARNATIONS.

Finest stock of leading kinds at \$5.00 per 100. Cash with order.

E. B. JENNINGS, Southport, Conn. GROWER OF THE FINEST PANSIES.

When Writing Mention Florists' Exchange

SMILAX,

at \$1.25 per 100; \$10.00 per 1000. Cash with order.

M. G. Stovall, 5 cts. each, Florida, 7 cts. each, Fine Florida, 8 cts. each, Abundance, 9 cts. each, Armadilly, 2 1/2 cts. each.





BOURNVILLEAS!

FACTS. The plants are strong, rapid growers. They are easily handled in all stages of growth. The two varieties offered are very readily propagated. They are not subject to any insect pests. They are free and continuous bloomers for four to six months in the year. The bloom-bracts are very durable on plant or in cut sprays. The color is showy and very attractive. Send for "Facts and Comments."

We offer nice stock of both varieties, from 3 inch pots, 4 to 6 shades of color. ANDERIANA, 15 to 25 inches above pots, 4 to 8 shoots. Price, \$50.00 per 100; 5 plants at 100 rates.

The above plants can be safely shipped by freight to points within a week's shipping distance of Pittsburgh.

We mail a nice branched variety of either variety, from 2 1/2 in. pots, for \$1.00, or 12 for \$2.50. CASH WITH ORDER. THEO. F. BECKER, Glenfield, Pa. NEWELL JONES, 4 1/2 miles below Pittsburg, Pa.

When Writing Mention Florists' Exchange

CYCLAMEN GIGANTEUM, 3 in. pots, 75c per doz., \$6.00 per doz. 100, \$60.00. ... JNO. E. DEWALT, ...

COLEUS FOR PROPAGATION. Midnight, Beck-with's Gem, Climax, Tapestry, Salvador, Alabama, Multi-color, Golden Border, Kingbird, ...

ACHYRANthes, red and green. CUPHAEA, 50 cts. per doz. ...

J. H. ULLMANN, Carlisle, N. J. When Writing Mention Florists' Exchange

1000 CYCLAMEN GIGANTEUM 7

SURPLUS STOCK. Per 1000. Acrelia tuberosa, ...

T. R. WATSON, Plymouth, Mass. When Writing Mention Florists' Exchange

PRINCE OF ORANGE. Per 100. Very fine plants, some in bloom, ...

GEORGE J. HUGHES, Berlin, N. J. When Writing Mention Florists' Exchange

5000 M. Louise Violets, \$4.00. 2000 Geraniums, ...

5000 M. Louise Violets, \$4.00. 2000 Geraniums, ...

When Writing Mention Florists' Exchange

5000 M. Louise Violets, \$4.00. 2000 Geraniums, ...

When Writing Mention Florists' Exchange

5000 M. Louise Violets, \$4.00. 2000 Geraniums, ...

When Writing Mention Florists' Exchange

5000 M. Louise Violets, \$4.00. 2000 Geraniums, ...

When Writing Mention Florists' Exchange

5000 M. Louise Violets, \$4.00. 2000 Geraniums, ...

When Writing Mention Florists' Exchange

MUST BE TOOK TO MAKE ROOM. 500 Fines clematis, 1 to 8 ft. high, fine plants, ...

RUXTON FLORAL & NURSERY CO., Ruxton, Md., Pa. When Writing Mention Florists' Exchange

Smilax, strong, 1 year, none better, \$1.50 and \$2.50 per 100. ...

BECONIA REX. Erdudy, L. Clouston, Thermidore, P. Rothchild, ...

H. DECKER, Florist, Orange, N. J. When Writing Mention Florists' Exchange

Orange and White. 4000. \$4.00 per 100. J. KADLETZ, P. O. Box Dongan Hills, N. Y. When Writing Mention Florists' Exchange

BECONIAS! Thunbergia, extra fine, 2 1/2 inch, ...

When Writing Mention Florists' Exchange

CHRYSANTHEMUM SEGETUM GRANDIFLORUM (Yellow Pina Daisy) Plants in good healthy condition, will give satisfaction, ...

When Writing Mention Florists' Exchange

5000 M. Louise Violets, \$4.00. 2000 Geraniums, ...

When Writing Mention Florists' Exchange

5000 M. Louise Violets, \$4.00. 2000 Geraniums, ...

When Writing Mention Florists' Exchange

5000 M. Louise Violets, \$4.00. 2000 Geraniums, ...

When Writing Mention Florists' Exchange

5000 M. Louise Violets, \$4.00. 2000 Geraniums, ...

When Writing Mention Florists' Exchange

5000 M. Louise Violets, \$4.00. 2000 Geraniums, ...

When Writing Mention Florists' Exchange

5000 M. Louise Violets, \$4.00. 2000 Geraniums, ...

When Writing Mention Florists' Exchange

FLORISTS.

We are having a share of the hot, dry spell which seems to be general over a large portion of the country. Coming as it does, it is not surprising that many of our plants, many may regard it as a positive injury to the successful accomplishment of many of our plants from the hot to winter quarters. We have not found this to be the case, although the weather has been very hot and dry since we commenced housing our stock, which was August 25. During this time we have had no rain, and the temperature has been very bright, while the temperature inside the houses ranged from 90 to 115 degrees, and in the shade from 80 to 90 degrees during the heated portion of the day. This is as warm as we had it in this part of July.

It is a rare occurrence in this neighborhood for the mercury to reach 90 in the shade and receive but very little rain, our plants that have been housed are looking none the worse for having undergone the ordeal of being kept during this hot period; in fact, they are all looking well and doing finely. The advantage of having a dry, moving atmosphere for a few weeks in succession shows plants that are well established in their growth to contend with; on the contrary, the foliage is firm and fresh looking, and in the shade from 80 to 90 degrees during the heated portion of the day. These which were housed during the last week in August and received but very little rain. We will continue to do this until we experience a change of weather, as the weather is now so warm, and it is well established to undergo day after day of hot sunshine without injury. During such weather the moisture soon evaporates, thereby giving disease little chance of developing. The percentage of dead plants among those which have been housed is very small; they will scarcely average 1 per cent. Our stock is now all in, with the exception of a few which are not yet from the rest. The first year seedlings we will leave out as long as it appears safe to do so, and that in many cases in bloom as possible, to prevent planting in worthless rubbish. The dry weather has checked growth considerably, and consequently they are not blooming very rapidly.

The first part of the season out-of-doors was a little too wet to induce the carnation to put forth its best efforts. It was rather favorable to the growth of rust, etc. The latter part, however, has been almost perfect, there being very little opportunity for rust, etc. The plants have an opportunity to offset the effects of the unfavorable weather earlier in the season. Taking all in all, our rust-affected stock has done very well, and has made very little progress. In fact, on varieties which were badly affected when planted, the rust has not had time to decide setback. This is due in large measure to the congenial weather we have been having, and it should be kept in mind that the plants have a point in housing rust-affected plants to keep the atmosphere dry and always fresh and moving. Such is, if possible, and as soon as the plants can do without it discontinue it entirely. Start the germs by spraying with them, as much as possible, the elements necessary for their growth, viz., moisture, stagnant atmosphere, etc. ...

5000 M. Louise Violets, \$4.00. 2000 Geraniums, ...

When Writing Mention Florists' Exchange

5000 M. Louise Violets, \$4.00. 2000 Geraniums, ...

When Writing Mention Florists' Exchange

5000 M. Louise Violets, \$4.00. 2000 Geraniums, ...

When Writing Mention Florists' Exchange

5000 M. Louise Violets, \$4.00. 2000 Geraniums, ...

When Writing Mention Florists' Exchange

5000 M. Louise Violets, \$4.00. 2000 Geraniums, ...

When Writing Mention Florists' Exchange

5000 M. Louise Violets, \$4.00. 2000 Geraniums, ...

When Writing Mention Florists' Exchange

CARNATIONS and CYCLAMEN

CARNATION—First-class field-grown, per cent Scott, Alaska, McGowan, Fortin, China Wave, E. Pierce, \$4 per doz., \$40 per 100. Daybreak, Meteor, Albertin, Brodeur, \$7 per doz., \$70 per 100. CYCLAMEN PERIMUM GIGANTEUM, from 2 1/2 in. pots, \$1.00 per doz., \$10 per 100. J. C. BURROW, Agent, Fishkill, N. Y. When Writing Mention Florists' Exchange

SURPLUS

1000 DAYBREAK, 1000 LIZZIE MCGOWAN. Fine, bushy plants, at \$4.00 per 100. Terms Cash. CHAS. E. SMITH, York, Pa. When Writing Mention Florists' Exchange

H. WEBER & SONS, CARNATIONS, OAKLAND, MD. When Writing Mention Florists' Exchange

Field-Grown Carnations. GOOD STOCK. 3000 Wm. Scott, 3000 Lizzie McGowan. Prices on application. VICTOR S. DORVAL, Woodside, L. I. When Writing Mention Florists' Exchange

Field-GROWN CARNATIONS. Kitty Clover, Louis C. Hestlet, Fortia, Dr. Warder, Nellie Bly, Princess Bonnie, \$4 per 100. Myosotis, 3 inch pots, \$3.00 per 100. Begonia Rex, 15 varieties, \$3.00 per 100. WM. H. SEARCH, Avondale, Chester Co. Pa. When Writing Mention Florists' Exchange

CARNATIONS. Field-grown Scott, McGowan, Fortin and Rose Queen, \$5.00 per doz., \$50.00 per 100. Daybreak, China Wave and Wm. Stuart (red), \$6.00 per 100, \$60.00 per 1000. Geraniums, assorted cuttings of Mrs. Brent, Bob Flower, \$1.00 per doz., \$10.00 per 100. FINE F. WILLIAMS CO., 334 Erie Street, CLEVELAND, O. When Writing Mention Florists' Exchange

FIELD GROWN CARNATIONS. 2000 McGowan, \$5.00 per 100. 5000 John's Scarlet, \$12.00 and \$15.00 per 100. 5000 ROOTED GERANIUMS. Lahn Bros. and Double Grant, \$1.50 per 100. JANN FAVORIS, New Bedford, Mass. When Writing Mention Florists' Exchange

Harrison's White CARNATION. New Carnation, sport from Wm. Scott. JOHN HARRISON, 739 Bergen Ave., Jersey City, N. J. When Writing Mention Florists' Exchange

GALLERT & CO. CARNATION GROWERS. COLMA, SAN MATEO CAL. When Writing Mention Florists' Exchange

FIELD GROWN CARNATIONS and VIOLETS. Ready September 15th. JOSEPH RENARD, Unionville, N. C. When Writing Mention Florists' Exchange

**50,000 FIELD-GROWN CARNATION PLANTS**  
**WM. SCOTT**, \$4.00 per 100.  
 LIZZIE MCGOWAN, 4.00 ..  
 PORTIA, 4.00 ..  
 NANCY HANNA, 3.00 ..  
 Rogers Park Floral Co., 11 Wabash Chicago, Ill.  
 When Writing Mention Florists' Exchange

**FIELD-GROWN CARNATIONS**  
 Good strong healthy plants.  
**50c Daybreak, 40c Scott.**  
 300 Fortin.  
 \$5.00 per hundred. Cash with order.  
**WM. F. KELLER**, Florist, Easton, Pa.  
 When Writing Mention Florists' Exchange

**FIELD-GROWN CARNATIONS.**  
 Strong, healthy plants from field, of the following varieties: Scott, Carlisle, Daybreak, McGowan, Minnie Cook, Alaska.  
 Send at once for prices before stock is exhausted.  
**H. D. ROHRER**, Box 344, Lancaster, Pa.  
 When Writing Mention Florists' Exchange

**MORE LEO CARNATIONS**  
 Field-Grown, at \$1.50 per dozen;  
 \$10.00 per 100.  
**HOPP & LEMKE**,  
 Paul Post Office. EAST GRAND RAPIDS, MICH.  
 When Writing Mention Florists' Exchange

**CARNATIONS**  
 Field-grown Scott and McGowan, \$3.00 per 100.  
 Chrysanthemums, named varieties, all colors.  
 Carnation plants, 2½ in. pots, \$1.50 per 100.  
 Chrysanthemum Dwarf Hybrids, 2 in. and 2½ in. pots, very fine strains, \$2.00 per 100.  
 Violets, Campbell clones from field, \$3.00 per 100.  
 Roses, Bridemaid, 4 in. pots, clean, healthy stock, \$4.00 per 100.  
 English Ivy, large plants from field, \$4.00 per 100. Cash with order.  
**H. T. FLY BER**,  
 Bermain St and Erie, \$900 Wm. N. Y.  
 When Writing Mention Florists' Exchange

**CARNATIONS** Wm. Scott and McGowan, fine plants, from 3 and 4 inch pots, also plants for stock, as follows: Ferns, Mrs. E. G. Hill, White Swan Gen. Grant and Freeland, \$2.50 per 100. The above varieties in 2 and 2½ inch pots, \$1.50 per 100.  
 Begonia, Alice Pich, Free Carnot, and M. De Letzep, fine plants, from 2½ inch pots, \$2.00 per 100.  
 Begonia, from 3 inch pots, 4 cts.  
 Carnot, 3 inch pots, elegant plants for stock, 2 cts.  
 Begonia, from 3 inch pots, 4 cts.  
 Polargium, Herb. Green, 2½ in. \$1.50 per 100.  
 Wm. F. Heston, 1100 Grand St.,  
**FAIRVIEW FLORAL CO., BEATTY, OHIO.**  
 When Writing Mention Florists' Exchange

**SURPLUS STOCK CARNATIONS**  
 2000 Wm. Scott, 1000 Uncle John,  
 At \$5.00 per 100. Fine Plants. No rust.

**4000 FIELD-GROWN ROSES**  
 15 to 19 inches, at 5 cents each.  
 Bride, Bridemaid, La France, K. A. Victoria and White La France.

**JOY & SON**, Nashville, Tenn.  
 When Writing Mention Florists' Exchange

**FIELD-GROWN CARNATIONS**  
 Field-grown plants of this grand White Carnation, at \$10.00 per 100.

**CYCLAMENS.**  
 Magnificent plants, in various sized pots, from the finest English strains. \$8.00, \$10.00 and \$12.00 per 100, according to size.

**E. G. HILL & CO., RICHMOND, IND.**  
 When Writing Mention Florists' Exchange

**FIELD-GROWN CARNATIONS**  
 Good, strong, healthy plants. Write for kinds and prices. Delivery after Sept. 10th.  
**LOGAN AVE. GREENHOUSES**, Danville, Ill.  
 When Writing Mention Florists' Exchange

**FIELD-GROWN CARNATIONS**  
**MAYOR PINGREE**  
 \$10.00 per 100.

**JOHN BREITMEYER & SONS**,  
 DETROIT, MICH.  
 When Writing Mention Florists' Exchange

**FIELD-GROWN CARNATIONS**  
**SCOTT, HECTOR, ALBERTINI, FISHER.**  
 Perfectly Healthy. Write for Prices.

**ELLIOTT & ULAM**, Cheswick, Pa.  
 When Writing Mention Florists' Exchange

**CARNATIONS**  
 Clean, healthy, field-grown stock at \$4.00 per 100; Daybreak, Silver Spray, Rose Queen, Garfield and Portia.

**VIOLETS**  
 Marie Louise and California, strong, healthy well established plants from 4 in. pots, at \$4.00 per 100. Field-grown California, at \$5.00 per 100. Samples mailed on receipt of 10 cts. to cover postage.

**L. L. MAY & CO., St. Paul, Minn.**  
 When Writing Mention Florists' Exchange

**CARNATIONS, FERNS, VIOLETS and SMILAX**  
 Portia, Scott and McGowan, 1st quality, \$5.00 per 100; \$4.00 per 100. 2nd quality, 4.00 per 100; \$3.00 per 100.  
 Daybreak, 1st quality, \$5.00 per 100; 2nd quality, \$4.00 per 100. Seedlings \$1.25 per 100; \$1.00 per 100.  
 Adiantum Cucumetum, 2 in. pots, \$3.00 per 100; \$2.00 per 100. 3 in. pots, \$5.00 per 100; \$3.00 per 100. Seedlings \$1.25 per 100; \$1.00 per 100.  
 Ferns, in assortment, 2 in. pots, \$3.00 per 100.  
 Marie Louise Violets, 3 in. pots, \$3.00 per 100; \$2.50 per 100.  
 Smilax, 2 in. pots, \$1.50 per 100; \$1.00 per 100.  
**THE BOUL FLORAL CO., Ithaca, N. Y.**  
 When Writing Mention Florists' Exchange

**NOW WE HAVE IT. A PERFECT CARNATION SUPPORT**  
 We will send you free if you pay express charges, a sample which will convince you that it is all we claim.  
 The only Carnation Support HIGHELY COMMENDED by the Judges of the S. A. F. Convention, at Providence, R. I., Aug. 16, 1897.

**JAMES HOBAN & SON**,  
 Bridgeport, Conn.  
 When Writing Mention Florists' Exchange

**CARNATIONS**  
**F. DORNER & SONS CO.**,  
 La Fayette, Ind.  
 When Writing Mention Florists' Exchange

**CARNATION STAKE!**  
 THIS STAKE is made of one piece of wire, No. 12, galvanized neatly packed in bunches of 50, for the field or on benches. It is easily worked about more quickly than anything we know of. Sample 100, \$1.50.  
 Write for prices on large quantities.  
 Will exchange for Scott & McGowan plants.  
**MYERS BROS.**,  
 Florists,  
 ALTOONA, Pa.  
 When Writing Mention Florists' Exchange

**BALTIMORE**  
 A NEW PINK CARNATION,  
 FIELD-GROWN. WRITE FOR PRICES.  
**CONRAD HESS.** - Baltimore, Md.  
 329 Friendship Avenue.  
 When Writing Mention Florists' Exchange

**10,000 CARNATIONS**  
 Field-grown, strong, healthy, well-grown plants, Fisher, Scott, Portia, Tidal Wave, Hinde's White, Edmore, May Flower, Silver Spray, Lamson, Detroit, Daybreak, Chester Pride, Helen Keller, Ruth, Thos. Carlisle, Anna Webb, Caesar, Birdmaid, McGowan, Sweetbush and Waterloo, \$5.00 per 100; \$4.50 per 100.  
**VIOLET CLUMPS**—1000 field-grown. No spot. Marie Louise, Stanley White, R. Garrett, California and Lady Campbell, \$4.00 per 100.  
**PINK BEGONIA**—12 varieties, labeled, 2 in. pots, \$3.50 per 100.  
**PESTICIDES**—Mrs. E. G. Hill, White Giant and 25 other desirable sorts, atros plants, 2½ in. pots, \$1.50 per 100.  
**GERANIUMS**—50 varieties, 2½ in. pots, strong, well-grown plants, labeled, \$2.50 per 100; \$2.00 per 100.  
**PALEM LATANIA BOBONICA**—2½ in. pots, \$1.00 per 100.  
**GREVILLEA ROBUSTA**—2 in. pots, \$2.00 per 100.  
**CHRYSANTHEMUMS**—Single stem plants, well-grown, 4 in. pots, \$1.00 per 100.  
**RUBER PLANTS**—Specimen plants, leaves all perfect, heavy set, 6 in. pots, 18 to 24 in. high, \$2.00 per doz. Satisfaction Guaranteed.  
**A. B. DAVIS & SON**,  
 (See Washington, D. C.)  
 When Writing Mention Florists' Exchange

**FIELD - GROWN CARNATIONS** FINE HEALTHY PLANTS.  
 Wm. Scott, Alaska, Tidal Wave, \$5.00 per 100; \$4.00 per 100.  
 Fleus Elastic, 6 in. pots, \$5.00 per doz. Kenias, 8 in. pots, \$15.00 per doz. Latanias, 7 in. pots, \$12.00 per doz. Cyms Revoluta, 6 in. pots, \$5.00 each. Large Kenias, 6 in. high, \$3.00 to \$4.00 each. 4 plants to each pot. Daybreak, 2 in. pots, \$1.50 per 100.  
 Araucaria Excelsa, from \$1.50 to \$6.00 each. Cash with order.  
**H. C. STEINHOFF**, Tel. Cal, 134 Union, 578 Hudson Boulevard, West Hoboken, N. J.  
 When Writing Mention Florists' Exchange

**50,000 FIELD GROWN CARNATIONS**  
 Strong and healthy plants in quantity now ready for delivery, of the following sorts: William Scott, Rose Queen, Tidal Wave, Albertini, Nancy Hanna, Portia, Lizzie Gilbert, Cuspar, Lizzie McGowan, Storm King, White Swan, \$5.00 per 100, \$3.00; No order for less than 100 accepted. Address

**REINBERG BROS.**, Wholesale Cut Flowers, 51 Wabash Ave., Chicago.  
 When Writing Mention Florists' Exchange

**4 ACRES FIELD-GROWN CARNATION PLANTS, 94,000.**

Our Carnations are grown with the greatest care and are first-class plants, free from disease. We pack light by our improved system of packing by which we can save them to all parts of the United States and Canada in perfect condition.  
**CRIMSON SPORT. IVORY. DEAN HOLE. BUTTERCUP.**  
 \$1.25 per doz.; \$8.00 per 100.  
**BRIDESMAID, ALBERTINI, CHESTER PRIDE, DAYBREAK, NICHOLSON, BRIDE OF ERLSCOURT.**  
 \$1.25 per doz.; \$8.00 per 100.  
**SWEETBRIER, SILVER SPRAY, PURITAN, LIZZIE MCGOWAN, PORTIA, WM. SCOTT, MEN. CARNEGIE, MRS. FISHER, ROSALIND, L. L. LAMBORN, GR. MILLER.**  
 \$1.00 per doz.; \$5.00 per 100; \$45.00 per 1000.

**J. L. DILLON, - - BLOOMSBURG, PA.**  
 When Writing Mention Florists' Exchange

**EXCELSIOR CARNATION SUPPORTS**  
 OVER ONE MILLION IN USE.  
 10, 13, 15, 20 inches high, \$5.00 per 1000; \$1.00 per 100.  
**ROSE STAKES**  
 Of Galvanized Steel, 2 ft., \$5.00 per 1000; 3 ft., \$7.00 per 1000; 4 ft., \$9.00 per 1000.  
**STEMMING WIRE.**  
 20 x 24, 25 cts. per stone; 30 x 30, \$1.50 per stone. 25-22 cut 9 or 12 inches, 75 cts. per box. 30 x 30, 100 cts. per box, all these prices.  
**30,000 PALMS AND FERNS.**  
 At the lowest prices.  
**NEPHROLEPIS EXALATA BOSTONIENSIS.**  
 Grand culture from \$3. to \$30. each.  
**GROUND BONE.**  
 Guaranteed pure and fine, \$1.50 per 100; \$20.00 per ton. Sample free.  
**BULL DOG HOSE.**  
 6 and 7 ply, 12 to 15 cts. per foot. Send for sample. We can ship hose from New York City, Cleveland, Chicago, San Francisco or Boston.

**H. F. LITTLEFIELD**, Worcester, Mass.  
 When Writing Mention Florists' Exchange

## The Canadian Tariff.

The portions of the new Canadian law that affect horticulturists have already been received by the State Department, Washington, that bear particularly upon the seed, plant, and fruit, and kindred lines, read as follows:

## DUTABLE.

SEEDS, viz., garden, field and other seeds for agricultural or other purposes in small quantities, and unshelled seed, when in bulk or in large parcels, 10 per cent. ad valorem. When put up in small packets or parcels, 25 per cent. ad valorem.

FRUIT, viz., apple, cherry, peach, pear, plum, and quince of all kinds, and small peach trees known as June buds, 5 cents each.

— Grape vines, gooseberry, raspberry, currant and rose bushes; fruit plants, holly, and shade, lawn, and ornamental trees, shrubs, and plants, D. O. S., 20 per cent. ad valorem.

BLACKBERRY, gooseberries, raspberries, strawberries, cherries, and currants, D. O. S., the weight of the package to be included in the weight for duty, 2 cents per pound.

All goods not enumerated in this list are subject to any duties hereinafter declared free of duty by this act, and no special duties the importation whereof is provided for by this act, or which shall be subjected to a duty of 20 per cent. ad valorem.

## FREE LIST.

FLORISTS' STOCK, viz., palms, bulbous, cornus, tabernaemontana, spiraea, and lilies of the valley; seedling stock for grafting, viz., plum, pear, and other fruit trees, and seeds, viz., annatto, beet, carrot, fuchsia, mandarin, mustard, sowing and growing, and other seeds, and aromatic seeds which are not edible and are in a crude state, and not adapted for sowing, or for drying, grading or refining, or by any other process of manufacture, viz., anise, fennel, star, anise, fennel, coriander, cumin, fennel and fenel tree; seed pease and seed beans from Britain, Iceland, and other islands; and lux, yonicia, crude oil, locust beans and locust bean meal and cocoa beans, and other vegetable products.

— Ground, fruits, viz., bananas, plantains, pineapples, pomelo-grapes, lemons, limes, guavas, and other fruits; wild berries, wild strawberries, and wild raspberries; and trees, shrubs, and plants, D. O. S., 20 per cent. ad valorem.

## Exclusive a Trade Paper.

Entered at New York Post office as Second Class Matter July 10, 1897.

Published EVERY SATURDAY by

L. T. DE LA MARE PTC. AND PUB. CO. LTD.

2, 4, 6, Duane St., New York.

P. O. Box, 1097.

Telephone 214 Corlland.

REGISTERED CABLE ADDRESS (Commercial Cable) Florez, New York.

## SUBSCRIPTIONS:

\$1.00 per year in United States, Canada and Mexico. \$2.00 per year to foreign countries (tries in postal union). Payable in advance. New subscriptions will commence with the first number after receipt unless otherwise stated. Back numbers can be supplied when wanted.

The date on address label shows when the subscription expires and is the subscriber's receipt. No other receipt is sent.

## ADVERTISEMENTS:

Copy must reach this office not later than Thursday in order to secure insertion in issue of following Saturday.

Rate, \$1.00 per inch. Special positions at discount. Payment in advance only, or longer.

Orders from unknown parties must be accompanied by cash or satisfactory references.

## Exclusive a Trade Paper.

THE FLORISTS' EXCHANGE is published in the interests of those commercially identified with the Florist, Seed and Nursery business. Florists and Nurseries are requested to endorse business card and other proof of their connection with these trades.

## Contents.

AGRICULTURAL CONGRESS	877
AGRICULTURAL BUILDING, OHAMA EXPOSITION (Hills)	860
AMERICAN HORTICULTURE SHOW	858
ASTERS, A NEW STRAIN OF COMET (H. A.)	863
CANADIAN TARIFF, THE	864
CHRYSAEUMS	863
CHRYSANTHEMUMS	867
CORRESPONDENCE	858
COSMOS, THE	856
GOLDEN GATE PARK, SAN FRANCISCO	856
LADON, EXPERIENCE WITH	856
JORDEN TOGETHER (Poetry)	860
NURSERY TRAFFIC, LAWS REGULATING	860
PITCHER & MANDA SALE	857
QUESTION BOX	859
REMARKS ON CURRENT TOPICS	864
SEED DISTRIBUTION BY GOVERNMENT	858
SEED TRADE REPORT	854
TRADE NOTES:	856
Boston	856
Chicago, Cincinnati, Indianapolis, Philadelphia, St. Paul	868
Buffalo, Paterson, N. J.	870
Baltimore	864
Hartford, Springfield, St. Louis	873
New York, N. Y.	875
VARIETY TESTING AND COMMERCIAL METHODS	864

## For the Busy Man.

The Pitcher & Manda sale occurs October 4-7, next.

Rain storms in England have done considerable damage to the seed crops.

For the text of the Canadian tariff as affecting the florist and nursery trade, see this page.

Have you time to enter the "Point System" competition? See this page for particulars.

The premiums on the choice of stalls in the Boston Flower market were several hundred dollars in excess of market value.

Quite a quantity of chrysanthemum has reached the New York market this week; the Market arrive being Mme. Gasteller, on September 18.

The Washington Florists have petitioned the government institutions to stop free distribution of plants and flowers, on the ground that the florists' business is being injured.

Don't miss seeing the grand display of dahlias at the American Institute Show, in Madison Square Garden, New York, next week. The largest collection of dahlias ever brought together in an exhibition room, will be presented.

tribution of the diplomas and otherwise.

The present exhibition will give the honor of the metropolis as far as giving a full flower display is concerned, or will give the trade credit to be deeply thankful.

## Reflections on Current Topics.

"There is a danger, with the return of prosperity, that the credit system of being granted, and of its being extended for longer periods than has obtained during the depression, will be multiplied, and the result will be a general 'credit mania,' remarked a large grower to me the other day. Continuing he said: "This is a very dangerous thing, and ought to give their most careful and thoughtful consideration. The credit system of our day is a many other matters that affect every part of it; and it all comes about from the lax business methods of those who finally dispose of our products. There is no good reason why I should lie out of my money, because the retailer has not the fortitude to ask his customer for what rightly belongs to him. Taken as a class there are but few who may be considered prompt payers in the retail trade, and the excuse the others give for this condition is anything but business-like. The credit system is being extended and authorized and the onus of doing so rests on the retail sellers, among whom in this way many other matters that affect their welfare, there should be the heartiest cooperation. It can and should be done, and it is in many other matters that I have indicated to the fact that payment must be made within a certain limited time, it will be established by and by. The credit system will fall in with the changed conditions." This is an important topic, worthy of serious consideration by all who are engaged in existing unsatisfactory credit system is greatly desiderated.

Appreciation of the "going West" of the S. A. O. H. in creating a good deal of apprehension in the minds of many of its adherents in the "Plant World." Here we are to see a specimen of the population upon the venture which I overheard remark upon the fact that Western men will have it all their own way, next week, both in the matter of officers meeting and in the matter of business. As there will not be a large enough force of Eastern delegates present in Omaha to prevent this, we are to see a specimen of this contingency, but even were it to materialize, where is the harm, provided the specimens of the population which were kept intact, and the objects for which the Society was created, carried out?

"The Southern people have been giving the credit system a good deal of thought, and the following extract from the September issue of the Southern Florist and Gardener is of interest.

"It was well that some heed was paid to the view thus expressed (Chancellor Manow's) on the subject of credit, and when full heed is steadily paid to that view, and not till then, this Society in position to give the object of its being, for the most part, in name only. When the larger men of the calling come into position in the future, and when the element, from being able to take the more generous view, will be no need to make a distinction between the two and no vulgar discourtesies shown to any section; all recognizing in the work portion of the credit system, the best way, are conceived in the common interest of all.

"I notice that the authorities of the Transient Exhibition, at St. Louis, are calling for permanent exhibits from the trade during the continuance of the Exposition in the latter part of the year. Omaha people is attained, will it not be apt to interfere with the usual trade exhibition in the latter part of the year, which have heretofore proved so many an adjunct in the development of the Society's business.

"A Society's chrysanthemum show is likely to be one of the events of the exhibition in this Fall. The venture will be a big one, and it is to be hoped it will be supported by the ladies of the Society. The proposed plan of the exhibition being the opening of the show forming part of the opening of the exhibition, the value of the show in value from \$25 to \$100, has been promised and more are expected. The exhibition, however, will be held in the first and greenhouses of the 400, though there is a probability of the trade being held in the latter part of the year. It is not heard whether or not the attendance will be exclusive, nor have I ascertained the exact date of the exhibition. It is gratifying to see a returning interest in exhibitions by the society people of New York, and it is to be hoped, more or less,

from flower shows since the one held in Lenox Lyceum several years ago, when their patronage was freely given, but did not give the exhibitor the return of a financial failure.

"The S. A. F.'s new exhibit in German is 'Gleditsia,' merikanische Schmitt-Gleditsia and Kuznetsov's."

## New York.

The cool weather has had an appreciable effect upon the market; a better tone has prevailed throughout the week, largely owing to the fact that there were all kinds of stock. Had there been anything like an improved demand, doubtless there would have been a big advance in prices. As it was, the only effect produced was the possibility of cleaning out daily with but a slight advance in prices; but after the terrible depression and glut of the last few weeks, even to clear out was acceptable and quite a new experience. The aster has almost disappeared, which fact has helped out carnations and geraniums. The price of carnations has only advanced slightly, there being no extra call on any kind except Beauty, and carnations are selling at 100 per box, while these advanced special grades to \$3 and \$4 per dozen. There has been a great deal of interest to the tune of several hundreds of blooms per day, and many have been ordered with 40c, per dozen, for a price of 40c. The demand for bloom as a provision against a fall of good size and quality inferior or smaller bloom, making 25c. each. The carnations have been offered on Saturday and dealers were glad to receive a large quantity; during the week, but few violets have been ordered, but a larger quantity is expected for to-day.

Gladstone, generally speaking, of inferior grades, and realized but little; the price of the market was 100 per box, \$2 per 100 spikes. A large quantity of montrealis was offered and met with a ready sale at 100 per box, and a few 100, but blooms of this grade were scarce.

Chrysanthemums made their appearance on Saturday. Some of the new seedlings have been arriving each day since. The varieties were Lady Fitzroy, Mrs. T. J. Young, and Mrs. W. J. Young, Montmort. Prices varied from 12c. to 40c. per bloom; but the demand could not be met, and the supply of the latter supply was limited. Several large growers will begin cutting heavily Friday, and will begin to put up for sale. It is to be claimed the dignity of being first to cut in quality, but since Saturday that localities have been looking for a new supply. This section seems to have an unusual quantity of early blooms; many places are now looking for a new supply. The commission houses across town, chrysanthemums are arriving at the Cut Flower Exchange, Thirty-fourth street, New York. Mr. J. H. Young, Jr., of Jersey City, has received from Mrs. J. H. Young, Jr., a large quantity of chrysanthemums; Mme. Gasteller was the variety, the flowers being of good quality. The flowers are now in the midst of the season to arrive in this city.

Thomas Young, Jr., has for the past few weeks been suffering with tonsillitis and later with quinsy sore throat of a severe nature.

## Retailers.

Trade in this line has picked up generally. The stores are a little more active, and dinner-table work has been on the increase, together with general business.

J. H. Troy has returned from Newport, Rhode Island, and will be in the city hereafter, and will have a cut-flower store November in connection with his fancy trade at the corner of Broadway and Broadway. He will be the manager. Preparations for furnishing the above will begin October 1. L. J. is now looking around for plants, and visitors to Siebrecht & Son's store will find the millinery establishment next door is done away with, the partition taken down, and the store is being refitted. A large number of workmen are engaged and the alterations are being pushed.

Messrs. C. F. and G. Bahret of Poughkeepsie returned from Europe Saturday, and will be in the city hereafter. Messrs. P. F. and P. J. Hauswirth, Chicago, C. Miller, Springfield, Mass., and W. J. Young, Jr., Jersey City, N. J., are also in the city.

Exhibitors at Madison Square Garden in the horticultural section are rounded this week. The exhibition will be held in the sixth street entrance will be open for the receipt of exhibits, etc.





# RECEIVER'S SALE

THE ENTIRE STOCK OF PLANTS OF

PITCHER & MANDA, at Short Hills, N. J.

WILL BE OFFERED FOR SALE, WITHOUT RESERVE, ON

## OCTOBER 4th, 5th, 6th and 7th NEXT.

The Stock consists of over **100,000 PALMS** in splendid condition, in such standard varieties as **Areca Baueri, Areca lutescens, Cocos Weddelliana, Kentia Belmoreana, Kentia Fors-teriana, Latania borbonica, Phoenix reclinata, Livistona rotundifolia, etc., etc.**

Also the finest stock of **Adiantum Farleyense** ever seen in this country, and a general assort-ment of other **FERNS**, as well as a very fine lot of **Ornamental Foliage Plants** containing many choice things not to be found elsewhere, together with all the **Greenhouses, Packing Sheds, etc.,** and all the **Real Estate**, which will be sold in four distinct parcels as follows:

No. 1.—Containing about 10½ acres, on which are located all the greenhouses, about 80,000 feet of glass, all in excellent condition; a good dwelling house, containing eight rooms; stable, store rooms, packing sheds, several hundred sash and frames, etc., etc. This is a specially favorable opportunity to purchase a very well established Florist and Nursery business at a greatly reduced price, within three minutes' walk of the railroad station, and eighteen miles from New York City.

No. 2.—Contains about 3 acres, with a good dwelling house on it, within 500 feet of the railroad station.

No. 3.—Contains about 6½ acres, now used as an Heracloe Nursery, and is well stocked with the largest and best collection of these plants in the country. Close to railroad station.

No. 4.—Contains about 62 acres, well adapted for an excellent Nursery, Farm, or to cut up for building lots. This is situated on the main road between Short Hills and Summit, and one mile from this station.

For Catalogue containing full particulars write to

**JOHN N. MAY, Receiver, SHORT HILLS, N. J.,** or

**CLEARY & CO., Auctioneers, 60 Vesey St., New York.**

When Writing Mention Florists' Exchange

### PTERIS FERNS

In variety, from six inch to each pots, \$25 per 100; \$100 per 500; to make room.

**JOHN C. URE,**  
EVANSTON AVE., STATION X, CHICAGO, ILLINOIS.  
When Writing Mention Florists' Exchange

### FERN PTERIS TREMULA

**NOW READY.**  
In excellent condition, from 2½ in. pots, 10 to 12 in. high, ready to admit to 4¢. \$3.50 per 100; \$30.00 per 1000.

**R. WITTEBSTER, Sedamsville, Ohio.**  
When Writing Mention Florists' Exchange

### GOOD STOCK

Adiantum Capense, 4 in. pots, 100	\$1.00
Azaraea Plumosa, 3 in. pots, 100	1.75
Tenaxia, 3 in. pots, 100	.75
Chrysanthemum, 3 in. pots, 100	1.00
Areca lutescens, 4 in. pots, 100	6.00
Areca lutescens, 6 in. pots, 100	8.00
Areca lutescens, 8 in. pots, 100	10.00
Areca lutescens, 10 in. pots, 100	12.00
Areca lutescens, 12 in. pots, 100	14.00
Areca lutescens, 14 in. pots, 100	16.00
Areca lutescens, 16 in. pots, 100	18.00
Areca lutescens, 18 in. pots, 100	20.00
Areca lutescens, 20 in. pots, 100	22.00
Areca lutescens, 22 in. pots, 100	24.00
Areca lutescens, 24 in. pots, 100	26.00
Areca lutescens, 26 in. pots, 100	28.00
Areca lutescens, 28 in. pots, 100	30.00
Areca lutescens, 30 in. pots, 100	32.00
Areca lutescens, 32 in. pots, 100	34.00
Areca lutescens, 34 in. pots, 100	36.00
Areca lutescens, 36 in. pots, 100	38.00
Areca lutescens, 38 in. pots, 100	40.00
Areca lutescens, 40 in. pots, 100	42.00
Areca lutescens, 42 in. pots, 100	44.00
Areca lutescens, 44 in. pots, 100	46.00
Areca lutescens, 46 in. pots, 100	48.00
Areca lutescens, 48 in. pots, 100	50.00
Areca lutescens, 50 in. pots, 100	52.00
Areca lutescens, 52 in. pots, 100	54.00
Areca lutescens, 54 in. pots, 100	56.00
Areca lutescens, 56 in. pots, 100	58.00
Areca lutescens, 58 in. pots, 100	60.00
Areca lutescens, 60 in. pots, 100	62.00
Areca lutescens, 62 in. pots, 100	64.00
Areca lutescens, 64 in. pots, 100	66.00
Areca lutescens, 66 in. pots, 100	68.00
Areca lutescens, 68 in. pots, 100	70.00
Areca lutescens, 70 in. pots, 100	72.00
Areca lutescens, 72 in. pots, 100	74.00
Areca lutescens, 74 in. pots, 100	76.00
Areca lutescens, 76 in. pots, 100	78.00
Areca lutescens, 78 in. pots, 100	80.00
Areca lutescens, 80 in. pots, 100	82.00
Areca lutescens, 82 in. pots, 100	84.00
Areca lutescens, 84 in. pots, 100	86.00
Areca lutescens, 86 in. pots, 100	88.00
Areca lutescens, 88 in. pots, 100	90.00
Areca lutescens, 90 in. pots, 100	92.00
Areca lutescens, 92 in. pots, 100	94.00
Areca lutescens, 94 in. pots, 100	96.00
Areca lutescens, 96 in. pots, 100	98.00
Areca lutescens, 98 in. pots, 100	100.00

**SEAWANNAKA GREENHOUSES,**  
Oyster Bay, QUEENS CO., N. Y.  
Jas. O'Clark, Supt. P.O. Box 5. Wm. L. Swar, Prop.  
When Writing Mention Florists' Exchange

### FOR THE FALL SEASON! PALMS FLOWERING PLANTS

See A. SCHULTHEIS, College Point, N. Y.  
P. O. Box 78, Telephone Call 51 F.  
Take North Side Division L. I. R. R. or Trolley.

**Kentia, Areca lutescens, Latania Borbonica, Phoenix, Pandanus utilis, Ficus elastica, Cocos Weddelliana, Araucaria excelsa, Cycas persicum, Ericas our Specimens, Chrysanthemum in pots.**  
Azaleas.  
When Writing Mention Florists' Exchange

### NEPHROLEPIS EXALTATA BOSTONIENSIS

...THE BOSTON FERN...  
10,000 fine plants now ready for potting for Fall sales, from bench, average ten fronds, at \$25.00 per 100. Can be potted singly in five inch pots, or two or three in larger sized pots. Best House Plant yet introduced. Larger plants at 50 cents to \$1.00 each.

**L. H. FOSTER, 45 King St., Dorchester, Mass.**  
When Writing Mention Florists' Exchange

### PALMS

**Areca Lutescens, Latania Borbonica, Kentias, Cocos Weddelliana, &c.**

**HARDY, HOME-GROWN, PERFECT PLANTS, LARGE STOCK OF ALL SIZES.**  
Call and see them. They will bear inspection.

**WHOLESALE LIST ON APPLICATION.**  
**JOSEPH HEACOCK, Wyncote, PA.**  
When Writing Mention Florists' Exchange

### 5000 IVIES

From the field, good and bushy at \$5.00 per 100  
**RUBBERS AND CYGAS.**

Fine lot of  
**ADIANTUMS**

In 4 inch pots, \$2.00 per dozen; \$15.00 per 100.  
CASH WITH ORDER.

**HESSION, Clarkson Street, Flatbush, L. I.**  
When Writing Mention Florists' Exchange

### PALMS



AND  
**FERNS.**  
The LARGEST STOCK in the West.  
**GEO. WITTBOLD, 1709 N. Halsted St., CHICAGO.**

<b>PALMS, OLEO FRAGRANS, BUDDED BONES, DWARF ORANGES (grafted).</b>	Size pots, inches	ches	per 100
Areca Lutescens, 4 in. pots, 100	4	15-18	\$20.00
Areca Lutescens, 6 in. pots, 100	6	15-18	25.00
Areca Lutescens, 8 in. pots, 100	8	15-18	30.00
Areca Lutescens, 10 in. pots, 100	10	15-18	35.00
Areca Lutescens, 12 in. pots, 100	12	15-18	40.00
Areca Lutescens, 14 in. pots, 100	14	15-18	45.00
Areca Lutescens, 16 in. pots, 100	16	15-18	50.00
Areca Lutescens, 18 in. pots, 100	18	15-18	55.00
Areca Lutescens, 20 in. pots, 100	20	15-18	60.00
Areca Lutescens, 22 in. pots, 100	22	15-18	65.00
Areca Lutescens, 24 in. pots, 100	24	15-18	70.00
Areca Lutescens, 26 in. pots, 100	26	15-18	75.00
Areca Lutescens, 28 in. pots, 100	28	15-18	80.00
Areca Lutescens, 30 in. pots, 100	30	15-18	85.00
Areca Lutescens, 32 in. pots, 100	32	15-18	90.00
Areca Lutescens, 34 in. pots, 100	34	15-18	95.00
Areca Lutescens, 36 in. pots, 100	36	15-18	100.00

All the above palms are stocky and in splendid shape  
**Magnolia fucata (Bonnie shrub)** 12-15 in. high per 100 \$12.00  
**Oleo fragrans (Tea Olive)** 12-15 in. high per 100 15.00  
**Oranges and Lemons, best varieties, fruiting sizes, grafted on Citronella bushy** 15-18 in. high per 100 20.00  
**Orange Otahellir, bushy** 12-15 in. high per 100 15.00  
**Marcheal Niel Buses, strong and grown, budded on Manilla** 3-4 feet, \$25 per 100 15.00  
**Marcheal Niel and other good varieties of Buses, strong, budded on Manilla** 4-5 feet, \$10 per 100 12.00  
**Biota Aurea, same in perfect form, and most popular of all the Biotas** 10-15 in. high per 100 10.00  
**Biota Aurea Nama** 12-15 in. high per 100 15.00  
**Ficus Elastica (top cutting)** 10-15 in. high per 100 10.00  
**Crotons, best varieties, 3 inch pots** 10.00  
**All measures from top of pot. Above prices do not apply to less than 50 of a sort. Packing at cost. Send for trade list. Quick delivery to any point. P. J. BERCKMANS, Fruitland Nurseries Augusta, Ga. When Writing Mention Florists' Exchange**



CARNATIONS ALL SOLD.

# SMILAX

Strong plants, from 3 in. pots, \$2.00 per 100, \$15.00 per 1000. Cash with order.

L. R. HANGCOCK, Luck Box Burlington, N. J. When Writing Mention Florists' Exchange

# FERNS.

The six best and hardest varieties for fern dishes, etc., (no Adiantum), \$3.00 per 100; \$35.00 per 1000.

*selaginella Emiliana*, \$3.00 per 100. A few hundred stumps, \$5.00 per 100. Cash with order.

L. HOEBEL, Fort Lee, N. J. When Writing Mention Florists' Exchange

# Seasoned Stock for Florists.

ALL STRONG, FIELD-GROWN.

**Anemone Whitehead**, ..... \$5.00 per 100  
**Day Lily**, ..... 5.00  
**Dolphium Formosum**, ..... 6.00  
**Hollyhock**, double, \$4.00 per 1000, 5.00  
**Presolan**, ..... 10.00  
**Rose**, 26 cut. flowers, ..... 6.00  
**Yucca Filamentosa**, 2 year, ..... 6.00

Also Bouvardia, Carnations, Smilax, Tulips, Hyacynth, and all kinds of Hobbs.

SEND FOR FALL TRADE LIST.

VICK & HILL CO., Rochester, N. Y. When Writing Mention Florists' Exchange

# CHEAP FOR 10 DAYS

**LATANIA BORBONICA.**  
2½ in. pots, strong stock, \$4 a 100; \$35 a 1000.

**BRIDE ROSES.**

Field-grown, ready for 4 in. pots, \$4.00 per 100.

**GERANIUMS.**

Mountain of Snow, \$5.00 per 100.

# CHRYSANTHEMUMS.

Pink Ivory, 6 in. pots, bushy, and full of buds, 80¢ per 100.

**CEO. A. MEAD.**

Map's Green Shade, ..... STONEMIELD, 2012. When Writing Mention Florists' Exchange

# STUDENT OFFERS

Half a million plants of every description, stove, cool house, bedding and hardy outdoor varieties in first-class condition, no one but seedlings, strict catalogue of all will be ready next month. Write what you need and get special catalogue. Terms cash on delivery. All plants guaranteed. Plants given here for seed plants; \$1.00 per plant, discount 50% on 1000. Measurements as growing in natural position. Plants offered as good as new.

**AS-S. Establa**, from 5 and 10 in. pots, 3% to 4 in. high and diameter, 5 to 10 leaves, \$5.00 per 100 in. stock, 20 to 25 doz. 10 leaves, 40 doz. Mes-ferrin elegans, 4 and 6 in. pots, 2 and 3 doz. 20 to 30 doz. 40 and 100 each respective. **Amara-Benzueza**, 6 in. pots, 5 ft. high, 2 doz. **Amara-Bethell**, 6 in. pots, 2 to 4 doz. **Amara-Benzueza**, 7 to 8 in. pots, 12 to 15 doz. **Amara-Benzueza**, 8 to 9 in. pots, 10 to 12 doz. **Amara-Benzueza**, 9 to 10 in. pots, 8 to 10 doz. **Amara-Benzueza**, 10 to 11 in. pots, 6 to 8 doz. **Amara-Benzueza**, 11 to 12 in. pots, 5 to 6 doz. **Amara-Benzueza**, 12 to 13 in. pots, 4 to 5 doz. **Amara-Benzueza**, 13 to 14 in. pots, 3 to 4 doz. **Amara-Benzueza**, 14 to 15 in. pots, 2 to 3 doz. **Amara-Benzueza**, 15 to 16 in. pots, 1 to 2 doz. **Amara-Benzueza**, 16 to 17 in. pots, 1 doz. **Amara-Benzueza**, 17 to 18 in. pots, ½ doz. **Amara-Benzueza**, 18 to 19 in. pots, ¼ doz. **Amara-Benzueza**, 19 to 20 in. pots, 1 doz. **Amara-Benzueza**, 20 to 21 in. pots, 1 doz. **Amara-Benzueza**, 21 to 22 in. pots, 1 doz. **Amara-Benzueza**, 22 to 23 in. pots, 1 doz. **Amara-Benzueza**, 23 to 24 in. pots, 1 doz. **Amara-Benzueza**, 24 to 25 in. pots, 1 doz. **Amara-Benzueza**, 25 to 26 in. pots, 1 doz. **Amara-Benzueza**, 26 to 27 in. pots, 1 doz. **Amara-Benzueza**, 27 to 28 in. pots, 1 doz. **Amara-Benzueza**, 28 to 29 in. pots, 1 doz. **Amara-Benzueza**, 29 to 30 in. pots, 1 doz. **Amara-Benzueza**, 30 to 31 in. pots, 1 doz. **Amara-Benzueza**, 31 to 32 in. pots, 1 doz. **Amara-Benzueza**, 32 to 33 in. pots, 1 doz. **Amara-Benzueza**, 33 to 34 in. pots, 1 doz. **Amara-Benzueza**, 34 to 35 in. pots, 1 doz. **Amara-Benzueza**, 35 to 36 in. pots, 1 doz. **Amara-Benzueza**, 36 to 37 in. pots, 1 doz. **Amara-Benzueza**, 37 to 38 in. pots, 1 doz. **Amara-Benzueza**, 38 to 39 in. pots, 1 doz. **Amara-Benzueza**, 39 to 40 in. pots, 1 doz. **Amara-Benzueza**, 40 to 41 in. pots, 1 doz. **Amara-Benzueza**, 41 to 42 in. pots, 1 doz. **Amara-Benzueza**, 42 to 43 in. pots, 1 doz. **Amara-Benzueza**, 43 to 44 in. pots, 1 doz. **Amara-Benzueza**, 44 to 45 in. pots, 1 doz. **Amara-Benzueza**, 45 to 46 in. pots, 1 doz. **Amara-Benzueza**, 46 to 47 in. pots, 1 doz. **Amara-Benzueza**, 47 to 48 in. pots, 1 doz. **Amara-Benzueza**, 48 to 49 in. pots, 1 doz. **Amara-Benzueza**, 49 to 50 in. pots, 1 doz. **Amara-Benzueza**, 50 to 51 in. pots, 1 doz. **Amara-Benzueza**, 51 to 52 in. pots, 1 doz. **Amara-Benzueza**, 52 to 53 in. pots, 1 doz. **Amara-Benzueza**, 53 to 54 in. pots, 1 doz. **Amara-Benzueza**, 54 to 55 in. pots, 1 doz. **Amara-Benzueza**, 55 to 56 in. pots, 1 doz. **Amara-Benzueza**, 56 to 57 in. pots, 1 doz. **Amara-Benzueza**, 57 to 58 in. pots, 1 doz. **Amara-Benzueza**, 58 to 59 in. pots, 1 doz. **Amara-Benzueza**, 59 to 60 in. pots, 1 doz. **Amara-Benzueza**, 60 to 61 in. pots, 1 doz. **Amara-Benzueza**, 61 to 62 in. pots, 1 doz. **Amara-Benzueza**, 62 to 63 in. pots, 1 doz. **Amara-Benzueza**, 63 to 64 in. pots, 1 doz. **Amara-Benzueza**, 64 to 65 in. pots, 1 doz. **Amara-Benzueza**, 65 to 66 in. pots, 1 doz. **Amara-Benzueza**, 66 to 67 in. pots, 1 doz. **Amara-Benzueza**, 67 to 68 in. pots, 1 doz. **Amara-Benzueza**, 68 to 69 in. pots, 1 doz. **Amara-Benzueza**, 69 to 70 in. pots, 1 doz. **Amara-Benzueza**, 70 to 71 in. pots, 1 doz. **Amara-Benzueza**, 71 to 72 in. pots, 1 doz. **Amara-Benzueza**, 72 to 73 in. pots, 1 doz. **Amara-Benzueza**, 73 to 74 in. pots, 1 doz. **Amara-Benzueza**, 74 to 75 in. pots, 1 doz. **Amara-Benzueza**, 75 to 76 in. pots, 1 doz. **Amara-Benzueza**, 76 to 77 in. pots, 1 doz. **Amara-Benzueza**, 77 to 78 in. pots, 1 doz. **Amara-Benzueza**, 78 to 79 in. pots, 1 doz. **Amara-Benzueza**, 79 to 80 in. pots, 1 doz. **Amara-Benzueza**, 80 to 81 in. pots, 1 doz. **Amara-Benzueza**, 81 to 82 in. pots, 1 doz. **Amara-Benzueza**, 82 to 83 in. pots, 1 doz. **Amara-Benzueza**, 83 to 84 in. pots, 1 doz. **Amara-Benzueza**, 84 to 85 in. pots, 1 doz. **Amara-Benzueza**, 85 to 86 in. pots, 1 doz. **Amara-Benzueza**, 86 to 87 in. pots, 1 doz. **Amara-Benzueza**, 87 to 88 in. pots, 1 doz. **Amara-Benzueza**, 88 to 89 in. pots, 1 doz. **Amara-Benzueza**, 89 to 90 in. pots, 1 doz. **Amara-Benzueza**, 90 to 91 in. pots, 1 doz. **Amara-Benzueza**, 91 to 92 in. pots, 1 doz. **Amara-Benzueza**, 92 to 93 in. pots, 1 doz. **Amara-Benzueza**, 93 to 94 in. pots, 1 doz. **Amara-Benzueza**, 94 to 95 in. pots, 1 doz. **Amara-Benzueza**, 95 to 96 in. pots, 1 doz. **Amara-Benzueza**, 96 to 97 in. pots, 1 doz. **Amara-Benzueza**, 97 to 98 in. pots, 1 doz. **Amara-Benzueza**, 98 to 99 in. pots, 1 doz. **Amara-Benzueza**, 99 to 100 in. pots, 1 doz.

# SPECIALTIES

...FOR THE USE OF...

# Florists, Nurserymen and Seedsmen

**Tubes for Mailing Plants.**  
Rather late in the season to advertise these, but we wish the trade to know we have them, and that they are the most practical method devised for that purpose.

# Catalogues for Growers, Seedsmen, Etc.

There are few, if any houses which rival ours in the completeness of outfit which we possess for the prompt and satisfactory printing of catalogues; our trade in this line is very extensive, and we are always ready to furnish estimates; large or small, it makes no difference. We have a fine catalogue of horticultural cuts; sent free on request.

# Certificates of Merit and Premium Cards.

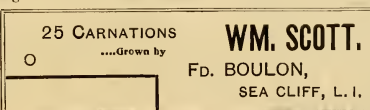
For Chrysanthemum and Flower Shows generally. We have some handsome designs on hand, drawn and engraved especially to our order, samples and prices of which we shall be very pleased to mail you on application. Clubs or associations desirous of having Certificates or Premium Cards drawn and engraved to order, can be accommodated. Prices promptly quoted on receipt of full details.

# Exhibition Plant and Cut Flower Labels.

The large growers of New York and vicinity are very proud in their admiration of our handsome black and gold waterproof Plant and Cut Flower labels for exhibition purposes. Never was a label gotten up which set a plant or cut flower off to so great an advantage. It gives the finishing touch to beauty. We have these labels in stock, in hundreds of names, covering all the popular Carnations, Chrysanthemums, Roses, etc. Send for sample and prices, and don't fail to provide yourself with a supply before your show comes off or you'll be sorry.

# Labels for Cut Flowers for Market Growers.

Did you ever stop to think that a neat, inconspicuous label, bearing your name and address, the name of the flower, and the quantity of flowers contained in the package, would be of wonderful assistance to you in business? We give here an idea of the label we refer to:-



The label is practically waterproof, and we furnish them very cheaply. In use by leading growers. Send for sample and prices.

# Addressing and Mailing for Catalogue Men.

Our painstaking system of keeping a record of all persons engaged in floriculture has resulted in giving us a list of over 10,000 names of commercial florists, nurserymen and seedsmen, which we have every reason to consider the most reliable and correct of all lists. These names we are prepared to address at a moderate figure, and invite your patronage. An unreliable list, even if the first cost is cheap, is unsatisfactory and a poor investment at any price.

We have also many thousand addresses suitable for retail catalogues; people interested in floriculture and gardening generally. Will be pleased to furnish prices and full particulars on request.

A. T. DE LA MARE PTC. and PUB. CO. Ltd. P. O. Box 1697, New York.

# HARDY PLANTS AND VINES

**STRONG FIELD-GROWN**  
Honey-suckle, Hall's Evergreen, \$1.00 feet, 7.00 per 100. Honey-suckle, Hall's Evergreen, \$1.00 feet, 7.00 per 100. Hollyhock, double, color, large clump, \$1.00 per 100. Trumpet Vine (Bignonia) \$1.00 feet, \$10 per 100. Pavilion Vine, 4 to 5 feet, \$8.00 per 100. Eulalia (Striped Grass) \$1.00 clumps, \$3.00 per 100. Cash with order.  
Wyllis W. Clark, 413 First St., Washington, D.C.  
When Writing Mention Florists' Exchange

# THE NEW PURE YELLOW DAHLIA, Clifford W. Brown

And all the leading new old Dahlies are now in full bloom on our Dahlias farm at Atoco, N. J. All interested are cordially invited to visit us and inspect them; also to visit the India Exhibition at Horticultural Hall, Broad street, below Locust, Philadelphia, Sept. 23rd and 24th.

# W. P. PEACOCK, Atoco, N. J. When Writing Mention Florists' Exchange Stationery for Florists.

Every florist in the land should have a complete supply of printed matter where-with to conduct his business in befitting style. We have the largest outfit in America devoted solely to horticultural printing, and we understand the wants of the trade. Below we quote two combination offers and would be pleased to supply you.

# \$5.00 Combination offer includes...

250 Noteheads, 5½x8½ ins.  
250 Envelopes, size 6½.  
250 Billheads, 7 in. wide, 8½ in. deep.  
250 Business Cards, 2½x4½ ins.  
250 Tags, size 2½x5½ in.  
Cash with order. Delivered F. O. B., N. Y.

# \$10.00 Combination offer includes...

500 Noteheads, 5½x8½ ins.  
500 Envelopes, size 6½.  
500 Billheads, 7 in. wide, 8½ in. deep.  
500 Monthly Statements, 5½x8½ ins.  
500 Business Cards, 2½x4½ ins.  
500 Tags, 2½x5½ in.  
One Day Book, 11 if these are not wanted subtract \$1.00.  
Cash with order. Delivered F. O. B., N. Y.

**PLEASE READ THIS BEFORE YOU ORDER.** Write plainly and send "copy" for each article wanted.

Noteheads will be furnished in smooth writing paper with ruled lines. Linnen paper, ruled or unruled, can be had instead if so ordered.

Envelopes are full commercial size and of good quality. Billheads will be furnished as above, but size 8½ in. wide and 4½ in. deep will be substituted when so ordered.

Cards are of good quality and ample proportions. Day Book and Ledger are large enough for ordinary purposes. Ledger is indexed and will suit your needs.

Special designs, trade marks, etc., engraved to order. A rose, violet, or other flower can be printed on your letterheads and billheads, plain or in color, to order. The quality of all the above work is guaranteed.

We can forward any of these combination offers with advantage to the purchaser, but it will not pay for him to distance to order a single item on account of the express charges. Address all orders to:

A. T. DE LA MARE PTC. and PUB. CO. Ltd. P. O. Box 1697, New York.

N. STUDER, Wholesale Florist, Anacostia, D. C. When Writing Mention Florists' Exchange



## Butted Glass

This is no longer an experiment, it has come to stay. There are various ways of making Butted Roofs, but the best way is with the

## Clipper Bar.

With this bar you can make a roof that is absolutely free from drip, and glass cannot be torn out by the wind. Butted glass makes a tight roof, a warm house and saves fuel. It lasts longer, looks better and costs less than the old-fashioned roof. But do not think that this is the only way for it is not; we furnish what people want and there is nothing in greenhouse material that you cannot get from us, and all of open-air-dried Cypress clear of bright sap, stained sap, knots and all other defects.

**LOCKLAND LUMBER CO.**  
LOCKLAND, O.

Mention paper

Write for Circulars  
or Estimates.

**Emil Steffens** SUCCESSOR TO STEFFENS AND STEFFENS BROS.  
ESTABLISHED 1860. **FLORISTS' WIRE DESIGNS** AND SUPPLIES.  
335 EAST 21<sup>ST</sup> STREET, NEW YORK CITY.

When Writing Mention Florists' Exchange

## GOOD TIMES ARE COMING!

HURRY THEM A BIT!

This is using the new "FLORAL ART" Catalogue to give customers ideas of Designs, Cut Flowers, Prices, etc. It shows 50 Arrangements. Adapted to any business. Five Editions. Samples, 30 cts. in stamp. The five editions for 80 cts. Priced circular free.

**DAN'L. B. LONG, PUBLISHER, BUFFALO, N. Y.**

When Writing Mention Florists' Exchange

## Wire Designs. Wire Designs. Wire Designs.

**CHEAP! CHEAPER!! CHEAPEST!!!**

The Klondike and Alaska outdoors. Have you seen it? Do you want it? You need it. All progressive Florists refer to it. Will be out list October.

**JAS. GRIFFITH'S LATEST CATALOGUE AND HARD TIMES DESIGN LIST.**  
Lowest prices ever quoted. FREE! FREE! Send for it. Reserve your orders until you consult it. Send at once before they are gone.

To **JAMES GRIFFITH, Wire Designer,**  
**701 Main Street, CINCINNATI, OHIO.**

When Writing Mention Florists' Exchange

## ..The Water Garden..

BY WILLIAM TRICKER.

PRICE \$2.00. TWENTY-FIVE PER CENT. OFF TO SUBSCRIBERS TO FLORISTS' EXCHANGE.

This work contains nine half-photographs plates, eighteen full page descriptive views of leading Water Gardens and Ponds, and numerous smaller pictures prepared with special reference to this work. On heavy enameled paper. Elegantly bound. Large octavo.

The text describes all operations from the growing of plants in tubs to the large water garden, excavation of grounds, construction of ponds, adapting natural streams, planting, hybridizing, seed saving, propagation, the aquatic house, wintering, correct designing and planting of banks and margins, and all other necessary details.

This Book is of vital interest to every Florist in the land, and all should buy it and read it. Introduce Water Gardens in your locality and make money.

**A. T. DE LA MARE Ptg. & Pub. Co., Ltd., P. O. Box 1697, New York City.**

## Buffalo.

While somewhat premature, it is almost a settled thing that the contract to build the splendid range of greenhouses at the Botanic Gardens will fall to an Eastern man. Judging by the plans and specifications, the structures will be the most handsome buildings yet erected. Professor Covell already has his eye upon some big stock to adorn them. The center dome will be 60 feet in height and it is his intention to fill the space as quickly as possible. After completion he will promise to be a most complete rockery is absorbing his attention. The arrangement of ground, the great seed-beds, to place the plants in the most favorable situations more than the formation. Though but partly finished, the plants are quite at home and being in a sheltered spot, it is expected a snowfall will cover and protect it through the severe weather. The area will be given later.

The herbaceous border is being extended 500 feet. The appreciation shown during the summer has inspired Mr. Covell to extend the area for the interesting class of plants. The majority are not yet started. The author saw in the distance a showy bed of the blue verbenas Venosa, the common aster at its best. It is one of our earliest and most pleasing to the eye. Of canna, Papa is the favorite this season; it looks grandly over some handsome seedlings raised here. A border of Yucca filamentosa around the canal beds illustrates the good use to which this plant can be put.

The houses are in excellent order, a few choice specimens of *Crinum* and *Clivia*, also superb *Adiantums* in 12-inch pots. *Nephrrolepis Duffii*, growing in the rocky crevices to be at home. *Scilla*, *Emilia* is being used as a carpet in the aquatic house; planted in the ground in open spaces is a splendid plant. Some pretty varieties of *Primula* *obconica*, ringed and bearded, are very old. *Cycas* are in the flower and use them more extensively next season.

Mr. Covell has made elaborate arrangements with Judson and his private opinion of its merits or demerits worth having. I noticed a bed of fibrous-rooted *Belamcanda*, great and shining, in a splendid visit in July, at which time they were very poor. Doubtless the cooler weather is responsible for this. Mr. Covell uses them more extensively next season.

## Pleasant Weather Continues.

A two-day's cold spell intervened the early part of this week, but no frosts were reported.

Trade inclines to quiet in a general sense. Good shipping trade was reported at Kesting's wholesale store on Wednesday. Flowers are ordinarily plentiful for the demands, but now an inclination to scarcity is noted.

N. B. Buddenbrock, now at 337 Elk street had a rush of funeral orders on Tuesday, which included a handsome Roman urn of carnations, besides ten other-finished pieces in variety. He is constructing a show house 60x20 feet in the rear of his store.

J. H. Rebeck had a country wedding decoration in Aurora on Thursday.

Autumn, N. Y.

Karl Armbruster has recovered a verdict of \$1,500 against the gas company of this city, because escaping gas from one of its street mains worked its way into his greenhouse and killed his plants. The case was carried up and the decision of the lower court was sustained.

## Hartford, Conn.

D. A. Spear has now one of the handsomest stores in New England. With the conservatory in the rear, it is well-equipped for a good plant trade.

John Coombs is rushing in carnations and violets, which are in prime condition.

## Central Falls, R. I.

G. T. Earle reports a busy season for funeral work. The demand for plants has begun and a good season is in prospect. He has a clean stock with which to meet the demand.

## Ramsey, N. J.

H. C. Hansen has bought the W. J. Thurston greenhouses. He will repair them and put them in condition to grow out flowers.

## Paterson, N. J.

Joseph Towell, who is in England, is seriously ill in an hospital there.

The Paterson Florists' Club, which is the youngest club in the country at the present time, held its third meeting on Wednesday evening, John G. Esler entertained the members with an account of the Providence convention and afterward went into a detailed account of the new fire insurance scheme. A good number of things he said: "It is among other things the national Society when the youngest florists' club in the United States, of whom not more than four persons are members of the S. A. F., should be anxious to know about the doings of the larger body at its annual meeting." After the talk was over and several questions had been answered, several members identified their intention of joining the national Society and making the journey to Omaha with the boys next year.

Capt. John J. Phelps, who has been summoned to Lake George, was elected and accepted the vice-presidency in a manner that at once made him a popular officer. He has a large number of members of the young club over which he presides. Great interest was taken in the fire insurance scheme. Several thousand dollars worth of insurance was guaranteed.

## Brookline, Mass.

The Boston firm is as strongly in evidence as ever. James has just posted up the contents of two houses, and there is stock enough left to plant over again. He has a large order to ship to New York.

Miss Vass has a pretty stock of chrysanthemums for the exhibition and will be all right at proper time.

Fred Palmer has made a big improvement on the grounds of the addition of a very convenient and handsome office.

## Lawrence, Mass.

Chas. Wingate returned home safely from the convention and is regaling the boys with stories of the great time spent there.

J. B. Halley and Thornton Bros. have made considerable improvements on their establishments. They have, in addition to their extensive plant houses, carry a magnificent stock of jarlineries and fine art.

## Cambridge, Mass.

W. E. Doyle has a book filled with orders for Fall delivery; his foreman, Mr. Murphy, predicts a good season and has a large well-grown stock to meet it. C. D. Bodley has a magnificent demand for the Boston firm, of which he has a grand stock.

## Salem, Mass.

McGe, Geary & Co. are pleased with the outlook. They regret to chronicle the illness of Mr. Geary, who has been troubled for several weeks with an affliction of the eyes. It was feared at one time that he would lose his sight entirely. But it is hoped with care he may soon be out again.

## Beverly, Mass.

G. A. Galloupe is much embarrassed by the refusal of his fellow-citizens to accept his declination of the mayoralty. It is not often one has the opportunity to decline the honor, but evidently Mr. Galloupe believes, with other members of the craft, that to preside over one's greenhouses nowadays is all he can do thoroughly.

## Holyoke, Mass.

E. H. Howland has re-painted his whole range and in place of two small houses has built a new one which shows house 28x70 feet, connecting with the office. Chrysanthemums are looking bright in the show house. He has some seedlings of much promise which will be exhibited for the first time Fall.

## Haverhill, Mass.

C. H. Kaubach celebrated Labor Day with a grand rush of funeral work. This branch has kept him so busy this season that several intended improvements have had to be held over for awhile.

Providence.

The Market.

Trade has been very quiet the past week, though slightly improved over the week previous. Funeral work is quite brisk and an occasional early opening of some large business houses with Fall goods serves to accelerate the trade.

Asters, gladioli, and other outdoor stock are plentiful and sell well. Violet plants about here are generally poor, but it is hoped that as the season advances they will improve as these are among the most favored flowers in this market, and for two or three years past there has been an increasing demand for them.

Good carnations and roses are rather scarce, though plentiful enough for the demand.

Horticultural Society.

The invitation of Mrs. Mary E. Jencks to the Rhode Island Horticultural Society to visit her place upon Jencks Hill, in Lincoln, brought a goodly number of members and their friends to that pleasant region last Saturday morning and afternoon. The ride was by one of Greene's barges.

Small Talk.

It is reported that T. O'Connor is to locate his store on Westminster street again this Fall.

Fairbrother & Wood have a very handsome new refrigerator to with beveled glass and mirrors.

E. D. Clark is erecting a one-story office building about 20x50 feet, adjoining his greenhouse on Pockwotton street.

E. J. Johnson has had his store, 171 Weybosset street, varnished, painted, and kalsomined.

John Macrae is rebuilding one of his houses and making other improvements at his plant on Smith street.

Richard M. Huestis has been appointed head gardener for Eldridge T. Gerry, Esq., at Newport, to succeed Harry Logan. A new violet house is to be erected on this estate.

The H. B. Smith Company of this city is putting in a cottage boiler with hot water coils at a William Jamieson's new greenhouse on Comstock avenue.

Frank Wise, proprietor of the Beaconside nursery, Manville, is having a new furnace placed in his main building.

In the Court of Aldermen last week a resolution was introduced appropriating \$15,000 for the completion of Roger Williams Park.

The following florists have joined the scheme of giving trading stamps to their patrons: Dorothy O'Connor, George Johnson & Son, and Fairbrother & Wood, of this city; Frank O'Reilly and A. L. Warner, of Pawtucket.

Louis D. Pierce, of Norwood, has returned from a week's yachting trip.

Sam Kinder has built a new greenhouse at Bristol.

Fairbairn Macrae and family are enjoying a three weeks' trip up the Hudson.

Thomas J. Johnston is confined to the house by an attack of rheumatism in the foot. W. M.

Business has opened up in good shape. Tom Johnston's predictions are evidently to be realized. That paper was theftproof of his life and stage freight alone prevented him reading it to us. Tom is at his best making up funeral pieces; at time of my visit he had the store nearly filled with some very fine specimens of the art.

Fairbairn Macrae's chrysanthemums are in the pink of condition.

Alex. Miller has the stock in prime shape at the Rhode Island greenhouses, and I learn that S. J. Reuter has a grander stock of roses and carnations than ever.

Alex. Bemie is rushing out bulbs as fast as possible to reduce the lot file for orders on hand.

W. Hazard is thinking of adding to his plant to supply his store at Tom'socket. George Johnson is on his way home from last reports much rejuvenated. He will not rest content until he brings with him that big huchsia bush he told about which he saw when on his trip to the Isle of Man last year.

W. S. Hogg has returned from his tour of Canada and the far East much refreshed by the outing. W. M.

New London, Conn.

John Spalding is so pleased with his trip to the convention that he may decide to run out to Omaha next year. When one at his period of life shows such vitality, the younger members should never think of getting tired. Mr. Spalding has a fine lot of chrysanthemums.

W. H. Mason.

Henry Strawberry Plant Premiums

WILL BE SHIPPED UNTIL

FROST PREVENTS DIGGING

Premium Orders

WILL BE HELD UNTIL SPRING

WHEN SUBSCRIBERS SO DESIRE

Trial Subscriptions

THE ADVERTISEMENT.

YOUR FORTUNE IN STRAWBERRIES!

The Strawberry King and his Remarkably Successful Career: How a Poor Boy Became Wealthy.

THROUGH ONE of those strange dispensations which often mock in real life the wildest imagination of the novelist, the publishers of AMERICAN GARDENING have become possessed of the story of the life and cultural methods of Henry Jerolaman, undoubtedly the STRAWBERRY KING OF THE UNITED STATES. We have prevailed upon Mr. Jerolaman to write the history of his life and a full description of his cultural methods, exclusively for the readers of AMERICAN GARDENING. Further than that and at our urgent solicitation we have prevailed upon him to make a contract to supply us One hundred thousand plants of the HENRY STRAWBERRY, which we will distribute only as premiums to subscribers to AMERICAN GARDENING. The unrivalled HENRY STRAWBERRY has positively never been advertised until now.

THE CONTRACT

Publisher American Gardening. Gentlemen, I hereby agree to furnish you within the next twelve months in quantities as ordered. One Hundred Thousand plants (100,000) or any portion thereof, of the Henry Strawberry, to be used solely as premiums for subscribers to American Gardening and not to be sold. Address Mrs. P. O'Conroy (Signed) Henry Jerolaman

The Best Berry of the Age.

Four Berries of the Henry, grown by Mr. Jerolaman, rounded a wooden quart measure. Individual berries were three-and-a-half inches through each way. Mr. Jerolaman's description of this wonderful berry in a recent issue of AMERICAN GARDENING has brought him hundreds of inquiries from the cream of the professional growers.

A GOLD MINE AT YOUR OWN DOOR.

"He who hesitates is lost." It is not likely that such an offer or such an opportunity will occur again in years. More than one Strawberry grower in every town, village, and hamlet can come into a good thing through practicing the cultural methods and getting some of the plants which have made Mr. Jerolaman not only wealthy and well-known, but so wonderfully successful, by at once

TAKING ADVANTAGE OF OUR OFFER:

For \$1.00 (check or money order preferred) we will forward you, by mail, postpaid,

FIVE PLANTS HENRY STRAWBERRY OF THE U NEQUALED And AMERICAN GARDENING One Year.

Plants to be shipped this Fall or in the Spring, as you prefer.

Present Subscribers are entitled to this offer on renewal; if their subscription has not expired, it will be dated ahead.

Mr. Jerolaman's story will be found in the first issues mailed you and his cultural methods will be published in time to be of service for Fall planting.

OFFER EXTRAORDINARY For every new subscription you send us \$1.00, we will forward you, postpaid, as a premium, Five Plants of HENRY STRAWBERRY; at the same time we will also send Five Plants to the party subscribing through you. Thus a club of ten new subscribers entitles you to Fifty plants of this wonderful Strawberry, as well as each individual subscriber to Five Plants. This is a BIG OFFER to all who want to become larger holders of this wonderful Berry, never before advertised. Time is short, get to work at once if you wish to accomplish anything before frost.

Address Pubrs. AMERICAN GARDENING, P. O. Box 1697, New York.

For \$1.00 we will send AMERICAN GARDENING on three month's trial (13 weeks) to four separate addresses, and as a premium, Five Henry Strawberry Plants to the one getting up the club, HUSTLE.

J. K. ALLEN, Wholesale Commission Dealer in CUT FLOWERS, 57 W. 28th St., New York.

W. S. ALLEN, 17 West 28th St., New York. Correspondence Solicited.

ESTABLISHED 1849. C. E. BRADSHAW, 125 W. 30TH ST., NEW YORK, Wholesale Dealer in CUT FLOWERS.

FORD BROS. WHOLESALE FLORISTS, 111 West 30th Street, NEW YORK.

WM. H. GUNTHER, Wholesale Florist VIOLETS AND CARNATIONS A SPECIALTY.

MICHAEL A. HART, Wholesale & Commission Florist, 113 W. 30th St., New York.

H. A. HOFFMANN, Wholesale Florist, 44 W. 29th St., New York.

EDWARD C. HORAN, Wholesale Florist, No. 34 W. 29th St., New York.

JULIUS LANG, Wholesale Florist, 53 WEST 30th ST. Consignments Solicited. NEW YORK.

FRANK MILLANG, Wholesale Commission Dealer ...in Cut Flowers... 408 East 34th St., New York City.

MACDONALD & McMANUS, WHOLESALE FLORISTS AND DEALERS IN CUT FLOWERS.

Solicit shipments of Cut Flowers on Commission. Best market prices guaranteed.

When Writing Mention Florists' Exchange

A. L. VAUGHAN, CHAS. W. MCKELLAR, E. F. WINTERSON. VAUGHAN, MCKELLAR & WINTERSON, WHOLESALE COMMISSION JOBBERS.

45, 47, 49 WABASH AVENUE, CHICAGO, ILL.



Table with columns: NAMES AND VARIETIES, NEW YORK, BOSTON, PHILADELPHIA, CHICAGO, ST. LOUIS. Lists various flower types and prices.

For Prices of Fancy and Special Stock see our Correspondence Columns. Prices are for quantities of one hundred unless otherwise noted.

REINBERG BROS., Wholesale Growers of Cut Flowers. 500,000 Feet of Glass. We can fill all orders on short notice...

SAMUEL S. PENNOCK, WHOLESALE FLORIST. A fine stock of VALLEY on hand throughout the Summer. Also a full line of all seasonal cut flowers.

C. A. KUEHN, WHOLESALE FLORIST, 1122 Pine St., St. Louis, Mo. C. W. WORS, WHOLESALE FLORIST, 313 N. LEFFINGWELL AVENUE, ST. LOUIS, MO.

THE NEW YORK CUT FLOWER CO. 119-121 West 23rd Street, 112-114 West 24th Street, Telephone 753-12th.

PURDY & BLAUVELT, Wholesale and Commission Dealers in CUT FLOWERS. Maidenhead Ferns a Specialty.

F. A. ROLKER, WHOLESALE DEALER IN CUT FLOWERS, 53 West 28th Street, Telephone 2379 38th St. NEW YORK.

W. F. SHERIDAN, Wholesale Commission Dealer in CUT FLOWERS, 39 West 35th St., New York.

FRANK H. TRAFFORD, CHARLES SCHENCK, TRAENDLY & SCHENCK, Wholesale Florists, 38 W. 28th St. and CUT FLOWER EXCHANGE.

JOHN YOUNG, Wholesale Florist, 51 WEST 29th ST., NEW YORK.

WM. J. BAKER, Wholesale Florist, 1432 So. Penn Square, Philadelphia, Pa.

DUMONT & CO., WHOLESALE FLORISTS, GARNATIONS A SPECIALTY. No. 1805 Filbert St., Philadelphia.

S. FROWERT, Wholesale Florist, 17 North 13th Street, PHILADELPHIA, PA.

EDWARD REID, Wholesale Florist, Finest Varieties Roses, Carnations, etc. 1526 Ranstedt St., Del. Market & Chestnut St.



**Montreal.**

**Club Meeting.**  
The regular monthly meeting of the Montreal Gardeners and Florists' Club, held last Monday, was well attended. The subjects were: "The whole, to be arranged with palms and foliage plants to form a series of groups and irregular banks and bays." A committee was appointed consisting of Messrs. Joseph Bennett, James McKenna, J. Eddy, A. Finlay, J. Holliday, J. C. Phillips, and the writer, to draw up plans and arrange to have the necessary palms and other plants on hand so that something entirely new in general arrangement may result. Everyone feels that something is necessary to do away with the sameness that is apparent in a sectional exhibition, and we are in hopes that from the brains of our best men some plan may be evolved that will meet with the hearty co-operation of the exhibitors, and that our coming Fall show will be a distinct advance in artistic taste and arrangement. In the report of the Executive Committee, the grand aggregate prizes were awarded to George Robinson, first; George Trussell, second, and C. A. Smith, third. W. WILSHIRE.

**Utica, N. Y.**

C. F. Seitzer has a house of smel. He has this ordered Marie taken for the aquar violet; a house planted and carried over is pretty, not a poor plant. No true flowers are now taken on, as good blooms are produced upon these, as upon the plants. When owing to an oversight, not on his part, mildew got into the roses, which are also very fine; fire was started at once and the evil is nearly remedied. This hint could be taken by many just now who will not start a fire, until it is too late. There is an abundance of mildew this season.

C. F. Baker considers Niphetos indispensable on the side bench. His recommendations Ed Jacket and Oeidea are away ahead of the several other varieties being planted in the house. W. M.

**Lancaster, N. Y.**

For the first time this Summer William J. Palmer, Sr., is resting on his oars after completing with the aid of his wife, fifteen houses of wood and iron of the best material, of course. They are a handsome and useful set of houses, and Barney will feel proud that ever; he used to grow some fine stock; now we shall see even finer.

Will Palmer, in commenting upon the business created by the G. A. R. gathering, thought a good time in making up a small bantoniere with a streamer of the tri-color, which sold at 10c like hot cakes. "Working out of nature, to the immortal, but it made no difference; they took just as well. He advises our "Incidental" brethren to do something upon this order next year when the Grand Army meets there. W. M.

**THE FLORISTS' FERTILIZER.**

Made by steam process from pure night-soil (liquid and solid matter), not adulterated with absorbents. Fully matured and combines all the necessary elements for the growth, vigor and enrichment of plants. Quick in action. Ground from 100 to 200 tons at a time.

**STANDARD FERTILIZER CO.,**  
1822 Fifth Street, PHILADELPHIA.  
When Writing Mention Florists' Exchange

**SHEEP MANURE**

Obtained and prepared expressly for florists' use. You will find it the greatest fertilizer. For particulars, see our circular. Write to Henry P. Mitchell, 312 North Third Street, Philadelphia, Pa. Price per barrel, \$2.00. Sold in 50 lb. lots at 10c per ton.

When Writing Mention Florists' Exchange.

**CODREY ASCMANN**  
1012 Ontario St., PHILA. PA.  
When Writing Mention Florists' Exchange

**A Constant Reminder.**

The Florists' Exchange keeps a fellow abreast of the times and is a constant reminder of the value of our business. It is intended to be read more and more useful. C. W. BENSON,  
Excelsior, Texas, July 16, 1897.

WRITE C. S. LODER, Sec'y,  
NATIONAL FLORISTS' BOARD OF TRADE,  
871 Broadway, New York.  
In regard to Collections Credits, etc.  
When Writing Mention Florists' Exchange

**FOR MILDEW AND BLACK ROT**

on Roses, Fruits and Vegetables,  
and Carnation Root.

Use FOSTITE, 50 cents,  
or USE FOSTITE, 25 pounds, \$2.00.

C. H. JOOSTEN, IMPORTER OF PLANTS,  
BULBS AND SEEDS,  
193 Greenwich St., New York.  
When Writing Mention Florists' Exchange

**SAVE THE BLOOMS!**  
**NIKOTEN**  
DOES NOT INJURE SENSITIVE PLANTS. USED FOR FUMIGATION OR SPRAYING, INDOORS OR OUT.  
200,000,000 PACKETS IN THE MARKET.  
Price \$1.50. ALL SEEDSMEN.

When Writing Mention Florists' Exchange

**THE BEST FOR ALL Florists.**  
**ROSE LEAF EXTRACT OF TOBACCO IN SECTIONED**  
FOR SALE BY Seed Stores.  
For Free Pamphlet, write to J. C. WATSON, 511 WEST SECOND STREET, TOBACCO CO., Louisville, Ky.

When Writing Mention Florists' Exchange

**STANDARD FLOWER POTS**

In any quantity, and of the best quality. Get my price list before ordering elsewhere.

**W. H. ERNEST,**  
Station M, N. E., WASHINGTON, D. O.  
When Writing Mention Florists' Exchange

**STANDARD POTS.**

We are now ready to supply a superior quality of Pots in unlimited quantities. Catalogues and price lists furnished on application.

**A. H. HEWS & CO.,**  
NORTH CAMBRIDGE, MASS.  
When Writing Mention Florists' Exchange

**DEATH TO THE INSECTS HARMLESS TO THE PLANTS.**

**KILL IT SURE**  
THE KENTUCKY EXTRACT CO. COLUMBUS, O. SOLE MANUFACTURERS.  
Book of Directions Sent Upon Application.  
When Writing Mention Florists' Exchange

**THE KENTUCKY EXTRACT CO. COLUMBUS, O. SOLE MANUFACTURERS.**  
Book of Directions Sent Upon Application.  
When Writing Mention Florists' Exchange

**CYPRESS IS MUCH MORE DURABLE THAN PINE.**  
**CYPRESS SASH BARS**  
UP TO 1/2 FEET IN LENGTH OR LONGER.  
**GREENHOUSE AND OTHER BUILDING MATERIAL.**  
Send for our Illustrated Book "CYPRESS LUMBER AND ITS USES." Send for our Special Greenhouse Circular.  
**THE A. T. STEVENS Lumber Co.,**  
Newspens, Boston, Mass.

When Writing Mention Florists' Exchange

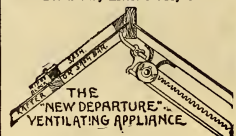
**HOT BED SASH AND GLASS.**

It is for your advantage to always obtain our quotations on HOT BED SASH AND GLASS before purchasing. We make a specialty of these goods in connection with our Door, Sash and Blind business.

**THE BROCKWAY-SMITH CORPORATION, 146 Oxford St., Lynn, Mass**  
When Writing Mention Florists' Exchange

**MANURE**  
Fresh and well rotted horse manure. Manure for Mushroom growing a specialty. Excellent fertilizer for Shrubs by Peck, R. R. & Co. B. O. and also by Post, Wm. Abernethy, Room 310, 110 Filbert Street, Philadelphia, Pa.  
When Writing Mention Florists' Exchange

**IF YOU WANT A GOOD SASH LIFT**  
For a Very Little Money Get



For Descriptive Catalogue Send to  
**J. D. CARMODY, Evansville, Ind.**  
When Writing Mention Florists' Exchange

**SUMMER IN WINTER**  
By Using  
**Standard Greenhouse Boilers**  
One cent gets you our Catalogue.  
**GIBLIN & CO., - Utica, N. Y.**

**CYPRESS GREENHOUSE MATERIAL**  
OF ANY DESCRIPTION.  
**JOHN C. MONINGER CO.**  
412 W. 42d ST. WASHINGTON PA. CHICAGO, ILL.

SEND FOR CATALOGUE.  
When Writing Mention Florists' Exchange

**Standard Flower Pots.**

Send for our New Price List with extra discounts. All our Pots, from 7 in. and upwards, have our Patent Eucalypt Bottom, which is a great advantage, as it insures perfect drainage.

**A FULL LINE OF BULL DOG PATENT THE WOODLIND POTTERY CO., 713 to 719 Wharton Street, PHILADELPHIA**  
BRANCH HOUSES: 1 Kearney and Westside Aves, Jersey City, N. J.; Jackson Ave. and Pearson St., Long Island City, N. Y.  
When Writing Mention Florists' Exchange

**A GOOD ROSE IS A GOOD INVESTMENT**

The best in the cheapest. To ascertain what a rose is worth, divide the cost per foot by the number of years it will last. We are in the market to compete in number of years with anything that is manufactured. Price 15cts. per foot for 1/2 inch; 16cts. per foot for 3/4 inch, and 20cts. per foot for 1 inch hose.

Best hose I have bought in twelve years. A. N. ESTER. "It is fine." - E. G. HELL.  
Address **J. G. & A. ESNER, Saddle River, N. J.**  
When Writing Mention Florists' Exchange

**FLOWER POTS**

We are Manufacturing a Full Line of  
**STANDARD FLOWER POTS AND HANGING BASKETS**  
OF THE BEST QUALITY.

Shipping Facilities First-Class, thereby Securing Lowest Freight Rates. Our goods are well packed, and breakage in nominal. Give us a trial. Send for Price List.

Address **THE SYRACUSE POTTERY CO., 403 N. SALINA ST., SYRACUSE, N. Y.**  
When Writing Mention Florists' Exchange

**JADDOO**  
FIBRE--Every plant grown in it thrives without earth.

**JADDOO**  
LIQUID--The best, safest and cheapest Fertilizer sold.

**JADDOO**  
U. S. Patent and Trade Mark.  
**THE AMERICAN JADDO CO.,**  
311 Fairmount Avenue,  
PHILADELPHIA, PA.  
When Writing Mention Florists' Exchange

**MASTIC**

FOR GLAZING GREENHOUSES. SUPERIOR TO PUTTY IN EVERY WAY.

It is not hardened by the extreme heat or cold that a greenhouse is constantly subjected to both inside and outside. It is adhesive and remains permanently elastic so that it is not forced out of place by expansion and contraction of the work. It does not crack, it is not dried up by the sun, it does not need re-glazing, thus saving time and expense. With Mastic Glazing Machine use on the outside, but with a machine only.

Highest Awarded Society of American Florists at Pittsburgh, 1895.  
Put up in gallons, \$1.00. Half gallons, 60c. Quarter gallons, 35c. Mastic Glazing Machines, \$1.00 each.  
Send for full descriptive circular and testimonials. Agents in all the principal cities.

**F. O. PIERGE CO., Sole Manufacturers, 170 Fulton St., New York.**  
When Writing Mention Florists' Exchange

**LORD & BURNHAM CO.,**

Horticultural Architects and Builders Steam and Hot Water Heating Engineers.

(Established 1856.)

Plans and estimates furnished on application for Greenhouses, Conservatories, and all kinds of Horticultural Buildings, erected complete with our patent iron construction; or for material only, ready for erection.



Largest Builders of Greenhouse Structures. Plans and construction embrace latest improvements. Six highest awards at the World's Fair, . . . . .

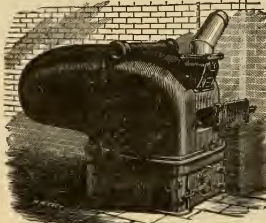
NEW YORK OFFICE:  
160 FIFTH AVE., COR. 21ST ST.

GENERAL OFFICE AND WORKS:  
IRVINGTON-ON-HUDSON, N. Y.

When Writing Mention Florists' Exchange.

**GREENHOUSE HEATING AND VENTILATING,**

Horticultural Architecture and Building.



Mention paper

**Hitchings & Co**

ESTABLISHED 1844.

233 Mercer Street, NEW YORK.

FIVE PATTERNS OF BOILERS.  
NINETEEN SIZES.

Perfect Sash Raising Apparatus.  
Rosehouses, Greenhouses, Etc., of Iron Frame Construction erected complete or the Structural Iron Work shipped ready for erection.

Iron Frame Benches with the "Perfect Drainage Bench Tile" as Slate Tops.

SEND 4c. POSTAGE FOR ILLUSTRATED CATALOGUE.

**Evans' Improved Challenge.**  
Boiler bearing, self-oiling device, automatic stop, solid iron chain makes the IMPROVED CHALLENGER the most perfect power rated in the market.  
Write for catalogue and prices before placing your orders elsewhere.  
**Quaker City Machine Co.,**  
RICHMOND, IND.

When Writing Mention Florists' Exchange

**VALVES AND FITTINGS**  
For Pipe and Tubing.  
**VENTILATING APPARATUS.**  
**COLDWELL-WILCOX CO.,**  
Newburgh, N. Y.  
SEND 6c CATALOGUE  
Mention paper.

**STANDARD VENTILATING MACHINE.**  
NONE EQUAL IT IN Strength AND Durability  
NOTHING Flimsy OR Complicated about it.  
**E. HIPPARD, YOUNGSTOWN, OHIO.**

When Writing Mention Florists' Exchange

**GLASS** FOR GREENHOUSES, CONSERVATORIES, GRAPERIES, HOTBEDS AND FLORISTS' USE GENERALLY, AT LOWEST RATES.  
**L. HARRIS & SON.**  
487 W. BROADWAY, NEW YORK, 38 LIBERTY ST., NEW YORK.  
9th, Broadway and Church Sts.

When Writing Mention Florists' Exchange

**GLASS!** For Greenhouses, Conservatories, Graperies, Hotbeds and all other purposes, at Lowest Rates.  
**N. COWEN'S SON, 392 & 394 West Broadway, New York,**  
Formerly 114 and 116 So. Fifth Avenue.  
Get our Figures before buying Glass. Estimates Freely Given

When Writing Mention Florists' Exchange

**DON'T SYRINGE WITH COLD WATER**  
And so lower the vitality of your Stock, inviting Mildew, Black Spot, and other Diseases, but write for particulars of my Temporary Apparatus.  
**HENRY W. GIBBONS, HEATING ENGINEER AND GREENHOUSE BUILDER**  
136 LIBERTY STREET, NEW YORK.

When Writing Mention Florists' Exchange

**CALIFORNIA RED CEDAR** Never Decays.  
**A. DIETSCH & CO. 819 Sheffield Avenue, CHICAGO.**  
MANUFACTURERS OF RED CEDAR AND CYPRESS GREENHOUSE MATERIAL.

When Writing Mention Florists' Exchange

**THE VAN REYPER PERFECT GLAZIERS' POINTS**  
No rights or lefts. Price per box of 1000, 60c. by mail, 75c.; in lots of 5000 by ex., 55c. per 1000  
**HENRY A. DREER, 714 Chestnut St., Phila., Pa.**

When Writing Mention Florists' Exchange

SEND FOR OUR NEW CATALOGUE, WHICH SHOWS  
**The New Automatic Cable Ventilator**  
As it's put up in the house complete. We also give you prices with a guarantee that each machine sent out will operate your house successfully. Both machines now made in two sizes.  
**A. Q. WOLF & BRO., Dayton, Ohio.**

When Writing Mention Florists' Exchange

**TRADE GREENHOUSES.**  
THE BEST MADE.  
"Florists" Get Your Plans and Estimate from  
**PLENTY'S HORTICULTURAL WORKS,**  
148-156 Randolph Ave., JERSEY CITY, N.J.

When Writing Mention Florists' Exchange

**FURMAN BOILERS** specially adapted to  
**Greenhouse Heating.**  
500 Styles and Sizes. Steam and Hot Water.  
SAFE, SUBSTANTIAL, SIMPLE, ECONOMICAL.  
Portable or Brick Set.  
**CREAT COAL SAVER.**  
Send for catalogue. Estimate Free.  
**THE HERENDEN MFG. CO.,**  
Home Office: 115 Fay St., Geneva, N. Y.  
BRANCH OFFICES:  
Boston, 54 Oliver St.; Philadelphia, 1019 Betz Bldg.;  
New York, 38 Cortlandt St.; Milwaukee, 115 2d St.

When Writing Mention Florists' Exchange

**The Scollay Boiler** —FOR—  
**GREENHOUSE HEATING, ETC.**  
Hot Water or Steam.  
"FARMINGTON, Conn., March 9, 1896."  
"The Invincible" Boiler you placed in my Conservatory houses has given great satisfaction. I did not have to run the boiler hard even when the thermometer stood 15 deg. below zero. It has proved "Invincible" in every respect."  
Herb Cressley, Florist.

Send Stamp for Catalogue and Price List. Estimates Cheerfully Given.  
**JOHN A. SCOLLAY,**  
74 and 76 Myrtle Ave., Brooklyn,  
—AND—  
231 Water St., New York.

"INVINCIBLE."

When Writing Mention Florists' Exchange

# SAVE 50% DUTY

ON METAL FLORAL DESIGNS By buying of the Manufacturer, Also Largest Stock, Best Grade, Lowest Prices.  
PREPARED CYCAS PALM LEAVES  
ALL FLORISTS' SUPPLIES SECOND TO NONE. WRITE FOR CATALOGUE.

A. HERRMANN, 404, 406, 408, 410, 412 East 34th Street, NEW YORK CITY.  
Manufacturer of METAL FLORAL DESIGNS, Importer and Dealer in FLORISTS' SUPPLIES.  
When Writing Mention Florists' Exchange

# Florists' Supplies.

Largest Stock in the Country.  
All goods up to date, and of superior quality.  
Write us for prices not obtainable elsewhere.

H. BAYERSDORFER & CO., 66 N. FOURTH STREET, PHILADELPHIA, PA.  
When Writing Mention Florists' Exchange

## Nephrolepis Exaltata Bostoniensis.

The Handsomest Decorative Plant in Cultivation.  
\$5.00 per 100; \$40.00 per 1000.  
MINE IS THE GENUINE STOCK.  
FRED. C. BECKER, - - - 1730 Cambridge Street, CAMBRIDGE, MASS.  
When Writing Mention Florists' Exchange

# PALMS, &c.

An immense stock. PALMS—Ficus Elastica, Araucaria Excelsa, Pandanus Veitchii and Utihi, Cycas Revoluta, Adiantum Farleyense, &c. All sizes. Hardy, strong, home-grown plants. Will last and give satisfaction. Prices moderate. Price List on application.

CHAS. F. BALL, - - Holmesburg, Phila., Pa.  
When Writing Mention Florists' Exchange

# DREER'S SPECIAL OFFER OF

We again call special attention to our stock of Palms, which is the largest and most complete in the country, especially in the varieties and sizes used in the general Florists' trade; our stock of Kentias alone occupying over one and a half acres of glass, and all other popular varieties being on hand in proportionate quantities.

**ARECA LUTESCENS.**  
We have a fine lot of this graceful and popular variety.  
3 in. pots, 12 inches high..... \$1.25 per doz.; \$10.00 per 100  
2 in. pots, 8 to 9 inches high, 30 per doz.; \$1.00 per 100  
6 " " " 24 " 4 to 6 plants in pot, 12 00 " " 100.00  
" " " 20 " 100 " 15.00  
" " " 20 " 100 " 15.00

**COCOS WEDDELIANA.**  
2 1/2 in. pots, 5 to 6 inches high..... \$2.00 per doz.; \$16.00 per 100  
3 " " " 10 to 12 " " " 3.00 " " 25.00  
" " " 12 to 15 " " " (Retail Dec. 1st) 4.00 " " 40.00

**GEONOMA GRACILIS.**  
We offer a fine stock of this most graceful Palm. Good young plants per 2 1/2 inch pots, \$2.00 per doz.; \$15.00 per 100; 3 inch pots, \$3.50 per doz.; \$25.00 per 100.

**LATANIA BORNICANA.**  
Our stock of Lantania in small sizes is again in excellent condition, especially the 2, 3 and 4 inch pots.  
2 inch pots, 3 to 4 leaves, 60c per doz.; \$1.00 per 100; \$25.00 per 1000.  
3 inch pots, 3 to 5 leaves, beginning to show character \$1.25 per doz.; \$10.00 per 100; \$20.00 per 1000.  
4 inch pots, 4 to 6 leaves, an excellent lot of plants of various sizes, \$2.00 per doz.; \$15.00 per 100.  
5 inch pots, 4 to 6 leaves, 18 inches high, \$3.00 per doz.; \$20.00 per 100  
6 " " " 5 to 8 " 15 to 20 " " " 9.00 " " 100  
7 " " " 6 to 7 " 20 to 30 " " " 1.50 " " 100  
8 " " " 6 to 7 " 20 to 30 " 1.25 each  
" " " 6 to 7 " 20 to 30 " 1.50 " " 100  
" " " 6 to 7 " 20 to 30 " 2.00 " " 100  
" " " 8 " 3 plants in a pot, 24 inches high, good stock for decorative, \$1.50 each; \$14.00 per dozen.  
8 inch pots, 7 leaves, 20 inches high, \$2.50 each; \$20.00 per dozen.  
The larger sizes are not all perfect, the lower foliage being somewhat clipped, but are good saleable plants that will give satisfaction.

**LIVISTONA ROTUNDIFOLIA.**  
We have a grand stock of this miniature Lantania, the most graceful of all the Fan-leaved Palms, and a variety that sells on sight.  
Fine 3 inch pots, above character very nicely, \$4.00 per doz.; \$25.00 per 100.

**PHENIX RECLINATA.**  
2 1/2 inch pots, 4 to 5 leaves..... \$0.75 per doz.; \$6.00 per 100  
3 " " " 4 to 5 " " " " " 1.00 " " 8.00  
6 " " " 18 inches high, 4 to 5 leaves..... 5.00 per doz.  
7 " " " 5 to 6 " " " " " 12.00



KENTIA BELMOREANA.

Our New Wholesale Price List just issued will be mailed on application to all Florists.

**DRACENA SANDERIANA** Fine plant, from 3 in. pots, \$4.00 per doz., 25 in. pots, \$3.00 per doz.  
**SMILAX** Strong bushy plants, 2 1/2 inch pots, \$2.00 per 100.  
**BOUVARDIAS** Single red and white, fine plants from open stock.  
**CLEMATIS PANICULATA** 3 in. pots, \$4.00 per 100.  
**C. EISELE**, 1 1/4 and 1 1/2 inches in Sta., Philadelphia, Pa. When Writing Mention Florists' Exchange

**AZALEA INDICA**  
Will be ready for delivery October 1. Write us for prices on these; also Dutch Bulbs.  
**L. C. BOBBINK**, Rutherford, N. J.  
The Horticultural Company, B'skool, Holland.  
When Writing Mention Florists' Exchange

**FOR SALE CHEAP!**  
2 Starlet Hibiscus..... 4 ft. 2  
Dicksassa Antiarifolia..... 5 ft. 1  
1 Lantia Borbonica..... 6 ft. 2  
2 Dracena Ameriana..... 8 in. pots 4 ft.  
300 Cyclamen..... 2 1/2 inch pots 300  
300 Cycas podium..... 8 in. pots 300  
**H. W. MALES**, Ridgewood, N. J.  
When Writing Mention Florists' Exchange

**100,000 FERNS**  
20 best varieties. Write for list and lowest prices.

**1,000 FIGUS ELASTICA**  
4 inch pots, fine stock.

**10,000 SMILAX**  
Strong plants, twice cut hark.  
**CHAS. F. BAKER**, Utica, N. Y.  
When Writing Mention Florists' Exchange

# A RARE PLANT

Cycas Circnatis.—Stem 36 inches tall, 9 inches in diameter, 85 leaves over 8 feet long, 5 and 6 inches in width on application. Send for wholesale list of Palms.  
**W. J. HESSER**, PROP. PALM GARDENS, PLATTSMOUTH, NEB.  
When Writing Mention Florists' Exchange

**AZALEAS!**  
(INDICA.)  
8 to 9 in. heads, \$15.00 per 100; \$100.00 per 1000  
9 to 10 " " " 17.50 " " 170.00  
10 to 12 " " " 20.00 " " 200.00  
12 to 14 " " " 23.00 " " 230.00  
14 to 16 " " " 25.00 " " 250.00

**PALMS, Etc.**  
For Palms, Aroides, Aracarias, etc., please refer to our advertisement in Florists' Exchange of May 15th and June 15th.

**BENIGONIAS.**  
(Erect Flowering) Single Tuberos Rooted.  
About 1 1/2 inch diam., separate colors, \$5.00 per 100; \$50.00 per 1000.  
About 1 to 1 1/2 inch diam., separate colors, \$16.00 per 100; \$160.00 per 1000.  
Double Flowering  
About 1 1/2 inch diam., separate colors, \$22.00 per 100; \$220.00 per 1000.  
About 1 1/2 inch and above diam., sep. colors \$40 per 100.  
**CLOXINIAS** (Erect Flowering).  
About 1 1/2 to 1 1/4 inch diam., mixed, \$10.00 per 1000; \$100.00 per 10000.  
About 1 1/2 inch and above diam., mixed, \$15.00 per 100; \$150.00 per 1000.  
Forcic and other Nursery stocks grow in quantities.  
CASH with packing fees, except on approved Credit.

**ROYAL NURSERIES, LOUIS VAN HOUTTE PÈRE, Ghent, Belgium.**  
When Writing Mention Florists' Exchange

**PTYCHOSPERRA ALEXANDRE.**  
2 1/2 inch pots..... \$0.75 per doz.; \$6.00 per 100  
2 " " " " " " " 1.00 " " 8.00  
4 " " " " " " " 2.00 " " 20.00  
6 inch pots, 8 plants in a pot, 20 to 24 inches high, \$6.00 per dozen.  
2 inches high, \$5.00 per dozen, \$70.00 per 1000.

**KENTIA BELMOREANA.**  
Our stock of this most valuable of all Palms is the largest in the world, and we offer a very full line of sizes.  
2 1/2 in. pots, 2 to 3 leaves, 6 to 8 in. high..... Dec. 1.00  
2 " " " " 4 to 5 " 10 to 12 " " " 2.00 " 20.00  
3 " " " " 4 to 5 " 10 to 12 " " " 2.00 " 20.00  
4 " " " " 4 to 5 " 10 to 12 " " " 3.00 " 30.00  
5 " " " " 5 to 6 " 15 to 20 " " " 4.00 " 40.00  
6 " " " " 4 plants in a pot, 20 to 28 in. high..... 1.00 " 10.00  
A beautiful first lot of plants.  
7 " " " 6 leaves, 30 in. in high..... Each Dec. 2.00  
7 " " " " 6 to 7 " 20 to 30 " " " 2.50 " 25.00  
7 " " " " 6 to 7 " 20 to 42 " " " 2.50 " 25.00  
7 in. pots, 4 plants in a pot, centre plant being tall (about 30 in. high), with 3 smaller plants about 16 in. high around it..... 2.50 per doz.  
8 in. pots, 7 leaves, 42 to 48 in. high, \$5.00 each; \$50.00 per doz.  
9 in. pots, 4 plants in a pot, centre plant about 36 in. high with 3 smaller plants about 20 in. high around it. These are perhaps the most perfect and elegant plants of the kind we have ever offered. \$5.00 each; \$50.00 per dozen.  
9 in. pots, centre plant 4 feet high with 3 smaller plants about 2 feet high behind same, a perfect set of specimens, \$10.00 each.  
12 in. pots, 7 to 8 leaves, 6 to 7 feet high, \$55.00 each.

**KENTIA FORSTERIANA.**  
2 1/2 in. pots, 2 to 3 leaves, 6 in. high..... Dec. 1.00  
3 " " " 3 to 4 " 10 to 12 " " " 2.00 " 20.00  
4 " " " 4 to 5 " 15 to 18 in. high..... 3.00 " 30.00  
6 " " " 4 to 5 " 24 to 30 " " " 12.00 " 120.00

Each Dec.  
6 " " " 6 " 30 to 38 " " " 1.50 " 15.00  
6 " " " 6 " 38 " " " 2.03 " 20.30  
6 " " " 6 " 40 " " " 2.00 " 20.00  
10 " " " 5 to 6 " 52 " " " 7.50 " 75.00  
4 plants in a pot, centre plant high, with 3 plants about 24 in. high, around it. \$10.00 each.  
5 plants in a pot, centre plant 6 feet high, 4 smaller 6 leaves, 5 feet high, 5 inch apart.  
5 plants in a pot, centre plant 6 feet high, 4 smaller 6 leaves, 5 feet high, 5 inch apart.  
12 " " 7 leaves, 6 feet high, \$35.00 each.  
14 in. tube, 7 leaves, 7 to 8 ft. high, fine decorative stock. \$35.00 ea.

# HENRY A. DREER, 714 Chestnut St. PHILA., PA.

When Writing Mention Florists' Exchange

# THE FLORISTS' EXCHANGE

We are a straight shoot and aim to grow into a vigorous plant.

A WEEKLY MEDIUM OF INTERCHANGE FOR FLORISTS, NURSERYMEN, SEEDSMEN AND THE TRADE IN GENERAL.

VOL. IX, No. 40.

NEW YORK, OCTOBER 2, 1897.

One Dollar Per Year.

## LILIUM HARRISII ROSE HILL NURSERIES.

(Bermuda Easter Lily.)

NEW YORK LONG DISTANCE TELEPHONE, 1742-38.

NEW ROCHELLE LONG DISTANCE TELEPHONE, 151.

THE LARGEST AND FINEST STOCK IN AMERICA.

Now is the time to order and have your stock shipped by freight before cold weather and save expressage.

TWO WEEKS! SPECIAL OFFER FOR TWO WEEKS!

(A FEW SPECIALTIES.)

- Arcia lutescens**, 5 in. pots, 15-18 in. high, to 7-8 in. pot, 8 ft. high.
- Coccos Weddelliana**, 2 1/2 in. pots to 5 in. pots. Beautiful stock.
- Lantana borbonica**, in all sizes.
- Kentia Belmoreana**, finest stock ever offered, in all sizes.
- Phoenix reclinata, rupicola, canariensis**, different sets & sizes.
- Dracenas**, 10 varieties, colored and coloring.
- Dracena canes**, grand lot, in fine shape, 13 varieties, (last offer).
- Ficus elastica**, 10,000 beautiful plants, 50 and 75 cts. each.
- FERNS:**
- Nephrrolepis cordata compacta**. The finest in the country.
- Nephrrolepis daval. farcans**, grand stock (two houses).
- Nephrrolepis Bostoniensis.**
- Ferns for Jardinieres**, in 6 varieties, 2 1/2 in. pots.

If you are in the market to buy and get the finest stock, give us a call. Home grown and cool grown stock. Write for prices.

Write, telegraph or telephone and our carriage will meet you.

**SIEBRECHT & SON, NEW ROCHELLE, N. Y.**  
(New York Office, 409 5th Ave.)  
When Writing Mention Florists' Exchange

## FIELD-GROWN CANNAS

	Per 100	Per 1000
1000 William Scott	\$6.00	\$50.00
2000 McGowan	6.00	50.00
200 C. A. Dava	12.00	
200 Mrs. Chas. Duhme	12.00	

All others-sold out.

## CANNAS.

JAMES DEAN'S NEW PEGIGRE CANNAS. WILL BE SENT OUT IN FEBRUARY.

**President McKinley.** Color brilliant crimson, with scarlet shading. Plant dwarf, growing from 2 1/2 to 3 feet high in rich soil. Foliage deep green with heavy chocolate margin. Plant stools freely and is abundant and very early bloomer. The flower heads are highly colored as in A. H. Jones Bouvier. The fringes are large, of good shape and held well above the foliage and the growth is compact and even. This variety may be considered a marked improvement upon Charles Henderson, Columbia and other crimson Cannas. The effect when massed is extremely brilliant, the color contrasting nicely with the deep green foliage. We place this variety at the head of the list of crimson Cannas, and believe that it will prove invaluable for bedding purposes. Certified.

**Defender.** Color clear yellow, striped with bright scarlet. Height 3 to 3 1/2 feet. Habit somewhat resembling Columbia. An early, very profuse bloomer, producing large heads of broad petaled flowers. Foliage clean, distinct, and a good grower. This Cannas will prove very effective for massing, as it produces a greater proportion of flowers to the foliage than almost any other yellow Cannas. Certified.

The attention of seedmen is called to the following list of standard bedding Cannas which we grow in quantity.

Chas. Henderson, A. Bouvier, Am Pichon, Midway, Chicago, Alex. Billard, Papa, Beute Potteville, Columbia, Flamingo, Madame Crozy, Souvenir de A. Crozy, Queen Charlotte, M. Messier, Premier, John White, Eldorado, Florence Vanhook, America, Count de Bouchard, L. E. Cabot, Burbank, Egalite, J. D. Cabot, Admiral Avellan, President Carnot, J. C. Vaughan, Leonard Vanhook and Souv. de Pres. Carnot.

We are prepared to fill large orders of the above. Send us a list of your wants and get our prices before ordering elsewhere.

THE COTTAGE GARDENS, QUEENS, N. Y.

When Writing Mention Florists' Exchange

The U. S. Government has just turned over to us for sale

## 75 Boxes of Liliun Harrisii and Longiflorum Bulbs

(5-7 in. Bulbs equal to so called 6-7s.)

which were in Bonded Warehouse for duty. They are in first-class condition, and can offer them to the trade until sold at the following low prices:

One Box of 400 Bulbs for	\$8.50
Two Boxes of 800	16.00
Three	22.50

Special prices for larger quantities.

This is a chance of a lifetime to any FLORIST, as there is nothing more saleable at EASTER, and each of these BULBS should produce not less than 3 to 7 flowers, which sell, wholesale, at 15 to 20 cents each, and as cheap JAPAN Longiflorum Bulbs are very short this year, there is no question about their being wanted.

There are also in this lot some 7-9 and 9-11.

Get our prices on all kinds of BULBS before ORDERING.

## CLUCAS & BODDINGTON CO.

IMPORTERS, EXPORTERS AND GROWERS' AGENTS OF SEEDS, BULBS AND PLANTS,

Telephone Call 403 18th St. 501 and 503 W. 13th St., N. Y. CITY.  
When Writing Mention Florists' Exchange

WE WERE THE ONLY FIRM WHO RECEIVED A

## CERTIFICATE OF MERIT

FOR GENERAL COLLECTION OF BULBS

CLEVELAND 1896—PROVIDENCE 1897

The following Bulbs are now ready for delivery:

**FREESIAS.** Extra sized bulbs, 60c. per 100; \$5.00 per 1000. Mammoth bulbs, \$2.00 per 100; \$15.00 per 1000.

**BERMUDA BUTTERCUP OXALIS.** \$1.50 per 100; \$12 per 1000.

**LILIUM HARRISII.** Finest quality, 5-7 in. bulbs, the most profitable size for general forcing, \$3.00 per 100; \$25.00 per 1000.

**BERMUDA GROWN LONGIFLORUM.** 5-7 in. bulbs, \$3.50 per 100; \$30.00 per 1000. 7-9 in. bulbs, \$7.50 per 100; \$70.00 per 1000. 9-11 in. bulbs, \$15.00 per 100.

Large size Bermuda grown Longiflorum in very scarce—order quick if you want any.

**WHITE ROMAN HYACINTHS.** Finest quality, 12-15 ctm. in dia., \$2.50 per 100; \$22.00 per 1000.

**WHITE ITALIAN HYACINTHS.** \$2.50 per 100; \$19 per 1000.

**PINK ROMANS.** \$2.00 per 100; \$16.00 per 1000.

**CALLAS.** Extra size bulbs, 1-1 1/4 in. in diam., \$6.00 per 100; \$50.00 per 1000. Selected bulbs, 1 1/2 in. in diam., \$8.00 per 100; \$70.00 per 1000. Mammoth bulbs, 2-2 1/4 in. in diam., \$12.00 per 100; \$100.00 per 1000.

**CALLIUM NEAPOLITANUM.** 75c. per 100; \$60.00 per 1000.

For DUTCH BULBS, etc., which will soon be ready, see our Fall List.

## F. R. PIERSON CO.

TARRYTOWN-ON-HUDSON, NEW YORK.

When Writing Mention Florists' Exchange

# WHY GO ELSEWHERE?

When you can buy a better class of goods at AUCTION right here, and from growers with established reputations of 25 years or more.

## On Tuesday, Oct. 5th, AT AN AUCTION.

A high class of plants will be offered, consisting of AFRICAS, LATANIAS, KENTIAS, ARAUCARIAS, FERNS, VIOLETS, Etc., Etc. Also a large consignment of BULBS.

**WM. ELLIOTT & SON, Auctioneers, 54 and 56 Dey St., NEW YORK.**

When Writing Mention Florists' Exchange

### ZIRNGEBEL'S STANDARD PANSIES

GIANT MARKET and GIANT FANCY. SEED in trade packets, at \$1 each.

Also plants of the above for sale.

DENYS ZIRNGEBEL, Needham, Mass.

When Writing Mention Florists' Exchange

### LILIUM LONGIFLORUM

Of our own importation from Japan, we offer the following surplus stock.

Size, 5-7 in., \$9.75 per box of 500  
" 6-8 " 11.25 " 450  
" 7-9 " 12.00 " 300

Orders only taken for whole boxes.

CASH WITH ORDER.

A. SCHULTHEIS, College Point, N. Y.

When Writing Mention Florists' Exchange

### SEEDS

KENTUCKY BLUE GRASS (POA PRATENSIS),  
CHAS. E. PRUNTY,  
MAIN AND MARKET, SAINT LOUIS.

### WINTZER'S NEW PEDIGREE CANNAS.

PHILADELPHIA, the finest crimson. MAIDEN'S BLUSH, color of Daybreak Carnation. ALSACE, nearest pure white, and many other choice new kinds of our own introduction. Write for Special List.

T. E. CONARD & JONES CO., WEST GROVE, PA.

### GRASS SEEDS

We are Seedsmen and Seed Dealers.  
REED TOP, BLUE GRASS,  
ORCHARD GRASS, MEADOW  
FESCUE and SUNFLOWER.

J. CHAS. McCULLOUGH, SEEDSMAN, CINCINNATI, O.  
JOBBER TRADE A SPECIALTY.

### LILIUM HARRISII.

5x7 \$2.50 per 100.

ROMAN HYACINTHS, 12x15 \$22.50 per 1000.  
PAPER WHITE GRANDIFLORA NARCISSUS, \$10.00 per 1000.  
FRESIA REFRACTA ALBA, (mammoth), \$10.00 per 1000.  
" " " " (good bulbs), \$1.00 per 1000.

SPECIAL PRICES ON LARGE LOTS.

F. W. O. SCHMITZ, Importer and Exporter, Jersey City, N. J.

### BULBS... GLAZING MATERIAL.

- Romans, Mastica,
- Harrisii, Mastica Machine,
- L. Candidum, Liquid Putty,
- Freesias, Scollay Putty Bulb,
- P. W. Narcissus, Van Ruyper's

**NOW READY.** Glazing Points.

ELLIS & POLLWORTH, Milwaukee, Wis.

When Writing Mention Florists' Exchange

### BULB HEADQUARTERS

WRITE FOR TRADE CATALOGUES.  
SAVE MONEY BY GETTING SPECIAL ESTIMATES ON YOUR WANTS IN BULBS, PLANTS, AND SEEDS, WHETHER LARGE OR SMALL.

### LILIUM CANDIDUM.

Drop very short. Large firm bulbs.  
\$3.50 per 100

### American Bulb Company

Importers and Growers, SHORT HILLS, N. J.  
When Writing Mention Florists' Exchange

### HEADQUARTERS FOR

French, Dutch, Chinese, Bermuda, Japanese, German and California Bulbs.

**CALLAS** 1x1 1/2 inch, \$4.00 per 100; 1 1/2 inch, \$4.50 per 100; 2 inch, \$5.00 per 100.  
Freesias, Cyclamens, New Cres, Washroom Spawns. Send for Special Price List.

H. B. FAUST & CO., Philadelphia, Pa.  
When Writing Mention Florists' Exchange

### SEED TRADE REPORT.

Points and information from seedmen, and all interested in the seed business.  
Editor SEED TRADE, care of Florists' Exchange, P. O. Box 1697, New York.

AMERICAN SEED TRADE ASSOCIATION.  
JEROME, N. Y. President, N. Y. President; E. B. Clark, Milford, Conn. Vice-President; S. F. Willard, Wethersfield, Conn., Secretary and Treasurer.

New York.—The Stump & Walter Co. will shortly be incorporated under the Laws of New Jersey and will open early in October at 50 Barclay street, with a full line of seeds, bulbs and horticultural supplies. The officers of the company will be: President, J. H. Walter; Secretary, Henry Eicke; treasurer, G. G. Stump.

### European Notes.

**Weather and Crops.**  
By a shifting of the winds the cool and cheerless weather of the north and east has been transferred to the south and all over northern Europe very seasonable weather prevails. The heavy and cold rain and in some districts (snow) which have fallen in the south are likely to seriously injure the balance of our crops of carrots, leek, onion, lettuce, radish, cauliflower, and various of the cruciferous, and such food crops as French peas, panicles, potatoes, plums, portulaca, nasturiums, and various of the cucurbitaceae is also in the same position, while some of the late ripening herbs, peppers, and egg plants can hardly escape.

In the north things are a shade brighter than they were, which is not indeed very much to be desired, for moist weather has certainly improved the Brassicas all round.  
Brick Road for the spinach are now fully harvested and in all cases the discoloring effects of the storms are very apparent. The ground for this article has been very brisk during the past few days, and heavy shipments are being despatched to your side. An excellent variety of the prickly seeded type called Long Standing, has hardly received the attention that its merits deserve. It is fully as hardy as the parent variety, while the leaves are thicker and of a rich deep green color. It is sown with the prickly. It serves to bridge over the zulf between that variety and the Bloomsdale; while the quality of the produce is far superior to either.

**Cauliflower and Nasturium.**  
The cauliflower crop in northern Europe will be a fairly good one if favorable weather helps us for another three weeks. Modern prices are likely to prevail, and the seed will be sound. As regards nasturiums the tall varieties are doing quite up to our expectations, but dwarf varieties such as Empress of India, Cloth of Gold, King Theodore and Ruby King are very poor returns.  
Growing nasturiums is a sorry business in the best of seasons, but in a poor season like the present it can only end in loss.

EUROPEAN SEEDS.

### VALLEYS!

True Berlin and Hamburg Pips, A1 quality, and very evenly assorted, at import prices, in case lots only.

J. L. SCHILLER, Rutherford, N. J.  
Sole Agent for F. C. Penrose, Hambro, when Writing Mention Florists' Exchange

**=BULBS=**

CHAS. H. ALLEN, Floral Park, N. Y.

When Writing Mention Florists' Exchange

### ASPARAGUS ROOTS

FOR FORCING.  
Have a large stock of Asparagus Roots, 3 and 4 years strong, considered large enough for forcing in greenhouses, Cucumber, Calf's and Palm-tree. Orders will be booked now for

**XMAS HOLLY.**  
December shipment. Prices of the above on application. State quantity desired.

ALEXANDER PULLEN, Milford, Del.  
When Writing Mention Florists' Exchange

### BUY FROM THE GROWERS DIRECT

ALL BULBS AND PLANTS

For Summer and Fall Delivery, Quoted at Very Low Rates.

FREE ON BOARD CARS OR BOATS  
NEW YORK CITY.

HULSEBOSS BROS., Englewood, N. J.  
When Writing Mention Florists' Exchange

### COSMOS

GIANT FLOWERING, EARLY BLOOMING.  
5 1/2 inch double, variegated, \$1.00 per dozen  
" Mixed, 7 1/2 in. per dozen  
New California Standard, \$1.00 per dozen  
Special prices on quantities.

Apple Cosmosum, fresh, 100 per 1000 seeds.  
Musa Esauete or Abyssinian Banana, 75 cts. per 100 seeds.  
Sourthrifts Pigeons, after October 1st, 40 cts. per 50; \$5.00 per 1000 seeds.  
Callia Lily Bulbs. Prices on application.  
Send for Trade List of Novelty Seeds, Plants, Bulbs and Cacti.

MRS THEODORA B. SHEPHERD  
Victoria-on-the-Sex, Cal.

### CHINESE SACRED LILIES.

One of the best selling bulbs for the retail counter.

Strictly Choice Stock, 100 1 1/2 75; 1000 43.00.  
Write for prices on quantities.

We have a few choice Japan grown Liliun Longiflorum left. Write for prices.

**VAUGHAN'S SEED STORE**  
84 & 86 Randolph St., Chicago.  
14 Barclay Street, New York.  
When Writing Mention Florists' Exchange

Would Sell the Earth.  
I believe that an ad. in your paper would sell the earth.  
C. HUMFELD.  
City Center, March 29, 97.

**SHEPHERD'S SEEDS**

PHILADELPHIA

WHOLESALE-PRICE LIST  
FOR FLORISTS AND  
MARKET GARDENERS

**W. & D'S. "SURE" MUSHROOM SPAWN**  
Special instructions to large buyers.

ALL KINDS OF BULBS, Lilium Harrisii, Freesias, Roman Hyacinths, Narcissus, etc., etc.  
Special prices on quantities.

**WEBER & DON,** Seed Merchants and Growers  
114 Chambers St., NEW YORK CITY.  
When Writing Mention Florists' Exchange

Philadelphia.

Market Notes.

There has been quite a revival in the cut flower business the past week. All kinds of stock are moving better. The demand for flowers has improved very much, and it looks as if business has started up to continue for the season.

Flowers are advancing slightly, and are generally firmer for all flowers. Beauty is now bringing \$1.50 to \$2.50 per dozen, according to quality and stem. Sales of Beauty this week have been very good, some growers having to send to Philadelphia this week. Beauty is bringing \$1.50, while \$6 is obtained for some extra fine flowers. Meteor has also sold well at \$1.25 for roots. \$2.50 except Ferle and Niphetos, which average \$2 to \$3, and which are in good demand on account of their long white, prices averaging from 75c. to \$1.50.

Carnations are much improved; there is yet a scarcity of pink and red and extra fine white; prices averaging from 75c. to \$1.50.

Adelars are on the wane; the light colors have been selling very well and are still in demand. Dahlias have been asked for, and several of the stores are keeping them in hand. The demand, it is thought, has been brought about by the dahlias coming out this week.

Early Chrysanthemums. George E. Campbell was the first to cut these in this locality; he had a few Bergmann this week. Pennock Bros. have received some Mountmore from Strauss & Co. of Washington.

Sam'l S. Farnock is receiving some very fine Kabara from Edwin Loubale; large flowers with long stems, without a doubt the best received in this city for some time.

New Items. The shuttle-board contest started in the Florists' Club room this week, and is creating quite a stir. Contestants: there are 24 entries, these being divided into two squads and play on each Monday, Wednesday and Friday evenings.

The bowling contest commences on Saturday next, October 17th. Classes: Monday, Wednesday, Friday, Saturday, and third class Friday evenings. The best bowlers are: Fred Mehan, Alvin Kousler, Tom Young, Athelstan and Edwin Loubale's team (old members' team) lead on the latter team winning by a large margin. On Tuesday afternoon Thomas Mehan and Alvin Kousler had a match up to Washington, hoping to vanquish the Florists' Club; but the scores showed the latter team to be some 50 targets to the good.

The American Judo Club has been incorporated under the laws of the state of New Jersey.

Florists' Club. The meeting on Tuesday next promises to be the most interesting meeting for election of officers, and William K. Harris will tell the members how well they will benefit the trade the coming season.

A New Wholesale House. We have another wholesale concern, when William C. Smith has opened at 38 S. Sixteenth street. He is now fitting up the place and is now ready to receive consignments.

DAVID REES.

Providence.

The annual chrysanthemum exhibition of the Rhode Island Horticultural Society will be held in Music Hall, 280 Westminster street, on November 11, 12, and 13. Premiums amounting to more than \$10,000 will be awarded, with a competition set for the best six vases of ten named on long stems, in variety, all day.

A Large Greenhouse Planting.

H. A. Brown and several other gentlemen of Barrington, a suburb of Providence, are contemplating the erection of one of the largest greenhouse plants in New England. A plot comprising 100 acres of land on the Barrington Plot has been purchased. The exact number of square feet covered by the buildings will amount 50,000. They are now being drawn, and it is expected to be completed in the latter part of the year, before December 1. H. A. Brown, in the head of the new concern, was formerly connected with the New England grocery company.

Round and About. W. H. Trotter is about to build a wood and glass conservatory, 10x62 feet on Calder street, Pawtucket; glass and wood on roof.

William Wing will re-open his store at 47 College street, about October 1 for the season. The store has been newly painted in white and gold.

Miss Emily Sewell has returned to her home at 12 Johnson street after her summer's vacation. W. H. M.

CATALOGUES RECEIVED.

SCHLEGEL & FOTTLER, Boston, Mass.—Bulb Catalogue for Fall 1897. PIERONY NURSERY CO., Bloomington, Ill.—Wholesale Catalogue of Trees, Shrubs, Roses, etc.

FRISKE & CONARD Co., West Grove, Pa.—Catalogue of Bulbs, Roses, etc., profusely illustrated.

S. TAPLIN, Detroit, Mich.—Circular regarding his new hothel, for which patents have been granted in America, Germany, Canada, Belgium, England and France.

ELWANGER & HARRY, Rochester, N. Y.—General Catalogue of Fruit and Ornamental Trees, Shrubs, Roses, etc. Very complete, and containing a new stock catalogue that comes to our desk.

DANIEL B. LONG, Buffalo, N. Y.—Floral Art Catalogue of new stock catalogue for the use of retail florists. It treats on designs, colorings, and gives the most valuable customer practical ideas from which he can intelligently order arrangements of flowers. The work includes the illustrating in actual reproductions, direct from photographs, of different illustrations, made-up arrangements in flowers as well as panels, stairway decorations, etc. It also contains a circular matter on cut flowers, directions for ordering, etc.; hence it is fully and fully represents the retail cut flower trade. Its scope is ample, and entertaining florists readily comprehend that such a method, properly used, most largely stimulate and increase business.

LETTUCE PLANTS.

Five transplanted, fine Grand Rapids Lettuce Plants, 20c per 100 \$2.00 per 1000. See also A. J. BALDWIN, Newark, O. When Writing Mention Florists' Exchange

Grape Vines. Small Fruit Vines. Descriptive list free. Vines, Extra fine stock of G. P. S. S., including the new and improved W. J. E. & Co. quality grapes, Warranet tree, 75c. In 1898 and 99, Freshness, N.Y. When Writing Mention Florists' Exchange

JACKSON & PERKINS CO., NEWARK, NEW YORK

Have to offer for season of 1897-98 a choice assortment of all the following Root and Ball Plants: Clematis, Allamanda, Strubus, and Tree, Fruit Trees and Small Fruit Plants.

WRITE FOR PRICE LIST.

When Writing Mention Florists' Exchange

AZALEA AMÆNA

In 75 and 50 inch pots. Also 2 year and 3 year plants in open ground, from \$5.00 to \$50.00 per 100.

HYDRANGEA THOS. HOGG.

Strong 2 year plants, from 50 cents upward, with 5 to 12 strong shoots, \$1.00 and \$15.00 per 100.

DEUTZIA CRAIGIS AND BERBERIS THUNBERGI.

1 year, 2 year and 3 year plants, \$5.00 to \$15.00 per 100. SEND FOR TRADE PRICE LIST.

SAMUEL C. MOON, Morriville, Bucks Co., Pa.

When Writing Mention Florists' Exchange

HEADQUARTERS PAMPAS PALMES

CALIFORNIA Tree and Shrub Seeds, Smilax, Cobea, Grevillea robusta, PALM SEEDS, Etc.

Ask for Special Price.

GERMAIN FRUIT CO., LOS ANGELES

When Writing Mention Florists' Exchange

CLEMATIS PANICULATA.

12 to 18 in., \$1.50 per 100; 2 to 3 ft., \$3.50 per 100; 3 to 4 ft., \$5.50 per 100. Home grown. CLEMATIS PANICULATA, very heavy.... \$1.00 per 100. } Home grown. ROSES General Assortment, on own roots..... \$1.00 per 100. } Empress of China, strong..... 8.00 "

HONEY SUCKLES, extra fine..... 6.00 "

HOLLYHOCKS, to color, strong field-grown plants..... 6.00 "

FIGUS ELASTICA, Stock plants for sale at one-half their value as we have given up growing these plants. Prices on application. We also have a fine stock of

HYDRANGEAS, for forcing. Very fine plants. Prices on application.

40,000 AMPELOPSIS VEITCHII, field-grown, at \$8 per 100. Out of 3 inch pots, at \$5 per 100.

A fine stock of Shade and Ornamental Trees. Prices on application. THE ELIZABETH NURSERY COMPANY., Elizabeth, N. J.

When Writing Mention Florists' Exchange

Tree Mosses. 2,000 superior Holland grown and transplanted Tree Mosses for early shipment. Rhode-Island, Boston or Holland grown. Azaleas, Shrubs and Nursery Stock in general

KEENE & FOULK, FLUSHING, N. Y. When Writing Mention Florists' Exchange

F & F NURSERIES, SPRINGFIELD, NEW JERSEY

Our Specialties this Season: PEACH, Plum, Japan Walnut and Shade Trees. California PRIVET and Shrubby. Stock good and prices right. . . . .

When Writing Mention Florists' Exchange

Only 15,000 Peach Trees—But fine. The best varieties. Can you use them? Write. C. C. ENSICK, Madison, Ohio. When Writing Mention Florists' Exchange

CALIFORNIA PRIVET

Good two year old plants well branched, 24 to 30 inches, \$1.00 per 100; \$20.00 per 1000; to 24 inches \$1.00 per 100; \$15.00 per 1000. Lights two year, good quality, \$1.00 per 100; \$10.00 per 1000. Stock maintained as represented; if sample is wanted send 15 cents, which will be credited on second if plants are ordered.

Address CHAS. BLACK, Hightstown, N. J. When Writing Mention Florists' Exchange

FITZGERALD PEACH

The finest quality yellow peach in Southern California, from Crawford and Mrs. Barrer, Columbian White and Donnell's Elm. Selection of rare fruit trees. Selection of rare fruit trees. Japan Plum, Japanese Quince, etc. Catalog free. HALL'S NURSERY, BOSTON, Mass. When Writing Mention Florists' Exchange

PEACH AND PLUM TREES DELIVERY INST.

Edible and dessert quality. All desirable leading varieties of PEACHES, old and new in fruiting orchards. Have the new Pringle, Greenharrow, and Saeed fruiting buds can be supplied in season at low rates. Very large stock of PLUM TREE 25 in. all plain roots, one and two years. Buds can be supplied of these also, either from nurseries or orchard trees. Have all the leading Japanese varieties, Abundance, Sunbe, Chaco, etc. A new and improved set of trees also the new Red Japan variety in abundance. Small supply. Write for prices. A. ALEXANDER PULLEN, Millard Nurseries, Millard, De. When Writing Mention Florists' Exchange

CABBAGE AND LETTUCE PLANTS

Cabbage, Early Jersey Wakefield, Charleston Wakefield, New Early and Henderson's Succession. Lettuce, Big Boston, Boston Market, Tennis Ball, White Loose, Grand Rapids and Reeb. \$1.00 per 100; \$1.00 per 1000. If by mail add 10c, per 100. TOMATO.—Lorrillard, 25c. per 100.

Cash with order.

R. VINCENT J. & SON, White Marsh, Md. When Writing Mention Florists' Exchange

HEBIBÆUS PÆNIA.

Spplendid assortment of strong clumps, 25 varieties, \$3.00 per 100; \$70.00 per 1000.

HARDY SHRUBS, HARDY ROSES.

Get our Catalogue and Price List.

W. & T. SMITH CO., Geneva, N. Y.

When Writing Mention Florists' Exchange

OLD COLOR NURSERIES

SURPLUS STOCK.

Beech, European, 5 to 8 ft..... \$25.00 1000 Silver Maple, 10 to 14 ft..... 15.00 Purple-leaved (as seedlings)..... 15.00 Herberis purpurea, 18 to 24 in..... 2.00 1000 Purple-leaved, 12 to 18 in..... 8.00 Elm, Ulmus Americal, 6 to 10 in..... 2.00 Forsythia suspensa, 3 ft..... 5.00 1000 Yellow-blossomed, 12 to 18 in..... 8.00 Privet, (California) 18 to 24 in..... 2.00 Symphoricarpos vulgaris, 15 to 16 ft..... 3.00 Viburnum opulus (tree crab-apple) 10 to 14 ft..... 6.00

T. R. WATSON, Plymouth, Mass. When Writing Mention Florists' Exchange

100,000 PEACH TREES

All Leading Varieties. 8,000 Plum trees. 1,000 Apricots. 10,000 Apple trees will be sold very cheap if you take the rest of our business. 10,000 Norway Maple, imported seedlings, 10 to 14 ft. 1000 Silver Maple, 10 to 14 ft. 500 Norway Maple, 5 to 8 ft. 500 Silver Maple, 10 to 14 ft. 200 Sugar Maple, 10 to 12 ft. 500 American Walnut, 5 to 7 ft. 1000 Ridgely Chestnut, 5 to 7 ft. 1500 American Linden, 10 to 12 ft. 1,000 Norway Spruce, 2 to 3 ft. 1,000 Fish Kill Spruce, 12 to 18 in. 1,000 American Arborvitae, 2 to 3 ft. 1000

E. L. LONGSDORF, OAK HILL NURSERIES, Flora Hill, Adams Co., Pa. When Writing Mention Florists' Exchange

# BEGONIAS

**FACTS.** The plants are strong, rapid growers. They are easily handled in all stages of growth. The two varieties offered are very readily propagated. They are not subject to any insect pests. They are free and continuous bloomers for four to six months in the forefront of the year. The bloom-bracts are very durable on plant or in cut sprays. The color is showy and very attractive. Send for **4 FACTS and Comments.**

We offer also stock of both varieties, from 3 inch pots.

**GLABRA (7)** 15 to 30 inches above pots, 4 to 6 shoots. **GLABRA SANDERIANA, 15** to 25 inches above pots, 6 to 8 shoots. Price, \$50.00 per 100; 5 plants at 100 rates.

The above plants can be safely shipped by freight to points within the District of Columbia.

We mail 4 nice branched plants of either variety, from 2 1/2 in. pots, for \$1.00, or 12 for \$3.50.

**CASH WITH ORDER. THEO. F. BECKETT, Glenfield, Pa.** NEVILLE ISLAND, 9 miles below Pittsburg, Pa.

When Writing Mention Florists' Exchange

## EARLIEST CHRYSANTHEMUMS

Mme. Gastillion and Marquis de Montmort. Blooms cut Sep. 20th and 27th. 25c each.

**A. D. ROSE, 200 West Side Avenue, New York City.**

When Writing Mention Florists' Exchange

## PRINOLA OBSCURA

Very fine plants, some in bloom, 3 in. pots. \$5.00

Begonia Rex, 10 vars., 3 in. line. 5.00

Crimson Giganteum, 2 in. 4.00

Call Californian Daisy, strong, 3 in. line for winter. 5.00

Heiploter, Lemonia's Brilliant, strong, bushy, 3 inch. Immense. 4.00

Begonia. Rooted Cuttings. Huntington, the best Begonia. 2 in. 2.50

Metallica, alba picta, etc. 1.50

**WILL SELL, MUST HAVE ROOM.**

5,600 SMILAX, strong and thrifty, 2 in. pots, \$1.00 per 100; \$9.00 per 1000.

**GEORGE J. HUGHES, Berlin, N. J.**

When Writing Mention Florists' Exchange

**CARNATIONS**—Field-grown, strong and healthy. Wm. Scott, Mrs. Fisher, Fortia, Hinesville, White, L. A. Morrison, Mrs. E. Friedman, C. W. Adams, White, Mrs. E. Friedman, Silver Spray, 4 in. pots. Our selection in good stock. \$1.00 per 100.

**VIOLET CLEMPS**—Field-grown. Marie Louise, Swamy White, K. Barrett, California Yellow, and Campbell, 8 in. 4 in. pots. \$1.00 per 100.

**REX BEGONIA**—12 varieties, labeled, 2 in. pots. \$1.00 per 100.

**FUCHSIA**—Mrs. E. G. Hill, White Giant and 25 other desirable sorts, etrowe plants, 2 1/2 in. pots, \$1.00 per 100.

**GERANIUMS**—5 varieties, 2 1/2 in. pots, strong well-grown plants, labeled, \$2.00 per 100; \$20.00 per 1000.

**PAH LANTIA BORNICANA**—2 1/2 in. 4 in. pots \$1.00 to 1 1/2. \$5.00 per 100.

**GERVILLIA ROBUSTA**—2 in. pots. \$2.00

**CHRYSANTHEMUMS**—Single stem plants, well-grown, 4 varieties, in 3 in. pots \$1.00 per 100.

**RUBBER PLANTS**—Becoming plants, leaves glossy, neat, heavy, 7 in. pots, 4 in. \$2.00 per 100. Satisfaction guaranteed.

**A. B. DAVIS & SON, Purcellville, Va.**

When Writing Mention Florists' Exchange

## ROOTED CUTTINGS OF THE NEW GERANIUM Mme. BRUNOT Ready Now.

I am able to prepare a beautiful and distinct variety now by the hundred and thousand. No one has ever before offered this variety. Order at once. The flower plant novelty of the year. Order at once. 100 cuttings, 3 in. pots, \$1.00 per 100; \$10.00 per 1000; by mail, \$5.00 per 100; by express, \$5.00 per 1000.

**1000 VARIATED VINCAS** strong well-grown plants, 2 1/2 in. pots. \$2.00 per 100.

**FRED. SCHNEIDER, 751 Crawford Rd., Cleveland, O.**

When Writing Mention Florists' Exchange

## ROOTED CUTTINGS. Begonia Rex, Mrs. Pollock Silver Leaf Geraniums, see last issue Florists' Exchange.

## COLEUS

Per 1000, \$5.00.

Terms Cash or C. O. D.

**W. G. ROSSBACH, Watertown, N. Y.**

When Writing Mention Florists' Exchange

## BEGONIAS

Therapsotis, extra fine, 3 1/2 inch. 40	\$7	40 to 50	\$6
A. Gautiana, extra fine, 3 1/2 inch. 40	\$8	40 to 50	\$6
Obita, extra fine, 3 1/2 inch. 40	\$9	40 to 50	\$6
Frees, extra fine, 3 1/2 inch. 40	\$9	40 to 50	\$6
Abella, extra fine, 3 1/2 inch. 40	\$9	40 to 50	\$6
W. J. Lestrade, extra fine, 3 1/2 inch. 40	\$9	40 to 50	\$6
Alba Picta, Var. Ferni, extra fine, 3 1/2 inch. 40	\$9	40 to 50	\$6
3 1/2 in. pots, 60 per cent. 4 in. pots, 50 per cent.			

**A. J. BALDWIN, Newark, Ohio.**

When Writing Mention Florists' Exchange

## CHINESE PRIMROSE PLANTS.

Primula chinensis imbricata, extra strong plants, from 2 1/2 inch pots, unique varieties, in separate lots of 100 cuttings, \$10.00 per 100. Double Primula, white and red, \$4.00 per 100. Double Primula, from the finest Dutch and German strains, unsurpassed in size and quality \$1.00 per 100 cuttings.

**PAUL WADER, East Stroudsburg, Pa.**

When Writing Mention Florists' Exchange

## PRIMROSES, VIOLETS, GERANIUMS.

I still have a few brids and bridesmaid Hesses out of 3 in. pots, at \$1.00 per 100. Nice plants on Dellot, out of 2 in. pots, \$1.00 per 100. Extra line, at \$5.00 per 100. Primroses, October delivery, \$1.00 per 100 out of 2 in. pots. \$2.00 per 100. Double Primula, white and red, \$4.00 per 100. Place your orders now for rooted cuttings of Primroses, \$1.00 per 100, \$10.00 per 1000, and get good strong stock.

## GEO. M. ENMANS, Newton, N. J.

## MUSHROOM SPAWN

Fresh stock just arrived, \$7.50 per 100 lbs.

**FANSY PLANTS.** Fine strain, 60 cts. per 100.

**CERYSANTHEMUMS.** Finest mixed variety, 5 in. pots, \$6.00 per 100.

## WHITTON & SONS, Wholesale Florists, City and Green Sts., Utica, N. Y.

## PEARLGRASSES victor, and other good

Albana, Henderson, 2 in. pots, \$3.00 per 100. Altona, Henderson, 2 in. pots, \$3.00 per 100. Stigmatisa Emiliata, 2 in. pots, \$3.00 per 100. Lotus Perichlyris 3 in. pots, 60c. per 100. **CASH WITH ORDER.** Address **JOHN G. EBBEL, Philadelphia, Pa.**

## 20th & Ontario Sts. PHILADELPHIA, Pa.

## 5000 M. Louise Violets..... 2.00

5000 M. Louise Violets, second 2.00

5000 M. Louise Violets, per 100 200

2000 Carnations 4.00

2000 Snow Crest Daisy, fine for 4.00

1000 California Violets, 5.00

1000 Rex Begonias, 2 in. pots, 4.00

1000 Chocarrua 3 in. pots, 5.00

1000 White Sticks 2 in. pots, 4.00

1000 Mignonette (Allen's Defiance), 2 in. pots, 2.00

# Disinfecting the Soil.

Plants that were housed during the latter part of August and first week of September have been damaged by numerous small weeds, just large enough to handle. These could be removed by pulling or turning to the depth of an inch or so. If we do not advocate the frequent stirring of the surface soil, it is because of the fact that the soil beneath the surface soil will be filled with hundreds of small roots; these are really the feeters of the plant, and a plant does not get to work right until they are well established. Before this takes place we always make it a point to give some dressing of pure ground bone, and work it thoroughly into the soil to the depth of about one inch, immediately after the laying of the surface soil (the surface of the plant). To go as deep as that just about the stem would mean the destruction of many of our young roots. Here the bone meal should be worked in very lightly. Some may feel inclined to ask why I consider a top dressing of bone necessary or advisable, inasmuch as the soil is supposed to contain already a certain amount of bone? To this I would say that we must remember that the carnation is, under proper circumstances, a heavy root and bloomer, or at all events, it is our aim to have it such; and in order to attain this result we must give it the soil, rather than the temperature judiciously, and observe the hundred and one little odd and untold details that enter into any plant, but we must look ahead and see to it that that one inch except the soil of the soil at all times, and in the right proportion for the maintenance of the plants.

It is a question of drainage of the soil to liquid form so that it and the nitrogen in it will be carried by the soil and required for a couple of months to nourish the plants properly, we may know that as soon as a carnation requires an extra supply, we can give it.

But with phosphoric acid it is different. Phosphoric acid can be carried in this in its bone meal; and since it is quite impractical to apply it at different times, it is better to use it once, and the welfare of the plants at heart, a sufficient supply must be given before any harm will be done by undisturbing the roots.

There is more likelihood of underestimating the amount of carnation in regard to bone or phosphoric acid than of overdoing it. For a bench 3 1/2 feet wide and 10 feet long, there is a good supply of pallid of bone meal which is a little more than two gallons. If the soil does not already contain a goodly portion, I would advise to increase this amount by one-half. The soil should be thoroughly watered before season, so that it will not remain dry too long at a time; in fact, it should be kept rather moist when it is hot, either by watering, or by burning, or otherwise, which will be in a few days.

When this is done, the foundation for a good crop of flowers is laid. The ability of a soil to produce a lot of flowers, and success depends mainly on the supply of phosphoric acid it has to draw upon. It is this element that the plants use to form buds and blooms, while potash gives structure and color, and nitrogen gives them dependant on the other, and success must hang upon them all.

I have before advertised salt water, used as a spray on the flowers, and the eradication of red spider. I know of no other remedy so effective as this to destroy red spider on the flowers and the hold. A few applications will cure the worst attacks. Where several applications are necessary, let them be one week, ten, or twelve days apart; and during winter, a longer interval should be allowed. Use as much salt water as the hand will hold when about three-fourths of the flowers are covered with water; or there are many other uses for it, etc. Care should be taken to spray the plants thoroughly with water after each application, so as the top, so that no places be left where the spider may retreat and be comfortable. The salt water after being used will crystallize again on the plants, and remain some time, and be a complete barrier to the spider. After using it, work down in the hearts of the shoots and must be reached in some

other way, either by fumigation or otherwise.

This would be an excellent time to clean plants of spider, while there is still some of sunshine and the plants are small, admitting of more thorough and complete work. I am aware that when the carnation is treated properly, the conditions surrounding the plants are not such as would induce spider to develop, or to take on the condition better than cure. But if the plants are already infested with spider, these will either locate, or not locate, but will be tolerable for carnations.

I have also found the salt water spray the best remedy for sunles we have tried. The small a version to salt in any form, well known; and it can be relied upon for the destruction of pest, at a safe distance as long as any salt remains on the plants.

No fears need be entertained in regard to using salt in this manner, as the plants seem rather to like than dislike it. The good effects they seem to derive from its use is doubtless due to the percentage of potash the salt contains. With proper ventilation the development of spot, etc., from the use of salt need not be feared.

H. WENZEL.

## FIELD-GROW CARNATIONS

Good, strong, healthy plants. Write for best remedy for sunles we have tried.

**LOGAN AYR, GREENHOUSES, Danville, Ill.**

When Writing Mention Florists' Exchange

## FIELD-GROW CARNATIONS

McGowan, Scott, Daybreak, Fortia, Eldorado, Buttercup, A. Webb, Louise, Kitty Clover. Good healthy plants, \$1.00 per 100; \$5.00 per 1000.

## HERRO & STRATTON, DEAN, N. Y.

## 50,000 FIELD-GROWN CARNATION PLANTS

50,000 Field-Grown, \$4.00 per 100.
LIZZIE MCGOWAN..... 4.00
MIZZIE CLERBERT..... 4.00
PORTIA HANKS..... 3.00
DAYBREAK..... 3.00
W. H. PURCELLVILLE..... 3.00
Rogers Park Flor Co., 41 Wabash Chicago, Ill.

When Writing Mention Florists' Exchange

## CARNATIONS.

Field-grown Scott, McGowan, Fortia and Rose Queen, \$1.00 per 100; \$5.00 per 1000. Daybreak and Wm. Scott, \$1.00 per 100; \$5.00 per 1000.

GERANIUMS Rooted cuttings of Mme. Brunot and Mrs. Pollock Silver, \$1.00 per 100.

VINCAS FIELD-GROWN, \$3.00 per 100.

**THE F. R. WILLIAMS CO., 334 Erie Street, CLEVELAND, O.**

When Writing Mention Florists' Exchange

## CARNATIONS

F. DORNER & SONS CO., La Fayette, Ind.

When Writing Mention Florists' Exchange

## CARNATIONS

Eldorado, Capt. Jack, Louise, Luis Haettel, Fortia, Helen Keller, Scott, Puritan, Thus, etc., 100 per 100; \$5.00 per 1000.

**R. H. MURPHY, - Urbana, Ohio.**

When Writing Mention Florists' Exchange

## SURPLUS STOCK CARNATIONS

2000 Wm. Scott, 1000 Uncle John. At \$5.00 per 100. Fine Plants. No rust.

## 4000 FIELD-ROSE GROWN ROSES

15 to 20 inches, at 6 cents each.

Bride, Heidenmaid, La France, K. A. Victoria and White La France.

**JOY & SON, Nashville, Tenn.**

When Writing Mention Florists' Exchange

**SMILAX AND CARNATIONS.**  
 10,000 Smilax, extra strong, 2 in. pots, \$3.00 per 100; \$15.00 per 1000.  
 5000 Carnations, field-grown, 10 best foreign sorts, price "way down" on application.  
 W. T. & F. B. PUTZ, New Castle, Pa.  
 Successors to PAUL BETZ & SON.  
 When Writing Mention Florists' Exchange

**FIELD-GROWN CARNATIONS.**  
 Strong, healthy plants from field, of the following varieties: Scott, Gaylord, Daybreak, McGowan, Minnie Cook, Alaska.  
 Send at once for prices before stock is exhausted.  
 H. D. ROHRER, Box 344, LANCASTER, PA.  
 When Writing Mention Florists' Exchange

**MORELLO**  
 Field-Grown, at \$1.50 per dozen; \$10.00 per 100.  
 HOPP & LEMKE,  
 Paul Post Office, EAST GRAND RAPIDS, MICH.  
 When Writing Mention Florists' Exchange

**CARNATIONS and CYCLAMEN**  
 CARNATION 95—First-class field-grown plants from Scott, Alaska, McGowan, Portia, Tidal Wave, E. Peterson, 48 per 100; 450 per 1000. In flower. Magnificent. Borden's, \$7 per 100; 700 per 1000. Buttercup, 48 per 100.  
 CYCLAMEN PERUICUM GIGANTEUM from 3/4 in. pots, 40 per 100; 3 in. pots, 48 per 100.  
 J. C. BURROW, Agent, Fishkill, N. Y.  
 When Writing Mention Florists' Exchange

**SURPLUS CARNATIONS**  
 1000 DAYBREAK.  
 1000 LIZZIE MCGOWAN.  
 Fine, bushy plants, at \$4 per 100. Terms Cash.  
 CHAS. E. SMITH, York, Pa.  
 When Writing Mention Florists' Exchange

**H. WEBER & SONS, CARNATIONS, OAKLAND, MD.**  
 When Writing Mention Florists' Exchange

**FIELD-GROWN CARNATIONS**  
 5000 McGowan, \$5.00 per 100.  
 5000 Java's Scarlet, \$3.00 and \$2.00 per 100.  
 5000 ROOTED GERANIUMS  
 La Favorite and Double Grant, \$1.50 per 100.  
**JAHN BROS., New Bedford, Mass.**  
 When Writing Mention Florists' Exchange

**Harrison's White CARNATION.**  
 New Carnation, sport from Wm. Scott.  
**JOHN HARRISON,**  
 739 Bergen Ave., Jersey City, N. J.  
 When Writing Mention Florists' Exchange

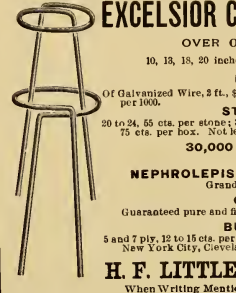
**GRALLERT & CO. CARNATION GROWERS, COLMA, SAN MATEO CAL.**  
 When Writing Mention Florists' Exchange

**FIELD-GROWN CARNATIONS and VIOLETS,**  
 Ready September 16th.  
**JOSEPH RENARD, Unionville, Vt.**  
 When Writing Mention Florists' Exchange

**50,000 FIELD-GROWN CARNATIONS**  
 Strong and healthy plants in quantity now ready for delivery, of the following sorts: William Scott, Rose Queen, Tidal Wave, Nancy Hanks, Portia, Lizzie Gilbert, Corsair, Storm King and Ivory. Price per 100, \$3.00; per 1000, \$25.00. No order for less than 100 accepted. Address:  
**REINBERG BROS., Wholesale Cut Flowers, 51 Wabash Ave., Chicago.**  
 When Writing Mention Florists' Exchange

**4 ACRES FIELD-GROWN CARNATION PLANTS, 94,000.**  
 Our Carnations are grown with the greatest care and are first-class plants, free from disease. We pack light by our improved system of packing by which we can send them to all parts of the United States and Canada in perfect condition.  
**CRIMSON SPORT, IVORY, DEAN HOLE, BUTTERCUP,**  
 \$1.25 per doz.; \$8.00 per 100.  
**BRIDESMAID, ALBERTINE, CHESTER PRIDE, DAYBREAK, NICHOLSON, BRIDE OF ERLSCOURT,**  
 \$1.25 per doz.; \$6.00 per 100.  
**SWEETHEER, SILVER SPRAY, PURITAN, LIZZIE MCGOWAN, PORTIA, WM. SCOTT, MRS. FISHER, MRS. FISHER, ROSALIND, L. L. LAMBOEN, GRACE WILDER,**  
 \$1.00 per doz.; \$5.00 per 100; \$45.00 per 1000.  
**L. L. DILLON, - - - BLOOMSBURG, PA.**  
 When Writing Mention Florists' Exchange

**EXCELSIOR CARNATION SUPPORTS**  
 OVER ONE MILLION IN USE.  
 10, 13, 15, 20 inches high, \$8.00 per 1000; \$1.00 per 100.  
**ROSE STAKES**  
 Of Galvanized Wire, 2 ft., \$5.00 per 1000; 3 ft., \$7.00 per 1000; 4 ft., \$5.00 per 1000.  
**STEMMING WIRE.**  
 20 x 24, 65 cts. per stone; 33 x 36, \$1.50 per stone. 21-22 cut 9 or 12 inches, 75 cts. per ctn. Not less than \$15. at these prices.  
**30,000 PALMS and FERNS.**  
 At the lowest prices.  
**NEPHROLEPIS EXALATA BOSTONIENSIS.**  
 Grand stock from 3c. to 20c. each.  
 Guaranteed pure and true. \$2.00 per 100; \$20.00 per ton. Sample free.  
**BULL DOG HOSE.**  
 5 and 7 ply, 12 to 15 cts. per foot. Send for sample. We can ship hose from our New York City, Cleveland, Chicago, San Francisco or Boston.  
**H. F. LITTLEFIELD, Worcester, Mass.**  
 When Writing Mention Florists' Exchange



**FLORA HILL CARNATION**  
 Field-grown plants of this grand White Carnation, at \$10.00 per 100.  
**CYCLAMENS.**  
 Magnificent plants, in various sized pots, from the finest English strains. \$3.0, \$10.00 and \$12.00 per 100, according to size.  
**E. G. HILL & CO., RICHMOND, IND.**  
 When Writing Mention Florists' Exchange

**CARNATIONS**  
 Field-grown Scott and McGowan, \$3.00 per 100.  
 Chrysanthemum, named varieties, all colors. Fine stock plants, 2 1/2 in. pots, \$7.00 per 100.  
 Cinerarias, Dwarf Hybrids, 2 and 2 1/2 in. pots, very fine strains, \$3.00 per 100.  
 Violets, Campbell clones from field, \$3.00 per 100.  
 Roses, Bridesmaid, 4 in. pots, clean, healthy stock, \$1.00 per 100.  
 English Ivy, large plants from field, \$4.00 per 100. Cash with order.  
**B. F. FRYER,**  
 Berrian St. and New Ave., BROOKLYN, N. Y.  
 When Writing Mention Florists' Exchange

**40,000 Field-Grown Carnations FINE STOCK.**  
 Daybreak, Alaska, Helen Red, Storm King, } at \$6.00 per 100.  
 Wm. Scott, Lizzie McGowan, } at \$5.00 per 100.  
 Portia, Tidal Wave, } at \$6.00 per 100.  
 Anna Webb, Albertine, }  
 Also Mrs. Fisher and Orange Blossom. }  
 Also 2000 Marie Louise Violets, per 100.  
**GEORGE B. WHITEHEAD,**  
 Look Box 116, Greens Farms, Conn.  
 When Writing Mention Florists' Exchange

**40,000 Field-Grown Carnations**  
 Clean, Healthy Stock.  
 1000 100  
 Daybreak..... \$6.00 \$50.00  
 Scott..... 5.00 40.00  
 McGowan, 24 size only, 5.00 25.00  
 Mrs. Fisher..... 5.00 40.00  
 Portia..... 5.00 40.00  
 Tidal Wave..... 5.00 40.00  
 Anna Webb..... 5.00 45.00  
 Second Size Plants, 80 cts. per 100; \$35.00 per 1000.  
**M. LOUISE VIOLETS, PAGE 98B.**  
**EDW. J. TAYLOR, Southport, Conn.**  
 When Writing Mention Florists' Exchange

**FIELD-GROWN CARNATIONS IN PERFECT HEALTH.**  
 1400 Alaska, small..... \$25.00  
 300 Portia, good..... 40.00  
 300 Portia, small..... 25.00  
 2000 Minnie Cook, good..... 35.00  
 200 Minnie Cook, small..... 25.00  
 10000 Fisher, good..... 30.00  
 300 Scott, small..... 25.00  
**C. STRAUSS & CO., Washington, D.C.**  
 When Writing Mention Florists' Exchange

**CARNATION STAKE!**  
 THIS STAKE is made of wire, No. 12, galvanized neatly packed in bunches of 50, for the field or on benches. It is easily worked about, more quickly applied than anything we know of. Sample 100, \$1.50. Write for prices on large quantities. We will exchange for Scott & McGowan plants.  
**MYERS BROS.,**  
 Florists,  
 ALTOONA, PA.  
 When Writing Mention Florists' Exchange



**30,000 CARNATIONS**  
 Field-grown, fine, bushy, healthy plants. No buds on them. . . .  
**WELL-GROWN PLANTS. CHEAP FOR CASH.**  
 Alaska, Silver Spray, Hector, Tidal Wave, Portia, L. McGowan, Wm. Scott, Meteor, Daisy Bell, Helen Keller, Mrs. Fisher, Minnie Cook, T. Cardigan, Helen Keller, E. Edwards, A. Lombard, Puritan, Daybreak.  
 1st size, each with order, \$5.00 per 100  
 2d " " " " " " 3.00  
 Peach Blow, Emma Wacher, Jubilee, Della Fox, Yellow Jacket, Trumps.  
 1st size, \$7.00 per 100  
 2d " " " " " " 5.00  
 I study to please every patron and pack carefully in light boxes. I guarantee entire satisfaction and big value for the money. We have three express companies, Adams, American and United States.  
**CHAS. T. SIEBERT, 214 B, Pittsburg, Pa.**  
 When Writing Mention Florists' Exchange

**FIELD-GROWN CARNATIONS!**  
 Kitty Clover, Lois C. Haettel, Portia, Dr. Warder, Nellie Big, Princess Borden, \$4 per 100.  
**Faughar Violets,** strong, healthy runners that will bloom the Winter, at \$3.00 a 100.  
**Begonia Rex,** 12 varieties, \$3.00 per 100.  
**WM. H. SEARCH, Avondale, Chester Co. Pa.**  
 When Writing Mention Florists' Exchange

**CARNATIONS**  
 Clean, healthy, field-grown stock at \$4.00 per 100; Daybreak, Silver Spray, Rose Queen, Garfield and Portia.

**VIOLETS**  
 Marie Louise and California, strong, healthy well established plants from 4 in. pots, at \$4.00 per 100. Field-grown California, at \$5.00 per 100. Samples mailed on receipt of 10 cts. to cover postage.  
**L. L. MAY & CO., St. Paul, Minn.**  
 When Writing Mention Florists' Exchange

**FIELD-GROWN CARNATIONS**  
**MAYOR PINGREE**  
 \$100.00 per 100.  
**JOHN BREITMEYER & SONS, DETROIT, MICH.**  
 When Writing Mention Florists' Exchange

## FLORIFEROUS VEGETABLE.

Insertion will be accepted in this column to all communications free from animus, but the opinions expressed do not necessarily reflect our own.

### Selections of Sweet Peas.

Editor Florists' Exchange.

The answer of the selection committee of the Hampden County (Springfield, Mass.) Horticultural Society adds a new phase to the discussion. It is therein stated that they were to select "for the best variety of shades in twelve colors and those mostly easily grown to perfection." This proposition was not mentioned in the original announcement, or it would have put a different face on the matter. We were first led to think that it was the varieties that were selected as being the best for general culture, but now it is the shades. Well, let us examine the matter from the committee's point of view—shades for general culture.

The following we will agree are the best of their shades: Aurora, salmon-pink stripes; Pearl and Purples; White; New Continent; grand-lavender; golden-cream; lemon; Lovely; light pink; Maid of Honor; white, edged with violet; Royal Rose, rose; Stanley, raisin.

We disagree as to the following being the best other shades: Mar, we examine their kinds: Firefly, Her Majesty, Venus, and Blanche Ferry.

Firefly is a true type, has the "damning" notch, and is small in flower, and will not stand the sun anywhere. Her Majesty is a true type. Mar, we think is better, both being of grandiora type, of good substance, large flowers and not too black in color, because it blackens in the sun, and Brillant because it blackens in the vase. Why are Firefly and Brillant both in black in both places? My experience with Brillant in the vase has been very satisfactory. The petals are very thick and keeping a week under good conditions. I examined Firefly in the gardens of several florists and in those of a number of amateurs, where it received only ordinary culture, and the flowers were the size of a penny, while Mar and Brillant were much larger under the same conditions. Even with my intense system of culture, I cannot get Firefly beyond an inch!

Her Majesty is grandiora, but never attains large size as compared with the introductions of the last several years, and she does not have a better shade of rose and you put in the first two shades in Royal Rose, and why take two shades of rose to put in the first two? If it is a shade of dark pink that is wanted, you have in Prim Donna, and a better one in America Seedlings, which contain several shades of pink.

As to Venus, its shade has been unique until the past season, when the pure apple-blossom America Seedling was first classed it, the latter being a giant flower, with the purest imaginable shadings, and it should be distinguished from Venus and separable. However, when included Venus in my protest, I was under the impression that the shade of the former for form and quality, as Venus is old type, and very small. Then the question of color remains, leaving that of form. Should a fine old colored type, notched, and short-stemmed variety be given place to a new flower of the same color and shade, but which is high-brid, large, and grandiora type?

My opponents either accident or design, in that it can almost be produced at will by hybridizing, but form, and the same expression of color, and shade, and should have the more value on that account.

As to Blanche Ferry, I disagree with the committee most emphatically. It is the time to form the opinion that you need more than one quality to recommend it—carelessness—and next season it will lose

that one, as a new long-tested sweet pea type. We have by no means the earliest firm alongside of it, two the Blanche Ferry, and the former. It is not a color, and not at all floriferous, and has a place only in the garden of the specialist, and for the collector and the aficionado. Its improved prototype, Little Dorrit, bears the same relation to it that the Scotch-broom bears to the Scotch mistle, being of giant size, grandiora, and of pure soft shading, and coming in from the north, where it has been. I have never seen a stand of Blanche Ferry which had 10 per cent. true—one-fifth of those I have seen of Little Dorrit. Out of an ounce of seed purchased from the product of this variety, I have sown 1200, and obtained 1000 pure white wings, which the typical Blanche Ferry should have. My Little Dorrit has been sown in bloom all the season, and this is the first complaint as to its non-floriferousness, that I have had. Neither have I seen a stand of Gray Friar being placed in the "break" list. Put a bunch of it, well grown, and take out the seed alongside any one of either of the sets selected by the committee, except the one I have here, and you will save every-day growers for whom the committee selected, to pass on them, and to one the Gray Friar will be selected as first choice.

I desire to thank the committee for their courtesy in answering my communication, and hope when they are called upon to make a similar selection next year, I will not fail to place before them the modern sweet peas of large size, and grandiora type, to be present, by counsel, to press their claims.

SAM A. HAMILTON.

## The Government Greenhouses.

Editor Florists' Exchange.

Your Washington correspondent, following the lead of Col. Bingham, Commissioner of the Public Buildings and Grounds, misrepresents the purposes of the Washington florists in their effort to secure fair play at the hands of, particularly, the said Col. Bingham.

The florists have no desire to curtail in the slightest the privileges of the President in "distributing his possessions" in the conservatories set aside for his use and pleasure, but they want it understood that they are violently opposed to the distribution of flowers, etc., from the propagating gardens, which have no sort of connection with the White House, excepting that the official head happens to control both, as Commissioner of Public Grounds.

The two establishments are intended to serve a distinct purpose; one is for the use of the President and the decoration of the White House and grounds, the other is for the plants for the decoration of the more public reservations. They are separate and distinct, having sub-heads; one head governs the other, public garden; separate corporate men and separate accounts, and in reality they don't mix even when decorating the White House. There is an explanation of the grounds of the President's curtailed, but we do mean to try to stop the very free distribution of flowers from the conservatories and grounds, which tries to hide behind an imaginary President's orders. It is contrary to the wishes of the commissioner's compliments, and any statement or insinuation to the contrary is wholly untrue. We are not in a hurry, we are afraid of, although Mr. Oliver claims we are "green with envy," etc. On this point, Col. Oliver, in his published interview Col. Bingham says:

We do not raise the kind of flowers that are used in the conservatories for decorative purposes; we do not grow roses of any great extent, nor are our

roses of such unusual beauty as to be in great demand outside of the conservatory, they "take the cake" with chrysanthemums. And why should they not be in great demand elsewhere? What is their back? Mr. Charles F. Hale grew the finest specimens of chrysanthemums ever grown in America, but because he could not afford to continue, as the government products were cheaper and more plentiful, he was obliged to demand for their products that are not so good, we all know how the price advanced. He has been quoted, or has almost any article in the estimation of a vast number of people. The bargain was not made on a large scale, it was much more so it is the case when "the whiskey cost nothing."

Each dollar spent by the office of public buildings and grounds for the production of roses (three or four houses), carnations (three or four houses), chrysanthemums grown in large pots for cutting, thousands upon thousands, is not a trifle of any sort, azaleas, poinsettias, etc., etc., at the propagating gardens, is diverted from its legitimate purposes, and, consequently, is misapplied greatly to our detriment.

We go farther than Mr. Oliver and state emphatically that so far as the amount appropriated for the conservatories there is not one dollar appropriated for the production of cut flowers, so far as this particular plant is concerned. I am glad Mr. Oliver published the extract from the law, and will add that we are perfectly well satisfied by his interpretation of that very clause. If by way, this amendment was secured by just such an amount of money, the heads of the lists kept quiet they will, many of them, soon be looking for a soft government position, without any idea of any satisfaction, to the fact that "Congress approves of our administration as well as our administration," in our last session it made an appropriation giving us an additional greenhouse.

Why do not many of our Congressmen have never stopped to investigate from what source these flowers are produced? Why do not some of our Congressmen have had the temerity to vote money for another greenhouse to benefit for supplying the conservatories with flowers, in this long-established custom?

And others, may have undermined the natural inclination of some who have come to the conclusion that whatever can be had at government expense, is acceptable and desirable. Why are not the quartermaster of the United States army fed and clothed these people and take in their stride, while they are to be paid as much right to do this as they have to distribute flowers?

If Professor Goway could extend his field of usefulness by "letting loose his bugs and germ diseases" in several more underground greenhouses, he would put the florists of the District of Columbia under additional obligations to him.

As a matter of simple justice, it is said that probably the Department of Agriculture, by its conservatories and of late years in the matter of distributing decorative plants and flowers than give the conservatories the credit and have good reason to believe, that this conservative policy will be continued; and if there were sufficient funds available where the Commissioner of Public Buildings and Grounds has directly interfered with the purchase of thousands of plants by supplying gratis to individuals, churches, etc., that which would otherwise be purchased from the conservatories, why should we not indulge in a display of "ill feeling" against the system? It would like to see what the donor of the U. S. Philadelphia, or any other city, would do if the Superintendent of Public Buildings and Grounds should attempt to distribute regularly, flowers to members of the Legislature and people of the State by the office in charge. Herein assertions is the head and front of his office.

In connection I will remind those who are responsible for, or defend this unreasoning and wasteful method of distributing the fruits of the old-fable of the boys and the frog, and in for the loss of our life it is death to us." J. R. FREEMAN.

## Fire Insurance Committee.

The fire insurance committee appointed at the recent convention at Providence, Rhode Island, are commencing their work. The florists of America who desire fire insurance to signify their approval of a national fire insurance organization, and who insure they would expect to take if the organization were effected, are being asked to indicate, by filling out and returning to the committee, what amount of insurance would be taken by many firms, to the aggregating of the sum over a quarter million dollars to date.

The committee are very much discouraged at such an outlook, as we had every reason to believe that we would have a million dollars of applications in less than two weeks from the time we began asking for the support of those who really wanted a fire insurance concern. It is true that all who have written have been thoroughly enthusiastic upon the subject, and a great many have urged us to go on, saying they would make application as soon as the organization was effected; but we believe that there are hundreds of florists who are anxious to have this association organized but who think it is not necessary for them to do so. For this reason, the advisory committee will carry in this regard, that they positively cannot go ahead until they have received a million dollars worth of insurance pledged. We cannot organize until such an amount is organized, and it is the duty of every florist who wishes this association to be organized among the florists of this time we began asking him to support it if it is organized. Individually, the committee are not particular to the amount of insurance, except for the general good of the trade, for it means a great deal of work and hard work, but we believe it can be fairly on its feet and in working order.

If we are to organize, we should do so on a national basis. We would like the minds of those who are interested, and we trust that to one in sympathy with this enterprise. We are offering a dollar of support to one of the undersigned committee by return mail. Do not delay, as the time is fast passing. Write to the member of the committee who is nearest you, or to the following: H. M. SAWYER, 1620 Olive street, St. Louis, Mo.; J. W. VESLEY, Fort Wayne, Ind.; J. G. ESLEY, Saddle River, N. J.; SCHWERTZ, Annapolis, Md.; L. M. PATTEN, Essexbury Centre, Mass.

## Chrysanthemum Society of America.

The committees judging new seedlings will be in session October 2, 5, 10, 15, and 20; November 6, 13, 20, and 27. Exhibitors should make their entries for which a fee of \$2 is charged for each variety exhibited to the secretary not later than Tuesday of the week the exhibition opens. For full particulars of the exhibition, write to the following addresses, express prepaid, will be completed, October 21 at New York:

BOSTON—A. H. FEWKES, Horticultural Hall.  
 CHICAGO—Eugene Baildousse, care of Dr. F. M. Hexamer, Madison Square Garden.  
 NEW YORK—Edwin Lonsdale, 1514 Chestnut street.  
 PHOENIX—B. W. Wintersteater, corner Fifth and Broadway.  
 PITTSBURGH—E. G. RICHARDS.  
 CHICAGO—W. N. RIDD, room 202, 185 Dearborn street.

SILVER CUP.

The Chrysanthemum Society's Silver Cup will be awarded to the grower who has secured the best six varieties, six blooms each (36 blooms). The first cup will be competed for on the 21st of August. Competitors should forward their blooms to Dr. F. M. Hexamer, Madison Square Garden, New York, express prepaid. Competition is open to all. No entry fee. Those desiring further particulars, please apply to Dr. F. M. Hexamer, Secretary, Adriaan, Mich.

75 Cents  
per 100 lbs.

Must Be Fresh Not Dried Up.  
Buy the Best Always.

BALES WEIGH  
450 lbs. each.

H. A. STOOTHOFF, 315 Madison Ave., N. Y. City









### Exclusively a Trade Paper.

Entered at New York Post Office as Second Class Matter

Published Every Saturday by

M. T. DE LA MARE PT. AND PUB. CO. LTD.,

2, 4, 6, 8 Duane St., New York.

P. O. Box, 1697. Telephone 2154 Cortlandt

REGISTERED CABLE ADDRESS:  
(Commercial Cable) Flores, New York.

#### SUBSCRIPTIONS:

\$1.00 per year to United States, Canada and Mexico. \$2.00 per year to foreign countries, sent in postal union. Payable in advance. New subscribers will communicate with the first number after receipt unless otherwise stated. Back numbers can not be supplied when wanted.

The date on address label above when the subscription expires and in the subscriber's receipt. No other receipts are sent.

#### ADVERTISEMENTS:

Copy must reach this office not later than Thursday in order to secure insertion in issue of the following Saturday.  
Rate, \$1.00 per line. Special positions for accounts on contracts of one month or longer.

Orders from unknown parties must be accompanied by cash or satisfactory references.

### Exclusively a Trade Paper.

THE FLORISTS' EXCHANGE is published in the interests of those commercially identified with the Florist, Seed and Nursery business. New subscribers are requested to enclose business card or other proof of their connection with these trades.

### BOOKS.

Send for our catalogue of horticultural books, just off the press. It contains all the leading publications in this line.

### BINDERS.

We have for sale two styles of covers for preserving the copies of the FLORISTS' EXCHANGE. Price, full cloth, 45c; price, cloth, with leather back and corners, 75c.

### Subscribers

Should give notices to the publishers at the end of their time. If they do not wish to continue taking paper, otherwise it is continued and payment exacted.

### Contents.

AMERICAN INSTITUTE SHOW . . .	839
BOOKS RECEIVED . . .	838
CARNATIONS . . .	838
CHRYSANTHEMUM SOCIETY OF AMERICA . . .	862
GENERAL INTERESTS . . .	834
COMING EXHIBITIONS . . .	884
CORRESPONDENCE . . .	822
FIRE INSURANCE . . .	883-886
GREENS . . .	837
James Cocker . . .	837
REPORTS ON CURRENT TOPICS . . .	876
SEED TRADE REFLECTIONS . . .	878
SPECIAL ENTITIES . . .	881
TRADE NOTES:	
Philadelphia, Providence . . .	879
New York . . .	882
Cincinnati, Knoxville, Tenn. . .	839
Boston, Cleveland, Pittsburg, St. Louis, Springfield, Ill., Trenton, N. J. . .	889
Washington . . .	882
Baltimore, Chicago . . .	886

### For the Busy Man.

Read the chroular letter of the Fire Insurance Committee on page 889.

Our next edition will be published next week. Look out for it; it will be a bumper.

Another wholesale cut flower commission house has been started in Philadelphia.

A list of the dates when the committee of the Chrysanthemum Society of America meet is given on page 882.

The Pfitzer & Mandl sale occurs next week. Plans in search of the class of goods to be sold should make it a point to attend.

Plants for Name.—(Hastingsck)—1. *Lathyrus pycnostachya* (Blackening Star).  
2. *Androsanthus* (Spring Star).  
3. *Geranium (Lady's Tresses)*. Please send fresh specimens of Nos. 2, 4, and 6, if possible.

### Special Edition Next Week.

Next week we shall publish "an edition that will prove of incalculable value to the majority of growers throughout the country."

The subjects to be discussed in this edition are the most common diseases of the rose, carnation, chrysanthemum, geranium and carnation. The illustrations of these diseases will be given in simple language by Professor Halsted, of New Jersey Agricultural Experiment Station; Professor Arthur, of Purdue University; Mr. Albert F. Woods, of the Division of Horticulture, U. S. Department of Agriculture, Washington, and others. Several fibrations of the results of a special investigation are provided, the object being to furnish to the general grower a handy means of identification of the various pests. We also will publish remedies that have proven successful in preventing, checking, and eradicating these diseases.

In addition to the foregoing, the issue will be illustrated by reproductions of several spots of a more or less humorous nature, taken from the late convention at Providence, showing excursions at the traps, etc., taken in the convention hall, etc.

There will also be given the opinions of several experts on that all-important subject, the manuring or feeding of roses. It will also contain a full and complete recapitulation of a description of the process of fumigating with hydrocyanic acid gas, and will be accompanied by suitable illustrations.

Our readers will therefore see that a great deal of money has been spent for them; and they, in turn, could confer no greater benefit on their fellow-craftsmen than to inform all such of the good things that the next week's issue will contain, and to encourage them to subscribe, or who may become at once, subscribers to the EXCHANGE.

### Fire Insurance.

From a communication received from the Fire Insurance Committee appointed at the Providence convention of the S. A. F. A. O. H., which we print elsewhere, it appears that the reports that were made with that hearty response to their appeal that was anticipated. Not a quarter of the amount of money which the committee to go ahead has been pledged.

It takes a million dollars to set this thing going and it will cost a million more, if not more, to get it done.

We are somewhat astonished at this result for the time being. We are, however, inclined to the belief that the matter has not received the attention to which its significance and its entitles, from those most vitally interested—and that includes every one owning or renting a house. We are, however, inclined to the belief that the matter has not received the attention to which its significance and its entitles, from those most vitally interested—and that includes every one owning or renting a house.

Half-stories and fire are two of the most destructive agencies with which the florist has to contend. He, therefore, needs means to secure themselves against the ravages of both should be encouraged and taken advantage of. The history of the Hall Association is a brilliant example of the triumph of optimism, keen insight and hard work over pessimism, narrow mindedness, and apathy.

Who, that has suffered from the ruthless hand of the fire, has not heard and who takes refuge under the compensating wings of the Association, has not blessed the day that such an organization was established and perfected? There are those who are inclined to the belief of success attended the institution and working of a fire insurance company. For a number of years the history of the latter, in that while we cannot control the elements, prevention and care of fire is a matter of our own choice. This is a contingency for which one would hardly look in a body of business men, and so a great many of our florists of America. Fear of incendiarism might deter many from joining; but under the leadership of the Association, we found the admission of a concern or firm

into the association, this fear is groundless, and the probabilities of self-inflicted incendiarism would not be one in five hundred.

It should be borne in mind, too, that this Fire Insurance Committee is not working for the benefit of any one particular matter; but for the general good. That being so, and if the trade desires such a benefit, it is its duty to contribute. The committee is entitled to your support. Let them have it.

### Reflections on Current Topics.

The trading stamp scheme has reached the florists' stores in provincial towns. The florists' stores are in a very bad boom business and please customers, being like a gigantic and irresistible force. The florists' stores are in a very bad boom business and please customers, being like a gigantic and irresistible force. The florists' stores are in a very bad boom business and please customers, being like a gigantic and irresistible force. The florists' stores are in a very bad boom business and please customers, being like a gigantic and irresistible force.

The other day I came across the under-noted tribute to the business ability of one of our leading seedsmen, who strikes me as well worth repeating here: Charles Austin Bates, an authority on direct sowing, in a recent issue of *Printers Ink*. "Hundreds of men have paid me for geraniums and carnations," he said, "but one was a dissatisfied, and that one was Mr. A. B. Surpe, the seedman. He was unhappy, but I did not hear of any serious fault in his advertising. I had a lot of trouble in his advertisement. It is something that is something to know your work is above criticism."

Advertising is a necessary annual expenditure as the payment of taxes or rent. Some small seedsmen argue that the florists' stores are in a very bad boom business and please customers, being like a gigantic and irresistible force.

"Now that some papers and magazines do not give credit for advertising, it is fraudulent or grossly exaggerated character, the confidence of readers in such advertising is being lost. It is time to realize that a good thing is worth advertising, and thus, making more sales, instead of increasing advertising actuals, reduces the cost of the goods. It is appropriate to quote the well-considered advice of the *Printers Ink* Bulletin: 'Franklin—My son, deal with men who advertise.' Verily, Surpe."

The florists' stores are in a very bad boom business and please customers, being like a gigantic and irresistible force. The florists' stores are in a very bad boom business and please customers, being like a gigantic and irresistible force. The florists' stores are in a very bad boom business and please customers, being like a gigantic and irresistible force.

On October 21, when the competition for the Society's cup will be sure to draw a crowd of chrysanthemum enthusiasts. The quality of the chrysanthemum exhibition of the Society is of itself insufficient to beget a crowd of enthusiasts. The quality of the chrysanthemum exhibition of the Society is of itself insufficient to beget a crowd of enthusiasts. The quality of the chrysanthemum exhibition of the Society is of itself insufficient to beget a crowd of enthusiasts.

### New York.

At last New York will have another botanical garden, which it is hoped will be a great success. The quality of the chrysanthemum exhibition of the Society is of itself insufficient to beget a crowd of enthusiasts. The quality of the chrysanthemum exhibition of the Society is of itself insufficient to beget a crowd of enthusiasts.

### Wholesale Market.

Business Saturday and Monday was very good, but since then it has fallen to less than half the volume of the previous week. The quality of the chrysanthemum exhibition of the Society is of itself insufficient to beget a crowd of enthusiasts.

Carnations were in heavy demand at the end of the week, selling out at \$1.25 to \$1.50 per 100. Since then inferior grades have accumulated, and the price has fallen to \$1.00 per 100. The quality of the chrysanthemum exhibition of the Society is of itself insufficient to beget a crowd of enthusiasts.

Cattleyas are selling fairly well, considering the number now arriving; first grade \$1.00 per 100, second grade 75c per 100, and damaged flowers, 20c to 30c; that is if they are fit to be used.

Victors are being asked for by the trade, but are yet very irregular in supply; the quality is also poor. The best variety realizes 50c, but more are sold at between 50c and 65c per 100. Dahlias are in better demand, and realize 1.00 per 100, and three buds, 25c.

Chrysanthemums, *Marysue* de Montaigne, *Bergmann*, *Lady Fitzgibbon* and *Gasteller* are quite numerous. The first named brings 1.00 per 100, the second 75c per 100, the third 50c, and the fourth 25c per 100. The quality of the chrysanthemum exhibition of the Society is of itself insufficient to beget a crowd of enthusiasts.

### The American Institute Show.

Next week's features of American Institute Fair at Madison square will be foliage and ornamental plants, orchids, hot-house grapes, fruit of various kinds, and a number of other things. The quality of the chrysanthemum exhibition of the Society is of itself insufficient to beget a crowd of enthusiasts.

### Visitors.

Mr. and Mrs. Halliday, Baltimore, Md.; J. B. Tully, Binghamton, N. Y., who was seeing his daughter off to Europe, and a number of other visitors visited the Dahlia Show. He is now studying that flower, claiming that there is an era of popularity in store for it.

R. M. Gardner & Co., horticultural advertiser, Fair at Madison square, has given up business at that stand. Cleary & Co., will have a large consignment of Dutch and English flowers, St. Albans, England, and will sell on October 15. The catalogue to hand enclosed in this issue, lists a number of established plants.

Index to Advertisers.

**Aquatics**  
Fairview Floral Co. 883

**Aquaria Supplies**  
Koman's Seed Store 886

**Asparagus**  
Anna H. 884  
Elliott Wm H. 884  
MacDonn A. 884  
Merkel & Son 884  
Smith N. S. 884  
Whitton & Sons 884

**Auction Sales.**  
Clary & Co. 886  
Elliott Wm & Sons 878  
McCarthy N. F. Co. 883  
Pitcher & Masda. 886

**Begonias**  
Baldwin A. J. 884  
Davis & S. Co. 884  
Fairview Floral Co. 884  
Seach Wm H. 884

**Board of Trade.**  
National Florists' 881

**Bougainvillea**  
Becker T. F. 880

**Bouvardia**  
Davis & S. Co. 884

**Bulbs and Roots**  
Allen Chas. H. 878  
American Florists 883  
Berger H. & Co. 880  
Betzinger Bros. 880  
Bolton L. C. 881  
Clucas & Bondington 880  
Elliott & Follwith. 878  
Fausl H. G. & Co. 886  
Gutenson Bros. 878  
Hartman & Co. 880  
Petersen F. C. 877  
Schiller J. 878  
Schmitt & Co. 880  
Schuchlein Anton. 878  
Selbach C. O. 880  
Shepherd M. R. 878  
Singer & Co. 880  
Vanhan, McKellar & Winterman. 884  
Wesler & Don. 886

**Business Opportu-  
nities.** 880

**Canas**  
Conard & Jones Co. 878  
Lo Jags Garden. 877  
Scott H. & Son. 880

**Carnations**  
Alden F. M. 883  
Benedict G. H. 888  
Dow Floral Co. 884  
Breitinger & Sons. 881  
Barrow J. G. 884  
Bois W. T. F. & Co. 880  
Clond J. 878  
Clough Gordon. 877  
Davis & S. Co. 884  
Dillon J. H. 881  
Dorner & Sons. 880  
Elliott & Follwith. 880  
Fairview Floral Co. 884  
Frenn J. J. 888  
Gravler & Co. 881  
Harrison John. 881  
Harr A. M. 888  
Hill E. O. Co. 884  
Hoy & Louke. 881  
Jahn P. Os. 881  
Jensen & Co. 881  
Joy & Sons. 881  
Littfield H. F. 881  
Lo Jags Garden. 877  
Marysue E. L. 884  
May L. A. Co. 884  
Merkel & Son. 884  
Murphy H. E. 880  
Nans & Nanner. 884  
Redfield. 884  
Reynolds. 884  
Renard Jos. 881  
Roever Park Flor Co. 880  
Roberts H. D. 881  
Roever Park Flor Co. 880  
Seach Wm H. 881  
Seach Wm H. 881  
Smith Chas. 884  
Smith Chas. 884  
Smith N. S. 884  
Snyder & Sons. 881  
Taylor E. 881  
Whithead Geo. B. 881  
Whitton & S. Co. 884  
Wood Bros. 888

**Chrysanthemum**  
Cunningham Joe L. 886  
Dow Floral Co. 884  
Fryer E. 881  
Hoy & Louke. 881  
Rose A. D. 880  
Seach Wm H. 881  
Whitton & Sons. 884  
Wood Bros. 888

**Cineraria**  
Cunningham Joe H. 884  
Dow Floral Co. 884  
Whitton & Sons. 884

**Culcas**  
Green & Underhill. 880

**Cat Flowers**  
Allen J. C. 884  
Allen W. J. 884  
Anna F. O. 884  
Baer W. J. 884  
Barnhart Geo. R. 884  
Bunho Outflower Co. 880  
Ford Bros. 884  
Flower. 880  
Gardner W. H. 884  
Hay Michael A. 884  
Hofmann H. A. 884  
Goran G. 884  
Hofmann H. A. 884  
Keating Wm F. 880  
Kamptz Bros. Co. 886  
Kosh A. 884  
Lang Julius. 884  
McCarthy N. F. Co. 883  
Mann. 884  
McCarthy N. F. Co. 883  
Milling. 884  
N. Y. Cat Flower Co. 884  
Paukert Samuel & Co. 884  
Parry & Blauvel. 884  
Reid E. 884  
Reinher Bros. 884  
Rever Park Fl. Co. 886  
Rohler A. F. 880  
Rudolph Matt. 886  
Sheridan W. F. 886  
St. Louis Cat Fl. Co. 886  
Sunderland H. C. 886  
Sutherland O. A. 886  
Sunderland H. C. 886  
Vanhan, McKellar & Winterman. 884  
Welch Bros. 880  
Williams E. F. Co. 880  
Wolfe W. W. 884  
Yong John. 884

**Cyclamen**  
Burrow J. G. 881  
Elliott & Follwith. 881  
DeWalt E. J. 884  
Hill E. O. Co. 884  
Krombach Chas. 880  
Seawanhaka O. Ges. 881

**Dahlias.**  
Pascoe W. F. 881

**Dahlias.**  
Dawley E. I. 886  
Robach A. G. 880  
Schmidt G. O. Co. 881

**Decorative Plants**  
Kryegars, Count  
Perms, Etc. 880

**Decorative Plants**  
Crown Flor Co. 886  
Curtis Bros. 886  
Dunn J. & Son 886  
Elliott & Follwith. 880  
Frenn Fruit Co. 884  
Kelsey H. J. 886  
Klein H. 886  
Krombach Chas. H. 880  
Robach A. G. 880  
Seach Wm H. 881  
Walters B. 880  
Whale Bros. 880

**Decorative Plants**  
Sakor Chas. E. 882  
Ball D. 880  
Becker H. E. & Co. 886  
Beckmann & J. 886  
Brenn H. E. & Co. 886  
Dow Floral Co. 884  
Dover Henry 880  
Eliete C. 880  
Harr A. M. 888  
Elizabeth Nura Co. 879  
Hale J. G. 880  
Heser W. J. 884  
Hiss J. E. 880  
Henderson P. Co. 886  
Hessing. 886  
Joy John H. 884  
Klein H. 886  
Merkel & Son. 884  
Miller Geo L. 884  
Reynolds E. F. 886  
Redfield B. 880  
Reynolds. 886  
Robach A. G. 880  
Roever Park Flor Co. 880  
Seach Wm H. 881  
Schuchlein Anton. 878  
Snyder & Sons. 881  
Smith N. S. 884  
Snyder & Sons. 881  
Smith N. S. 884  
Urich C. 884  
Whitton & Sons. 884  
Withold Geo. 884

**Exchange.**  
Ackman G. 880  
Cromer F. E. 878

**Exhibitions**  
American Institute. 883

**Fertilizers**  
Abernethy Wm. 882  
American Jadoe Co. 882  
Ackmann G. 880  
Littfield H. F. 881  
Wheeler Fertilizer. 884

**Flower Pots, Tubs,  
Vases, etc.**  
Ernst W. H. 880  
Hans A. B. & Co. 880

**Seeds**  
Ame-lun Luth Co. 878  
Anna H. 884  
Becker H. O. Co. 886  
Brown Patent. 886  
Gorman & Co. 878  
Kaiser & Co. 878  
Kerwin Fruit Co. 879  
Jaudin E. C. 888  
McCullough J. A. 888  
Prayer C. E. 888  
Schiller J. 878  
Sullivan G. House 883  
Swartham R. F. 888  
Sultan & Co. 888  
Vaughan, McKellar & Winterman. 884  
Zirngel. 880

**Shrubs, Flowering  
and Green-stemmed**  
Krombach Chas. E. 885  
Robbin L. C. 881  
Boilin J. 888  
Dorner H. A. 880  
Elizabeth Nura Co. 879  
F. & Nurseries. 879  
Henderson F. C. 885  
Jackson & Perkins Co. 885  
Jones & Folke. 889  
Moon Sam'l C. 879  
Petersen F. C. 878  
Smith W. T. Co. 879  
Strom & Harrison Co. 886  
Vick & Hill Co. 880  
Watson T. 881

**Swiss Plants.**  
Baker F. 880  
Baldwin A. J. 884  
Barnhart Geo. R. 880  
Brown A. L. 884  
Burt W. J. & Co. 880  
Connell Bell. 880  
Dann J. & Son. 884  
Elliott & Follwith. 880  
Eliete C. 880  
Hansard W. S. 884  
Herr A. M. 888  
MacDonn A. 888  
National Plant Co. 888  
Rever Park Flor Co. 880  
Robach A. G. 880  
Seawanhaka O. Ges. 881

**Spices.**  
Rober Bros. 881

**Supplies and  
Requisites**  
Bayerdorfer H. & Co. 886  
Brenn Fruit Co. 884  
Conley John & Son. 880  
Elliott & Follwith. 878  
Frenn Fruit Co. 884  
Herrmann A. 886  
Krombach Chas. E. 885  
Kuntz Bros. Co. 886  
Littfield H. F. 881  
Littfield H. F. 881  
Meyer J. G. & Co. 880  
Meyer J. G. & Co. 880  
Reed & Keller. 880  
Rever Park Flor Co. 880  
Robach A. G. 880  
Snyder & Sons. 886  
Sutherland Eng. A. 886  
Vaughan, McKellar & Winterman. 881

**Tools, etc.**  
Faler J. H. 882  
Littfield H. F. 881  
Pasco F. O. Co. 882  
Scollay J. A. 882

**Vegetable Plants**  
Baldwin A. J. 884  
Barnhart Geo. R. 880  
Callan Elias. 880  
Vincent J. J. & Son. 879

**Vines and Climbers**  
Clark W. S. 886  
Frenn Fruit Co. 886  
Elizabeth Nura Co. 879  
Fryer E. 881  
Gibson. 886  
Jackson & Perkins Co. 885  
Klein H. 886  
Landon G. F. 879  
Pulver Alex. 879  
Watson T. 880

**Pantries**  
Cunningham J. H. 888  
Cunningham J. H. 888  
Elye E. 888  
Herr Albert M. 888  
Hessing. 886  
Morris Floral Co. 881  
Schmidt J. & Co. 883  
Sullivan G. House 883  
Sullivan W. H. 888  
Whitton & Sons. 880  
Zirngel. 880

**Prisms**  
Cunningham J. H. 888  
Dow Floral Co. 884  
Hughes Geo. J. 880  
MacDonn Geo. M. 880

**Refrigerators**  
Chooliele Cooler Co. 889

**Refrigerators**  
Berckman P. J. 886  
Groom. 886  
Dillon L. 888  
Elliott & Follwith. 880  
Elizabeth Nura Co. 879  
Frenn Fruit Co. 884  
Fryer E. 881  
Jackson & Perkins Co. 885  
Joy & Sons. 881  
Klein H. 886  
MacDonn A. 888  
Murphy H. E. 880  
Nans & Nanner. 888  
Reid E. 884  
Reid E. 884  
Smith N. S. 884  
Smith N. S. 884  
Strom & Harrison Co. 886  
Wood Bros. 888

# TEN DOLLAR GOLD PIECE

Growers, Dealers and Business Men Generally

ARE BENEVOLENTLY REMINDED THAT OUR

## SPECIAL FALL TRADE EDITION

# WILL BE ISSUED OCTOBER 9.

And that, if they wish to take advantage of the last chance before time to get into this Special Edition, they must send in their copy AT ONCE, or telegraph us the amount of space they wish us to hold.

Do not let anything stand between you and the trade you seek. YOURS IS THE OPPORTUNITY NOW. Grasp it!

**10 COPIES** of the Special will be mailed out to live members of the Florist, Seed and Nursery Trades. *There will be no advance over the regular prices for advertising space.*

For the good things in store, to be carried in the reading matter portion of this great edition, see editorial columns.

THE FLORISTS' EXCHANGE, P. O. Box 1697, New York.

# Point System Competition.

A TEN DOLLAR GOLD PIECE  
...FOR THE BEST ESSAY...  
Extension of Allotment of Time.

THE "POINT SYSTEM" of judging exhibits has its adherents and its opponents, some of the latter having gone on record as advocating its abolition. But by the majority it is considered the best system of judging yet evolved, although by no means perfect.

In order to test whether it is not possible to evolve a complete practical system of judging by points, a system that would produce the same results under varying conditions of locality and judges, THE FLORISTS' EXCHANGE has decided to offer a Ten Dollar Gold Piece for the best exposition of the point system and its applicability to our exhibits, and especially solicits the views of those who have the subject most at heart—exhibitors and judges.

Coming at an opportune time, immediately preceding the Show season, we have no doubt the subject will be uppermost in the minds of many, and we look for a host of competitors.

Contestants are required to first state their proposition for the improvement of the system, then to demonstrate by succinct and clear analysis its practical working.

All manuscript should be clearly written, on one side of the paper only, and must reach us on or before Wednesday, October 6th, and articles should not exceed 1000 words. Address all essays to

POINTS, Florists' Exchange Office, Box 1697, New York.

**CALIFORNIA VIOLETS**

Fine, healthy, field-grown plants, new and healthy in every direction. \$4.00 per 100. Cash with order. E. C. GIFFEY, So. Newark, Conn. When Writing Mention Florists' Exchange

**FARQUHAR VIOLETS**

Large blue plants; strong and healthy \$6.00 per 100. Strong plants, in stock from 15. pots, at \$3.00 per 100; \$3.00 cash with order. THOMAS F. O'BRIEN, Farmers, Rosedale, Mass. When Writing Mention Florists' Exchange

**VIOLETS! VIOLETS!!**

MARIE LOUISE, Prof. grown, clean and healthy in every direction. \$4.00 per 100. Sample plant, free. Cash with order. W. F. CHENEY, 277 Central, N. J. When Writing Mention Florists' Exchange

**FIELD-GROWN**

Marie Louise and California Violet Plants For Sale, \$3.00 per 100, or \$2.00 per 100. WM. CLARK, Florist, Colorado Springs, Colo. When Writing Mention Florists' Exchange

**2000 CALIFORNIA VIOLETS.**

Fine field-grown plants, free from disease, single, \$4.00 per 100. JUNCTION CITY FLORIST CO., Junction City, Kansas. When Writing Mention Florists' Exchange

**FIELD-GROWN. GOOD STOCK.**

**VIOLETS AND CARNATIONS**  
Colorado, \$4.00 per 100. Louisa, \$4.50 per 100. Cannell's Violets, \$3.50 per 100. California \$1.00 per 100. Cash with order.

E. J. CLOUD, (L. B. 32) AVONDALE, PA. When Writing Mention Florists' Exchange

**VIOLETS MY SPECIALTY!**

California, extra clumps from field, \$35.00 per 100. Special prices for large quantities. Other varieties at cost for the present.

**LILACS.**

Charles X and Marie Lorrain, 3 years, grafted, good forcing plants, delivered October 1st, \$5.00 per 100. \$2.00 per 100.

FERR. BOULON, See CHH. L. T., N. Y. When Writing Mention Florists' Exchange

**VIOLETS! SMILAX!!**

Buy good and healthy stock and make money. Violets, Marie Louise, field-grown, large and in stock. (Leave out the word "disease" in this section), \$4.00 per 100; \$3.00 per 1000. Second class \$2.00 per 100; \$1.00 per 1000. Cash or ex reference with order, please. Samples by mail 10 cents. Write for special price on large lots.

R. KILBOURN, Clinton, New York. When Writing Mention Florists' Exchange

**Cyclamen Persicum Giganteum**

Received out of 2 1/2 inch pots, ready for shift into 3 inch, 8 to 12 plants, best sold at once. Price, \$1.00 per 100. Samples sent asked for. Order quick.

WHN Exchange for Roses or Tulips. FRANK E. CREMER, Florist, HANOVER, PA. When Writing Mention Florists' Exchange

**Marie Louise Violets**

8000 strong healthy plants, no disease. No. 1, \$5.00 per 100; \$35.00 per 1000. No. 2, \$3.00 per 100; \$25.00 per 1000. 500 at 100 rates. Cash with order.

J. C. CREMS, Oneida, N. Y. Successor to J. S. Hay. When Writing Mention Florists' Exchange

**A FEW THOUSAND**

**VIOLETS**  
Yet left different sizes. Must sell from Stock room. Also a few hundred

**CARNATIONS**  
Left. Name quantity. Send for prices; they will surprise you.

JOS. R. FREEMAN, 612 1/2 WASH'N, D. C. When Writing Mention Florists' Exchange

A Constant Reminder.

THE FLORISTS' EXCHANGE keeps a fellow abreast of the times and is a constant reminder of the season. As our business is extensive it will become more and more useful. C. W. BENSON, Alvin, Texas, July 15, 1897.

**REDUCTION!**

Will dispose of the balance of my Field-Grown Marie Louise Violets, at \$3.00 per 100. Good size plants.

W. A. MILLS, Port Chester, N. Y. When Writing Mention Florists' Exchange

**MARIE LOUISE VIOLETS**

AND CARNATIONS  
Field-grown, \$4.00 and \$5.00.  
FLORIDA HOT WATER BOILER  
No. "H" for sale cheap.

L. E. MARQUEE, Syracuse, N. Y. When Writing Mention Florists' Exchange

**VIOLETS**

FOR BENCHING NOW.  
M. Louise, Campbell and Straley, fine strong 3/4 in. Price, \$3.00 per 100; also 10,000 strong field clumps of California and Campbell for Fall planting; ask for price.

SMILAX, 3/4 inch, one, \$2.50 per 100. BENI. CONNELL, Florist, West Grove, Pa. When Writing Mention Florists' Exchange

**10,000 M. LOUISE VIOLETS.**

Large, healthy, field-grown clumps. \$4.00 per 100; \$85.00 per 1000.

10,000 CARNATIONS Nice bushy plants of the following kinds: Scott, E. Pierson, Tidal Wave, McGowan, Alaska, Meteor, Silver Spray, \$5.00 per 100.

GEO. H. BENEDICT, Yorkville, N. Y. When Writing Mention Florists' Exchange

**15,000 MARIE LOUISE**

Field-Grown Plants, \$5.00 per 100; \$40.00 per 1000.  
FINE CALIFORNIA, \$1.00 per 100; \$3.00 per 1000.  
EDW. J. TAYLOR, Southport, Conn. When Writing Mention Florists' Exchange

**AMERICAN BEAUTY**

BRIDESMAID, PERLE, METEOR, RIDE KAISERIN, MERMET, LA FRANCE and SUNSET. An extra new lot of plants, 3/4 and 1/2 in. pot. \$4.00 per 100. \$40.00 per 1000. CALIFORNIA VIOLETS. Special low prices including delivery in Philadelphia, New York, New Jersey, or New York packed direct.

A. S. MacBEAN, Lakewood, New Jersey. When Writing Mention Florists' Exchange

**FIRST-CLASS FORCING ROSES**

Fully equal to those sent out the last four years; first-class in every respect. Only selected growth from flowering shoots used in propagating.  
250 METEOR, 700 PERLE, 500 SUNSET, 750 KAISERIN,  
700 LA FRANCE, 400 SAFRANO, 300 GONTER,  
3 inch pots, \$5.00 per 100.

Mention this paper. J. L. DILLON, Bloomsburg, Pa.

**NEW SINGLE VIOLET PRINCESS OF WALES**

The best single violet in cultivation, strong, field grown, \$3.00 per 100.

**CANNAS**

Chas. Henderson and Paul Marquand..... \$1.00 per 100  
Flamingo, dormant roots..... \$1.00 per 100

**CARNATIONS**

Portia and Lizzie McGowan, strong field plants, \$5.00 per 100.  
ROBT. SCOTT & SON, 19th and Catharine Streets, Philadelphia, Pa. When Writing Mention Florists' Exchange

**HERR'S ANTIQUE SMILAX ARE THE BEST.**

Plants ready now, at \$5.00 per 100; 75 cents per 100. A trial order solicited from every florist.  
at \$1.25 per 100; \$10.00 per 1000.  
Sample for 10 cents.

McGowan, 5 ets. each, Portia, 5 ets. each, Keller, 5 ets. each, Abundance, 5 ets. each, Amazinday, 5 ets. each.

3000 TRIUMPH, the best pick in every particular I ever grew, at \$7.50 per 100.  
ALBERT M. HERR, Lancaster, Pa. When Writing Mention Florists' Exchange

**Bride and Bridesmaid Roses**

3/4 inch..... \$2.50 per 100; \$30.00 per 1000  
3/2 inch..... \$4.00 per 100; \$50.00 per 1000  
Golden Gate, 3/4 inch..... \$4.00 per 100  
Kaiserin, 3/4 inch..... \$4.00 per 100  
SMILAX PLANTS..... \$1.00 per 100

Cash with Order.  
THE NATIONAL PLANT CO., Dayton, Ohio. When Writing Mention Florists' Exchange

**ROSES**

4 IN. POTS. BENCH GROWN.  
Bride, Bridesmaid, Perle, Meteor, Papa Gontier, Woodstock, \$3.00 per 100.  
Free Catalog, \$1.00 per 100.

R. H. MURPHY, Urbana, Ohio. When Writing Mention Florists' Exchange

**ROSES**

Bridesmaid, Bride, Perle, Meteor, Woodstock, No. 5112, Whiteville, Alaska, Sunset, Mermet  
Price from 3 inch pot, 45 cents per 100; \$30.00 per 1000.  
50 cents per 1000.

Marie Louise, Lady Campbell, strong, bushy stock, from 3 1/2 in. pot, \$4.00 per 100; \$25.00 per 1000.

**CHRYSANTHEMUMS.**

For Varieties and Prices, see April 24th issue.

**CARNATIONS.**

Strong, Healthy, Field Plants.  
Albertin, Bridesmaid, Buttercup, Ivory, Eldorado, Daybreak, Storm King, Alaska, Theo. Cartledge, Della Fox, Puritan, L. McGowan, W. Searitt, Portia.

Also several other varieties, new and old. Seed for price.  
New Trade List on Application.

**WOOD BROS., Fishkill, N. Y.**

When Writing Mention Florists' Exchange  
Special Edition Next Week.

**2c. ROSES 2c.**

\$2.25 PER 100; \$20.00 PER 1000.  
New stock from 2 1/2 in. pots.

Monella, Yellow Saugey, Fish Courtier, Crimson Rambler, Perle, Perle, Bridesmaid, C. Souper, Etolle de Lyon, Climbing Meteor, Meteor, Golden Rambler.

THE 3 RAMBLERS, Yellow, White and Pink, \$2.00 per 100; \$20.00 per 1000.  
2 YEAR OLD ROSES for October delivery. Send me a lot of your wants.

**FIELD GROWN CARNATIONS.**

Strong clumps, \$4.00 per 100. McGowan, Florida, Silver Spray, Fred. Dorner, Mrs. Harrison, Scott.  
JOHN A. DOYLE, - Springfield, Ohio. When Writing Mention Florists' Exchange

**PANSIES**

Strong plants from Engle's select strain, now ready, \$4.00 per 1000; 50c. per 100 by mail. Cash with order.  
W. J. ENGLE, Box 211, Dayton, O. When Writing Mention Florists' Exchange

**PRIMROSES.**

Chinese Primroses, 3 in. pots, \$2.50 per 100.  
GINERARIA, ready Nov. 1st..... \$5.00  
CITY OF PARIS, 5 1/2 in. pots, 30 Nov. 1st  
PANSY PLANTS, ready Oct. 15, 1000, \$3.50 50  
per 100.  
Cash with order.

JOS. H. CUNY, 1218 N. Delaware, Ohio When Writing Mention Florists' Exchange

**Pansies Worth Raising.**

STRONG PLANTS, ready now, \$4.00 per 1000, F. O. B. express here. SEED as usual.  
CASH WITH ORDER.

G. Soltz & Co., 190 Grant Jersey City, N. J. When Writing Mention Florists' Exchange

**SUPERS!**

ROEHMER'S SUPER PRIZE PANSIES.

This strain includes all the leading novelties, strong bushy plants, ready now, \$5.00 per 100, by mail; \$25.00 per 1000 by express; \$4.00 per 1000, by express; \$2.00 per 1000, by express. Seed, 1/4 ounce, 51.5c; packet of 2500 seed, 50c.

**PETER BROWN, - Lancaster, Pa.**

When Writing Mention Florists' Exchange  
.....900,000....

**PRIZE PLANTS**

Now ready, transplanted from up-to-date solid and strong 3 1/2 in. pots by mail; \$5.00 per 1000 by express, not paid.  
Seeds of above strain, \$3.00 per 1000 prepaid.

Notice - Our strain of Pansies is the finest strain in one mixture, grown by experts in Europe and Australia.

Terms, 30 days to reliable parties.  
THE MORRIS FLORAL CO., Morris, Ill. When Writing Mention Florists' Exchange

**PLANTS SEED**

500,000 The Jennings Strain  
Of finest American grown Pansies now ready; they are of the leading strain in the market and first-class in every respect.

The above letter but one of many received every year.

Mr. E. B. JENNINGS, Dear Sir: The Pansy Seed supplied by you last August produced the finest lot of pansies I have ever seen. They were uniformly fine. Send me one of your best but still as soon as ready. Respectfully yours,  
WILLIAM ROBERT

Finest mixed, per 100, by mail, postpaid, 75c.; per 1000, by express, \$4.00; 5000 for \$18. Size of plants varied. Seed and above strain, \$1.00 per pkt.; \$5.00 per oz.; \$3.00 per 1/2 oz.

**CARNATIONS.**

Five sizes of leading kinds at \$5.00 per 100. Cash with order.  
E. B. JENNINGS, 1218 N. Southport, Conn. BROWER OF THE FINEST PANSIES. When Writing Mention Florists' Exchange

BOOKS RECEIVED.

MISSOURI BOTANICAL GARDEN, EIGHTH REPORT, 1897.—This report, like its predecessors, is replete with interesting information relative to the Botanical Garden, and the work has continued on there. In addition to Dr. Trelease's annual report, the book contains the following scientific papers: "The Mosses of the Azores," by J. Cardot; "The Mosses of Madeira," by the same author, with eleven plates illustrating the mosses; "The Mosses of the Azores," by Dr. Trelease's botanical observations on the Azores, together with a catalogue of their plants, divided into their several groups, and also an index to the genera found there, and fifty-five illustrative plates. There are appended to the report lists of books and papers published from the Garden or by its employees, and those published by instructors in the Henry Shaw School of Botany. These demonstrate the good work that is being accomplished by this important institution.

STANDARD FLOWER POTS

In any quantity, and of the best quality, at a price less than for ordering elsewhere. W. H. ERNEST, Station M. N. E., WASHINGTON, D. O. When Writing Mention Florists' Exchange

STANDARD POTS.

We are now ready to supply a superior quality of Pots in unlimited quantities. Catalogues and price lists furnished on application.

A. H. HEWS & CO., NORTH CAMBRIDGE, - MASS. When Writing Mention Florists' Exchange

"JADOO" FIBRE and LIQUID are used and endorsed by the leading growers. Try them and be convinced. When Writing Mention Florists' Exchange

M. RICE & CO., Importers and Manufacturers of FLORISTS' SUPPLIES, 25 N. 4th St., Philadelphia, Pa. NEW FALL CATALOGUE NOW READY! When Writing Mention Florists' Exchange

REEDS & CO. ROYALTY'S WIREDESIGNERS. THE BEST FOR NEW YORK. Telephone, 1782 18th St. When Writing Mention Florists' Exchange

HAVE YOU EVER TRIED THE MEYER GREEN SILKALINE?

SILKALINE. Price \$1.25 per lb. For sale everywhere. When Writing Mention Florists' Exchange

Cincinnati.

Trade Still Improving. Business is still looking up and stock improving. Chrysanthemums and Holly of the valley are with us in more Beauty is scarce. Bride and Bridemaid are in good supply. Carnations are scarce, and very early are a glut.

The First Chrysanthemum. A white chrysanthemum, Lady Fitzwygram, was received by writer from E. W. Hill of September 29th, six weeks in advance of 1896. Bloom good, stem very fair. Sold at 12 1/2c. each.

A Trip to Richmond, Ind. Wednesday morning, September 22, William Murphy, George N. Bartlett, and the writer paid a visit to Richmond, Ind. After reaching Hamilton, O., we found we had a couple of hours to spare, and therefore paid a visit to the greenhouses of Theodore Bock. He has one house in which he is testing many of the new varieties of chrysanthemums. Some are all right, others are very disappointing. Western King, as seen here, is one of the disappointments; although another "one-trial" may bring it up to perfection. Mr. Bock believes in testing all new varieties in pots as well as in the garden, and he is anxious to see the plants they have very little favor with him. Fred. Walz is a grand variety for pot cuttings, while its original color is pink, yet you can bring it pure white by setting the plants in a rose temperature.

Mr. Bock is also growing Anemone plumosa minus. This he raises in six inch pots for sprays and he sells large quantities of it. G. R. Gause & Co., at Richmond, are busy with others and other work; one of the special features here is Rex begonia.

E. G. Hill & Co.'s we found Lady Fitzwygram and Bergmann chrysanthemums ready for market, which is the earliest we have seen here. On the 10th and to-day, the 23d, the writer received and sold 100 bouquets to start chrysanthemum. We noticed several other houses filled with all the new varieties of merit. Some of the Japanese sorts look very promising, but the American varieties are in the lead so far as foliage goes. Carnations are benched and looking well. Some of the best we saw here, we have seen, they are clean and free from disease. I noticed one bench of seedlings which I have not so far seen here. A whole lot of Flora Hill and other varieties are yet in the field. Tulips seem to be quite an addition here, also three houses are devoted to arceas, kentias, and latanias. This firm is putting in a new hot-water boiler and getting ready for Fall and Winter business. E. G. GILLET.

Knoxville, Tenn. The Weather. We have had a long spell of quite hot weather; in fact, it has been a return of heat and rain, not so bad as we know. While I write (Sept. 26th) the glass registers 90 in the shade. Some nights have been in the 80's, but the weather is not so hot as pointed. Frosts are not looked for till about October 15. Grasses are coming very good. The yellow-fever scare does not affect us in the least. Outdoor carnations are blooming nicely. Scott and Kellogg are especially so. As soon as cooler weather sets in they will be a grand lot.

Street Fair and Carnival. This event which will be held October 12 to 16, promises to be quite a bonanza for the florists, as there are to be two flower parades, and large prizes are offered for the best decorated four-wheel carriage, surrey, pony cart, buggy, bicycle, cart, rickshaw, by goats, and cart drawn by dogs. Much interest is being manifested in this affair, and it is expected to have a heavy outpour of flowers and other things necessary for making a good show.

Florist-Crouch contemplates having a handsome float in the merchants' parade. Chrysanthemum Show. Owing to the street carnival, the Chrysanthemum Society is undecided about the holding of a show this year, as they decide not to hold one, the florists will have one of their own. C. W. Crouch has one house 100x18 filled with a fine lot of pot plants, many four feet through and well set. He has one house, 100x24, planted in benches, which promises to give some magnificent flowers. Two houses are ready for glazing and Mr. Crouch contemplates adding two more to his show place. This will give him one of the most elegant plants.

Hot-Bed Sash Tenons white-leaded. Corners secured with iron dowel pins. Every detail of construction perfect. Made of Clear Cypress Lumber. Quick Shipments. We have in stock and can ship immediately: 3 ft. x 6 ft. x 3 rows 10 in. glass. 3 ft. 3 in. x 6 ft. 4 " 8 in. " 4 ft. x 6 ft. 5 " 8 in. " Not glazed, 1 1/2 in. thick. Delivered Prices. Quoted on application. State size and quantity wanted. No order too small to receive careful attention, and none too large for our facilities. LOCKLAND LUMBER CO., Lockland, Ohio. When Writing Mention Florists' Exchange

JOHN CONLEY & SON, MANUFACTURERS OF TIN FOIL. 2 and 4 Dominick Street, NEW YORK. When Writing Mention Florists' Exchange

GOLD FISH. Fine Healthy Stock. Medium to large size, \$10.00 per 100. Cash with order. No charge for shipping cans. Gold Fish can be shipped by Express. Thousands of miles with safety and are a profitable and attractive stock to handle. Full line of Aquaria Supplies. KEANAN'S SEED STORE, 6112 and 6114 Wentworth Ave., CHICAGO. When Writing Mention Florists' Exchange

Boston Florist Letter Co. LOCKLAND LUMBER CO., Lockland, Ohio. When Writing Mention Florists' Exchange

CHOCOLATE COOLER CO., GRAND RAPIDS, MICH. Manufacturers of FLORIST'S REFRIGERATORS. Send for Circular. When Writing Mention Florists' Exchange

Standard Flower Pots. Send for our New Price List with extra discounts. All our Pots, from 7 in. and upwards, have our Patent Exotisor Bottom, which in a great advantage, as it insures perfect drainage. A FULL LINE OF HILL PANS. THE WHILLDIN POTTERY CO., 713 to 715 Market Street, PHILADELPHIA. BRANCH HOUSES: Kearney and Westside Ave., Jersey City, N. J.; Jackson Ave. and Pearson St., Long Island City, N. Y. When Writing Mention Florists' Exchange

FLOWER POTS. We are Manufacturing a Full Line of STANDARD FLOWER POTS and HANGING BASKETS OF THE BEST QUALITY. Shipping Facilities First-Class, thereby Securing Lowest Freight Rates. Our goods are well packed, and breakage is minimal. Give us a trial. Send for Price List. Address THE SYRACUSE POTTERY CO., 403 N. SALINA ST., SYRACUSE, N. Y. When Writing Mention Florists' Exchange

GOOD TIMES ARE COMING! HURRY THEM A BIT! This by using the new "FLORAL ART" Catalogue to give customer ideas of Designs Out Flowers, Prices, etc. It shows 95 Arrangements. Adapted to any business. Five Editions. Samples, 20 cts. in stamps. The five editions for 90 cts. Priced circular free. DAN'L. B. LONG, PUBLISHER, BUFFALO, N. Y. When Writing Mention Florists' Exchange

Wire Designs. Wire Designs. Wire Designs. CHEAP! CHEAPER!! CHEAPEST!!! The Klondike and Alaska outdoors. Have you seen it? Do you want it? You need it. Write for it. Will be out in October. JAS. GRIFFITH'S LATEST CATALOGUE AND HARD TIMES DESIGN LIST. Lowest prices ever quoted. FREE! FREE! Send for it. Reserve your orders until you consult it. Send at once before they are gone. To JAMES GRIFFITH, Wire Designer, 701 Main Street, - CINCINNATI, OHIO. When Writing Mention Florists' Exchange

**SITUATIONS WANTED.**

Have 10 cents per line of words, each insertion. Cash with order. This rate applies only to regular insertion notices. For long notices, send cash, without delay. When letters are addressed to our care add 10 cents to cover expense of forwarding.

**FLORIST**, single, up to date grower and maker up competent in all branches, wants situation N. E., care of Florists' Exchange.

**DALLAS**, ex Bowyer, former specialist; 20 years' experience in growing ferns and cut flowers; expert designer. L. Nelson, 35 Jones Ave., 200 Greenwood Avenue, Brockton, N. Y.

**SITUATION** wanted by married man, age 32, as S. man and general grower; 25 years with Pitcher and Co. can be sent to growing sections male or female, South Hills, N. J.

**SITUATION** wanted, by a German, single, 36 to 37 years experience in growing ferns and cut flowers; first-class referencer. Address P. O. 200 Greenwood Avenue, Brockton, N. Y.

**SITUATION** wanted in a first-class commercial S. place, where cut flowers are made a specialty; 10 years' experience; see references; best Address A., care of C. E. Edmunds, St. Matthews, Jeff Co., Ky.

**YOUNG** man, 21 years, wants place as under-gardener; leaving on account of family going away; best references. Address Baker, care W. H. Hamilton, Gardner, E. S. Willing, Webster St., Newport, R. I.

**SITUATION** wanted; young man, German, to take charge of greenhouse; roses, carnations and other plants; best of references; 10 years' experience. Jac. H. Klotter, care of Michael's Seed store, 102 Market St., Philadelphia.

**SITUATION** wanted in store or commercial place; by German 35 years, married, thoroughly experienced in all branches of greenhouse work; decorator and designer; steady position preferred. Address Leinbach, Franks, Carlstadt, N. J.

**SITUATION** wanted in commercial or private place of a married man 20 years' experience in floriculture; palms, ferns and stone plants especially; best references from present employer. Address C. M. Cline, 100 E. 25th St., New York, 2 years in charge of the Propagating Dept. of the Kings, Wadsworth, N. Y.

**SITUATION** wanted, by a thorough, practical, experienced florist and gardener; 18 years experience in growing roses, violets, carnations, bulbs, ferns, plants, palms, ferns and stone plants especially; and cut flower growing; English, the 25th country, and 100 country, and 100 country, 2 years in charge of the Propagating Dept. of the Kings, Wadsworth, N. Y.

**HELP WANTED.**

Address with price.

**WANTED**

An experienced foreman for a place in the middle State; 10,000 ft. of glass. Wages, \$100.00 per month.

Address: HUSTLER, care Florists' Exchange.

**STOCK WANTED.**

Address with price.

**200 Roots Helianthus Multiflora**

Address with price.

**J. NEWMAN & SONS,**  
51 Tremont St., BOSTON, MASS.

**BUSINESS OPPORTUNITIES****FOR SALE. WELL PAYING PROPERTY**

Six greenhouses (two 50 ft. x 6 ft. glass), built 1 year ago for growing cut flowers and carnations in the New York market; Corcoran window for pumping water from artesian well into tank; also 7 acres A. N. land, with stone house, a substantial dwelling; 2 1/2 miles from New York on W. & R. R. R. B.; care Florists' Exchange.

**FOR SALE OR TO LET.**

Two Greenhouses, each 20x100 feet, and one acre of ground; everything complete; only 100 ft. from New York City by trolley car. Inquire at:

Jon. Schlosser's Hotel, Fort Lee, N. J.

**FOR SALE**

Florists' cars; for long location on Broadway, New York; doing big business; established three years; new low; good reasons for sale; for further particulars apply to:

Floris, 1688 Broadway, New York.

When Writing Mention Florists' Exchange

**BUSINESS OPPORTUNITIES****FOR SALE.**

One of the oldest and best paying Florists' Stores on Long Ave., New York. Write for particulars. Address J., care of Florists' Exchange.

**FOR SALE—AN ESTABLISHED BUSINESS.**

Man of capital or party desiring to organize a company can step at once into an established business in the largest city of the United States and with good connections in the West. The business is profitable. The owner will remain for two months if desired. Compelled to sell on account of failing health, by exercising good, common business sense and proper management, should net \$25,000, and by exercising sound common business sense same can be increased to \$40,000 or \$50,000. Full investigation will be permitted to prospective purchasers if they show they mean business. Give address, with some particulars,

C. S. LODGE, 271 Broadway, N. Y.

**ROLLERS FOR SALE**

Two No. 3, Style C, GURNEY HOT WATER DOUBLE CROWN ROLLERS, complete. In use five seasons. Were heating 30,000 sq. ft. of floor for Palm growing. Offering for sale because we are increasing our capacity. These rollers cost \$450.00 each. We offer for \$200.00 each, f. o. b., Riverton, N. J. Also one Locomotive Boiler, 11 ft., 4 ins. long, fire box, 3 ft., 9 ins., by 2 ft., 3 ins., with 28 3 in. tubes, 6 ft., 9 in. long, has been used for 20 years. Will sell for \$50.00. Is in good order and ready for service at once.

**HENRY A. DREER, 714 Chestnut PHILA. PA.**  
Street.

When Writing Mention Florists' Exchange

**Flabush, N. Y.**

Clemens Wabber has suffered a sad bereavement in the death of his eldest son, Clemens, which occurred on Monday last, the funeral took place Wednesday. He was attended by a large number of friends in the craft, whose sympathy for the bereaved was plainly witnessed. He had tested not alone by their presence, but also the large number of floral pieces sent, for all of which he has attractive friends, his business thus.

**Pittsburgh.**

Good Times Have Not Materialized. The good times that the newspapers are telling us about daily have not yet been felt. It is doubtful whether the coming Winter will be any better than last. There is always the old doing in the winter. The Jewish New Year caused a good demand for flowers. Stock of good flowers is well secured, roses and carnations. Roses are quoted at from \$4 to \$6; the best ones lately are from Old City; the variety being Meteor. Beauty set at \$3 per dozen, costing from \$10 to \$15 per 100. Carnations go at \$1.50, but the supply is not so large. Chrysanthemums are in, but so far no good ones have been seen. Asters are poor and scarce.

**Jettins.**

T. P. Langhans & Co. suffered a small loss by fire breaking out in the cellar in which they store their paper boxes, designs, etc.

The last meeting of the Club (a social one) was held on the first of August. John Rader, who returned from Europe a few days ago, gave a lengthy talk about his trip through Holland, Belgium, France, Germany, and England. He visited most of the largest places and was well acquainted with some of them, and in the manner that some stock was grown, particularly in France, where they have the finest chrysanthemums for Christmas holidays, where we are entitled to get them in good form for Easter. Mr. Rader is a good florist, and his talk was most interesting and highly appreciated.

The following firms have been awarded contracts for trees and shrubbery for Pittsburgh and P. O. West: J. H. G. Philadelphia; Andorra Nurseries, Philadelphia; and Ellwanger & Barry, Rochester, N. Y.

E. C. REINEMAN.

**Boston.**

**Market News.**  
Trade is quietly but surely improving. The cut flower business does not respond to expectations, but the plants trade is reported good in all sections of the city. Few poor chrysanthemums have made their appearance, but there is still demand for them. Goods to expect this time are: carnations, varieties prices ranging from \$1 to \$5 per hundred, and chrysanthemums, some of which are selling at satisfactory returns. There is a great call for violets, and the few single or double ones that come in are eagerly taken up.

**The News.**  
One of the startling events of the week in political circles was the rejection by the Board of Aldermen of Mayor Quincy's nominee for Park Commissioner, John M. Creed, was voted down by the Republicans with the aid of Alderman Dean, who had a favorite from South Boston, Charles M. May, who had one time practically agreed to appoint.

A rumor is current of the largest-sized greenhouse property which has occurred in this vicinity for many years. Ex-Alderman Whittier's estate, comprising some 150,000 square feet of ground, and a large range of glass has been bought by James Crowley, of Betham, who is a well known florist in all sections of the city. It is said the property changed hands for about one hundred and fifty thousand dollars. The late manager of the Boston Garden and Florists' Club at Horticultural Park, H. H. Bond, will give a history of Horticultural Journalism.

John H. Bond returned yesterday from the city. Mr. Doogie has some 200 seedling chrysanthemums, many of which are worthy of cultivation. It is rather remarkable that there were but a few chrysanthemums in the city. The New England Florist has given up its office in the Music Hall Building.

**Cleveland.**

**Trade Notes.**  
The slight improvement in business is noted since last writing. Store trade is reported fair, with prospects of still greater activity.

Stock in some lines continues in abundance, and prices remain about the same as last week. Home grown roses are quite scarce at present, but considerable good stock is being received from the West, and this of course relieves the scarcity here to a great extent. Retail prices range from 10c to 15c per dozen for per dozen for best. The wholesale price, as near as can be ascertained, is \$1.50 to \$3 per 100. Carnations are quite scarce as well, and sell at \$6 to \$10 per 100 at wholesale. Stock not of best quality. Asters are retailing 20c for 100, per dozen, and it is expected by many dealers that this price will be advanced very shortly. Prices received for the week were: \$6c to \$1 per 100. Asters are nearly gone, a few white still remain, and these are being held in the hope of a demand for them at retail by the dozen being very high. Stock of chrysanthemums will hold a place of prominence in the store windows, but stock is being poor. Prices remain unchanged.

**Chrysanthemums.**  
The first chrysanthemums of the season were displayed in the window of W. M. Gasser, retailing 20c for 100, per dozen, and made a very creditable show, which attracted the attention of passers-by. The first blooms being cut on the 24th of August. The variety was Marquis de Montmartre.

**Florists' Club Meeting.**

The regular meeting of the club was held on Tuesday evening last, and was well attended. The following officers for the ensuing year resulted as follows: President, A. Graham, re-elected; Treasurer, T. Hart, re-elected; Secretary, G. T. Titton, re-elected; and Secretary, S. N. Pentecost. The following were located on Detroit street, W. S., near corner of Pearl street. It was found necessary to hold a meeting on Wednesday and fourth Tuesdays of each month to second and fourth Mondays, and accordingly the next meeting will be held on immediate action taken. The next reg.

lar meeting will be held in the new hall on Monday evening, October 11.

**Bowling Club.**

A partial organization of the Bowling Club was effected at the meeting Tuesday evening. About forty members signified their intention to join the club, and it is expected that a strong organization will result. The first meeting will be held on Monday evening, October 4, and on the first and third Monday evening of each month thereafter.

**Notes.**

Wm. Boek, who for several years has been connected with A. M. Gasser, will leave this city next week for Kansas City, Mo., where he will open up a flower store about October 15.

W. R. Roach, representing J. B. Rice & Co., Cambridge, N. Y., was a visitor this week.

**St. Louis.**

U. S. T.

**Cool Weather Help Trade.**

Cooler weather is producing better flowers and necessitating an increase in price because of increased demand.

**Notices.**

The Krebs Floral Co. has opened this week. Their advent into the business has been a success. Their trade by thorough, judicious advertising, and everything appears to point to a successful future.

The Osterberg Bros. have been kept very busy with large funeral orders this week. In fact, almost everyone has had a fair amount of funeral work.

Harry Bunyard, representing Pitcher & Co., has spent a day or two in the city last week.

Jos. Engelgau at Grand and Lafayette avenues has been quite ill for some time, but is reported on the road to recovery.

Charles Terrell, 1308 Olive street, has finished putting in a few very fine fixtures and added a telephone to her conveniences.

**Trenton, N. J.**

The Inter-State Fair, held this week, proved to be a greater success than ever in all respects. The horticultural department was well represented, and in many instances of a high quality. The following are some of the exhibits: Palms, gladioli, and dahlias. G. Wainwright took first prize for collection of ferns and greenhouse plants, also collections of roses and zonal pelargoniums. In the floral pieces the competition was even more spirited than last year, from the fact that the old-time duel between the two cities was interrupted by the appearance of a third party this year—the Mercer Floral Co.—and the Floral Association of Trenton, some excellent work. For a laicy flora design Ribsam & Sons were first with a charming and original design, but titled "Dollar Wheel," which was represented by a large ship leaving America and sailing for collection of stars and various countries being represented by flag designs in their respective colors on large floral designs. The first prize was won by dahlias, carnations, geranium, etc., were used for the floral effects. G. Wainwright first second with a large column made up with dahlias in different colors, and for the main part showing excellent work. The Floral Association of Trenton awarded a special first for a cornucopia of valley, etc., a well-executed piece that was a credit to the exhibitor. A named company was also first for a floral basket. The Wainwrights were awarded for the following: funeral designs—wreath, altar, and cross.

**Toronto.**

There should have been a meeting of the association last Tuesday, but through the illness of our secretary, Mr. Carter, the meeting was postponed until the time came there was no quorum.

The show has improved somewhat, but the stock offered is not generally first class. We have had one sharp frost which has done some damage to the stock, but in sheltered places, even colous is still all right.

The Hort. of Philadelphia was in town last week.

THOS. MANTON.

**AZALEA INDICA**

Ready for Delivery.  
Write for prices on list; also  
**DUTCH RUBLS.**  
L. C. BOBBINK, Rutherford, N. J.  
Branch of  
The Horticultural Company, Bssokod, Holland.  
When Writing Mention Florists' Exchange

**OLD COLONY NURSERIES**

**SURPLUS STOCK.**  
Per 100  
Asclepias tuberosa..... 2.00  
Homerooseballi, lava, fulva, Dumortieri, 3 00  
116a, German 10 00  
Japan, Florida,..... 4.00  
Lilya Senesiana..... 5.00  
Lily of Valley, and 8 in. square (not for  
foreign)..... 3.00  
Peonies, mixed, per 1000 8.00  
Plymouth named..... 12.50  
Saxifraga..... 2.00  
Subantia Chloride..... 6.00  
Yucca Filamentosa, strong..... 5.00  
Amelopsis Quingefolia, strong..... 4.00  
Bignonia Kediens..... 5.00

T. R. WATSON, Plymouth, Mass.  
When Writing Mention Florists' Exchange

**5000 VINES**

From the field, good and bushy at \$5.00 per 100

**RUBBERS AND CYCAS.**

Fine lot of

**ADIANTUMS**

In 4 inch pots, \$2.00 per dozen; \$15.00 per 100.

CASH WITH ORDER.

HESSION, Clarkson Street, Flatbush, L. I.  
When Writing Mention Florists' Exchange

**BELLIS** (Daisies). Fine strain of Bell  
and some colors also, best for large stands of flowers  
by mail; \$3.50 per 100, by express.

**J. C. SCHMIDT & CO., Bristol, Pa.**  
When Writing Mention Florists' Exchange  
**FIELD GROWN SMILAX** \$2.50 doz  
Caryopteris (Blue Spiraea), 2 1/2 in. pots \$3.00 doz  
Swanee White Violet Climax, \$4.00 per 100  
RONY BROOK, Florists, WEST GROVE, PA.  
When Writing Mention Florists' Exchange

**THE NEW PURE YELLOW DARLIA,  
Clifford W. Bruton**

And all the leading new and old  
Dahlia is now in full bloom on  
our Dahlia farm at Atco, N. J. All  
interested are cordially invited to  
visit us and inspect them; also to  
visit the American Institute Show,  
Madison Square Garden, New York.

W. P. PEACOCK, Atco, N. J.  
When Writing Mention Florists' Exchange

**PALMS.**

HOME-GROWN A No. 1 STOCK.

Phenix Canariensis,  
5 in., \$3.50 per doz.; \$25.00 per 100  
Dracaena Indivisa,  
5 in., \$2.00 per doz.; \$16.00 per 100

Cash or satisfactory references must accompany all orders.

**J. B. HEISS,**  
116 So. Main St., DAYTON, O.  
When Writing Mention Florists' Exchange

**Ampelopsis Veitchii.**

POT-GROWN SEEDLINGS,  
\$4.00 per 100.

J. KADETZ, P. O. Box  
Dongan Hills, N. Y.  
When Writing Mention Florists' Exchange

**AMPELOPSIS VEITCHII.**

Large size plants, from 4 and 4 1/2  
in. pots, \$8.00 per 100; \$70.00 per  
1000; 500 at 1000 rate.

S. PENNDRIF, Oak St., New Rochelle, N. Y.  
When Writing Mention Florists' Exchange

**GOOD STOCK**

Adiantum Cuneatum, 4 in. pots, \$1.00 \$3.00  
Chrysanthemum Frutes-  
censium Illicium..... 1.00 6.00  
Cyclamen Gigantum  
to color..... 50 80.00  
mixed..... 5 50.00  
to color..... 50 20.00  
mixed..... 5 20.00  
Dracaena, mixed..... 5 .75 5.00  
Dracaena Draca, 8 1/2 in. pots,  
high..... 5.00 30.00  
Maranta Billardii, 3 in. pots, 75 50.00  
Nepenthes Cassiniana, 3  
in. pots..... 75 40.00  
Passiflora Yellow, 5 in. pots, 12 in. high 3.50 25.00  
Ruhbia Flava  
5 1/2 in. pots, 18-24 in. high..... 4.50 35.00  
5 1/2 " 15 " " "..... 5.00 25.00  
5 " 15 1/2 " " "..... 3.50 25.00  
Smilax..... 7 1/2 in. pots, 30 2.00

Cash with order from unknown customers or C.O.D.  
Orders amounting to \$5 and over P. O. Box, N. Y. City.

**SEAWANAKA GREENHOUSES,  
OFFER BAY, QUEENS CO., N. Y.**  
J. C. CASH, Supt. P. O. Box 24, W. 43rd St., N. Y.  
When Writing Mention Florists' Exchange

Smilax, strong, 1 year, one better, \$1.50 and \$2.00  
per 100.  
Narcissus, herbaceous, choice assortment, \$2.50  
per 100.  
Narcissus, Pot's, double and single, 10c per 100.  
Daffodils, Showday and Showdrip, \$2.00 per 100.  
H. F. Roses in assortment, \$10.00 per 100.  
Clematis in choice assortment. Write for prices.  
Dewling Gosscheerella, one and two years.  
Roses in choice assortment, best of the West.  
F. A. BALLER, Bloomington, Ill.  
When Writing Mention Florists' Exchange

**P. OUWERKERK,**

1123 Summit Ave., Jersey City, N. J.  
Just received from our Holland  
Nurseries:

RHOODENDRONS, AZALEAS,  
SPIRAEA JAPONICA, LILIUUM SPECIOSUM,  
PEONIES, BLEEDING HEART,  
POT GROWN LILACS, HYDRANGEA IN SORTS.  
CLEMATIS and P. ROSES, in the best sorts.

PHICES MODERATE.  
When Writing Mention Florists' Exchange

**Seasonable Stock for Florists.**

**ALL STRONG FIELD-GROWN.**  
Anemone Whirlwind.....\$5.00 per 100  
Day Lily, white, blue, yellow..... 5.00 " "  
Delphinium Formosum..... 6.00 " "  
Fuchsia, double, \$40 per 1000, 5.00 " "  
Peonies..... 10.00 " "  
Rudbeckia Golden Glow..... 6.00 " "  
Yucca Filamentosa, 2 year..... 6.00 " "

Also Howardias, Carnations, Saxifras,  
Tulips, Hyacinths, and all kinds of Bulbs.

SEND FOR ALL TRADE LIST.

**VICK & HILL CO., Rochester, N. Y.**  
When Writing Mention Florists' Exchange

**DEER'S SPECIAL OFFER OF**

We again call special attention to our stock of Palms, which is the largest and most complete in the country, especially in the varieties and sizes used in the general Florist's trade; our stock of Kentias alone occupying over one and a half acres of glass, and all other popular varieties being on hand in proportionate quantities.

**ARECA LUTESCENS.**  
3 in. pots, 12 to 10 in. high, of extra value, \$1.25 per doz.; \$10.00 per 100  
" " " 20 to 24 " " " 50.00 " "  
" " " 24 " " 2 1/2 3 plants in pot, 12 in. " " 100.00 " "

**COCOS WEDDELIANA.**  
3 in. pots, 10 to 12 inches high, very fine, \$3.00 per doz.; \$25.00 per 100  
" " " 15 " " " extra fine. 5.00 " 40.00 " "

**GEONOMA GRACILIS.**  
2 1/2 inch pots..... \$2.00 per doz.; \$15.00 per 100  
3 inch pots..... 35.00 "

**LATANIA BORBONICA.**  
2 inch pots, 3 to 4 leaves, 60c. per doz.; \$4.00 per 100; \$25.00 per 1000.  
3 inch pots, 4 to 5 leaves, 12 inches high, showing character nicely,  
\$1.25 per doz.; \$10.00 per 100; \$50.00 per 1000.

4 inch pots, 4 to 5 leaves, 12 to 16 inches high, an excellent lot of plants of exceptional value, \$3.00 per doz.; \$25.00 per 100; \$225.00 per 1000.  
5 inch pots, 4 to 8 leaves, 15 to 18 inches high, a useful size of plants for immediate retailing, \$5 per doz.; \$40 per 100; \$350 per 1000.  
6 inch pots, 5 to 6 leaves, 18 to 20 in. high, \$2.00 per doz.; \$17.00 per 100  
8 inch pots, 3 plants in a pot, 24 inches high, well furnished plants, especially fine for decorating, \$1.50 each; \$15.00 per doz.  
The above are all perfect plants and with without exception, be found of excellent value.  
7 inch pots, 6 to 7 leaves, 28 to 30 inches high, \$1.25 each; \$15.00 per doz.  
" " " 6 to 7 " " 28 to 30 " " 1.50 " 15.00 " "  
" " " 7 " " 30 " " 2.00 " 20.00 " "  
" " " 7 " " 36 " " 2.50 " 30.00 " "  
The four sizes noted above are not all perfect, the lower leaves being somewhat clipped, but all are suitable plants of good value.

**LIVISTONA ROTUNDIFOLIA.**  
A grand lot of this miniature Lantana, in 3 inch pots, showing character very nicely, \$3.00 per dozen; \$20.00 per 100.

**PHENIX RECLINATA.**  
2 1/2 inch pots..... \$1.75 per doz.; \$14.00 per 100  
" " " 3 " " 2.00 " 16.00 " "  
" " " 4 " " 2.50 " 20.00 " "  
" " " 5 to 6 " " 12.00 "



KENTIA BELMORIANA.

Our new Wholesale Price List just issued will be mailed on application to all Florists.

**PTYCHOSPHERA ALEXANDRE.**  
2 1/2 inch pots..... \$3.75 per doz.; \$30.00 per 100  
" " " 3 " " 1.00 " 8.00 " "  
" " " 4 " " 1.50 " 12.00 " "  
6 inch pots, 3 plants in a pot, 24 inches high, \$6.00 per dozen.

**KENTIA BELMORIANA.**  
Our stock of this most useful of all Palms is the largest in the world, and the plants are in fine condition.

2 1/2 in. pots, 8 leaves, 6 to 8 in. high..... \$2.00 \$15.00  
" " " 8 " " 12 " " " 3.00 25.00  
" " " 10 " " 15 to 18 " " " 4.00 30.00  
3 in. pots, 8 leaves, 30 " " " Each Doz.  
" " " 6 " " 36 " " " 5.00 30.00  
" " " 6 1/2 " " 36 " " " 6.00 30.00  
" " " 7 " " 42 to 48 " " " 7.00 30.00  
" " " 7 1/2 " " 48 to 54 " " " 8.00 30.00  
12 " " 7 to 8 " " " 12.00 30.00

**Bushy, made-up plants.** The following are, without doubt, the best lot of bushy plants of this variety that have ever been offered; they are all perfect specimens in first-class condition: 6 inch pots, 4 plants in a pot, 24 to 28 in. high, \$1.50 each; \$15 per doz. 7 inch pots, 4 plants in a pot, center plant being tall (about 30 inches high) with three smaller plants (about 14 inches high) around it, \$2.50 each.  
9 inch pots, 4 plants in a pot, center plant 38 inches high, with three smaller plants, about 20 inches high, around it, \$3.50 each.  
9 inch pots, 4 plants in a pot, center plant 4 feet high, with three other plants about 2 feet high around it, a perfect lot of specimens of exceptional value, \$10 each.

**KENTIA FORSTERIANA.**  
2 1/2 in. pots, 2 to 5 leaves, 6 in. high..... Doz. 100 \$15.00  
" " " 3 to 4 " " 10 " " " Doz. 200 \$12.50  
" " " 4 to 5 " " 15 to 18 " " " Doz. 400 \$10.00  
" " " 5 " " 24 to 30 " " " Doz. 1000 \$8.00  
" " " 6 " " 30 to 36 " " " Each Doz. 15.00  
" " " 6 " " 36 " " " " " 20.00  
" " " 6 " " 36 " " " " " 24.00  
" " " 6 " " 36 " " " " " 28.00  
" " " 5 to 6 " " 62 " " " " " 7.50  
" " " 6 " " 62 " " " " " 8.00  
" " " 6 " " 62 " " " " " 8.50  
" " " 6 " " 62 " " " " " 9.00  
" " " 6 " " 62 " " " " " 9.50  
" " " 6 " " 62 " " " " " 10.00  
10 " " 6 leaves, 5 feet high, \$10.00 each.  
12 " " 6 plants in a pot, center plant 6 feet high, 4 smaller plants 2 1/2 feet high, \$25.00 each.  
12 " " 7 leaves, 6 feet high, \$30.00 each.  
14 in. tubs, 7 leaves, 7 to 8 ft. high, fine decorative stock, \$35.00 each.

**HENRY A. DREER, 714 Chestnut St., PHILA., PA.**

When Writing Mention Florists' Exchange

## The Right Cypress for Greenhouse Material.

Have you heard of Cypress Greenhouse Material that has not been satisfactory? If you have it does not follow that Cypress is not the best lumber to use. There is White Cypress, Yellow Cypress and Red Cypress; there is Cypress that grows on the high lands and Cypress that grows in the swamps.

All of these different kinds are not suitable for greenhouse purposes. Do you know which kind is best and do you know that kind when you see it? If not you would better buy from those that do know and will deliver exactly what they sell. We introduced Cypress for greenhouse construction and pushed it to the front. We know all about it. For fifteen years we have made a specialty of furnishing it, and during this time we have built up a reputation that we cannot afford to jeopardize. We send out the best only.

Write for Circulars or Estimates.

Lockland Lumber Co.,  
LOCKLAND, O.

When Writing Mention Florists' Exchange

## Make an Early Season

By using our **AGRICULTURAL DRAIN TILE**, every man of independent mind will find that this tile drained more than any other kind of tile and that is the tile desired for any kind of Sewer Pipe, Drains, Crock, Fire Brick, Gutter, etc. JOHN H. JACKSON, 11 Third Ave., Albany, N.Y.

When Writing Mention Florists' Exchange

## CALIFORNIA RED CEDAR

**Never Decays.**  
A. DIETSON & CO., 819 Sheffield Avenue, CHICAGO.  
MANUFACTURERS OF  
RED CEDAR AND CYPRESS GREENHOUSE MATERIAL.

When Writing Mention Florists' Exchange

## A GOOD HOSE IS A GOOD INVESTMENT

The best is the cheapest. To ascertain what a hose is worth, divide the cost per foot by the number of years it will last. We are in the market in quantities in advance of what is required. Prices Extra, per foot for 3/4 inch; 10 cts. per foot for 1 inch, and 20 cts. per foot for 1 1/2 inch hose.

Best hose I have bought in twelve years. "It is fine."—E. G. HILL.  
Address J. C. & A. E. SUDLER, Saddle River, N. J.

When Writing Mention Florists' Exchange

## STANDARD VENTILATING MACHINE.

NONE  
EQUAL IT  
IN  
Strength  
AND  
Durability



Nothing  
Flimsy  
OR  
Complicated  
about it.

Send for Catalogue.

E. HIPPARD, YOUNGSTOWN, OHIO.

When Writing Mention Florists' Exchange

**FIBRE**—Every plant grown in it thrives without earth.

**LIQUID**—The best, safest and cheapest Fertilizer sold.

THE AMERICAN JADDO CO.,  
U. S. Patent and Trade Mark.  
811 Fairmount Avenue,  
PHILADELPHIA, PA.

When Writing Mention Florists' Exchange

## MASTICA

FOR GLAZING GREENHOUSES. SUPERIOR TO PUTTY IN EVERY WAY.  
It is not hardened by the extreme heat or cold that a greenhouse is constantly subjected to both inside and out. Mastica is adhesive and remains permanently elastic so that it is not forced out of place by expansion and contraction of the wood. It does not crack, it does not peel, it does not need retouching, thus saving time and expense. With Mastica can "bed" or "set" on the outside, but with a machine only.  
Mastics and Mastico Glazing Machine were given

HIGHEST AWARD OF SOCIETY OF AMERICAN FLORISTS AT PITTSBURGH, 1895.  
Put up in gallons, \$1.00. Half gallons, 60 cts. Quarter gallons, 35 cts.  
Mastical Glazing Machines, \$1.00 each.  
Send for full descriptive circular and testimonials. Agents in all the principal cities.

F. O. PIERCE CO., Sole Manufacturers, 170 Fulton St., New York.

When Writing Mention Florists' Exchange

## Washington.

Market News.  
Trade is reported to be about as dull as it usually is in midsummer. Flowers are plentiful, but, so far, there is little demand for them.  
Arenas Town.

J. H. Small, Jr., has been appointed part of the Judges of the Horticultural Exposition; the other judges are P. J. Berckmans of Atlanta, Ga., and J. H. Small, Jr. of the Department of Parks, Pittsburgh. Mr. Gardner C. Hubbard of this city is chairman of the jury of awards.  
The first session of the Harvard Botanic Garden, took in the horticultural establishments of this city during the early part of last week.

There is some talk of organizing a florists' club in this city, the old organization was known as the National Gardeners' Club and the Florists' Club of Washington having both gone to sleep several years ago. The former was organized during the year of the visit to this city of the S. A. F. The Florists' Club had its beginning several years before that period.

John D. Davidson has removed from 1032 1/2 Filbert Street to 1823 Filbert Street. Smith & Putnam of 1710 Pennsylvania avenue have retired from business; their store has been leased for a term of years by Davidson & Walker. Mr. Louie has opened a branch store at 1032 1/2 Connecticut avenue.

C. Strauss & Co. have built a good-sized palm house as an addition to their already extensive range. The house is intended for palms from temperate regions. It is filled at present with a batch of choice plants in six and eight-inch pots. Chrysanthemums and flowers which have been in bloom with Strauss & Co. for over a week; they have brought good prices.

Violets, scarcely recognizable as that popular flower, made their first appearance one week ago; they are very small and have very little odor to them.

W. R. Smith goes to Hagerstown to act as judge at the State Fair, October 10-12. J. H. Bingham, the officer of the War Department who is in charge of public buildings and grounds, was interviewed by the subject of the distribution of the surplus flowers grown for the White House. The general says that while he is perfectly willing to discontinue the custom of sending out flowers whenever he is ordered to do so by a superior officer, yet the matter has been exaggerated, claiming that more flowers are given to the hospitals and to societies of the poor than to the sick, than to the private parties. Col. Bingham expressed a wish to see some of the florists so that he could convince them that he was not a competitor in their business.

In the annual estimates submitted to the District Commissioners by the Superintendent of Charities, published this week, there is an item of \$1,000 for the erection of new greenhouses for the industrial home school.

The new rose, Mrs. Garrett, is showing up in fine form. The good is being that is the only objection the critics have to it so far. Miss Abt Chatterney, of which there are many plants, has benched this season, promises to be an abundant cropper. The buds so far as I have seen are small, and I should judge that this rose can be sold at as low a price as any other variety.

W. S. Clark has a house of Souv. du President Carnot in solid beds; the plants seemed less likely to throw their flowers all at one time by this method.

G. W. OLIVER.

Elmira, N. Y.  
Grove P. Rawson has been over-whelmed with orders for violets which he has been compelled to refuse, stock running out very early this season. His plants show the results of careful treatment. Chrysanthemums and roses are superior. There will come several breakers with the queen of autumn here this season.  
W. M.

Slingerlands, N. Y.  
Golding Bros. were one of my list who lost heavily on violets this Summer owing to heavy rains.

By careful forethought several thousands were carried over in pots, so there was nothing for or over selling, but a shortage in sales on plants. There seems to be a shortage in Marie Louise, judging by the reports I have received.  
W. M.

## EVERY FLORIST OUGHT TO INSURE HIS GLASS AGAINST FIRE.

For particulars address  
JOHN G. ESLER, Sec'y, Saddle River, N. J.  
When Writing Mention Florists' Exchange

## MANURE.

French and well rotted horse manure, also for Mushroom growing a specialty. Excellent for all plants by Penn. and N. J. Also by the Philadelphia, Pa. and N. J. Florists' Exchange.

When Writing Mention Florists' Exchange

## SHEEP MANURE

Cleaned and prepared especially for florists' use. You will find it the genuine article. For reference to its value, please refer to the report of F. M. Nichol, 105 Market Street, Philadelphia, Pa. Trial size of 20 lbs. \$2.50; one ton in large order.

Hermosa Rose will be taken in charge.  
GODFREY ASCHMANN,  
1012 Ontario St., PHILA., PA.

When Writing Mention Florists' Exchange

## THE FLORISTS' FERTILIZER.

Made by steam process from pure night-owl (bleed and acid matter) and contains 20% with absorbents. Fully matured and combines all the necessary elements for the fertilization of the soil and enrichment of plants. Quick in action. Ground and used as directed.

STANDARD FERTILIZER CO.,  
1823 Filbert Street, PHILADELPHIA.  
When Writing Mention Florists' Exchange

FOR SALE BY Seed Stores.  
For Free Pamphlet, write to LOUISVILLE SPIRIT CURE TOBACCO CO., Louisville, Ky.



When Writing Mention Florists' Exchange

## FOR MILDEW AND BLACK ROT

on Roses, Fruits and Vegetables, and Carnation Rust.

USE FOSTITE, 3 pounds, 50 cts. or 10 pounds, \$1.00.  
G. H. JOOSTEN, IMPORTER OF PLANTS, BULBS AND SEEDS,  
193 Greenwich St., New York.

When Writing Mention Florists' Exchange

SAVE THE BLOOMS!  
**NIKOTEN**  
DOES NOT INJURE SENSITIVE PLANTS. USED FOR FUMIGATION OR SPRAYING, INDOORS OR OUT.  
200 POUNDS PROVIDED IN ONE PNEUMATIC PRICE \$1.50. ALL SEEDSMEN.



When Writing Mention Florists' Exchange

## DEATH TO THE INSECTS HARMLESS TO THE PLANTS.

As an insecticide for quick destruction of the aphid, scale, spider, and other insects, cannot be used by the florist, but is safe for the seedling and succulents.

**KILL IT**

THE KENTUCKY EXTRACT CO.'S  
Extract of Tobacco...  
100% pure...  
**SURE**

THE KENTUCKY EXTRACT CO. Columbus, O.  
SOLE MANUFACTURERS.  
Book of Directions Sent Upon Application.  
When Writing Mention Florists' Exchange

**SCOLLAY'S IMPROVED PUTTY BULB**  
For Glazing Sash, Etc.,  
—ALSO THE—  
PATENT PLANT SPRINKLER



For sale by your Seedman or smt. Portland, Me. \$2.00.  
JOHN A. SCOLLAY,  
74 & 76 Myrtle Ave.,  
BROOKLYN, - N. Y.

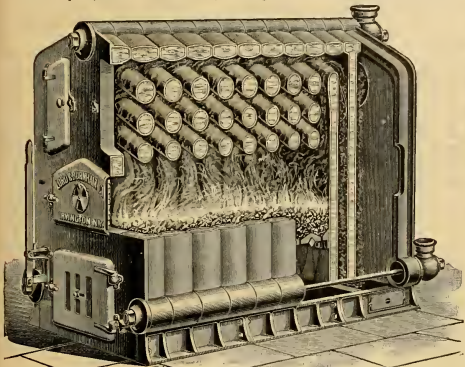
SEND STAMP FOR CATALOGUE.  
When Writing Mention Florists' Exchange

LORD & BURNHAM CO.,

Horticultural Architects and Builders and Manufacturers of Heating and Ventilating Apparatus.

(Established 1836.)

Plans and estimates furnished on application for Heating and Ventilating Apparatus erected complete, or for material only. Highest Awards at the World's Fair.



NEW SECTIONAL HOT WATER HEATER.

Specially adapted to large ranges. Will heat up to 16,500 feet of glass. Highest economy. Moderate cost. Also heaters for smaller work. Send six cents postage to New York office for latest catalogue of Heating and Ventilating Apparatus.

NEW YORK OFFICE: 160 FIFTH AVE., COR. 21ST ST.

GENERAL OFFICE AND WORKS: IRVINGTON-DRUIDSON, N. Y.

When Writing Mention Florists' Exchange

Write at Once

CORNELIUS S. LODER, Secretary,

NATIONAL FLORISTS' BOARD OF TRADE,

Regarding Collections, Credits, &c. 271 Broadway, N.Y.

When Writing Mention Florists' Exchange



Brand Improved Challenge.

Boiler heating and cooling device automatic stop, solid link chain, makes the IMPROVED CHALLENGE the most perfect apparatus in the market. Write for catalogue and prices before placing your orders elsewhere.

Quaker City Machine Co., RICHMOND, IND.

When Writing Mention Florists' Exchange

SUMMER IN WINTER

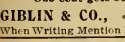
By Using

Standard Greenhouse Boilers

One cent gets our Catalogue.

GIBLIN & CO., - Utica, N. Y.

When Writing Mention Florists' Exchange



VALVES and FITTINGS

For Pipe and Tubing.

VENTILATING APPARATUS.

COLDWELL-WILCOX CO., Newburgh, N. Y.

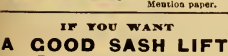
Send for Catalogue.

Mention paper.

IF YOU WANT

A GOOD SASH LIFT

For a Very Little Money Get

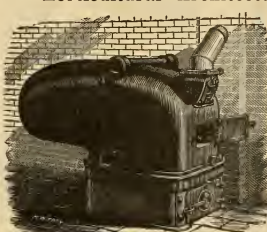


THE NEW DEPARTMENT OF VENTILATING APPLIANCE.

For Descriptive Catalogue Send to J. D. OARMODY, Essexville, Ind.

When Writing Mention Florists' Exchange

GREENHOUSE HEATING AND VENTILATING, Horticultural Architecture and Building.



Hitchings & Co

ESTABLISHED 1844. 233 Mercer Street, NEW YORK.

FIVE PATTERNS OF BOILERS.

NINETEEN SIZES.

Perfect Sash Raising Apparatus.

Rosehouses, Greenhouses, Etc., of Iron

Frame Construction erected complete

or the Structural Iron Work shipped

ready for erection.

Iron Frame Benches with the

"Perfect Drainage Bench Tile"

or Slate Tops.

Mention paper

SEND 4c. POSTAGE FOR ILLUSTRATED CATALOGUE.

When Writing Mention Florists' Exchange

PIPE VALVES Wrought Iron Pipe, Valves, Cooke, Fittings, etc., for Steam and Hot Water; Rubber Hoses, Pumps and Well Points. W.M. H. KAY, 42 Day St., New York.

DON'T SYRINGE WITH COLD WATER

And so lower the vitality of your Stock, Inviting Mildew, Black Spot, and other Diseases, but write for particulars of my Tempering Apparatus.

HENRY W. GIBBONS, HEATING ENGINEER AND GREENHOUSE BUILDER

138 LIBERTY STREET, NEW YORK.

When Writing Mention Florists' Exchange

GLASS FOR GREENHOUSES, CONSERVATORIES, GRAPHERIES, HOTBEDS AND FLORISTS' USE GENERALLY, AT LOWEST RATES. L. HARRIS & SON.

497 W. BROADWAY, NEW YORK, 89 LIBERTY ST., NEW YORK

Bed. Rooms and Flower Box.

When Writing Mention Florists' Exchange

GLASS! For Greenhouses, Conservatories, Graperies, Hotbeds and all other purposes, at Lowest Rates. GLASS!

N. COWEN'S SON, 392 & 394 West Broadway, New York, Formerly 184 and 156 So. Fifth Avenue.

Get our Figures before buying Glass. - Estimates Freely Given

When Writing Mention Florists' Exchange



THE VAN REYPER PERFECT GLAZIERS' POINTS

No rights or lefts. Price per box of 1000, 60c. by mail, 75c.; in lots of 5000 by ex., 55c. per 1000

HENRY A. DREER, 714 Chestnut St., Phila., Pa.

When Writing Mention Florists' Exchange

SEND FOR OUR NEW CATALOGUE, WHICH SHOWS

The New Automatic Cable Ventilator

As it is put up in the house complete. We also give you prices with a guarantee that each machine sent out will operate your house economically. Sell machines now made in two sizes.

A. Q. WOLF & BRO., Dayton, Ohio.

When Writing Mention Florists' Exchange

TRADE GREENHOUSES. THE BEST MADE.

"Florists" Get Your Plans and Estimate from

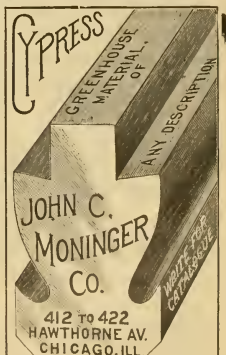
PLENTY'S HORTICULTURAL WORKS,

148-156 Randolph Ave., JERSEY CITY, N. J.

When Writing Mention Florists' Exchange

CYPRESS IS MUCH MORE DURABLE THAN PINE. CYPRESS SASH BARS UP TO 32 FEET IN LENGTH OR LONGER. GREENHOUSE AND OTHER BUILDING MATERIAL. Send for my illustrated book "CYPRESS LUMBER AND ITS USES;" Send for our Special Greenhouse Circular; THE A. T. STEARNS LUMBER CO., NEWBURY, BOSTON, MASS.

When Writing Mention Florists' Exchange



412 to 422 HAWTHORNE AV. CHICAGO, ILL.

When Writing Mention Florists' Exchange

A Patent Factor.

THE FLORISTS' EXCHANGE is the most potent factor in the florist's life. W. H. DUFFY.

J. Metcalf, L. J., 3008 S. 97.

J. K. ALLEN, Wholesale Commission Dealer in CUT FLOWERS...

W. S. ALLEN, 17 West 28th St., New York.

G. E. BRADSHAW, 125 W. 30th St., NEW YORK, Wholesale Dealer in CUT FLOWERS

FORD BROS. WHOLESALE FLORISTS, 111 West 30th Street, NEW YORK.

WM. H. GUNTHER, Wholesale Florist, VIOLETS AND CARNATIONS A SPECIALTY.

MICHAEL A. HART, Wholesale & Commission Florist, 113 W. 30th St., New York.

H. A. HOFFMANN, Wholesale Florist, 44 W. 29th St., New York.

EDWARD C. HORAN, Wholesale & Florist, No. 34 W. 29th St., New York.

JULIUS LANG, Wholesale Florist, 53 WEST 30th St.

MacDonald & McManus, Wholesale Florists and Dealers in CUT FLOWERS,

ERNST G. ASMUS Wholesale Florist. ROSE SPECIALTIES: American Beauty, President Carnot, Bridesmaid, Meteor...

VAUGHAN, MCKELLAR & WINTERSON, WHOLESALE COMMISSION JOBBERS, 45, 47, 49 WABASH AVENUE, CHICAGO, ILL.

Wholesale Prices of Cut Flowers

Table with columns: NAME AND VARIETY, NEW YORK, BOSTON, PHILADELPHIA, CHICAGO, ST. LOUIS. Lists various flower types and prices.

Far Prices of Fancy and Special Stock see our Correspondence Column. Prices are for quantities of one hundred unless otherwise noted.

RENBERG BROS., Wholesale Growers of Cut Flowers... 500,000 Feet of Glass...

We can fill all orders on short notice with all leading varieties of ROSES and CARNATIONS. We are headquarters for fine AMERICAN BEAUTIES.

SAMUEL S. PENNOCK, WHOLESALE FLORIST. A fine stock of Roses, Violets, Carnations, Smilax, Etc., coming in, of which we can fill orders on the shortest notice.

CITY HALL CUT FLOWER MARKET 15 Province St. and 9 Chapman Place, WELCH BROS. (Long Distance Telephone 2071), Boston, Mass.

FRANK MILLANG, Wholesale Commission Dealer... in Cut Flowers...

THE NEW YORK CUT FLOWER CO. 119-121 West 23rd Street, 112-114 West 24th Street.

PURDY & BLAUVELT, Wholesale and Commission Dealers in CUT FLOWERS

F. A. ROLKER, WHOLESALE DEALER IN CUT FLOWERS

W. F. SHERIDAN, Wholesale Commission Dealer in CUT FLOWERS

FRANK H. TRANDER, CHARLES SCIENCE, TRAENDLY & SCHENCK, Wholesale Florists,

JOHN YOUNG, Wholesale Florist, 51 WEST 28th ST., NEW YORK.

WM. J. BAKER, Wholesale Florist, 1432 So. Penn Square, Philadelphia, Pa.

DUMONT & CO., WHOLESALE FLORISTS, CARNATIONS A SPECIALTY.

HEADQUARTERS in Western New York, Tru s ROSES, CARNATIONS AND ALL SEASONABLE FLOWERS. WM. F. KASTING, Wholesale Commission Florist

**Wholesale Florists**  
STATE OF MARYLAND  
 GUARANTEE  
 QUALITY  
 VASES.

**JOBBERS IN  
 FLORIST'S  
 SUPPLIES.**

**FLORISTS' VASES.**  
 Horticultural Anticozers.

**84 HAWLEY STREET, - BOSTON.**

**GEO. A. SUTHERLAND,**  
 SUCCESSOR TO WM. J. STEWART,  
**CUT FLOWERS and FLORISTS' SUPPLIES**  
**WHOLESALE.**  
 67 Bromfield St., Boston, Mass.

**S. FROWER,**  
**Wholesale Florist,**  
 17 North 13th Street,  
 PHILADELPHIA, PA.  
 Commissions Solicited. Special Attention Given  
 to Shipping Orders.

**EDWARD REID,**  
**Wholesale Florist**  
 1526 RANSTEAD STREET,  
 PHILADELPHIA, PA.  
**ALL CUT FLOWERS in Season.**  
 Phone 592 A.

**KENNICOTT BROS. COMPANY,**  
**Wholesale - Cut - Flowers,**  
 88 Wabash Avenue,  
 CHICAGO, ILL.  
**WIRE WORK A SPECIALTY.**

**ROGERS PARK FLORAL CO.,**  
**Wholesale Growers of Cut Flowers**  
 OFFICE and SALESROOM,  
 41 WABASH AVE., CHICAGO.  
 Headquarters for AMERICAN BEAUTIES.

**C. A. KUEHN,**  
**WHOLESALE FLORIST,**  
 1122 Pine St., St. Louis, Mo.  
 A COMPLETE LINE OF WIRE DESIGNS.

**C. W. WORS,**  
**Wholesale Florist,**  
 313 N. LEFFINGWELL AVENUE,  
 ST. LOUIS, MO.  
**FINE ROSES**—Shipped carefully to all  
 parts of the country.

**MAX RUDOLPH,**  
**Wholesale Florist**  
 All Seasonable  
**CUT FLOWERS.**  
 Shipping orders a specialty. Commissions  
 solicited.  
 11 W. 12th St., CINCINNATI, O.

**H. L. SUNDERBRUCH CO.,**  
**Wholesale Commission Florists,**  
 4th and Walnut Streets,  
 CINCINNATI, OHIO.  
 Commissions Solicited. Special Attention Given  
 to Shipping Orders.  
 When Writing Mention Florists' Exchange

**Chicago.**  
 State of Trade.  
 Regulation Fall weather—warm days  
 and cool nights—prevailed the past  
 week, favorable to a better class of flow-  
 ers, and we are glad to say some ad-  
 vance in prices. Good long-stemmed tea-  
 roses have now reached the market,  
 among which is included the President Carnot  
 which is surely gaining in favor in this  
 market. However, a few more lots of  
 short-stemmed stock yet that goes at  
 \$2 and under, and this condition will  
 be maintained some weeks longer. The  
 plantations stock come in. As far as our ob-  
 servation goes, the plants, as a rule, are  
 very good, and we are glad to say some  
 change times. American Beauty are  
 coming better, too, the best selling at \$12  
 to 16 per 100. The carnations are too  
 many at these prices, the principal cuts  
 being yet short and medium.  
 Carnations have advanced to \$1 for  
 standards. Field-grown flowers came in  
 the latter part of the week in consid-  
 erable quantity, some fair ones going  
 at 75c to \$1, white taking the lead in price.  
 Asters are still coming in and seen to  
 sell at \$2 to \$3 per 100 such as they are.  
 The supply of auratum lilies is dwind-  
 ling, but yet sell at 75c a dozen.  
 Stocks in demand are the very plain  
 white, selling at \$10; asparagus gives  
 50c to 75c per string.  
 Allium does not rise above 50c a  
 100. There are big sales for common  
 ferns, which are now the stand-by for  
 growers.

Thousands of yards of lycopodium  
 which was used in the decorations of the  
 Wittbold in the decorations of the Hub-  
 clothing store. Craig also used a lot  
 of cinnabar and asparagus for Stevens & Co.'s  
 silk store, besides a lot of roses.  
 Growers of Baywood.

The carnations at this place with  
 all the growers are late plants and do  
 not of any importance will materialize  
 for a long time yet. The still prairie soil  
 they hot fall in the ground. A very  
 able combination, coupled with late  
 housing of the plants. William Kirkland  
 has the same quality of chrysanthemums  
 as last year, 800 or so, some buds  
 of the early varieties were forming well  
 at writing, but they are not extra early.  
 In roses Meteor, Belle, and Bridemaid  
 are in the best condition. Meteor here  
 has a habit of "cabbaging" and failing  
 to open to some extent.

Albert Amberg has considerably ex-  
 tended and re-built his plant, which con-  
 tains now 25,000 feet of glass. Young  
 are doing well, but will not give  
 heavy crops for some time yet. Carnations  
 were not planted September 22.  
 In chrysanthemums the roots are in  
 better condition than last year at this  
 time, and will later give fine crops.  
 In France has been discarded. Chrysanthemums  
 are doing well, but none especially  
 early.

Stolbery Bros. at Argyle Park, where  
 their chrysanthemums as usual, of re-  
 markable growth. Elvins, from grow-  
 ing in the Vermont-Morel type pink to  
 Evangeline following. Glory of the Pacific  
 and Yellow Queen are showing color  
 and are expected to be 15th. The sport  
 from Mayflower, of last year, gives great  
 promise. There are many of the best  
 of the ones all showing equally well. In  
 carnations their new Argyle is almost ex-  
 clusively grown this year. The first  
 showing, August 14, has the crop in now  
 being good flowers for the season. A  
 house of roses consisting of Bride, Fried-  
 land, and Morgan is in good shape.

John Louis, Missouri, has the  
 earliest chrysanthemums we have seen  
 yet. A variety sent by mistake as M. de  
 St. Louis, the yellow-Morel type pink to  
 bud at opening, but changing to white,  
 is now six inches in diameter, and  
 as we thought it will be a good flower.  
 This one, Lady Fitzgibbon, and Yellow  
 Queen already showing a mass of  
 buds will be ready October 12. Mrs.  
 Johnson will be ready by the 15th. Alto-  
 gether the 7,000 here are in better condi-  
 tion than we have ever had before.  
 Some of the varieties are planted 4 1/2  
 inches, and two to three flowers in this  
 size. Mr. Lang works upon the prin-  
 ciple that if flowers do sell cheap, grown  
 as he grows them, they still pay.

The Flower Show.  
 An executive committee of the (Chi-  
 cago Horticultural Society met Septem-  
 ber 22 to make final arrangements for  
 the chrysanthemum show to be held  
 November 9 to 13. Willis N. Rudd is to  
 be manager. The place selected is the same  
 as last year, being both the First Regi-  
 ment armory and Battery D on the lake  
 front. The committee feels certain of a

fine show again. There will be a grand  
 international competition in chrysanthem-  
 um, 5,750 specimens to be shown to be  
 being offered for the best 120 blooms in 12  
 varieties from each state, territory, and  
 Canada providing competition under  
 each class being restricted to blooms  
 grown in the state, territory, or province  
 specified. The winning exhibit from each  
 state competition will afterwards com-  
 pete in the grand international competi-  
 tion, class 72 for a premium of \$75. Final  
 premium lists may be had of W. N. Rudd,  
 secretary, 185 Dearborn street.

**Jettings.**  
 Soft coal will cost the florists 25c  
 to 35c per ton more than last year.  
 George H. Scott opens up a new com-  
 munity of the winning exhibit from each  
 state competition will afterwards com-  
 pete in the grand international competi-  
 tion, class 72 for a premium of \$75. Final  
 premium lists may be had of W. N. Rudd,  
 secretary, 185 Dearborn street.

The next regular meeting of the Florists'  
 Club is October 14.

**Baltimore.**  
**The Market.**  
 Stock is quite scarce and roses and  
 carnations have cut a sudden jump in  
 price. Chrysanthemums have made their  
 appearance, bringing \$1.50 per dozen.  
 Bergman was the variety. Lot and  
 Weber & Sons were the first to consign  
 chrysanthemums here. John Cook is  
 sending in some Carnot.

**Bulls.**  
 One peculiar thing is noticeable this  
 season, viz., notwithstanding the fact  
 that bulls cost the same on the other  
 side this year as last, a duty being paid  
 of 25 per cent. on their cost, the retail  
 bulls catalogues are offering the bulls this  
 year at the same price as last. In look-  
 ing over the different lists I find that  
 some concern in Philadelphia and New  
 York, or some classes of stock, make no  
 difference in their prices by the dozen, be-  
 tween wholesale and retail; besides, by  
 the handling a profit of only 25 per cent. is  
 allowed, over their wholesale price. Tak-  
 ing into consideration the cost of trans-  
 portation, handling, etc., there is little left  
 for the florist who buys of these houses,  
 especially when his trade is cut down,  
 through the sending of extra large broad-  
 cast to the customers on whom the local  
 florist depends to sell his bulls.

From observations some of these large  
 houses are carrying their bull advertising  
 in the magazines this year, which may  
 account for prices being the same  
 this year as last, with no hand 25 per  
 cent. profit is not margin enough to  
 handle bulls, and all local dealers will  
 make a mistake if they attempt to do so.

**Jettings.**  
 Jack Frost is at our door. Cosmos  
 are blooming late this season.  
 Violets are looking fairly well.  
 EDWIN A. SEIDEWITZ.

**ASPARAGUS PLUMOSUS NANUS,**  
**W. H. ELLIOTT,**  
 When Writing Mention Florists' Exchange

**Buffalo Cut Flower Exchange**  
**WHOLESALE COMMISSION.**  
 CONSIGNMENTS SOLICITED.  
 481 Washington St., BUFFALO, N. Y.  
 Telephone, Seneca, 1865.

**ILLINOIS CUT FLOWER CO.,**  
 J. B. DEAMUD MANAGER.  
 Wholesale Commission Florists,  
 51 Wabash Ave., - CHICAGO.  
 When Writing Mention Florists' Exchange

**St. Louis Cut Flower Co.**  
**WHOLESALE FLORISTS,**  
 1620 Olive St.,  
 ST. LOUIS, MO.  
 When Writing Mention Florists' Exchange

**Galax Leaves.**  
 CHAS. H. RICKSECKER, Linville, N. C.  
 When Writing Mention Florists' Exchange

... FINEST ...  
**GALAX LEAVES and LEUCOTHOE SPRAYS.**  
 Green Galax Leaves are now ready to ship.  
 ALWAYS WRITE THE INTRODUCERS.  
**HARLAN P. KELSEY,**  
 1123 Tremont Building, BOSTON, MASS.  
 When Writing Mention Florists' Exchange

**ROSE BERN CO.**  
 Flowerers of Cut  
 Ferns, 50c per 1000. Laurel and Princess Pine  
 50c each. Wholesale of all kinds. Cut  
 Mass. Trees, Etc. Lowest Prices always for First  
 Quality Goods. 27 Beacon St., Boston, Mass.  
 Home Office, Millerton, Mass.  
 When Writing Mention Florists' Exchange

**GROOD P.E.**  
 Ready October 15th. Car Lots a Specialty. Write for Prices.  
**CURRIE BROS., Milwaukee, Wis.**

**HARDY FERNS**  
 WARRANTED FIRST QUALITY.  
 Write for Prices.  
 ALSO DEALER IN  
**BOUQUET GREEN, SPHAGNUM MOSS, CHRISTMAS TREES**  
 Etc., Etc., Etc.  
**L. B. BRACUE, - HINSDALE, MASS.**  
 Oldest, Largest, and Most Reliable Dealer in the United States.  
 When Writing Mention Florists' Exchange

# SAVE 50% DUTY

ON METAL FLORAL DESIGNS By Buying of the Manufacturer. Largest Stock, Best Quality, Lowest Prices.

PREPARED CYCAS PALM LEAVES

ALL FLORISTS' SUPPLIES SECOND TO NONE. WRITE FOR CATALOGUE.  
**A. HERRMANN,** 404, 406, 408, 410, 412 East 34th Street, NEW YORK CITY.

Manufacturer of METAL FLORAL DESIGNS, Importer and Dealer IN FLORISTS' SUPPLIES.  
 When Writing Mention Florists' Exchange

# Florists' Supplies.

Largest Stock in the Country.

All goods up to date, and of superior quality.  
 Write us for prices and other information.

**H. BAYERSDORFER & CO.,**

66 N. FOURTH STREET, PHILADELPHIA, PA.  
 When Writing Mention Florists' Exchange

**AUGUST RÖLKER & SONS,**

WHOLESALE DEALERS IN

## SUNDRIES

FOR FLORISTS AND HORTICULTURISTS,  
 have removed their extensive stocks to their  
 New Store and Offices at  
**53 DEV STREET, NEW YORK.**

ORDERS FROM THE TRADE SOLICITED.  
 When Writing Mention Florists' Exchange

**DRACENA SANDERIANA** Five plant from 2 in pots, \$4.00 per doz. 2 1/2 in. pots, \$2.00 per doz.

**SILAX** Strong bushy plants, 2 1/2 inch pots, \$2.00 per 100.

**CALIFORNIA VIOLETS** Field-grown plants, at \$4.00 per 100.

**CLEMATIS PANICULATA** 3 in. pots, \$4.00 per 100.

**C. EISELE, 11th & Jefferson Sts., Philadelphia, Pa.**  
 When Writing Mention Florists' Exchange

## HARDY PLANTS AND VINES.

**Honeysuckles.** Hall's Evergreen, very large, 3 to 4 feet, \$2.00 per 100.

**Honeysuckles.** Hall's Evergreen, fine plants, 2 ft., \$1.00 per 100.

**Trumpet Vines.** extra fine, 3 to 4 ft., \$4.00 per 100.

**Paeonia Vines.** strong, 4 to 6 ft., \$7.00 per 100.

**Hollyhocks.** large plants, \$4.00 per 100.

Others all strong field-grown and will suit. Cash with order.

**WYLLIS CLARK, 813 1/2 St. M. W., Washington, D. C.**

## A YELLOW DAISY.

**Chrysanthemum Megnum Grandiflorum** (Yellow Paris Daisy)

Fine healthy plants, will give satisfaction, per doz., \$2.00; per 100, \$20.00.

**GREVILLE ROBUSTA.** From 2 1/2 inch pots, per doz., 40 cents; per 100, \$3.00; per 1000, \$20.00.

Orders looked up for Rooted Cuttings of Carrotion, Chinese Geraniums, Asters anderbas and Birds and Bermuda Roses. Prices very cheap. Give me a trial order.

**ELMER J. RAWLINS, - - Quakertown, Pa.**  
 When Writing Mention Florists' Exchange



# DREER'S Special Offer Of AZALEAS

Expected to arrive early in OCTOBER. . . .

The Quality this season will be fully equal to what we have sent out for several seasons past, which has given universal satisfaction, which is shown by the greatly increased number of orders already booked.

**The Tariff** which has been increased to 25 per cent. on this class of stock will not affect the price, as we have been successful in making such arrangements with our Belgian growers (who are among the most successful specialists in this class of plants), which enable us to sell at the same prices as last season.

**The Varieties** we offer are such only as are known to us as the best plants, well set with buds.

**Shipment** can be safely made by freight to any part of the country, if orders are placed at once.

10 to 12 inch crowns, bushy and well set.....	\$35.00 per 100
10 to 12 " " " " extra heavy .....	40.00 "
13 to 15 " " " " .....	60.00 "
13 to 15 " " " " extra heavy .....	65.00 "
Specimen Plants, 18 to 24 inches in diameter, \$34.00, \$50.00 and \$26.00 per doz.	

**HENRY A. DREER, 714 Chestnut Street, PHILADELPHIA.**  
 When Writing Mention Florists' Exchange

# RECEIVER'S SALE!

THE ENTIRE STOCK OF PLANTS OF

**PITCHER & MANDA, at Short Hills, N. J.**

WILL BE OFFERED FOR SALE, WITHOUT RESERVE, ON

# OCTOBER 4th, 5th, 6th and 7th NEXT.

The Stock consists of over **100,000 PALMS** in splendid condition, in such standard varieties as **Areca Baueri, Areca lutescens, Cocos Weddeliana, Kentia Belmoreana, Kentia Fors- teriana, Latania borbonica, Phoenix reclinata, Livistona rotundifolia, etc., etc.**

Also the finest stock of **Adiantum Farleyense** ever seen in this country, and a **general assortment of other FERNS**, as well as a very fine lot of **Ornamental Foliage Plants** containing many choice things not to be found elsewhere together with all the **Greenhouses, Packing Sheds, etc.**, and all the **Real Estate**, which will be sold in four distinct parcels as follows:

No. 1.—Contains about 10 1/2 acres, on which are all the greenhouses, about 80,000 feet of glass, all in excellent condition; a dwelling house, containing eight rooms; stable, store rooms, packing sheds, several hundred sash and frames, etc., etc. This is a specially favorable opportunity to purchase a well established Florist and Nursery business at a greatly reduced price, within three minutes' walk of the railroad station, and eighteen miles from New York City.

No. 2.—Contains about 3 acres, with a good dwelling house on it, within 500 feet of the railroad station.

No. 3.—Contains about 6 1/4 acres, now used as an Herbaceous Nursery, and is well stocked with the largest and best collection of these plants in the country. Close to railroad station.

No. 4.—Contains about 62 acres, well adapted for an excellent Nursery, Farm, or to cut up for building lots. This is situated on the main road between Short Hills and Summit, and one mile from each station.

For Catalogue containing full particulars write to  
**JOHN N. MAY, Receiver, SHORT HILLS, N. J., or**

**CLEARY & CO., Auctioneers, 60 Vesey St., New York.**  
 When Writing Mention Florists' Exchange

# BOUCAINVILLEAS! CALIFORNIA PRIVET.

**FACTS.** The plants are strong, rapid growers. They are easily handled in all stages of growth. The two varieties offered are very readily propagated. They are not subject to any insect pests. They are free and continuous bloomers for four to six months in the forefront of the year. The bloom-bracts are very durable on plant or in cut sprays. The color is showy and very attractive. Send for "FACTS and Comments."

We offer nice stock of both varieties, from 5 inch pots. **GLABRA** (7) 15 to 30 inches above pots, 4 to 6 shoots. **GLABRA SANDERIANA**, 15 to 25 inches above pots, 6 to 8 shoots. Price, \$50.00 per 100; plants at 100 rates. The above plants can be safely shipped by freight to points within a week's shipping distance of Pittsburgh. We mail a nice branched plants of either variety, from 2 1/2 in. pots, for \$1.00, or 12 for \$5.00. **CASH WITH ORDER.** **THEO. F. BECKERT, Glenfield, Pa.** NEVILLE ISLAND, 5 miles below Pittsburgh, Pa. When Writing Mention Florists' Exchange

30,000 of this valuable hedge plant. We guarantee that there are no better plants grown than ours for the money. They are all transplanted. 12 to 18 in., \$10.00 per 100; 2 to 3 ft., \$50.00 per 100; 3 to 4 ft., \$35.00 per 100.

**Clematis** *Paniculata*, \$8.00 and \$8.00 per 100. Very heavy, \$4.00 per 100. **Jacqueline and Henry's**, \$15.00 and \$16.00 per 100.

**Roses.** We are growing on our own roots and will future make one of our specialties General assortment, on our own roots, \$10.00 per 100. **Empress of China**, strong, on own roots, \$8.00 per 100.

**Honeysuckles.** First-class, \$4.00 per 100. Extra, \$6.00 per 100.

**Herbaceous Plants.** A fine collection, 40 named varieties, \$8.00 per 100.

**Tree Pæonies.** 2 years, strong, 60 varieties, 60 cts. each.

## MAIDENS BLUSH. yet introduced.

Undoubtedly the best pink CANNA yet introduced. **THE CONARD & JONES CO., WEST GROVE, PA.** When Writing Mention Florists' Exchange

**Hydrangeas.** *Otakas* and *Hortensia*, suitable for 4, 8 and 8 in. pots, at 8 cts., 8 cts. and 15 cts. Large plants, for tubs, at 60 cts.

**Hollyhocks.** Strong, field-grown plants, to color, \$6.00 per 100.

**Ficus Elastica.** Nice plants, at 8 cts., 10 cts., 15 cts., 25 cts. and 35 cts. Our stock plants of this plant are for sale as we have given up growing it. Branches have all been taken off for cuttings. Plants are from 1 ft. to 5 ft. high, bodies of large plants, 1 1/4 in. diam. Price, 15 cts. to \$1.00, according to size.

## Tree Roses

2,000 superior Holland grown and transplanted Tree Roses for early shipment. Rhododendrons, English or Holland grown, Azaleas, Shrubs and Nursery Stock in general. **KEENE & FOULK, - FLUSHING, N. Y.** When Writing Mention Florists' Exchange

**Japan Maples.** *Atripurpureum*, *Atripurpureum Dissectum*, *Amurum*, and *Sanguifolium*, 18 to 24 in., 30 cents; 2 to 4 ft., 45 cts. 5 per cent. discount allowed on all orders given now for Japan Maples for Spring delivery.

**Ampelopsis** *Vitellifolia* and *Purpurea*. Field-grown, 2 yrs., extra heavy, 48 per 100. Plants out of 3 in. pots, \$5.00 per 100. We are safe to saying we have the "best" stock of these plants in the United States.

## PLANTS 500,000 PANSIES PLANTS THE JENNINGS STRAIN.

Extra Fine Stocky Plants, Field-grown. The Leading Strain to Date. Mr. William Scott, of Buffalo, N. Y., writes under date of June 8, '97. "Your seed produced the finest Pansies I have ever seen." Mr. Scott knows a good thing when he sees it. **Finest Mixed, per 100, by mail, 75 cts.; 500 for \$2.00; 1000 for \$4.00; 5000 for \$18.00.** Cash with order.

**Shrubs.** General assortment, \$8.00 per 100. Our assortment, 2 to 3 ft., \$4 a 100.

**Shade Trees.** In large quantities, must be seen to be appreciated.

**Standard Privet.** Trimmed to represent Sweet Bay Trees.

**Standard Ailanthus, Deutzias, Exochorda Grandiflora, Forsythia, Syringa, Viburnum Plicatum, Wikströmia Sinensis.** Prices on application.

**E. B. JENNINGS, (Lock Box 254), SOUTHPORT, CONN.** GROWER OF THE FINEST PANSIES. When Writing Mention Florists' Exchange

## THE ELIZABETH NURSERY COMPANY, - Elizabeth, N. J.

When Writing Mention Florists' Exchange

## HERR'S PANSIES ARE THE BEST.

Plants ready now, at \$5.00 per 100; 75 cts. per 100. A trial order solicited from every florist. **SMILAX,** at \$1.25 per 100; \$10.00 per 1000. Sample for 10 cents. **McGowan, Florida, Keifer, Plants Abundance, Armadillo,** 5 cts. each, Fine Plants, Seconds, 2 1/2 cts. each.

**...HERR'S... CARNATIONS**

**3000 TRIUMPH,** the best pink in every particular I ever grew, at \$7.50 per 1000.

**ALBERT M. HERR, Lancaster, Pa.** When Writing Mention Florists' Exchange

## Extra Fine Cyclamen CARNARAS IN BLOOM AND BUD.

6 and 8 in. pots, \$6.00 to \$12.00 per doz.

**CHRYSANTHEMUMS, PRIMROSES! PRIMROSES!**

All varieties, 5 and 6 in. pots, \$3.00 to \$6.00 per doz. All disbudded and in fine condition.

**CHAS. KROMBACH, 181 2nd Street, Brooklyn, N. Y.** When Writing Mention Florists' Exchange

## CHICAGO FLOWER SHOW NOV. 9th to 13th, Inclusive. INTERNATIONAL COMPETITION IN CHRYSANTHEMUMS.

56 Premiums of \$5.00 each for best 12 Blooms, 12 vars.; from each State, Territory and Canadian Province. \$50.00 SPECIAL PREMIUM FOR BEST 12 BLOOMS To be Competed for by the Blooms Winning Above Prizes.

## CYCLAMEN. "GIGANTEUM" AS FINE AS THEY CAN BE GROWN.

3 in. fine, per doz., \$0.75; per 100, \$6.00  
3 1/2 " " " 1.25; " 10.00  
5 " " " 2.50; " 20.00

**JOHN E. DE WALT, Box 82, - CARLISLE, PA.** When Writing Mention Florists' Exchange

PROMISED LISTS ON APPLICATION. **THE HORTICULTURAL SOCIETY OF CHICAGO, R 202, 185 DEARBORN ST., CHICAGO.** When Writing Mention Florists' Exchange

## AGAPANTHUS 75 plants in 6 and 7 in. pots

Who wants them?... Make us an offer. **SALTER BROS., Rochester, N. Y.** When Writing Mention Florists' Exchange

### PRIMULA POLYBLOCCA.

Very fine plants, some in bloom, 8 in. pots, \$5.00  
 Begonia, Best, 10 vars., 8 in. pots, 8.00  
 Cyclamen Californicum, 8 in., 8.00  
 Gold Calceolarias, 4 in., strong, 3.00  
 In case for winter outdoor, 6.00  
 Heliotropes, Lemon's Brilliant, strong, bushy, 2 inch, immense, 4.00  
 Begonia, 4 in. pots, 4.00  
 newell, the best Begonia out, 2.50  
 Metalia, alba, 2 1/2 in., 1.50  
 Genista Racemosa, 3 1/2 in., 5.00  
 Swainsona, 4 in. Box, 4 in. pots, 5.00  
 Genista Glass Prize, 3 in., 5.00  
 Chinese Primrose, 6 in. pot, 5.00  
 Double Petunias, 5 in. pot, 2.00  
 Double Petunias, 40 varieties, 5 in. pot, 5.00  
 Double Petunias, 5 in. pot, 5.00

**WILL SELL, MUST HAVE ROOM.**  
 5,000 SMILAX, strong and thrifty, 2 in. pots, \$1.00 per 100; \$10.00 per 1000.

**ROOTED CUTTINGS, BY MAIL.** 100 Geraniums, 25 choice varieties, \$1.50  
 Ivy Geraniums, 10 choice varieties, 1.50  
 Abutilons, Soule de Neice, Splendid, Golden Fleec and Soule de Bonheur, 1.50  
 Heliotropes, 8 varieties including Lemon's and Brongniart, 1.00  
 Double Petunias, 50 varieties, 1.25  
 New varieties not yet ready.

**GEORGE J. HUGHES, Berlin, N. J.** When Writing Mention Florists' Exchange

# GROUND PINE.

Ready October 15th. Car Lots a Specialty. Write for Prices.

**CURRIE BROS., Milwaukee, Wis.**

When Writing Mention Florists' Exchange



## HARDY FERNS

WARRANTED FIRST QUALITY.

Write for Prices.

— ALSO DEALER IN —

**BOUQUET GREEN, SPHAGNUM SOCS, CHRISTMAS TREES**

Etc., Etc., Etc.

**L. B. BRACUE, - - HINSDALE, MASS.**

Oldest, Largest, and Most Reliable Dealer in the United States.

When Writing Mention Florists' Exchange

## Galax Leaves and Leucothoe Sprays FOR DECORATING.

Can be had of all Wholesale Florists who are supplied by us, or write or wire me direct.

**5,000 GALAX LEAVES** (green, bronze or assorted)..... \$3 75

**LEUCOTHOE SPRAYS**..... per 100, 75c.; per 1000, 6 00

**CASE** containing 5,000 assorted GALAX and 300

**LEUCOTHOE SPRAYS**.....for 6 00 cash.

Be sure and write or wire orders to the introducer.

**HARLAN P. KELSEY, 1123 Tremont Building, - BOSTON, MASS.**

When Writing Mention Florists' Exchange

WELL  
BOUGHT  
IS  
HALF  
SOLD.

## Christmas Decorations

We are headquarters, and you are not taking chances by placing your order with us for

**CHOICE HOLLY, SELECT BOUQUET GREEN, EVERGREEN, HOLLY WREATHS, MISTLETOE, PALMETTO LEAVES, NEEDLE PINES.**

We handle these goods in enormous quantities, and can save you money whenever you buy by the crate, ton or carload.

**FULL LINE OF FALL BULBS READY NOW.**

**Free to Florists.**—The Services of our Purchasing Department covering all Lines of Merchandise. Write for Information.

**W. W. BARNARD & CO., 186 E. Kinzie St., CHICAGO.**

When Writing Mention Florists' Exchange

## GREEN LEAVES

**GREEN** Leaves now in prime condition and I am prepared to fill orders promptly.

**BRONZE** Leaves will begin to come in about November 1st, and all orders booked ahead will be filled strictly in rotation.

**WHOLESALE FLORISTS GENERALLY.**

Or write for price and free sample to

**CHARLES H. RICKSECKER, - Linville, North Carolina.**

When Writing Mention Florists' Exchange

## Some Late Blooming Shrubs and Vines.

The shrubs and vines which naturally bloom after midsummer do not, as a rule, fare so well as those which unfold their flowers in the earlier part of the season; this is when left to their own devices. This state of affairs is due to the long, protracted dry period, which is liable to occur during the late summer and autumn months. It will help those shrubs and vines wonderfully if the ground around their roots be covered for a few inches with some material which will prevent a too rapid evaporation of moisture.

*Caryopteris mastacanthus*, sent out lately as the blue spirea, is a most decorative subject or for its flowers. North here it is apt to be killed to the ground every winter, but this matters little, as it makes a most profuse growth and flowers at the usual time. It is in full bloom here about the middle of September. We have had it planted out in a fully exposed border for three years; the first winter it was killed to the ground, but since that time the wood has escaped from frost and has broken out nicely each spring. It is a native of China and Japan. Not only can this species be used for the above purposes, but by special treatment its season of blooming can be prolonged till Christmas. The late John Snel had a batch of it last season at that time. His method was to grow the plants in four-inch pots till near the usual blooming period, then cut back and shift into six-inch pots. The plants sent out fresh growths which made a wonderful display of color to the eye. In this part of the country the season seems too short to permit of their ripening seeds, but here in September cuttings will root in a cool propagating house; even the hard flowering wood demanded of the growers will answer satisfactorily.

*Hydrangea paniculata grandiflora* comes into bloom with us during the first half of August. Its merits as a florist's flower are well known to every cultivator here, and by taking the growths of the current year after the leaves have performed their function, cuttings may be put into lengths of about ten inches and putting them in rows in a sheltered position out-of-doors, trailing them in front. About two inches of the length of the cutting should be left above ground. As hard winters as ours they may be covered over with dead leaves.

The crepe myrtle (*Lagerstræmia indica*) seems quite unknown to many florists in the Northern States, for during the visit of the N. A. F. to Mount Vernon on the octonome, the finest specimen which they have been growing on the estate for over 60 years, although in full flower, were unknown to quite a large number. In the New England States it is, of course, classed as a tender shrub, but with a little protection, or even left the plants for the winter, splendid results are sometimes secured. Old plants have been found in perfect condition in the early part of the century. Seedlings will flower the first year from seed, if the winter is not so severe that they get killed to the ground. This sometimes happens to two-year-old plants, but by cutting them down they never hurt. Seedlings which do get cut to the ground sprout up again and bloom as if nothing had happened. There are nearly a dozen shades of red, pink, purple, and white. The easiest method of propagation is from seed, of which plants above two years old give a plentiful supply.

*Abelia rupestris*, the rock abelia, flowers from midsummer till frost. The flowers are small but very numerous. It is harder than the laegerstræmia. With us it is the most desirable of all the late flowering shrubs. Cuttings of the best growths put in any time during September or October in a cool bed will root, and the plants which the leaves should have the benefit of a humid atmosphere to prevent them from withering.

The chaste tree (*Chastaneas*) is a native of the shores of the Mediterranean. It has long panicles of bluish purple flowers, and is most desirable for growing shrub, as it seems to delight in hot dry weather. There is a variety with white flowers. The flowering period is from the middle of August till cool weather.

*V. campbellii* is a tall, wide-spreading shrub with loose panicles of pale blue flowers. There is an unnamed hybrid between these two species which is cultivated here, with very ornamental flowers and foliage. They ripen seeds freely which

should be sown when ripe and kept in a cool greenhouse.

*Lepodolobos*, or *Desmodium pentandrium*, is an herbaceous plant, but it is used and classed as a shrub. It makes a dense bush several feet high, with myriads of small, pea-shaped blooms. The white variety is useful for dry and warm climates, but cannot be obtained; the plants may be increased from cuttings of the growing shoots in July and August. *Prodrindron trichotomum*, a Japanese species, is quite a useful plant for poor soils. While it is in full bloom, Mr. C. Tetford has dense heads of bright pink flowers. It is hardly much further north, but loses its root case in winter. In the Southern States it has proved a most desirable species.

The striped althaea, *Hibiscus sylvicus*, are the best known of the late flowering shrubs. The variety *tohus albus* is a most useful one for floral work. It comes true from seed. The many handsome double forms are easily propagated from cuttings of ripened growths after the leaves have fallen.

*Clematis paniculata* has been widely advertised lately as a good flowering vine, and it certainly deserves wide cultivation. It blooms during the months of August and September, and the season is prolonged if the plants are given situations where the rooting, recommended by the growers, is better than other plants. If the seed is sown as soon as ripe, it will germinate in the following spring.

## The Chrysanthemum.

With cut blooms intended for exhibition there is no road to success as regards their perfect preservation, much depends upon good luck and the state in which the blooms were when cut.

It is an undesired fact that there is much misunderstanding among growers of the chrysanthemum, as to what qualities do in reality constitute a good bloom. Single and double, the latter to have its view. Other points or qualities may be set down as depth, solidity, breadth of petals, form, finish of flower and foliage, freshness, and most certainly, color.

There is one thing to which I wish to call special attention; it is the unsightly staking of chrysanthemum plants with willow and other stakes, reminding one of a cripple supported on crutches. They have neither grain, finish, nor even presence of color, nor flowers, with other form or coloring. If judged by a correct standard of coloring and finish of foliage it would be condemned and relegated to the rear. I trust the coming season that plants will be judged by a standard that will give us the best of the color, foliage, by the form and color of bloom, and that the plant shall exhibit only the best of its foliage, and not a forest of unsightly sticks supporting a weak stem with little or no foliage and colorless

The first chrysanthemum exhibit for prizes in this city was held at the Massachusetts Horticultural Society in 1861, and the prizes were \$17. In 1868 the exhibition was held at the chrysanthemum show, and the prizes were increased to \$75. At first the shows were on Saturdays, but in 1876 they were held days, and in 1896 the prizes amounted to \$1,200. The last exhibit surpassed all previous ones, and it is in the United States, and it is believed, was not outside in any part of the world. In the arrangement of the show, the result, the Society can justly take a large share of credit, with its encouraging, generous spirit, and the fact that Boston may well feel a just pride in the efforts of the growers who made it possible to give us such a show.

To be able to give a debt of gratitude is also due; nowhere in the world do the people have so much to be proud of as in the chrysanthemum. At the present time we stand on the threshold of some of the most important and most valuable improvements which technical schools are sure to bring. The goal of technical schools is to give us the best of the chrysanthemum, and when reached, there can be no doubt of the established value of the chrysanthemum, in a material sense, while aesthetically, in bringing it to its highest pitch of perfection there is no doubt that it will have succeeded in making it a joy forever.—E. M. Wood, of Natick, Mass., was Massachusetts Horticultural Society.

# FREE BOILER FUEL

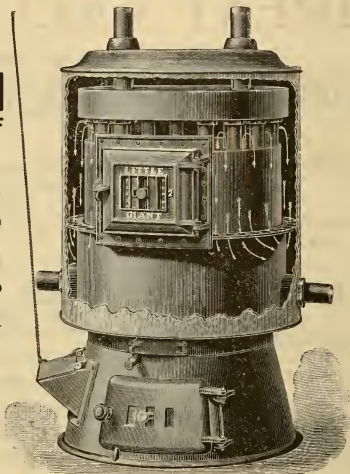
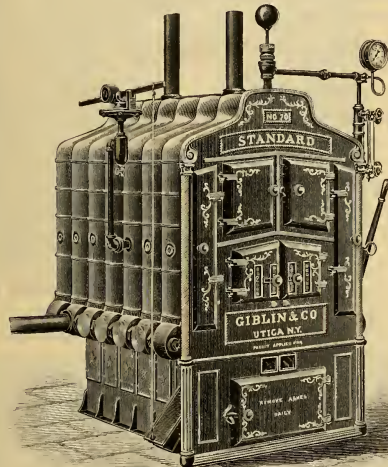
For the purpose of introducing our boilers where they are not known, we will sell at . . . . .

to the person in each town who first orders a boiler for his own use and in addition will . . . . .

on the net price towards paying for the fuel consumed the first winter . . . . .

## WHOLESALE DONATE 25%

OUR STANDING *BRADSTREET'S, Highest Credit.*  
*DUN'S.*  
*JOHN W. EALY CO. " " "*



While our boilers have been sold for the past seven years in the whole cold region of the United States, yet there are some places where they are not known and we make this **EXTRAORDINARY** offer to make them known.

This advertisement will appear this time **ONLY**, and any one wanting a boiler may inquire by mail, when full particulars will be given and a chance of . . . . .

### LIFE TIME

offered to obtain a boiler at a nominal cost . . . . .

# GIBLIN & CO. Utica, N. Y.

When Writing Mention Florists' Exchange

"B. T. GALLOWAY,  
Chief Clerk of the Dept. of Agriculture,  
Washington, D. C.

"The Standard Steam Boiler No. 3 is equal to what you claim." \* \* \* On Jan. 6 it was 32° below zero. \* \* \* It kept me warm and would have done more."

FRED K. A. TAYLOR, Florist,  
Canastota, N. Y.

"It gives in heat full value for every pound of coal it consumes."

D. B. OWENS, Florist,  
Whitesboro, N. Y.

"It was a surprise to me to see how quickly the pipes were filled with steam."

C. A. VAN VALKENBURGH, Florist,  
Little Falls, N. Y.

"Your Little Giant Boiler is the most powerful for the size and price I have seen and I have used several high-price heaters."

J. CULVER VOORHEES, Florist,  
Somerville, N. Y.

"Your No. 1 Boiler is the best steamer I have ever seen."

CHAS. T. SMITH, Florist,  
West Nyack, N. Y.

"It runs with very little attention and is very economical in the use of fuel, and in every respect a first-class boiler."

C. B. HUMPHREY, Florist,  
Rome, N. Y.

"I purchased a No. 13 Little Giant Hot Water Boiler from you last November and am well pleased with its work. It heated 520 feet of 4-inch pipe, and I had to use care in firing to prevent the water from boiling over in the expansion tank. I intend making it heat another house 8012 feet that I propose building this coming summer. I have found the boiler all that could be desired."

JOHN MAJOR, Florist,  
Cokeville, Westmoreland County, Pa.

"The No. 2 Standard Hot Water Boiler we had from you last fall has been very satisfactory in every respect; works well, heats well and uses less coal than any boiler we have."

"SALTER BROS., Florists,"  
38 W. Main St., Rochester, N. Y.

"I am very much pleased with my No. 12 Little Giant Hot Water Boiler, and it is a Giant indeed. It heats so much that I am thinking of building on just as much more greenhouse as I now have, and feel quite confident it will take care of it all right. You need not hesitate at any time if any one wants to know about this boiler to have them write me."

M. S. WORDEN,  
North Adams, Mass.

"From what we have seen of the No. 13 Little Giant Hot Water Boiler we do not hesitate to say we believe it good for all you claim for it. We have never had need of a heavy fire, so do not know its power when urged to its best. We shall be glad to recommend it to any one in want of a first-class heater."

E. E. VENEN, Florist,  
Conestoga, Ohio.

FRIDAY, OCTOBER 15.

SANDER'S

FRIDAY, OCTOBER 15.

GREAT FALL SALE OF ORCHIDS

INCLUDES LARGE IMPORTATIONS OF

FLORISTS' DENDROBES, FLORISTS' CATTLEYS, CYPRIPEDIUMS, ODONTOGLOSSUMS, Etc., Etc.,

In splendid condition, selected for the strong, free flowering, easy growing and useful character. Many will yield a succession of flowers during the coming Winter. The above are from F. SANDER & CO., St. Albans, England, and Bruges, Belgium.

ILLUSTRATED CATALOGUES NOW READY AND MAILED ON APPLICATION

CLEARY & CO., Horticultural Auctioneers, 60 VESEY STREET, NEW YORK.

When Writing Mention Florists' Exchange

300,000 Small and Large FERNS

In variety, well-grown, reasonable prices. Send names for samples. CIGOS WEDDELIANA 3/4 in. pots, \$6.00 per 100. GARNATIONS from field, Veyr, Daybreak, Scott, etc. B. REDFIELD, - Glenside, Pa. When Writing Mention Florists' Exchange

PALMS AND OTHER DECORATIVE PLANTS At Greater Reduced Prices. Stock large and in the condition. Send for new Wholesale List. Special prices on large orders. Send in list of your wants. W. J. HESSER, Plainmouth, Neb. When Writing Mention Florists' Exchange

AZALEA INDICA

Ready for Delivery. Write us for prices on these also DUTCH BULBS. L. C. BOBBINK, Rutherford, N. J. The Horticultural Company, Baskoek, Holland. When Writing Mention Florists' Exchange

Cyperus Alternifolius.

2 1/2 in. pots, 60 cts. per doz.; \$2.50 per 100. GREVILLEA ROBUSTA, 3/4 in. pots, 40 cts. per doz.; \$2.50 per 100. ASPARAGUS TENUISSIMUS, 3 in. pots, 50 cts. per doz.; \$3.50 per 100. CALIFORNIA VIOLETS, field-grown, \$4.00 per 100. CARNATIONS, Mapledale (new), \$8.00 per 100. Medium sized plants of the following standard varieties, \$4.00 per 100. Fortis, Wm. Scott, Della Fox, The Stuart and Adrial Wave. NATHAN SMITH & SON, Tidial, Mich. When Writing Mention Florists' Exchange

PALMS.

Phoenix Farinifera, 6 in. pots, 100 2 1/2 to 3 feet high, full character, \$38.00. Phoenix Farinifera, 4 in. pots, 15 to 2 feet high, showing character. Phoenix Pinnata, Paludosa, Syvestris, same as above. 20.00 Enterpe, Edulis, 16 inches high, full character, beautiful stock, 15.00 Scaevola Elegans, 4 in. pots, 20 to 2 1/2 inches high, 20.00 Cocos Weddelliana, 3 in. pots, 12 to 15 inches long, 25.00 Zamiis, 3 leaves, 12 to 15 inches long, 12.00 4 to 5 leaves, 12 to 15 " 16.00 A large stock of other Palms, Cycas, Amaryllis, and miscellaneous plants, specially adapted to mail trade. Send us your list to figure on. JESSAMINE GARDENS, Jessamine, Fla. When Writing Mention Florists' Exchange

PALMS

Areca Lutescens, Latania Borbonica, Kentias, Cocos Weddelliana, &c. HARDY, HOME-GROWN, PERFECT PLANTS, LARGE STOCK OF ALL SIZES. Call and see them. They will bear inspection.

WHOLESALE LIST ON APPLICATION. JOSEPH HEACOCK, WYNCOTE, PA. When Writing Mention Florists' Exchange



Established 1857. Phone, L. V. 136. GEO. WITTBOLD, Grower and Importer of TROPICAL PLANTS, 1708 NORTH HALSTED STREET, CHICAGO, ILL. Corner Aldine Avenue.

Largest Stock of Tropical Plants in the West. The following is a list of our stock. It is in excellent condition, and we are confident that we can please you, both as to quality and value.

Table with columns: VARIETIES, Size, Height, Character, Each, Doz., 100. Includes items like Areca Lutescens, Corypha Australis, Kentia Belmoreana, Forsteriana, Latania Borbonica, Phoenix Reclinata, and Canariensis.

FERNS.

Table with columns: VARIETIES, Price per doz., Price per 100. Includes items like Adiantum Cuneatum, Nephrolepis Exaltata, Neprodium Motia Cristata, and Oenothera Japonicum.

MISCELLANEOUS PLANTS. Asparagus Plumosa Nanus, from 2 inch pots, Per 100, \$3.00. Cyperus Alternifolius, 4 inch pots, Per 100, \$3.00. Pandanus UHLS, 4 inch pots, Per 100, \$3.00. Order now while the warm weather lasts. All orders from unknown parties must be accompanied by cash or acceptable reference. When Writing Mention Florists' Exchange

EVERY FLORIST OUGHT TO HAVE HIS GLASS AGAINST HIS WALL.

For particulars address JOHN G. SEILER, 607 1/2 Middle River, N. J. When Writing Mention Florists' Exchange. FERNS BY THE THOUSANDS IN TWENTY VARIETIES. From flats, \$1.75 per 100; from 2 inch pots, \$3.00 per 100; 3 inch pots, \$6.00 per 100. FERN SPOKE in many varieties, 50c per pot; 3 for \$1.00. All good value for cash, with order. EDWARD D. DROWN, - Weldon, Pa. When Writing Mention Florists' Exchange

LOOK HERE

The following plants are in AI condition. Asparagus Plumosa Nanus, fine climbing variety, 2 1/2 inch pots, \$7.00 per 100. A. Palm, 2 1/2 inch pots, each, \$2.00 per 100; 3 1/2 inch pots, each, \$3.00 per 100. Field-grown Carnations, 3000 Daybreak, 1000 Wm. Scott, 1000 Della Fox, 1000 Bridemaid, 25c in pots; 1000 Bridemaid, 25c in pots; 1000 Ferns, 25c in pots. C. MERKEL & SON, Mentor, Ohio.

JULIUS ROEHR'S, Headquarters for Palms and Decorative Plants, RUTHERFORD, N. J. P. O. Address, - Carlton Hill, N. J.

MUST BE SOLD TO MAKE ROOM.

1000 plants selected, 1 to 5 ft. high, fine plants; 2000 Adiantum cuneatum, 2 1/2 in. pots; strong; 1000 Asparagus plumosa, 2 1/2 in. pots; 1000 Bridemaid, 25c in pots; 1000 Della Fox, 25c in pots; 1000 Ferns, 25c in pots; 1000 Field-grown Carnations, 3000 Daybreak, 1000 Wm. Scott, 1000 Della Fox, 1000 Bridemaid, 25c in pots; 1000 Ferns, 25c in pots. RUXTON FLORAL & NURSERY CO., Ruxton, - MARYLAND.

CYPERUS ALTERNIFOLIUS.

3 in. pots, ..... \$3.00 per 100. 2 1/2 " ..... 3.00 " 100. Cash with order. GEORGE L. MILLER, - Newark, Ohio. When Writing Mention Florists' Exchange

SURPLUS STOCK EXTRA FINE PLANTS.

Selaginella Emiliata, extra fine, \$4.00 per 100. Cyperus Alternifolius, bushy plants, 2 1/2 inch, \$2.00 per 100. Cyperus Alternifolius, bushy plants, 3 inch, \$2.00 per 100. Phalaenopsis Villosum, 1 inch pots, \$4.00 per 100. Kalmia latifolia, 1 in. per doz., \$1.00. Cattleya Tharalact and Miss Darlington, \$3.00 per bush with order.

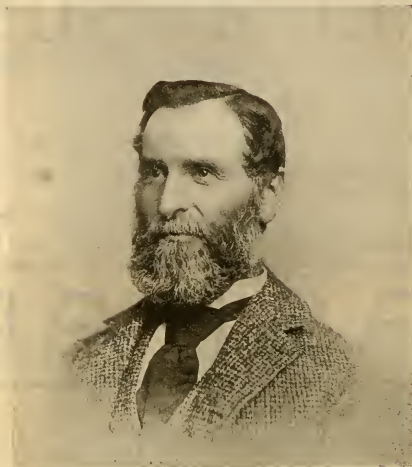
FROM OPEN GROUND.

Clematis flammula, 3 year, strong plants, \$10.00 per 100. Cyperus Alternifolius, extra fine, \$2.00 per 100. English Ivy, 1 year old, \$2.00 per 100. Galium verum, 1 in. per doz., \$1.00. Phalaenopsis Villosum, extra fine, \$1.00 per 100. Prince and of Wales Violets, strong plants, \$7.00 per 100. Cash with order. CHAS. ZIMMER, West Collingswood, N. J. When Writing Mention Florists' Exchange

# Echoes from the Providence Convention of the S. A. F.



William Frederick Gude.  
President-elect Society of American Florists and Ornamental Horticulturists.



Arthur Donaghue.  
Vice-Pres't-elect of the Society of American Florists and Ornamental Horticulturists.



Exhibit of Water Lilies.  
Made by Oakes Ames, Esq., (Carl Blomberg, Gdr.) North Easton, Mass., at Providence Convention, S. A. F.



Pyramid of Adiantum Farleyense.  
Exhibited by Pitcher & Manda, Inc., Short Hills, N. J., at Providence Convention.

**ASPARAGUS**

**PLUMOSUS**

**NANUS. . . .**

All the time. 365 Days  
and Nights in every Year,

Spring...

Summer.

Autumn .

Winter . .

WE ARE PREPARED TO FURNISH

**ASPARAGUS**

By the DOZEN or THOUSAND Strings.

WE HAVE ONLY ONE PRICE ON OUR REGULAR CUT STRINGS.

8 TO 12 FEET LONG, 50 CENTS EACH, IN LARGE OR SMALL QUANTITIES.

WE WILL QUOTE SPECIAL PRICES ON EXTRA LONG STRINGS



*Asparagus Plumosus Nanus.*

Order by Mail, . . .

Telephone or Telegraph.

Visit us by Rail, . . .

. . . Electric or on Foot.

Your orders or your visits will be equally welcome.

Greenhouses, near Oak  
Square, Brighton.

**W. H. ELLIOTT, Brighton, Mass.**

TAKE OAK SQUARE ELEC. RIC  
CAR FROM FLOWER MARKET,  
BOSTON.



Interior of Convention Hall. The Secretary reading Judges' Report.



Leaving the Narragansett Hotel.



Gateway and Residence of Mr. George S. Scott, on Bellvue Ave., Newport.



The Delegates at "Indian Hill," Newport.



Exhibit of Water Lilies.

Made by H. A. Dreer, Inc., Philadelphia, at Providence Convention, S. A. F.



"There'll Be a Hot Time in the Old Town To-night."

# COLLECTIONS. CREDITS. INFORMATION.

WRITE

CORNELIUS S. LODER, Secretary National Florists' Board of Trade,

271 BROADWAY, New York.

When Writing Mention Florists' Exchange

## LIVE SPHAGNUM MOSS

AND ORCHID PEAT.

BEST QUALITY.

For Prices, etc., address

Bernhard Lapp, New Providence, N. J.  
When Writing Mention Florists' Exchange

## MANURE

Fresh and well rotted horse manure. Manure for  
hushroom growing a specialty. Excellent facilities  
for shipping by Penn's, R. & P., & N. H. & O. and  
also by boat. Wm. A. Heston, Room 410,  
115 Fifth Street, Philadelphia, Pa.

When Writing Mention Florists' Exchange

## SHEEP MANURE

Cleaned and prepared especially for florists' use.  
You will find it the genuine article. For reference  
in the first class refer to Henry F. Mitchell, 1013 Market Street, Phila., Pa. Trial base  
of 50 lbs. \$2.00. Larger quantities at low rates.  
Cash with order.

When Writing Mention Florists' Exchange

Harmoss Manure will be taken in exchange.  
**CODREY ASCHMANN,**  
1012 Ontario St., PHILA., PA.  
When Writing Mention Florists' Exchange

## THE FLORISTS' FERTILIZER.

Made by steam process from pure night-soil  
(light and well rotted) combined with all  
absorbents. Fully matured and combines all  
the necessary elements for the fertilization of the soil  
and sustenance of plants. Quick in action. Ground  
fine and standard to handle.

**STANDARD FERTILIZER CO.,**  
1822 Filbert Street, PHILA. DELPHIA.  
When Writing Mention Florists' Exchange

"JADOO"  
FIBRE and LIQUID are used and  
endorsed by the leading growers.  
Try them and be convinced.

When Writing Mention Florists' Exchange

WALKER'S  
EXCELSIOR  
BRAND.  
..A..  
SOLUBLE  
FOOD  
For House Plants.



Perfectly Odorless.  
Contains No Acids.

An artistic booklet, entitled "The  
Window Garden, How to Make it a  
Success," by Eben E. Rexford, Floral  
Editor of the Ladies Home Journal,  
furnished free. Directions for use on  
every package.

WE ARE HEADQUARTERS FOR  
LAWN DRESSINGS AND FERTILIZERS.  
Liberal Prices and Terms to the Trade.  
WE PAY FREIGHT.  
WRITE US.

**The Walker Fertilizing Co.**  
CLIFTON SPRINGS, NEW YORK.  
When Writing Mention Florists' Exchange

**AUGUST RÖLKER & SONS,**  
WHOLESALE DEALERS IN  
**SUNDRIES**  
FOR FLORISTS AND HORTICULTURISTS,  
have removed their extensive stocks to their  
New Store and Offices at  
52 WEST STREET, NEW YORK.  
ORDERS FROM THE TRADE SOLICITED.  
When Writing Mention Florists' Exchange

## STANDARD FLOWER POTS

In any quantity, and of the best quality.  
Get my price list before ordering elsewhere.

**W. H. ERNEST,**  
Station M, N. E., WASHINGTON, D. C.  
When Writing Mention Florists' Exchange

## STANDARD POTS.

We are now ready to supply a superior  
quality of Pots in unlimited quantities.  
Catalogues and price lists furnished on  
application.

**A. H. HEWS & CO.,**  
NORTH CAMBRIDGE, - MASS.  
When Writing Mention Florists' Exchange

## CHOCOLATE COOLER CO.,

GRAND RAPIDS, MICH.  
Manufacturers of

## FLORIST'S REFRIGERATORS.

Send for Circular.  
When Writing Mention Florists' Exchange

THE BEST FOR ALL Florists.

FOR SALE BY Seed Stores.  
For Free Circulars, write to  
LOUISVILLE, KY  
LOUISVILLE, KY  
TOBACCO CO.  
Louisville, Ky

## FOR MILDEW AND BLACK ROT

on Roses, Fruits and Vegetables,  
and Carnation Roots.

USE FOSTITE, 1/2 pound, 50 cts.  
3 pounds, \$2.00.  
**G. H. JOOSTEN,** IMPORTER OF PLANTS,  
BULBS AND SEEDS,  
193 Greenwich St., New York.  
When Writing Mention Florists' Exchange

SAVE THE BLOOMS!  
**NIKOTEN**  
DOES NOT INJURE SENSITIVE  
PLANTS. USED FOR PUMPKIN  
AND CUCURBIT. 200 POUNDS  
READY IN ONE PINT MEASURE.  
Price \$1.50. ALL SFD. SMEN.  
When Writing Mention Florists' Exchange

## DEATH TO THE INSECTS HARMLESS TO THE PLANTS.

THE KENTUCKY EXTRACT CO'S  
KILL IT  
As an in-  
quick de-  
struction of  
the Apis  
cannot be re-  
collected. For  
sale by the  
leading  
dealers.

**SURE**  
THE KENTUCKY EXTRACT CO. Columbus, O.  
SOLE MANUFACTURERS.  
Book of Directions Sent Upon Application.  
When Writing Mention Florists' Exchange

**NO ADULTERATION BONE FLOUR NO ACID**  
Refer to: Fred. Dornier & Sons Co., La Fayette, Ind.  
John H. Taylor, Sayre, L. I., N. Y.  
A. W. Livingston's Sons, Columbus, O.  
L. L. May & Co., St. Paul, Minn.  
**GEO. S. BARTLETT,** 1255-1267 W. 5TH ST., CINCINNATI, O.  
SUCCESSOR TO CINCINNATI DESICCATING CO  
When Writing Mention Florists' Exchange

# MASTICA

FOR GLAZING GREENHOUSES. SUPERIOR TO PUTTY IN EVERY WAY.  
It is hardened by the extreme heat or cold that a greenhouse is constantly subjected to both inside  
and out. Mastica is adhesive and remains permanently elastic so that it is not forced out of place by ex-  
pansion and contraction of the woodwork. Houses glazed with Mastica do not need re-glazing, thus sav-  
ing time and expense. With Mastica use "Mastic" or use on the outside, but with a machine only.  
Mastica and Mastica Glazing Machine were given  
**HIGHEST AWARD OF SOCIETY OF AMERICAN FLORISTS AT PITTSBURG, 1895.**  
Put up in gallons, \$1.00. Half gallons, 80 cts. Quarter gallons, 35 cts.  
Mastical Glazing Machines, \$1.00 each.  
Send for full descriptive circular and testimonials. Agents in all the principal cities.  
**F. O. PIERCE CO.,** Sole Manufacturers, 170 Fulton St., New York.  
When Writing Mention Florists' Exchange

# A GOOD HOSE

IS A GOOD INVESTMENT.  
The best is the cheapest. To ascertain what a hose is worth, divide the cost per foot by  
the number of years it will last. We are in the market to compete in number of years with  
anything that is manufactured. Price 15c. per foot for 1/2 inch, 18 cts. per foot for 3/4 inch,  
and 20c. per foot for 1 inch hose.  
"Best hose I have bought in twelve years." - N. STUDES. "It is fine." - E. G. HILL.  
Honorable Mention Received at Providence from S. A. F. for  
Superior Quality of Tubing.  
Address **J. G. & A. ESLER,** Saddle River, N. J.  
When Writing Mention Florists' Exchange

# HOT BED MATS.

Made of strong burlaps, warmly  
lined with waste wool and quilted  
**WARM, DURABLE,  
CONVENIENT,  
CHEAP.**  
Excellent substitute for Straw  
Mats; are not injured by rain or  
snow; cost only one fourth as much  
as straw mats and last longer.  
Sample sent free on application.

**R. T. PALMER CO.** 113 Worth Street, NEW YORK,  
When Writing Mention Florists' Exchange

# TOBACCO STEMS

FRESH AND STRONG, 70 CTS. PER 100 LBS.  
**BEST STANDARD FLOWER POTS**  
SOLE AGENT FOR FACTORY.  
**RUBBER HOSE BULL DOG CARBON**

No.	Wds	Deep	Pr.
0	8 1/2"	12 1/2"	\$4.80
1	5 1/2"	10 "	4.20
2	4 1/2"	9 "	3.60
3	4 "	6 "	3.00
4	3 "	4 1/2"	2.40

Price Lists Mailed. Immediate Shipments  
**U. C. RYERSON,** - 123 Stone Street, NEWARK, N. J.  
When Writing Mention Florists' Exchange



Marching Through Providence.



On the Way to the "Day Star."



Inspecting the Traps.



Providence Men Fire at the Blue Focks.



A Friendly Confab on Board the "Day Star."



At the Bow of the "Day Star" in Providence Docks.

**LORD & BURNHAM CO.,**

Horticultural Architects and Builders Steam and Hot Water Heating Engineers.

(Established 1866.)

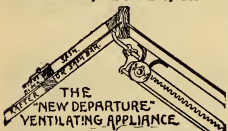
Plans and estimates furnished on application for Greenhouses, Conservatories, and all kinds of Horticultural Buildings, erected complete with our patent iron construction; or for material only, ready for erection.



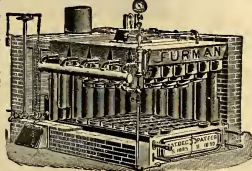
Largest Builders of Greenhouse Structures. Plans and construction embrace latest improvements. Six highest awards at the World's Fair. . . . Send four cents postage to New York office for latest catalogue. . . .  
**NEW YORK OFFICE:** 160 FIFTH AVE., COR. 21ST ST.  
**GENERAL OFFICE AND WORKS:** IRVINGTON-ON-HUDSON, N. Y.

When Writing Mention Florists' Exchange

**IF YOU WANT  
A GOOD SASH LIFT**  
For a Very Little Money Get



For Descriptive Catalogue Send to  
**J. D. CARMODY, Evansville, Ind.**  
 When Writing Mention Florists' Exchange

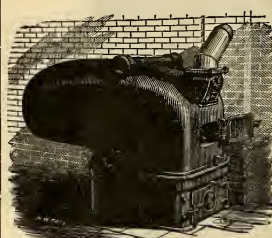


**FURMAN BOILERS**

specialy adapted to  
**Greenhouse Heating.**  
 500 Styles and Sizes. Steam and Hot Water.  
 SAFE, SUBSTANTIAL, SIMPLE, ECONOMICAL.  
 Portable or Brick Set.  
**GREAT COAL SAVER.**  
 Send for catalogue. Estimates Free.  
**THE HERENDEN MFG. CO.,**  
 Home Office: 13 Fay St., Geneva, N. Y.  
 BRANCH OFFICES:  
 Boston, 54 Oliver St.; Philadelphia, 1019 Beta Bldg;  
 New York, 39 Cortlandt St.; Milwaukee, 135 2d St.

When Writing Mention Florists' Exchange

**GREENHOUSE HEATING AND VENTILATING,**  
 Horticultural Architecture and Building.



Mention paper

SEND 4c. POSTAGE FOR ILLUSTRATED CATALOGUE.

**Hitchings & Co**

ESTABLISHED 1844.

233 Mercer Street, NEW YORK.

**FIVE PATTERNS OF BOILERS.**  
 NINETEEN SIZES,  
 Perfect Sash Raising Apparatus.  
 Rosehouses, Greenhouses, Etc., of Iron  
 Frame Construction erected complete  
 or the Structural Iron Work ship-  
 ped ready for erection.

Iron Frame Benches with the  
 "Perfect Drainage Bench Title"  
 or Slate Tops



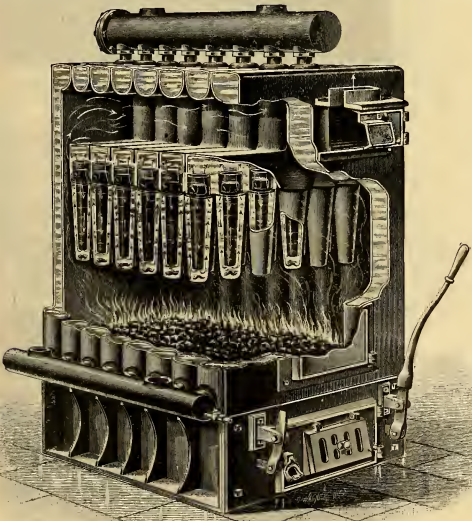
**CYPRESS  
GREENHOUSE  
MATERIAL**

OF ANY DESCRIPTION.

SEND FOR CATALOGUE.

A CHANGE OF AD. IS OBTAINED BY DECREASE) as a change of air, or change of diet, and for the same reason—to keep trade and body healthy

**ATTENTION! FLORISTS!**



When Writing Mention Florists' Exchange

It will be to Your Advantage to Look into the Merits

OF THE

**Scollay "Invincible" Hot Water Boiler.**

IT IS ALL THAT ITS NAME IMPLIES, AND DON'T FORGET IT.

Cuts and Full Information Mailed on Application.

FARMINGTON, CONN., March 9th, 1896.

DEAR SIR:—The "INVINCIBLE" boiler you placed in my Carnation house I am pleased to say has given me great satisfaction. It has done all that you claimed it would do and could have done more if called upon. I did not have to run the boiler hard even when the thermometer stood 18 degrees below zero outside. It has proven itself to be "Invincible" in every respect. I find it to be a very economical boiler.  
 The one thing I like about it is that the heat does not all go up the chimney, which cannot be said about other makes of boilers I have on my place.  
 Your PORTABLE boiler I have run for three years and find it to be very economical and has done its work well in every way. Your boilers will do a great deal more than you claim for them. They are both "Invincible."  
 Yours very truly,  
 HUGH CHESNEY, Florist.

WESTBURY STATION, QUEENS CO., N. Y., March 10th, 1896.

DEAR SIR:—It gives me great pleasure to inform you that the "Invincible" boiler you put in my latest greenhouse has given the greatest satisfaction in every detail.  
 All the good qualities you claim for it I have found to be just as represented by you and in every way I highly recommend it.  
 Very truly,  
 MRS. CHAS. RUSSELL HONE.

**JOHN A. SCOLLAY,**

231 WATER ST., 74 & 76 MYRTLE AVE.,  
 NEW YORK, BROOKLYN, N. Y.



The Duke of York in a Reflective Mood.



An Introduction.

A Flower Pot Discussion.



The Deacon's Steadfast Aim. Philadelphia Team Shoot.



Buffalo Team at the Traps.



A "Shine" on the Main Deck.



Admiring the Coast Scenery.

# DREER'S PAGE OF SPECIALTIES PALMS.

## ARECA LUTESCENS.

3 in. pots, 12 to 15 in. high, of extra value.....	Doe.	100
6 " " 20 to 24 " " " " " " " " " "		100
6 " " 24 " " 2 to 3 plants in pot.....		15 00
7 " " " " " " " " " " " " " "		15 00
6 " " 30 " " 4 to 6 " " " " " " " "		18 00

3 in. pots, 10 to 12 inches high, very fine.....	\$3	50	40
4 " " 15 " " extra fine.....		5 00	40 00

## GEONOMA GRACILIS.

2 1/2 inch pots.....	\$2 00	15 00
3 inch pots.....	2 50	25 00

## KENTIA BELMOREANA

Our stock of this most useful of all Palms is the largest in the world, and the plants are in fine condition.

2 1/2 in. pots, 3 leaves, 6 to 8 in. high.....	Doe.	100
3 " " 4 " " " " " " " " " " " " " "		15 00
4 " " 5 to 6 " " 15 to 18 " " " " " " " "		3 00
7 in. pots, 6 leaves, 30 " " " " " " " "	Each	24 00
7 " " 7 " " " " " " " " " " " " " "		2 50
8 " " 8 " " " " 38 to 42 " " " " " " " "		3 00
7 " " 7 " " " " 42 to 48 " " " " " " " "		5 00
12 " " 7 to 8 " " " " 7 to 7 ft. high.....		35 00

## KENTIA BELMOREANA.

**Bushy, made-up plants.** The following are, without doubt, the finest lot of bushy plants of this variety that have ever been offered; they are all perfect specimens in first-class condition:

6 inch pots, 4 plants in a pot, 24 to 28 in. high, \$1.50 each; \$15 per doz.

7 inch pots, 4 plants in a pot, center plant being tall (about 30 inches high) with three smaller plants (about 18 inches high) around it, \$3.50 each.

9 inch pots, 4 plants in a pot, center plant 38 inches high, with three smaller plants about 20 inches high, around it, \$6.00 each.

9 inch pots, 4 plants in a pot, center plant 4 feet high, with three plants about 2 feet high around it, a perfect lot of specimens of exceptional value, \$9 each.

## KENTIA FORSTERIANA.

2 1/2 in. pots, 2 to 3 leaves, 6 in. high.....	Doe.	100
4 " " 4 to 5 " " 15 to 18 " " " " " " " "		5 00
6 " " 6 " " 24 to 30 " " " " " " " "		10 00
7 " " 6 " " " " " " " " " " " " " "	Each	25 00
8 " " 6 " " " " 30 to 36 " " " " " " " "		30 00
7 " " 7 " " " " 38 to 42 " " " " " " " "		35 00
8 " " 7 " " " " 42 to 48 " " " " " " " "		40 00
9 " " 5 to 6 " " 52 " " " " " " " " " "		50 00
10 inch pots, 4 plants in a pot, centre plant being 5 feet high, with 3 plants about 2 1/2 in. high, around it; \$10 each.		
10 inch pots, 4 leaves, 5 feet high, 10.00 each.		
12 inch pots, 5 plants in a pot, centre plant 6 feet high, 4 smaller plants 2 1/2 feet high, \$25.00 each.		
12 inch pots, 7 leaves, 6 feet high, \$35.00 each.		
14 in. ribb, 7 leaves, 7 to 8 ft. high, fine decorative stock. \$35.00 each.		

## LATANIA BORBONICA.

2 inch pots, 3 to 4 leaves, 60c. per doz.; \$4.00 per 100; \$25.00 per 1000.

3 inch pots, 4 to 5 leaves, 12 inches high, showing character nicely, \$1.25 per doz.; \$12.00 per 100; \$250.00 per 1000.

4 inch pots, 5 to 6 leaves, 15 to 18 inches high, an excellent lot of plants of exceptional value, \$3.00 per doz.; \$30.00 per 100; \$250.00 per 1000.

5 inch pots, 4 to 5 leaves, 15 to 18 inches high, a useful size of plants for immediate retailing, \$5 per doz.; \$40 per 100; \$350 per 1000.

6 in. pots, 5 to 6 leaves, 18 to 20 in. high, \$3.00 per doz.; \$75.00 per 100.

7 in. pots, 6 leaves, 24 in. high, \$12.00 per doz.; \$100.00 per 100.

8 inch pots, 3 plants in a pot, 24 inches high, well furnished plants, especially fine for decorating, \$1.50 each; \$15.00 per doz.

The above are all perfect plants and will, without exception, be found of excellent value.

7 inch pots, 4 to 5 leaves, 24 to 30 inches high, \$1.25 \$10.00 8 " " 6 to 7 " " 23 to 30 " " 1.50 18.00 8 " " 7 " " 30 " " 2.00 24.00 8 " " 7 " " 38 " " 2.50 30.00

The four sizes noted above are not all perfect, the lower leaves being somewhat clipped, but all are available plants of good value.

## LIVISTONA ROTUNDFOLIA.

A grand lot of this miniature Latania, in 8 inch pots, showing character very nicely, \$3. per doz.; \$25 per 100.

## PTYCHOSPHERA ALEXANDRE.

2 1/2 inch pots.....	\$0.75 per doz.; \$6.00 per 100
4 " " " " " " " " " " " " " "	1.00 " 10.00
5 " " " " " " " " " " " " " "	2.00 " 20.00
6 inch pots, 3 plants in a pot, 24 inches high, \$4.00 per doz	

## PHENIX RECLINATA.

3 in. pots.....	\$1.75 per doz.; \$6.00 per 100
4 " " " " " " " " " " " " " "	2.50 " 25.00
6 " " 24 " " 5 to 6 " " 12.00 " "	



LATANIA BORBONICA.



NEPHROLEPIS COMBATA COMPACTA.

**FERNS Continued.**

<i>Pteris serrulata</i> .....	In. pots.	100	1000
" " <i>crisata</i> .....	2 1/2	4 00	35 01
" " <i>variegata</i> .....	2 1/2	5 00	40 00
" " " " " " " " " " " " " "	3	6 00	40 00
" " " " " " " " " " " " " "	3	9 00	50 00
" " <i>Sieboldii</i> .....	2 1/2	4 00	35 00
" " <i>Temula</i> .....	2 1/2	4 00	35 00
" " <i>Victoria vulgare cristata</i> .....	2	18 00	150 00
" " <i>Scotopendrium pum</i> .....	2	6 03	50 00
" " " " " " " " " " " " " "	3	8 00	

## Dreer's Fine Ferns.

Now is the time to lay in a supply to put up for this fall and winter's sales.

Adiantum Cuculatum.....	In. pots.	100	1000
" " <i>Decorum</i> .....	2	\$4 00	\$36 00
" " <i>Pubescens</i> .....	2	8 00	50 00
" " <i>Farleyense</i> .....	2	4 00	40 00
" " " " " " " " " " " " " "	2	10 00	35 00
" " <i>Formosum</i> .....	4	20 00	
" " " " " " " " " " " " " "	4	20 00	
" " <i>Alsophila Australis</i> .....	4	10 00	
" " " " " " " " " " " " " "	4	10 00	
" " <i>Blechnum Braziliense</i> .....	5	25 00	
" " <i>Corythium Falcatum</i> .....	5	30 00	40 00
" " <i>Fortunei</i> .....	5	3 00	40 00
" " <i>Davallia Stricta</i> .....	2	5 00	40 00
" " <i>Fijiensis Plumosa</i> .....	2	12 00	
" " <i>Dicksonia Antartica</i> .....	3	5 00	40 00
" " <i>Lasrea Aristata</i> .....	6	50 00	
" " <i>Yuccifolia</i> .....	2	5 00	40 00
" " <i>Chrysoloba</i> .....	3	5 00	40 00
" " <i>Opaea</i> .....	3	5 00	40 00
" " <i>Lomaria Gibba and Ciliata</i> .....	3	5 00	40 00
" " <i>Nephrodium Heritages</i> .....	2	5 00	40 00
" " <i>Oncidium Japonicum</i> .....	2	4 00	35 00
" " <i>Polypodium Azeum</i> .....	2	5 00	40 00
" " <i>Polystichum Coriaceum</i> .....	2 1/2	4 00	50 00
" " <i>Nephrolepis Bostoniense</i> .....	3	8 00	
" " <i>Cordata Compacta</i> .....	3	10 00	
" " " " " " " " " " " " " "	3	10 00	
" " " " " " " " " " " " " "	3	20 00	
" " <i>Pteris Adiantoides</i> .....	3	35 00	
" " <i>Argyræa</i> .....	3	6 00	35 00
" " <i>Cretica albo lineata</i> .....	3	6 00	35 00
" " <i>Magifica</i> .....	3	6 00	40 00
" " <i>Internata</i> .....	3 1/2	4 00	35 00
" " <i>Leptophylla</i> .....	3	5 00	40 00
" " <i>Neurialis</i> .....	3	4 00	35 00
" " <i>Ouvardi</i> .....	3	4 00	35 00
" " <i>Palmeta</i> .....	3 1/2	4 00	35 00
" " " " " " " " " " " " " "	3	6 00	

## AZALEAS.

Imports of Azaleas are expected to arrive in a very short time, the quality of the stock is fully equal to that of the past few years, which has given universal satisfaction. Regardless of the increase in the tariff to 25 per cent, this season. All the sizes offered are fine, bushy crowns, well set with buds.

Crowns, 10 to 15 inches in diameter..... \$35.00 per 100

Crowns, 13 to 15 inches in diameter..... \$60.00 per 100

Crowns, 18 to 24 inches in diameter, beautiful plants..... select set, heavy 400.00

Specimen plants, 18 to 24 inches in diameter, beautiful plants..... select set, heavy 50.00

Place your orders for above at once, as these prices hold good only so long as the stock remains unopened.

## MISCELLANEOUS PLANTS.

Asparagus Sprenceri.....	In. pots.	Doe.	100
" " <i>Plumosus Natus</i> .....	2	\$1 25	\$10 00
" " <i>Sieboldii</i> .....	3	1 25	10 00
Araucaria excelsa.....	4	6 to 8	\$1 00
" " " " " " " " " " " " " "	4	14	2 25
" " " " " " " " " " " " " "	4	15	50
" " " " " " " " " " " " " "	4	24	1 00
" " <i>glauca</i> .....	5	2	1 50
" " " " " " " " " " " " " "	5	2	3 00
Ardisia Crenulata, nicely fruited, 4 in. pots.....	Doe.	100	\$1 00
Dracena Bruni.....	In. pots.	In. high	Doe.
" " " " " " " " " " " " " "	4	10	\$3 00
" " " " " " " " " " " " " "	6	18	5 00
" " " " " " " " " " " " " "	6	24	9 00
" " " " " " " " " " " " " "	6	30	12 00
" " " " " " " " " " " " " "	6	36	15 00
" " <i>Pandanus utilis</i> .....	2	\$1 75	\$6 00
" " " " " " " " " " " " " "	3	1 25	10 00
" " " " " " " " " " " " " "	3	1 25	10 00
" " " " " " " " " " " " " "	3	1 25	10 00
" " <i>SINGLE VIOLETS - Strong Field-grown Clumps.</i>			
" " <i>Princess of Wales</i> .....	\$1 00	per doz.	\$12.00 per 100
" " <i>Excelsa</i> .....	1 00		8 00
" " <i>California</i> .....	1 00		8 00
" " <i>Admiral Avelan</i> .....	1 25		10 00



CHINESE AZALEA.

# HENRY A. DREER, 714 Chestnut Phila., Pa.

OUR WHOLESALE PRICE LIST OF SEEDS, PLANTS, BULBS, etc., etc., FREE on application, to all in the trade.

## THE FEEDING OF ORCHIDS.

DR. KIRCHEN'S VIEWS.

In complying with the request of the Editor of the *Florists' Exchange*, to write an article on "The Feeding of Orchids," I should commence by saying that I feel I know very little about the subject. As a matter of scientific interest I have studied the subject for a number of years. My general knowledge in relation to the physiology of animals as well as that of plants, I have found has been of particular service to me in this study. But my practical experimentation has been for only a short period of a few months—since my last Spring's purchase of some eight thousand of the Fitcher & Mandt stock of orchids, which with its over five hundred varieties has given me an exceptional opportunity to experiment. This period of time is too short to furnish a sound basis upon which to found any very general conclusions. Nevertheless, I have reached some conclusions, and, inasmuch as most growers know even less than I do on this subject I am willing to state my views so far as they are formed, reserving the right to amend them upon further consideration.

In the first place, we know as a scientific fact that every form of organic life is composed of only a few elementary matters, and that every living form is composed of about the same elements. These elements or nourishing principles are absorbed from without in simple or complex chemical forms. As a rule, the more highly evolved an animal is the more complex and elaborated is its nourishment be. The same thing is largely true of plants. Some forms, as forest trees, are so constituted that they can dissolve their mineral nourishments out of the poorest soils. A vigorous native sour apple tree, by reason of its intensely acid secretions, can extract nourishment from such soil in sufficient quantities to produce a large yearly crop of sour, worthless apples, where the varieties producing fine, sweet, edible fruit would starve.

Our very finest flowers are produced by supplying them with proper nourishment in adequate quantities. Orchids, to my mind, represent the highest attained type in the floral world, and the conditions under which they are produced include peculiar methods of nourishment—methods which, I believe, it is practically impossible to successfully imitate in cultivating those plants under glass, and especially in foreign zones. Terrestrial orchids thrive under artificial culture with ordinary methods of feeding; but when we attempt to nourish epiphytal orchids, it is practically impossible to imitate the natural methods of feeding these plants, and through which methods, in conjunction with other influences, these floral forms as we now find them have been evolved.

Skilled orchid growers are of two opinions as to the feeding of orchids. On one side are those who say that orchids need only air, water, and peat to nourish them, while others consider that some accessory form of plant food is desirable. To superficial observation both methods of practice succeed equally well, but in fact, one sees such equality of success in differing practices that one is led to conclude that this arbitrary feeding is not a matter of much consequence, and that strict attention to other details of management is evidently more important. During the past months I have fed my orchids, and my stock has greatly improved; but I have compared my plants with those of other growers who have not done so, and which I am compelled to admit look equally well nourished. So I am brought face to face with the question, May not the improvement in my stock be due to the careful attention given in watering and ventilation? My houses are exceptionally well constructed in regard to ventilating conveniences.

There is a question in my mind if it pays to attempt to feed orchids in an auxiliary manner. The history of orchid culture is that of flowering the plants as long as they will produce well, and then replacing them with freshly imported stock. Am I inclined to think that this plan pays best, just as it pays best to throw away valley and other bulbs after forcing, and replace them with fresh



A Newspaper Man and The Oldest Delegate.



Enjoying a Snack Between Shots.



Preparing the Clam Bake.

stock. It is impractical to apply a concentrated amount of plant nourishment to the roots of an orchid at infrequent intervals, as we do to most terrestrial plants. An epiphytal orchid would not stand such treatment. To be healthy its roots must have abundant supplies of fresh air, and probably also of light. Orchids under the best of conditions are slow growers, and their nourishment is supplied to them highly diluted, but they continually, in almost uninterrupted rains, or invisible dense atmospheric moisture—a condition that it would never commercially pay to imitate, even if it were possible to do so.

There is no question in my mind that the elements of nourishment of orchids is very much the same as that for other plants, excepting in that it is of a more refined and delicate nature. These orchids seem to revolt against impurity either gaseous or solid. Prefatraction is allorther to them. Without healthy aerial roots successful orchid-growing is not possible, hence we see the difficulty in feeding them by ordinary methods. Their natural food, beside mineral elements, is the gases of the atmosphere that are absorbed by the moisture of the atmosphere and brought in direct contact with the orifices penetrating the velvium of their air root. The fact that orchids contain mineral elements was plainly demonstrated by Dr. Kedzie of the Michigan Agricultural College some two years since. I was much bothered to understand how these air plants got their mineral food; but I have been lately informed by several collectors, that in no case have they ever found an orchid where it did not grow in a position that would allow of the collection of the fallen leaves of deciduous trees or other vegetable refuse around the roots of the plant. This condition is well imitated by using peat for a potting material.

I do not dispute the using some form of orchid food that will conduce to their growth without being injurious to the feeding roots, but I think that it is possible to feed these interesting forms as successfully as does Dame Mother Nature. We can supply some of our conditions, or good growth, however, even better than is naturally given by the mother of us all, A. M. W. KIRCHEN, EAST ORANGE, N. J.

LAGER &amp; BURELL'S VIEWS.

We are often asked "Do orchids need to be fed?" From observations we should say yes.

—Taking everything into consideration, their native haunts as well as the artificial conditions under which we are striving to imitate nature in the culture of these plants, we have always forgotten until quite recent date, that besides fixing them up in pots or baskets or fastening them on to blocks or boulders, they need something else to feed at home, viz., something to live on.

With a little thought on the subject, it is comparatively easy to understand that wherever they grow they are continually absorbing food in the form of liquids or evaporating gases from constantly decaying organic matter. This we must bear in mind and not take place spontaneously in our greenhouses, and in order to supply this want and cause the plants not only to grow but to thrive and live long, we, for the present, know of no other agencies that will do this except occasional administration of food.

We do not by any means pretend to have mastered the subject; but our conclusions are formed partly by results obtained by us, as well as from observations at other places where feeding is practiced. We have not as yet used any chemical manures, but such as are used for roses in a weak form.

There are a great many orchid growers strongly opposed to feeding, because they claim it makes the plants soft and liable to rot. This we also admit to be true, providing the plants are grown shady in insufficient air and above all, in too much heat. If grown under the reverse conditions, better shoots and higher colored flowers and a longer life to the plants will be obtained.

LAGER &amp; BURELL, orchid growers and Importers, Summit, N. J.

ALFRED DIMOCK'S VIEWS.

I never advocate feeding orchids except a few of the large-rooted free-growing kinds. There are more orchids killed by feeding than any other method adopted to improve their culture, and no grower has been able to demonstrate to me how they benefit by it.

A. DIMOCK, NEW YORK.

**Frost Prevention.**

In a recent number of Garden and Forest, M. G. Kaina, of the Department of Agriculture, presents some facts about frost prevention. The snuggie and water methods are both dealt with. The former is made of almost any substance, such as dampened straw, manure, tar, sawdust, crude kerosene; in fact, anything which will produce a smouldering fire with much smoke and little blaze.

Besides these substances, various compositions have been put upon the French and other markets. One of these, Leston's (considered the best), is sold in the form of bricks, which weigh sixteen pounds, and cost about 15 cents each. They are placed about 30 feet apart, and lighted at the approach of danger. The snuggie formed will, in still weather be effective for about two hours, when it may be removed if necessary. The water method consists simply in a liberal drenching of the plants and the ground on the evening when frost is expected. If there be a risk of ground in the immediate vicinity of the plants to be protected it should be wetted down so that the air which flows over it toward the plants will be saturated with moisture. When general freezes overspread a wide area of country, nothing can be done to prevent injury, but when the fall of temperature is slight, either the snuggie or the water methods, or both together will prevent injury, which would almost certainly occur if nothing were done.

The New York Journal prints illustrated supplement for Sunday August 29 includes portraits of Mrs. T. B. Shepherd, Ventura, Cal., in the list of "women who have become famous." It also prints views from her garden.

# Azalea Indica

(Full Importation Ready About October 15th.)

The Azaleas which we supplied last season were admitted to be the best value for the money ever received by the many florists who bought them, and we can promise as good, if not better, stock and larger plants this coming season.

We have again made special arrangements with the largest grower of Azaleas in Belgium, and take pleasure in offering for delivery about October 15th, Indian Azaleas, double and single, all named varieties, leading market kinds, shapely plants, well headed, at the prices quoted below. These plants will be carefully packed and can be safely sent by freight to any part of the country.

10 to 12 inch heads.....	per doz., \$7.00; per 100, \$40.00
12 to 14 " .....	" 7.00; " 50.00
14 to 16 " .....	" 9.00; " 70.00
Special, 18 to 24 inch heads, extra fine, \$3.00 each.	
6 sold at doz. rate; 25 at 100 rate.	



AZALEA INDICA.

## Special Offer of Palms.

- ARECA LUTESCENS.**  
 2 in. pots, \$0.75 doz.; \$5.00 per 100  
 3 " " 3.00 " 25.00 " "  
 5 " " 6.00 " 50.00 " "  
 6 " " 9.00 " 70.00 " "  
 7 " " 12.00 " 90.00 " "  
 8 " " extra fine and heavy.  
 \$2.00 each; \$20.00 per doz.
- COCOS WEDDELIANA.**  
 4 in. pots, \$5.00 doz.; \$50.00 per 100  
 3 " " 2.50 " 30.00 "

- RUBBER PLANTS.**  
 We have a splendid stock of this useful and ornamental plant, short jointed and sturdy, sure to give satisfaction.  
 15 to 18 in. high, 50c. ea.; \$5.00 doz.

**LATANIA BORBORICA.**

We offer an extra fine grade of this, from 5 in. pots, 15 to 18 in. high, 5 to 7 leaves, at \$5.00 per doz.; \$10.00 per 100.

**SEAFORTHIA ELEGANS.**

A quick growing Palm and very useful for general purposes.  
 4 in. pots, \$3.00 per doz.; \$16 per 100  
 3 " " 1.50 " \$10 "

**KENTIA BELMOREANA.**

Plants offered have 4 to 5 leaves and are 15 to 18 in. high.  
 4 in. pots, \$6.00 per doz.; \$50 per 100

**KENTIA FORSTERIANA.**

3 in. pots, \$1.25 per doz.; \$10 per 100  
 4 " " 4.50 " \$35 "



LATANIA BORBORICA.

## PETER HENDERSON & CO., Cortland Street, NEW YORK.

When Writing Mention Florists' Exchange

**WILLOWMEAD GARDENS,**  
 (J. M. W. KIRKMAN, Prop'r.)

**PLANTS ORCHIDS BLOOMS**

Most complete commercial collection in America. Show collectors for retail tourists a special price. Write for catalogue. Mrs. T. B. Shepherd, Willowmead Gardens, 94 Prospect St., New York, N. Y.

When Writing Mention Florists' Exchange

## Nephrolepis Exaltata Bostoniensis.

The Handsomest Decorative Plant in Cultivation.

\$5.00 per 100; \$40.00 per 1000.

MINE IS THE GENUINE STOCK.

FRED. C. BECKER, - - - 1730 Cambridge Street, CAMBRIDGE, MASS.

When Writing Mention Florists' Exchange

# AZALEA INDICA.

Fine shapely plants, well set with buds.

10 to 12 inch crowns .....	\$38.00 per 100.
12 to 13 " .....	" 50.00 "
13 to 15 " .....	" 60.00 "

Order these early and have them shipped by fast freight, saving heavy express charges.

**ASPARGUS PLUMOSA.**  
 Strong, 3 1/2 and 3 in. pot plants, \$7 per 100; \$85 per 1000.

**FIGUS ELASTICA.**  
 A large stock in fine shape, 4 in. pots, \$35 per 100; 5 in. pots, \$45 per 100.

**ARAUCARIA EXCELSA.**  
 Excellent plants in fine condition.

10 to 12 inches high .....	\$12.00 per doz.
12 to 15 " .....	" 15.00 "
15 to 18 " .....	" 18.00 "

**PALMS.**  
 A large stock in the shape of, Kentia Belmoreana and Forsteriana, Areca Intensa and Latanias. See Special Florists' Trade List No. 5, for sizes and prices.

**FERNS.**  
 In fine assortment, 2 1/2 in. pot plants, \$4 per 100; \$35 per 1000.

**ROSES.**  
 Crimson Rambler, \$12 per 100; strong two year plants, with 3 to 10 shoots, 3 to 5 feet long. This rose flowers readily and makes splendid specimens for Easter sales. Common varieties Climbing Roses, strong two year plants, \$5 per 100.  
 Hybrid Perpetual, extra strong field-grown, fine for potting up, \$9 per 100.

**HYDRANGEAS.**  
 Hortensis and Thomas Hogg, 4 in. pot plants, \$8 per 100.

**HERBACEOUS PÆNIAS.**  
 Large stock in choice varieties. Also a choice assortment of other hardy perennial plants.

## ORCHIDS! ORCHIDS!

Imported and established of the finest quality always on hand.

### CATTLEYA LABIATA

Next to arrive, for which we are now booking orders. Write for particulars to

### LAGER & HURRELL,

Orchid Growers and Importers, SUMMIT, N. J.

When Writing Mention Florists' Exchange

## RHAPIS FLABELLIFORMIS and HUMILIS.

Recognized as one of, if not the very best Palm for house decoration. It stands many times as high as the variety. Easy to handle and quick to sell. We will accept a large quantity of this beautiful Palm by October 15th. Orders taken now. First come first served. Prices according to size and number of shoots. Come and see samples of stock at office or above date. Also

### LILIUM LONGIFLORUM eximium Varium.

The finest bulb for forcing. Sure to flower well and abundantly. We offer an extra above-the-average quality. The best size where Cut Flowers are wanted, at extremely favorable prices of \$1.50 per 100. Discount 10 per cent. for cash with order or on receipt.

Time to order your supply of Seeds. We offer

### CALIFORNIA GROWN SEEDS.

SWEET PEASES in best standard sorts, introductions of W. Crep in short and EARLY orders are solicited.) Following seeds of BEST Quality, carefully selected and GENUINE.

Asters, Balsams, Camas, Centaureas, Cosmos (Giant Perfected), Dahlia Tom Thumb, Freesia, Hollyhock, Lobelia, Mignonette, Nasturtiums, Tom Thumb and others. Petunias in choicest sorts, Phlox, Saxifrag, Stocks, Verbena Mammoth.

Address, **H. H. BERGER & CO., 220 Broadway, New York.**  
 Branch Office, San Francisco, Cal. (Established 1878).

When Writing Mention Florists' Exchange

## THE STORRS & HARRISON CO, Painsville, O.

When Writing Mention Florists' Exchange

# FEAR PTERIS TREMULA

NOW READY.

In excellent condition, from 2 1/2 in. pots, 10 to 12 in. high, ready to shift to 4x \$3.50 per 100; \$30.00 per 100.

R. WITTERSMEYER, Sedamsville, Ohio.  
When Writing Mention Florists' Exchange



# A WHOLE HOUSE FULL OF RUBBERS

(FICUS ELASTICA). Must be Closed Out at Once.

1st size, 4 and 5 inch pots, 12 to 15 leaves, . . . . . Per dozen, \$4.00  
2nd size, 4 and 5 inch pots, 8 to 10 leaves, . . . . . Per dozen, 3.00

Cash with order. **JOHN C. HEINL & SON, Terre Haute, Ind.**

When Writing Mention Florists' Exchange

When Writing Mention Florists' Exchange

## 100,000 CHOICE FERNS AT ONE CENT.

A great bargain! Fill 2 or 3 in. pot at once and worth 5 cts. in a week or two; fine little lady plants from late Adiantum Pulchellum A. Concinnatum Latum, Lomaria Gibba, Nephrolepis Cristatum, Oxyechium Atratum, Felcia Adiantifolia, Pteris Tremula, Pteris Cretica Alba, Pteris Anycris, Pteris Longifolia, and small numbers of many other sorts, \$10.00 per 1000, by express. Sample 100 by mail for \$1.25. In 2-in. pots, fine well grown plants, large and full, all above and many other sorts, \$4.00 per 200; \$25.00 per 1000.

Cash with order. 500 same rates. Carefully packed.

PEPEROMIA Argyrea and Maculosa, strong, 2 in. pots, \$4.00 per 100.

LEKANIA BORONICA, 1 year in flat, \$2.00 per 100; \$15.00 per 1000.

JOHN H. LEY, Good Hope, D. C.  
When Writing Mention Florists' Exchange

# L. H. FOSTER, . . . . . . DORCHESTER, MASS.



# NEPHROLEPIS EXALTATA BOSTONIENSIS

THE BOSTON FERN.

The best house plant yet introduced. 10,000 fine plants from bench for potting at from \$5.00 to \$50.00 per 100. Now ready.

## ESTABLISHED PLANTS IN POTS.

5 inch pots . . . \$4.00 per doz.     7 inch pots . . . \$18.00 per doz.     8 inch pans . . . \$2.00 each.  
6 inch pots . . . 9.00 "     8 inch pots . . . 24.00 "     10 inch pans . . . 3.00 each.  
10 inch pots . . . 36.00 "     10 inch pans . . . 15.00 "

## SPECIMEN PLANTS. ALL IN FINE SHAPE.

L. H. FOSTER, - - 45 KING STREET, DORCHESTER, MASS.

## FOR THE FALL SEASON! PALMS FLOWERING PLANTS

See A. SCHULTHEIS, College Point, N. Y.  
P. O. Box 28, Telephone Coll 51 F.  
Take North Side Division L. I. R. or Trolley.

Kentias, Areca lutescens, Lantana Borbonica, Phoenix, Pandanus utilis, Ficus elastica, Coccol Weddelliana, Araucaria excelsa, Cyclamen persicum, Ericas our specialty, Chrysanthemums in pots Azaleas.  
When Writing Mention Florists' Exchange

# 100,000 FERNS

50 best varieties. Write for list and lowest prices.

## 1,000 FICUS ELASTICA

4 inch pots, fine stock.

## 10,000 SMILAX

Strong plants, twice cut back.

CHAS. F. BAKER, Utica, N. Y.  
When Writing Mention Florists' Exchange

## PALMS, ALSO FRAGRANT, BUDDING ROSES, DWARF ORANGES, IGNEATED.

	size pots, inches diam.		Price per 100
	inches	high leaves	
Areca Lutescens . . . . .	4	15-18	\$20.00
Coccol Weddelliana . . . . .	3	6-8	15.00
Lantana Borbonica . . . . .	4	12-15	1.2
"          "          "          "	4	15-18	2-3
Pandanus Utilis . . . . .	4	10-12	15.00
"          "          "          "	3	6	12
Phoenix Reclinata . . . . .	4	12-15	2-3
"          "          "          "	5	15-18	2-4
"          "          "          "	3	12-15	12.00
"          "          "          "	4	15-18	3-4
"          "          "          "	4	12-15	3-4
"          "          "          "	5	15-18	4-5
All the above palms are stocky and to splendid shape			
Magolla fuscata (Bannana a-brub) . . . . .		in. high per 100	\$15.00
"          "          "          "		18-20	15.00
Oleo fragrans (Tea Olive) . . . . .		12-15	12.00
"          "          "          "		18-20	15.00
Oranges and Lemons, best varieties, fruiting size, graded and sold		10-12	20.00
on Trifolia, bushy . . . . .		15-18	30.00
Orange Dwarf, bushy . . . . .		12-15	15.00
Marchal Niel Rose, strong field budded on Manetti, 5-4 feet, \$125 per 1000 . . . . .			15.00
Marchal Niel and other good varieties of Rose, strong, mid-grown, budded on Manetti, 18-24 inches, \$100 per 1000 . . . . .			12.00
Biota Aurea Nana (a perfect gem, and most popular of the Biota), 2-10 inches . . . . .			10.00
Biota Aurea Nana 12-18 inches . . . . .			15.00
Ficus Elastica (top cuttings), 12 in. . . . .			10.00
Crotons, best varieties, 3 inch pots . . . . .			15.00

All measure from top of pot. Above prices do not apply to live plants of any sort. Packings at our expense for train and ship. Quick delivery to any point. P. L. BERGMAN'S, Fruitland Nurseries, Augusta, Ga.  
When Writing Mention Florists' Exchange

**WM. MATHEWS'S VIEWS.**  
I have found the following varieties especially benefited by moderate applications of manure (either cow or horse) given once a week during the growing season, but never when the plants are resting, as follows: *Cattleya*, *Oncidium*, *Odontoglossum*, *Plinia*, *Stanhopea*, *Calanthe*, *Peristeria*, and, in fact, all terrestrial orchids. I have never used artificial manures of any kind, therefore cannot give an opinion on them.

Now comes the question as to use manure of any kind on such plants as *Cattleya* or *Helia* and allied kinds of orchids? I have tried, but never found any good results from its use on such kinds. But plenty of air be given and manure water freely used on, and will benefit the plants. The ammoniacal particles can be conveyed to the feeding roots. I have no doubt it will have a tendency to produce strong growth, etc. However, I do not believe in using liquid manure in a *Cattleya* or *Helia* and their allied families, if they are potted in the usual way with polshers, fern-root, peat, and chopped sphagnum, for surely the cloggy and mucky state that will be produced among the roots will have a tendency to prevent proper aeration of same, and the plant will suffer, when the next year arrives, to be forced into new growth it will have only diseased and rotten roots, and, consequently, will bring forth a very inferior stock, like the one of last year. This, of course, is a true sign of degeneration and finally spurious dissoluteness.

I believe the true science of *Cattleya* growing is to know when to rest them and how best to preserve the roots during their long resting season. A moderate temperature, plenty of atmospheric moisture, sufficient shade, and regular drainage is all-sufficient, and judging from some plants that I have had in culture upwards of a dozen years, I am free to say that I do not believe in artificial waterings or any application of a manure nature direct to the roots of *Cattleya*, especially if potted in the usual way.

WM. MATHEWS, Ulster, N. Y.

**A. HEBBINGTON'S VIEWS.**

On several occasions when in conversation with men of considerable growing experience in this country, the assertion has been made to me that orchids, more especially *Cattleya*, can be raised under cultivation, and possibly some pertinent query upon this point addressed to the Editor has been made. I desire the question of manuring orchids to be discussed in these pages. There are probably many better qualified to enlighten myself to contribute to this question, but if a few general remarks should draw attention, a discussion on this matter of profit to all, would result.

It is in every way a desirable subject to discuss, first, because orchids are coming more and more into prominence as commercial flowers, and, secondly, Mr. Lager, now home from an arid country, says that we are fast depicting the riches of our erstwhile orchid Klondyke, and when no longer enabled to draw upon this resource, deterioration of stock is likely to be disastrous.

By way of starting, everyone interested should look back to the *Florists' Exchange* of July 17, 1897, where on page 667 they will see an extract from the *Gardener's Chronicle*, of some experiments and results made and achieved by Mr. A. H. Snee, than whom no one is better qualified to speak of matters pertaining to orchid culture. I think it is most desirable, if the Editor will, to reprint here Mr. Snee's remarks; they are so pertinent and practical.

Mr. Snee experimented with an old and starchy variety of *Cattleya Trianae*. He says:

"I fed this plant once a week, during the growing season, with two or three ounces of water, which contained nitrate of potash, nitrate of ammonia, phosphate of ammonia and carbonate of magnesia, of the strength I had an ounce of nitrate of potash and half an ounce of nitrate of ammonia, with a small quantity of the other salts, with the result that the plant made a stronger growth and produced a greater number of flowers, which were brighter in color. In 1895 I used a larger number of plants and I was so satisfied with the result that in 1896 I used nitrate of ammonia and phosphate of ammonia each week during the summer to the rain water tanks of the *Cattleya* house. The total quantity of water during the summer was one pound of the nitrate of ammonia and one pound of the nitrate of potash, dissolved in water at the rate of 2.5 grains per gallon. Many of the flowers of the *Cattleya* this year were

larger, brighter, and had more substance than in previous years.

"This year I intend to increase the amount of water per gallon during the summer, that is to say, from May to September. I also propose to treat some of the plants with small quantities of phosphate of ammonia and carbonate of magnesia, in addition to the nitrate of ammonia and potash, and expect that I shall be able to make a favorable report on a future occasion on the results of the above treatment."

I expect further observations will prove that the assimilation of phosphates by plants will free the phosphorus, which combining with the nitrogenous matter, will be found to promote inflorescence, and will probably increase the germinating power of the seed of epithelial orchids.

The foregoing suffices to show that this matter of feeding is not imaginary theorising on the part of some impractical crank who would hesitate to practice what he preached; in fact, I think some of our best growers will admit that for some time past they have practiced, have not preached, and so far have been justified by results on the practical side. Why should it be otherwise, and whence arose the misconception that nothing but water can make the plants flourish? The roots of these plants? Air plants we used to call these epiphytal orchids, and we do not know how to grow them without a sufficient food, a natural ocean of superficial thinking; yet it does not require very deep reasoning to realize that the atmospheric conditions of a tropical forest and of a stuffy greenhouse are as widely removed from the other as the ground, though the purest of water may be given the plants in both cases. Give now if you want your growers to give the plants manorial assistance they will half deny the impeachment or admit it hesitatingly.

Why should we apologize for giving the plants what they need? Why should we have under cultivation, and what I am satisfied in my own mind they actually receive in abundance in the natural state? The manuring notion is repugnant to many because they only think of manure in its most offensive forms, that of the horse stable or the cow byre; but even this last can be and is now being used in right state or fitness. That manure of this description is a foreign element to orchids in a state of nature I do not deny, but the manure of the stable, tile gases which we all know escape from our manure piles when they have to find an atmospheric exposure, we know that these are some of the richest fertilizing elements and unless fixed in some other way are lost to us as surely as despatched in the atmosphere. Here, then, I believe, is just the form in which the *Cattleya* in the woods gathers to itself such nutriment as it needs; absorbed from the atmosphere in rain part, its source the ground covered with decaying vegetable matter below. We have imitated natural conditions only in part when we fix the nutriment in the form of salts, or on blocks with little compost through which the nutriment can find its way, and give access to all parts of the plant—root and leaf and branch. When conditions are favorable we imitate the tropical deluges of rain giving the plants a thorough soaking, and the surplus water falls below on the ground, and we can keep it to evaporate again, but only as pure water still. Now mark the difference after the surplus deluge and the sun bursts out. Do not the forests reek with steam from evaporation, and if that evaporation is not enough to dry the plants, the stimulus of decaying vegetation who shall estimate, at least now can deny, the rich fertilizing gases that are rising up from the soil. The plant and the orchid do not differ from other plants in that its dry weight consists of nutriment in atmospherically and added to the existing bulk.

As an actual detail in the best practice we probably have many a blossoming at the best methods, but one let us get generally convinced that manorial food is essential to the success of a multitude of cultivators we shall evolve more wisdom, clear reasoning and working in his best judgment in trying to meet the conditions of his case. Instead of the close growing, over-heating, non-ventilating conditions, the killing by kindness that we result in death to thousands of orchids, we shall have a more intelligent and successful inside have abundance of pure air always, cool waves sometimes, and mark the difference in the result. The efficiency, though horses and cows are not near at hand to furnish it. It is simply a different kind of nutriment, and a different problem for growers to solve is how best to adapt the conditions to meet

the needs as they are around us, not as we imagine they ought to be.

A. HERBERTSON, Madison, N. J.

**AM**  
Seeds FRESH ON HAND  
ALL SEASONABLE VARIETIES.  
Price for seed only quoted on application.  
U. S. MAIL 404 348 51, N. W. Q.  
When Writing Mention Florist's Exchange

**SEEDS**  
**GRASS SEEDS**  
J. CHAS. McCULLOUGH, SEEDSMAN, CINCINNATI, O.  
JOBGING TRADE A SPECIALTY.

**LUMBER HARRIS.**  
547 \$2.00 per 100.  
ROMAN HYACINTHS, 12 to 15 \$2.50 per 100.  
GREY WHITE GLADIOLI, GRA. NARCISSESS, \$10.00 per 1000.  
FRESIA REFRACTA ALBA, Mammoth, \$5.00 per 100.  
Good bulbs, \$3.00 per 100.

SPECIAL PRICES ON LARGE LOTS.  
F. W. O. SCHMITZ, Importer and Exporter, Jersey City, N. J.

**GLADIOLI.**  
BANNING'S Superb Strain of Hybrid Seedlings. The grandest strain of Mixed GLADIOLI in cultivation.

WE have combined the beautiful colors and tints found in the finest French and German varieties. The excellent variety of the *Gladioli*, the immense flowers of the *Narcissus*, with the vigor and strength of *Iranica's California Strain*, and the finest selections from the *Gladioli variety* of our stock and growing fast in popularity throughout the United States and Canada, and was also placed on sale in Germany and England last season. Our strain is perfectly adapted to forcing and produces beautiful flowers under glass. Every Florida bulb plant at least a few hundred of these bulbs, especially are easily grown and bound to become a very popular winter flower. We sell only in mixture, light colors and tints prevailing, with good percentage of white.

\$1.00 per hundred, } Cash with order.  
\$8.00 per thousand.

FRANK BANNING, SEEDSMAN, Florist, Kinsman, Ohio.  
When Writing Mention Florist's Exchange



**HEIKEMANN'S SEED NOVELTIES**  
1898.  
*Myosotis alpestris striata caelestis.*  
Sky blue, actually pillar shaped, a striking novelty.  
*Saxifraga vulgaris superba*.  
A great improvement, best for American climates.  
*Begonia hybrida gigantea* "Mammoth."  
Enormous as a holder or pot plant. Flowers of immense size, lively pale pink.  
*Viscaria caerulea* "Blood Brown"  
Quite an original color, never seen in other varieties.  
Cabbage, Erfurt Round Sugar (Weiss), Karst, 1897.  
The finest pickling mix in cultivation. Whoever makes it is convinced of its superior quality. Excellent keeps, good size.  
*Gloxinia crassifolia* "Her Majesty Queen"  
Pearly white, best for the market.  
F. C. HEIKEMANN, Seed Grower, ERFURT, GERMANY.  
When Writing Mention Florist's Exchange

**GRAND NEW**  
**Giant Eschscholzia**

"THE GOLDEN WEST."  
The Most Gorgeous and Brilliant Novelty of the Year.

MONSTER FLOWERS, measuring 4 to 6 inches in diameter. Price, 20 cents per tin; packet: \$5.00 per doz.; Retail packets, \$5.00 per doz. Sent for trial. Write for Catalogue, Specifications and description of these Grand Flowers.

THEODOSIA B. SHEPHERD,  
Centerville-by-the-Sea, Cal.  
When Writing Mention Florist's Exchange

KENTUCKY BLUE GRASS (*POA PRATENSIS*).  
CHAS. E. PRUNTY,  
MAIN AND MARKET, SAINT LOUIS.

We are Headquarters and Dealers for  
RED TOP, BLUE GRASS,  
ORCHARD GRASS, MEADOW  
FESCUE and SUNFLOWER.

# THE Novelty for 1898. Dwarf Sweet Pea, Burpee's PINK Cupid

THIS little wonder, like the original Cupid, hails from California, having been discovered by C. C. Morse & Co., to whom we paid fifteen hundred dollars cash for the exclusive ownership when there were only 1060 seeds in existence. It is not a sport from the original White Cupid, but an actual departure from its parent, the tall Blanche Ferry. In habit and manner of growth it is strictly a Cupid, spreading from the root, from a foot to eighteen inches around, growing from six to eight inches high, and shooting up stems about six inches long, which bear, in full bloom at once, from three to four handsome blossoms, all borne close to the end of the stem.

The flower itself is pretty enough, but its attractiveness is doubled by its association with CURD,—the first colored Cupid to follow the famous dwarf white.

The standard of the flower is wide, not infrequently measuring an inch and a half, but not over an inch high, being developed later. It usually curves over a trifle from the top, partly concave, which gives the standard a distinct shell-shaped appearance. The standard is a bright rose-pink, while the wings are pure white or light pink. The wings are very large and finely formed; when pressed back against the standard they extend fully a quarter of an inch beyond it.

The substance of the blossom is peculiarly heavy and it will appear fresh and vigorous in a glass of water long after its long-stemmed parent has withered and died. The plant itself is vigorous and hardy, and those who had poor or indifferent success with White Cupid will find this variety easy to grow anywhere. The seed, which is black, is of wonderfully strong germination, and the plant an early bloomer, coming into bloom simultaneously with White Cupid.

Though flowering early it continues in bloom very late, bearing a profusion of blossoms so thick as to completely hide the plant itself. It will be worth a rival as a bedding and border annual, for its color and fragrance make it a rare novelty.

In our field crops the past season, both in California and New York, a large piece of them looks as if the ground were literally strewn with bright pink rose buds. No novelty of recent introduction has such beauty and grace combined in it as has Burpee's PINK Cupid. It is also delightfully fragrant, and will be admired by every one who sees it.

In regular sized packets (each containing twenty-four seeds):

Per pkt. 25 cts.; 5 pkts. for \$1.00; per doz. pkts. \$2.00.

Per 100 pkts. \$12.00.

In half-size packets (each containing twelve seeds):

Per pkt. 15 cts.; 2 pkts. for 25 cts.; or 10 pkts. for \$1.00.

Per 100 pkts. \$7.50.

Directions for culture in English, French and German printed upon each packet.

## Wholesale Catalogue of Sweet Peas

FOR THE TRADE ONLY.

Giving testimonials from expert Horticulturists in England, France, Germany and America, as to the Hardy Growth and Rare Beauty of

# Burpee's PINK Cupid.

Will be ready by November.

## Headquarters in Europe.

In order to accommodate the Seed Trade in Europe we have appointed the following well-known firms Special Wholesale AGENTS. These houses will supply seed of Burpee's PINK Cupid, in original packets, on the same terms as if the orders were sent direct to us, and will also furnish electrotypes for catalogue use.

Sole Wholesale Agents for Great Britain, Australian Colonies, and India.—Messrs. HURST & SON, 152, Houndsditch, London.

Sole Wholesale Agents for France, Belgium, Spain, Portugal, and Italy.—Messrs. VILMORIN-ANDRIEUX & CO., Paris, France.

Wholesale Agents for Germany, Holland, Austria, Russia, Denmark, Norway, and Sweden.—Mr. ERNST BENARY, Messrs. DIPPE BROS., HAAGE & SCHMIDT, HENRI NETTE, MARTIN GRASHOFF, FREDK. ROEMER, DAVID SACHS, and J. C. SCHMIDT.

Each firm named above has a complete set of electrotypes and is authorized to quote special prices by the thousand packets.

All orders from America (and Foreign Countries not named above) should be addressed to the Introdurers:



A Single Plant, exactly engraved from a photograph of Burpee's PINK Cupid.

The illustration above has been accurately engraved from a photograph of a single plant grown in ordinary culture, lifted and set in a pot on a platform, for the purpose of photographing on a level with the camera. Every plant in our seeds in California and New York, and at Fordhook Farm was accurately true to perfect Burpee's Cupid.—The flowers are always of full size, measuring from one and a quarter to one and three-eighths inches above the standard—covering a silver dollar.

As this plant is a fair sample we would state that it measured six to eight and one-half inches high by nineteen to twenty-four inches in diameter, spreading on the ground. We could give records of the number of flowers and buds, by actual count, on a single plant of Burpee's PINK Cupid, but will merely refer to the editorial in THE FLORISTS' EXCHANGE, September 1897, which says, "we counted 33 stalks in blossom on one plant and an average of three flowers to a stem."

## TWO OF MANY.

REPORT FROM MR. ECKFORD.

Wm. SHROPSHIRE, ENGLAND, September 18, 1897.

MESSRS. W. ATLEE BURPEE & Co., Philadelphia, Pa.

Gentlemen—I am pleased to tell you that the "PINK Cupid" seed that I received was good enough to send me for trial has been a great success. While Cupid has done much better than last year, but still not up to the Pink variety which holds its bloom better and consequently dries a much better display. I don't think too much can be said in favor of Pink Cupid. At present, it occupies a place of honor in my sweet pea.

Descriptions of Novelties will follow in a mail or two. I am afraid it will not be possible to send you "Cupid" seeds "this year; the crop is very small, but shall show definitely in a few days. I hope Mr. Burpee reached Philadelphia safely. Please give him my kind regards. I am, gentlemen,

Yours faithfully,  
HENRY ECKFORD.

## AMERICAN GARDENING.

A. T. DE LA MARIE PTO. and PER CO. LTD. PROPRIETORS, NEW YORK, September 18, 1897.

MESSRS. W. ATLEE BURPEE & Co., Philadelphia, Pa.

Gentlemen—Have just returned from a trip to Jefferson County, New York, where one of the most beautiful sights to me was a box of PINK CUPID. It was a mass of blossoms and buds, a delicious fragrance filled the air and that its past had been equally grand was evidenced by the seed pods, while the prouder for the rest of the season lay in the multitude of buds yet to expand.

Truly as a flowering bed for PINK Cupid is a success.

Yours faithfully,  
LEONARD BARON, Editor A. G.

FOR OTHER REPORTS See Special Catalogue Now Being Prepared



Burpee's Pink Cupid bears generally three and sometimes four flowers to a stem. The illustration above was accurately engraved from a photograph, exactly natural size. The flowers were identified with the mail growing Blanche Ferry and are likewise fully engraved in size.



# W. ATLEE BURPEE & CO, Seed Growers, PHILADELPHIA, PA.



### Exclusively a Trade Paper.

Entered at New York Post Office as Second Class Matter

Published Every Saturday

A. T. De LA MARE PTE. AND CO. LTD.

2, 4, 6, & Duane St., New York

P. O. Box, 1697. Telephone 2154 Central

REGISTERED CABLE ADDRESS  
Commercial Cable, Florez, New York

#### SUBSCRIPTIONS:

**\$1.00 per year** to United States, Canada and Mexico. **\$2.00 per year** to foreign countries (in postal union). Payable in advance. New subscriptions will commence with the first number after receipt unless otherwise ordered. Back numbers can be supplied when wanted.

The date on address label above which the subscription expires is that of the subscriber's receipt. No other receipt is sent.

#### ADVERTISEMENTS:

Copy must reach this office not later than Thursday in order to secure insertion in issue of the following date.  
**Rate, \$1.00 per inch.** Special positions at **one discount** on contracts for more than one longer.  
Orders from unknown parties must be accompanied by cash or satisfactory references.

### For the Busy Man.

Wm. A. Stiles, editor of Garden and Forest, and a Staff Commissioner of New York City, is dead.

The Chicago Horticultural Society, at its forthcoming show, will have an exhibit by artists and sculptors.

The Rev. W. T. Hutchins, the sweet pea specialist, is now devoting some of his attention to a study of the Dahlia, for which flower he predicts a great future.

Our Cincinnati correspondent is of the opinion that Lady Fitzgram christeneth a new greenhouse Mrs. F. Bergman in that locality as an early variety.

Secretary of Agriculture, Wilson, has been furnished by the Society of American Florists certain seeds furnished to his department by the Society. The Chief of the Treasury has decided that they must be furnished in packages, after the manner of former years.

### W. Fredrick Gude.

PRESIDENT-ELECT S. A. F. A. O. H.

See portrait on page 901.

We present herewith a photograph of the president-elect of the Society of American Florists and Ornamental Horticulturists. A brief sketch of his career appears on page 760 of the present volume of the *Florists' Exchange*.

Mr. Gude writes us that up to the present time he has received the most gratifying commendations from all over the country, both as regards the 1898 meeting at Omaha, and the president-elect of the Society.

### Arthur Donaghue.

VICE-PRESIDENT-ELECT S. A. F. A. O. H.

See portrait on page 901.

Mr. A. Donaghue, vice-president elect of the Society of American Florists and Ornamental Horticulturists, was born in Essex, England, on November 9, 1841. He commenced work as a gardener when a boy of eleven years, and has since been engaged in nearly all branches of gardening. He came to the United States in 1864, settling first in Chicago where he was employed by Edgar Sanders, well known to our readers, for a time. He then removed to Omaha, Neb., in 1867, and rented eight acres of ground, starting into market gardening. In this venture he met with varying success, on account of untoward weather conditions and troublesome insect pests. In 1872 he built three small greenhouses, which was the starting point of his florist career, and which has proven very successful

the business having grown steadily until now it embraces 35,000 square feet of glass.

The vice-president-elect is an enthusiast in the work of the S. A. F. A. O. H., and its members and the trade generally to day look forward with interest to the successful gathering at Omaha, which will doubtless crown the efforts of Mr. Donaghue and his Western brothers in the craft.

#### Reminiscence.

The following writer, that Mr. Sanders, in the light of recent events, may prove interesting:

In 1842 the writer, then a young journeyman plumber, wended his way up to London from his birthplace to a situation as under gardener at Walthamstow, Essex, seven miles north of the British metropolis. Among the crowd of young men then known as associates in this garden was one William, commonly called "Bill" Donaghue, son of a private gardener in that neighborhood. Our old comrade, Bill, was an elder brother of Mr. A. Donaghue, vice-president-elect of the Society of American Florists, and master of Omaha.

Along in 1864, or thereabouts, came a full-grown, well-to-do Englishman to the locality we now write from, and introduced himself as a son of my old-time comrade, Arthur Donaghue. He did not take long to convince me, young as he was at the time (it was well recalled with his family that he was a veritable chip of the old block, and I still fancy I can see in the features of this same Arthur Donaghue those of his father. And curious how common things stick to one through life; in the father's house, at the work, by the American clock, the first I had seen of Yankee invention, but which timepieces afterwards became as common as London-made words.

#### A Business Editor.

If, as has been stated, the "advertisements appearing in a paper are a pretty good indication of its value and character," we think we can claim for the *FLORISTS' EXCHANGE* a value and a character not possessed by any other journal engaged in the horticultural line, and in this statement our columns bear us out. Not only do the immense number of advertisements contained in this issue testify to the efficacy of the *FLORISTS' EXCHANGE* as a satisfactory "salesman," but they are also indicative of the prosperity that is generally manifest all over the country. From reports received from our numerous correspondents it is anticipated that the season just entered upon will be a busy and prosperous one. We sincerely trust that this will be so, and that with a return of good business will come a relaxation in the tightness of money, which, more than the dearth of trade, is still severely felt in many directions.

We stated in our announcement that the Fall of 1897 is being regarded by many of its predecessors. Results verify our predictions, and the present issue speaks for itself.

Allow us, however, to refer briefly to some of its leading features.

The Gardeners' Association is the first horticultural journal in America to present to its readers a full report of the proceedings of the annual conventions of the Society of American Florists, and this policy we have pursued for a number of years, believing it to be not only of benefit to the gardeners, but of an important part of the trade in general represented in our subscription list. It is a well-known fact that many who are anxious enough, are often deterred from attending the convention, and our opinion is, in that case, that by the present and participating in the good that is the enjoyment of having the convention and all that transpired there (or, at least, the cream of the affair) brought to you by means of the *FLORISTS' EXCHANGE* has "gone one" further than

has been the case in previous years. Already we have given our usual quota of the proceedings and happenings that may be expected for the detection both of those who were in attendance at Providence and Newport, and those who were not, and our views, portraying the delegates in various attitudes of the ornaments of a gentlemanly and forthright character, from photographs taken by our own photographers, will be of great interest to our readers who will experience the same amount of pleasure in looking over these pictures, and in discussing them.

The matter discussed we have touched upon elsewhere. We would draw special attention to the experience of our countrymen with the subject of feeding of orchids, and hope to see the discussion continued in these columns.

The chapter relative to the new fumigating process (hydrocyanic acid gas), furnished by Mr. Borsett, will, no doubt, prove acceptable to many.

In conclusion we beg to thank our customers for their continued confidence and support.

#### Reflections on Current Topics.

Some time ago I read in my daily paper that the hope-time energetic and progressive Chester County Carnation Society had disbanded; and not having any other reliable opinion on the subject, I columns for a long time. I have come to the conclusion that the information in the paper is not a very reliable source of news, for that an association with such a good and a healthy stock, should have later decided to set their faces in good many directions; even the point system as applied to judging carnations in their originality, and I would look for some of the old time-liver to bring me out twenty to give \$25 to the person who may not look in vain.

The offer of Secretary Herr of the American Carnation Society recently published in these columns, has evidently given rise to many opinions. Mr. Herr in that communication (see page 687, July 24 issue) pledges himself as one who is ready to give \$25 to the person in a sinking fund, the interest to be placed toward the running expenses of the Society, and to give \$50 to the person who reserve fund so contributed could be secured. It is believed by a number of our readers that the Society will be no obstacle removed, the secretary's proposition would meet with the approval of carnation lovers. If by incorporating the Society, or otherwise, all legal requirements as to technicalities could be met and overcome, and the secretary's plan put into practical operation, the resultant effects would be overestimated. I would like to see this matter fully discussed.

The settlement of the struggle between the promoters of the botanical garden of New York, and the representatives of public opinion, whereby the appropriation by the city of \$500,000 for the purpose of the garden, and the appropriation in compliance with law, will be filled with delight by all interested in the art of horticulture, and the horticulturists of New York. In its opposition to the whole scheme of establishing a botanical garden in New York, and the horticulturists, makers of the proposed plans and their work, and its persistence, but little fight or recognition is shown by gardeners whom the Sun calls "experts," have been a few of the amusing features of the situation. The "experts," however, who have a keener insight than others into such matters, state they can perceive in the garden, and the city, and the horticulturists, "wheels within wheels," which, fortunately for the country, have been, and will be, so arranged as to be immovable in the future. I hardly think the people and ridiculous assertion of the horticulturists, who have been so long at Dana (who so ably performed the task of being the mouthpieces of the objectors to the garden, and the city, and the horticulturists, that there is no need for an endowed garden in New York, and the horticulturists, who have been so long at Dana, and who have so forcibly championed. Progressive horticulturists, however, who have long felt the want of an institution such as the New York Botanical Garden in our country, and who have been so long at Dana, and who have been so long at Dana, we expect to see congregated the highest authorities on botanical science in all our country, and we expect to see, in the future, a sad commentary on our progressiveness, that horticulturists requiring the horticulturists, and the horticulturists, new species and varieties of plants are

compelled now to send their specimens to the old world for this purpose, because America has no institution where such work can be done.

It is only within a year or so that the private gardeners of the country began to band themselves together in the various associations, and in the horticulturists' movement; and already the beneficial influence of such organization is being felt in the horticulturists' movement. Floral exhibitions to be given this Fall under the auspices of the gardeners' associations, and the horticulturists' associations, and the horticulturists' associations, are well and to all appearances superseding their more æsthetic conferrers, the florists, are seen in the election of gardeners as officers in our florists' clubs, e. g., New York, where the positions of president and vice-president are both filled by private gardeners. All this goes to show that the trend of the times is toward a reversal of conditions of former days, when the horticulturists were the dominant factor, and the private gardener played but a subsidiary part.

The passing of the Fitcher & Mandan Floral Garden, and the horticulturists' question of the longevity of a large concern. There are big establishments that are being broken up, and the horticulturists' question for rapidity of expansion has probably no parallel, notwithstanding our horticulturists' question of the horticulturists' question, which it has lasted less than a decade. There is much wisdom in the old saw, "not to count our chickens before they are hatched"; and it is probably owing to a superabundance of optimism, among horticulturists, that the horticulturists' question has been heard reverberating the past week through this immense establishment.

It is a fact, however, that horticulturists for increased business, but unwise to be too far in the van. It is better to gradually increase business, and to gradually enlarge his facilities to the extent of overwringing the whole. We must creep, not walk.

#### American Institute Show.

The Horticultural Exhibition at Madison Square Garden, New York, given by the American Institute, continues an unqualified success. The dahlias of the first exhibit were of the highest quality, and a large number of the new varieties of cut flowers, and exotic plants of rare value are also noticeable. Fruits are of the highest quality, and a large number of the same can be said of vegetables. One of the chief attractions of the show is a fine display of *Præcox* Sandersiana, with 22 dahlias, exhibited by William Duckham, gardener to Dr. Willie James, Esq., Madison Square Garden. The horticulturists' presence was granted to this superb exhibit, and the horticulturists' presence was granted to this superb exhibit, and the horticulturists' presence was granted to this superb exhibit.

F. R. Henson Co. had a charming group of flowers, and a large number of bay trees distributed about the hall. This firm secured the best collection of bay trees, and a large number of bay trees distributed about the hall. This firm secured the best collection of bay trees, and a large number of bay trees distributed about the hall.

In the cut flower classes, John Lewis Childs, Floral Park, was first with a fine lot of flowers, and a large number of bay trees distributed about the hall. This firm secured the best collection of bay trees, and a large number of bay trees distributed about the hall.

A special feature of the week's display was a collection of Colombian grasses from the State of New Jersey, Summit, N. J., in all over 500 species, many of which are unknown and have not been seen since the collection of the horticulturists, and a large number of bay trees distributed about the hall. This firm secured the best collection of bay trees, and a large number of bay trees distributed about the hall.

**Hydrocyanic Acid Gas for Green-house Fumigation.**

In connection with our work on the diseases of plants grown under glass we have been forced to consider the eradication of some of the more common insect pests. This we tried to accomplish by the use of some of the remedies commonly recommended, but after repeated trials with different spraying mixtures and washes and by use of tobacco in its different forms, many of the insects in question were not destroyed, while the tissues of the plants so treated were weakened and more or less injured, making them more susceptible to the attacks of fungi. We were, therefore, forced to adopt some other means of combating these pests. With these objects in view, we carried on a number of experiments with hydrocyanic acid gas. This in most cases proved entirely satisfactory. The results of this work have appeared in the columns of the *Florists' Exchange* from time to time. There are, of course, many details and some minor changes in our methods that have not been published. It is the aim of the writer to review to some extent the various articles, and to make slight modifications and additions to our former methods of using the gas.

The deadly effect of the gas upon scale insects was discovered by Professor D. W. Coquillett, in September, 1886, in the Wolfskill orange groves in California. A full account of his experiments may be found in the Department of Agriculture Report for 1887, page 123. Since that time it has been very extensively used in California and other sections of the country in treating these pests upon orange trees. It is only a few years ago, however, that its use has spread to other branches of horticulture and floriculture. It is used for the purpose of destroying every first-class nurseryman in treating buds and stock brought into or shipped to this country.

The first successful experiments with the gas on greenhouse plants, as far as is known, were made three years ago under the direction of Mr. Albert F. Woods of the Department of Agriculture. These were successfully treated a house of ferns, adiantum and davallia, that were badly infested with scale. The scales were all killed without the slightest injury to the youngest growing fronds. The next experiment was the fumigation of a greenhouse which was filled with coleus (in varieties). There were 20,000 plants that were badly infested with the white tail mealy bug (*Orthezia insignis*).

Those in authority had exhausted the repertoire of remedies usually used in such cases with varying results in killing both insects and plants. In fact, the results were so discouraging that the authorities had about decided to throw out the entire stock. It was finally concluded to try the effect of the gas. The result was all that could be expected. All of the *Orthezia* were killed without injury to the plants. A number of the insects had loosened their hold upon the plant and had fallen to the ground, while quite a number, though dead, were still adhering to different parts. These would, however, wash off at the first good syringing.

Quite a number of plants of different varieties were placed in the farther end of the house so as to test the effect of the gas upon them. The last included *Alocasia macrorrhiza variegata*, *Anturium sp.*, *Arcen luteosens*, *Adiantum cuneatum*, *Cissis discolor*, *croton* (in variety), *colusa* (in variety), *Plectranthus buchanianii* (in variety), *Jacaranua minosifolia*, *maranta* (in variety), *nympheas* (in variety), *Pontederia crassipes*, *Phryllus variegatum*. A detailed account of this experiment appeared in the *Florists' Exchange* April 26, 1896, page 426. Since the above experiment, all the coleus cuttings made at the U. S. propagating gardens either for Spring or Fall stock, are fumigated before being put into the cutting bed. A detailed account and material to be used in this purpose may be found in the *Exchange* for December 19, 1896, page 1132. A box of this kind is also used for the purpose of removing the trays, it can be used for fumigating a small quantity of stock in the house, or to treat a box or boxes of miscellaneous plants.

The *Exchange* for February 13, 1897, page 147, will be found an article entitled "Fumigating Greenhouses with Hydrocyanic Acid Gas." The method of

applying the gas, of calculating the number of cubic feet of space in different style houses, and estimating the amount of material to be used, is there very carefully explained. We find that the best results are obtained when the jars are placed from 25 to 40 feet apart, depending somewhat on the width of the house. Not more than one-half to two pounds of cyanide should be used in each jar.

A house requiring two jars is shown in fig. 3, ready for fumigation. It will be



away with "hulling strips" to the sides of shallow walks or across deep ones. The strings are removed from the walks and are out of the way when going in and out from the jars preparatory to putting the cyanide in position they slip easier over the hooks than over the slicks, when the string is loosened at the door all of the bags drop into their respective jars at the same time. The strings used in each house should be kept convenient for other fumigations. In shallow walks it will

be found in the *Exchange* for September 4, 1897, page 758, and a second account by Mr. Safford in the following issue of the same paper, September 11, 1897, page 818. In this experiment all insects in the house were killed.

The advantages and disadvantages of the use of this gas in greenhouse work can be summarized as follows:

1. The effectiveness with which it acts.
2. Its rapid diffusibility.
3. Ease of application.

**Fumigating by Hydrocyanic Acid Gas.**

Fig. 3. Violet House, Requiring the Use of Two Jars, Ready for Treatment.

seen that the method of supporting the jars is somewhat different from that described in a previous paper; in some cases this latter method is more convenient. Small hooks are screwed into the ridge or snub-hooks directly over the walk, where each jar is to be placed. A string is run from the farthest jar back to the door and stretched a little to one side near the top where it can easily be reached. Place the string over the several hooks and instead the bag of cyanide, intended for the farthest jar, in position as

to set a shallow box, such as is frequently used for cuttings, on either side of the jar, as is shown in fig. 3. This will protect the plants on either side from being injured by spattering of the acid when the gas is given off. It is safer to use two paper sacks for each package of cyanide. If the cyanide remains any considerable length of time in the sack the paper becomes wet, in which case there is danger of its giving way before the person placing it in position could get out of the house. Using two sacks makes it much

4. It does not weaken the tissues of the plants when properly applied, but the method of using it has to be determined in each case.

5. It leaves no objectionable odor in the house; flowers such as violets being as sweet immediately after its work as before.

6. A decrease in the number of applications necessary during the season.

7. Its use in riding, imported or exported stock of insect pests.



Fig. 4. Violet Houses of Wm. G. Safford, Poughkeepsie, N. Y.

shown in the photograph. Next tie a string to the one already in position, and run it to the second jar. Place the string in the hook and attach the bag of cyanide as usual. This method could be repeated for almost any number of jars. This arrangement should be made and tested before the water and acid is put in the jars. It has several advantages over the one formerly used. The hooks are always in position and ready for use. It does

suffer, as the second sack will seldom wet through.

Perhaps the most extensive use of the gas in a commercial way was the treatment not long since of Mr. W. G. Safford's entire range of violet houses at Poughkeepsie, N. Y. An exterior view of his place is shown in fig. 4. The houses contain 70,000 cubic feet of space and about 10,000 violet plants that were infested with black aphid. A detailed account by Mr. Woods of the treatment will

its disadvantages are few:

1. Its deadly poisonous nature to man and beast. This is, however, reduced to a minimum if the instructions laid down are carefully followed.

2. It must be used at night (at least for the present) and during the winter months only on nights when the temperature outside is sufficiently high to allow of thorough ventilation in the houses for at least 30 minutes. 1. H. Doherty.

**4 ACRES FIELD-GROWN CARNATION PLANTS, 94,000.**

Our Carnations are grown with the greatest care and are first-class plants, free from disease. We pack light by our improved system of packing by which we can send them to all parts of the United States and Canada in perfect condition.

**CRIMSON SPORT, IVORY, DEAN HOLE, BUTTERCUP,**  
\$1.25 per doz.; \$8.00 per 100.

**BRIDESMAID, ALBERTINI, CHESTER PRIDE, PURITAN,**  
**DAYBREAK, NICHOLSON, BRIDE OF ERLESCOURT,**  
\$1.25 per doz.; \$6.00 per 100.

**SWEETBRIER, SILVER SPRAY, PURITAN,**  
**LIZZIE MCGOWAN, PORTIA, WM. SCOTT,**  
**MRS. CARNEADE, FISHER, EDWARDS,**  
**LA LAMBORN, GRACE WILDER,**  
\$1.00 per doz.; \$5.00 per 100; \$45.00 per 1000.

**J. L. DILLON, - - - BLOOMSBURG, PA.**  
When Writing Mention Florists' Exchange

**50,000 FIELD GROWN CARNATIONS**

Strong and healthy plants in quantity now ready for delivery, of the following sorts: William Scott, Rose Queen, Tidal Wave, Nancy Hanko, Fortis, Lizzie Gilbert, Corsair, Storm King and Ivory. Price, per 100, \$3.00; per 1000, \$25.00. No order for less than 100 accepted. Address

**REINBERG BROS., Wholesale Cut Flowers, 51 Wabash Ave., Chicago.**  
When Writing Mention Florists' Exchange

**EXCELSIOR CARNATION SUPPORTS**

OVER ONE MILLION IN USE.  
10, 13, 15, 20 inches high, \$3.00 per 1000; \$1.00 per 100.

**ROSE STAKES**  
Of Galvanized Wire, 2 ft., \$5.00 per 1000; 3 ft., \$7.00 per 1000; 4 ft., \$5.00 per 1000.

**STEMMING WIRE**  
20 to 24, 35 cts. per stone; 25 to 28, \$1.50 per stone. 21-22 cut 9 or 12 inches, 75 cts. per lb. Not less than 16 lbs. at time per lot.

**30,000 PALMS AND FERNS.**  
At the lowest prices.  
**NEPHROLEPIS EXALATA BOSTONIENSIS.**  
Grand stock from 3c. to 25c. each.

**GROUND BONE.**  
Guaranteed pure and fine, \$1.25 per 100; \$20.00 per ton. Sample free.

**BULL DOG HOSE.**  
5 and 7 ply, 12 to 15 cts. per foot. Send for sample. We can ship hose from New York City, Cleveland, Chicago, San Francisco or Boston.

**H. F. LITTLEFIELD, Worcester, Mass.**  
When Writing Mention Florists' Exchange

**A FEW HUNDRED LIZZIE MCGOWAN CARNATIONS**

Field-grown, good healthy plants, just coming in buds, \$4.00 per lot. Cash with order. Sample plants 10c.

**F. G. MENSE, - Glen Cove, L. I., N. Y.**  
When Writing Mention Florists' Exchange

**CHAS. T. SIEBERT** THE RESTLESS, SLEEPLESS  
PISTON OF  
PITTSBURGH, PA.  
GROWS & SELLS  
CARNATIONS THAT PAY.

**30,000 CARNATIONS**

Field-grown, fine, bushy, healthy plants. No buds on them . . .

**WELL-BROWN PLANTS. GREAT FOR GASH.**

Alaska, Silver Spray, Hector,	Portia, Lizzie McGowan, Tidal Wave,
Mrs. Fisher, Daisy Bell, Wm. Scott,	Edwards, Buttercup, Minnie Cook,
T. Carleidge, Mrs. Fisher, Helen Keller,	Riford, A. Lonsdale, L. Lamson,
Puritani, Daybreak,	

1st size, each with order, \$5.00 per 100 doz " 3.00 "

Fetch Bow, Emma Wacher, Jubilee, Yellow Jacket, Triumph.

1st size, \$7.00 per 100 doz " 5.00 "

I study to please every patron and pack carefully in light boxes, guaranteeing best satisfaction and big value for the money. We have three express companies, Adams, American and United States.

**CHAS. T. SIEBERT, Sta. B, Pittsburg, Pa.**  
When Writing Mention Florists' Exchange

**CARNATIONS** Field-grown Scott and Lizzie McGowan, \$3.00 per 100.  
Chrysanthemums, named varieties, all colors, one stocky plants, 32 in. pots, \$7.00 per 100. Violets, Campbell clumps from field, \$5.00 per 100. Roses, Bridesmaid, 4 in. pots, clean, healthy stock, \$4.00 per 100. English Ivy, large plants from field, \$4.00 per 100.

**E. F. EYER,**  
Berrin St. and New Lots Ave., BROOKLYN, N. Y.  
When Writing Mention Florists' Exchange

**CARNATION SUPPORT**

Pillsbury's Best. (Pat. applied for) best, cheapest, handiest support in the market. Each one supports one row or 5 plants. Price \$6.00 (six) per 100.

**I. L. PILLSBURY, Galesburg, Ill.**  
When Writing Mention Florists' Exchange

**CARNATION STAKE!**

THIS STAKE is made of one piece of wire. No. 12, galvanized neatly packed in bunches of 50, for the field or on benches. It is easily worked about, more quickly applied than anything we know of. Sample 100, \$1.50. Write for prices on large quantities.

Will exchange for Scott & McGowan plants.

**WEERS BROS.,**  
Florists,  
ALTONA, PA.

**50,000 FIELD-GROWN CARNATION PLANTS**

WM SCOTT.....\$4.00 per 100.  
LIZZIE MCGOWAN.....1.50  
LIZZIE GILBERT.....4.00  
PORTIA.....2.00  
NANCY HANKS.....3.00

**Rogers Park Floral Co., 411 Wabash Chicago, Ill.**  
When Writing Mention Florists' Exchange

**CARNATIONS.**

Field-grown Scott, McGowan, Fortis and Rose Queen, \$3.00 per 100; \$45.00 per 1000. Daybreak and Wm. Scott (red), \$4.00 per 100; \$50.00 per 1000. GERANIUMS Rooted cuttings of Wm. Scott, \$2.00 per 100; \$20.00 per 1000. YINCAS FIELD-GROWN, \$3.00 per 100. Palms, Rubbers and Cut Flowers.

**THE F. R. WILLIAMS CO.,**  
334 Erie Street, - CLEVELAND, O.  
When Writing Mention Florists' Exchange

**CARNATIONS**  
F. DORNER & SONS CO.,  
La Fayette, Ind.  
When Writing Mention Florists' Exchange

**CARNATIONS.**

Eldorado, Capt. Jack, Louisa, Lela Haettel, Fortis, Helen Keller, Scott, Puritan, Thos. Cardigan, for cash, \$4 per 100; \$25 per 1000.

**R. H. MURPHEY, - Urbana, Ohio.**  
When Writing Mention Florists' Exchange

**MORELLO**

Field-Grown, at \$1.50 per dozen; \$10.00 per 100.

**HOPP & LEMKE,**  
Post Post Office. EAST GRAND RAPIDS, MICH.  
When Writing Mention Florists' Exchange

**CARNATIONS and CYCLAMEN**

CARNATION—First-class field-grown; no frost Scott & Lizzie McGowan, \$3.00 per 100. Wm. Scott, \$4.00 per 100. \$45.00 per 1000. Daybreak, Meteor \$4.00 per 100. \$45.00 per 1000. \$45.00 per 1000. CYCLAMEN PERISHIAN GIGANTEUM from \$4.00 per 100; 5 in. pots, \$5 per 100.

**J. C. BURROW, Agent, Fishkill, N. Y.**  
When Writing Mention Florists' Exchange

**SURPLUS CARNATIONS**

1000 DAYBREAK,  
1000 LIZZIE MCGOWAN,  
Fine, bushy plants, at \$1 per 100. Terms Cash.

**CHAS. E. SMITH, York, Pa.**  
When Writing Mention Florists' Exchange

**H. WEBER & SONS, CARNATIONS OAKLAND, MD.**

When Writing Mention Florists' Exchange

**FIELD GROWN CARNATIONS**

3000 McGowan, \$6.00 per 100.  
3000 John's Scarlet, \$1.00 and \$1.50 per 100.

**5000 ROOTED GERANIUMS**  
La Favorite and Double Grant, \$1.50 per 100.

**JANN BROS., New Bedford, Mass.**  
When Writing Mention Florists' Exchange

**Harrison's White CARNATION.**  
New Carnation, sport from Wm. Scott.  
**JOHN HARRISON,**  
738 Bergen Ave., Jersey City, N. J.  
When Writing Mention Florists' Exchange

**SURPLUS STOCK CARNATIONS and BOUVARIA.**

100 Scott, 100 Fortis,  
120 Kitty Clever, 150 Battered,  
150 Battered, 150 Battered,  
250 Eldorado, 45 Lambere,  
The above at \$4.00 per 100, or 100 for \$50.00.  
BOUVARIA, red and pink, at \$3.00 per 100.  
300 ADAMANT CUNEIFUM, 3 in. pots, strong plants, at \$3.00 per 100.

**EVENDEBROS. Williamsport, Pa.**  
When Writing Mention Florists' Exchange

**FLORA HILL CARNATION**

Field-grown plants of this grand White Carnation, at \$10.00 per 100.

**CYCLAMENS.**

Magnificent plants, in various sized pots from the finest English strains, \$8.00, \$10.00 and \$12.00 per 100, according to size.

**E. G. HILL & CO., RICHMOND, IND.**  
When Writing Mention Florists' Exchange

**CARNATION PLANTS**

Helen Keller, fine, strong, vigorous plants, \$5.00 per 100.

**AMPELOPSIS VEITCHII.**

Good, strong plants, 2 1/2 in., \$3.50 per 100; 3 in., \$5.00 per 100.

**GERANIUMS.**  
Cuttings, double, white, pink and red, \$1.25 per 100.

**CARNATION and COLEUS CUTTINGS.**  
**EVERITT & INSALL, Hackettstown, N. J.**  
When Writing Mention Florists' Exchange

**NO RUST!**

**FIELD PLANTS OF**  
ELDORADO, OPHELIA, and McGOWAN, \$5.00 per 100; \$40.00 per 1000.

**JACK FROST,** which won in open competition at Philadelphia last spring, the distinction of being the largest White Carnation, will be sent out the coming season. Those wishing to list please write for discount.

**CAMPBELL, \$3.00 per 100.**

**LUXONNE and CALIFORNIA, \$5.00 per 100.**

**EDWARD SWAYNE, - Wawaset, Pa.**  
When Writing Mention Florists' Exchange

**40,000 Field-Grown Carnations**

CLEAN HEALTHY STOCK.

Daybreak.....2 1/2 size, \$3.00	\$25.00
Scott.....1st " "	5.00 40.00
".....2nd " "	3.00 25.00
McGowan.....1st " "	3.00 25.00
Mrs. Fisher.....1st " "	5.00 40.00
Portia.....1st " "	5.00 40.00
Tidal Wave.....1st " "	5.00 40.00

**PORTIA.**

We have about 5000 extra fine, large PORTIA.

**100 California Violets,**  
\$4.00 per hundred.  
**EDW. J. TAYLOR, Southport, Conn.**  
When Writing Mention Florists' Exchange

# The "Plant Clinic" of The Florists' Exchange.

It is a pretty generally accepted fact that in spite of every care and precaution exercised, disease in more or less aggravated form will at times fasten itself upon plants as well as human beings, and when it does attack either ourselves or our products, it is well to know its nature so that a prompt remedy, if possible, may be resorted to. To know the nature of a disease is equally desirable. Although the "plant doctor" has been suggested, and wisely so, it is not to be understood that it is to become an established institution in our midst, and until such times as he does make his appearance among us, growers themselves will be called upon to prescribe and administer antidotes and medicines for the various ills to which their plants are subject.

In view of the prevalence of a desire for information on the several diseases that are met with in the cultivation of those plants which at present form the staples of our business, the following questions have been suggested, and wisely so, and a compilation of useful matter pertaining to this subject would at this time prove opportune and serviceable to a vast majority of our patrons. To that end, we set to work to secure the services of expert scientists to furnish us with simple descriptions of the pests most commonly encountered, so as to render easy their identification by the general grower, and also to obtain from several competent men who have had experience in preventing, checking, or otherwise combating such diseases, their mode of treatment, to which we now beg to present for the edification of our readers.

It is needless for us to point out the value of such an edition as this, which value lies in the handy means of reference which it affords as regards the cause and effect of the diseases dealt with, as also in the remedies known or suggested that it furnishes.

We desire to extend our sincere thanks to the scientific gentlemen who have so freely given of their knowledge in this respect, and to our friends, the growers, who have so readily and so willingly aided us in presenting what, in our opinion, is one of the most valuable and practical editions ever issued from our press.

## Fungus Diseases of Roses.

There are many kinds of fungous diseases of the rose recorded in the books, and only a few of the most injurious can be mentioned here.

The black spot (*Actinomyces rosea* Fr.). This, it is perhaps the most widespread and troublesome of the fungous diseases of the rose, and is so common as scarcely to require mention. It is usually first brought to the mind of every rose grower. When attacked by the *Actinomyces* the leaves are severely spotted with the characteristic dark circular spots, while elsewhere the leaves become pale and withered.

The fungus consists of fine threads which feed upon the substance of the rose leaf. The spores which would not grow from spore that has been brought through the air or in water from a mature black spot, fungus spores in diverging lines until the circular area is the size of a dime or even a half-dollar. After the growth has proceeded for a time small spores may be seen upon the surface of the spot. These are the spore-bearing places, after the skin of the leaf has been ruptured or thrown off, and multitudes of spores are produced, which are the "seeds" of the disease. In many cases the spores are sending their way to a healthy leaf, of inaugurating a new black spot.

With many other fungous diseases of plants, some varieties of roses are much more susceptible to the black spot than others, and therefore it goes without further saying that, other matters remaining the same, it is an important precaution to grow those sorts that are the least subject to the malady.

Roses are sometimes more or less covered with a powdery substance (mildew) as if the fine dust from a flouring mill had settled upon the leaves, many of which are somewhat in shape. This powdery substance consists largely of the spores of a fungus (*Sphaeria rosarum* Walp.) that bears the familiar name of rose powdery mildew. Fig. 1, c. This fungus does not send its filaments deep into and between the cells of the leaf and is, therefore, not so destructive as the black spot. Because superficial in its manner of feeding upon its host this mildew can be removed by the rubbing of the leaves and quickly become manifest.

There is another rose mildew (*Peronospora rosicola*) which grows in many ways from the one last mentioned. It is deeply seated, in that its fine filaments extend through all portions of the leaf, and afterwards produce upon the surface a fine growth that has suggested the common name of downy mildew for this fungous parasite. This mildew is closely related to the ones upon the grape, the chrysan, the greenhouse cucumber and several other of the destructive downy mildews.

Rose canes are sometimes covered with small pimples, each one of which abounds in spores. These microscopic spores ooze from the pimples or small rifts in the epidermis of the cane and germinate quickly and spread the disease. This is the rose anthracnose (*Chrysosporium roseum* Fr.), which is shown in a photograph of a plant nearly destroyed with it in the next disease. The disease is related to several of the worst diseases of other cultivated plants. Thus (*Gloeosporium*) it attacks the leaves of the raspberry (*Gloeosporium venetum* Spiz.) is another near relative of the spores in which it may be found, and it passes through its young parts by the trouble in the anthracnose falling upon the leaves or canes of the latter. The latter may also girdle the stem and thereby kill it.

A plant thus infested by the anthracnose may send up new canes from near the base of the stem, which in turn are likely to bear pale, sickly foliage and finally to be destroyed by the fungus that in this instance may send it directly from the old stem. This is one of the most contagious of the fungous diseases of the rose.

Some of the plants in rose houses have foliage that is badly marked with gray, irregular, often quite sun spots. If these spots are looked at closely—and a hand lens will assist greatly—they are seen dotted over with minute black specks, the spore-bearing organs of *Sphaeria rosarum* Ell. Fig. 1, b. In order that this trouble may have a common name and to avoid the word spot and any confu-

ply of blooms. While there are several causes for this sad state of things, one of the leading reasons for distress is a microscopic worm that works principally at and in the roots. These worms are in form like that of an ordinary earth, and under the microscope are seen in almost constant motion. These cause an enlargement of certain portions of the roots, which swellings are sometimes called galls. These galls or knots are easily detected with the naked eye when a plant is removed from the soil and carefully washed of the adhering earth. Fig. 3 shows the general appearance of a portion of a root of a rose that had sickened from the larvae of these worms. As the minute animals are not unlike the worms found in vinegar, they are some-

times with, and this naturally raises the question of how they first get into the bed. This may be in one or more of several ways. They may be already in the roots of plants, but in small numbers, when the plants are put in the soil. To guard against this, the roots should be examined as closely as possible for the galls, when the beds are set. All galled roses should be excluded. The nematodes may come in with the soil. Soil that has not been used in a garden for some time is not necessarily free, but if taken from a pasture or meadow, it may contain many nematodes. Then, again, they may be taken with the manure that is used in the garden.

Just what will be the best precaution remains for the practical rose grower to determine. Cold in excess will probably destroy the worms, and likewise a high temperature is inimical to them. Rose growers have made the experience of heating the soil of a small portion of the bed before setting the plants, and satisfied themselves that such treatment will pay. If manure is the chief vehicle of the worms, it may be possible to grow roses without so much of this constituent of the rose soil.

The fact is that the worms are doing us little damage and when they are once in a plant there is no known way of driving them out. New conditions may induce their disappearance, but the chances of a diseased plant may revive, but this is not to be expected under such circumstances.

It is possible that some substance may be put upon the soil that, while not injuring the roses, may kill the worms. This has been tried, and with favorable results. Sprinkle the line upon the surface of the soil, or better mix it with the soil, and each watering will tend to bring it in contact with the bodies of the worms. It is not unlikely that some of the fertilizer compounds may be found that at the same time they furnish food for the plants, will deal a death blow to the nematodes. Kainit may thus prove an effective remedy. It is suggested that some enterprising rosarian to take the matter in hand and demonstrate the truth or falshood of the above suggestion. It is easy to obtain and apply, and the amount to be used must be determined by M. H. Watson, Mass.

## GROWERS' PRACTICAL REMEDIES.

1. For mildew, but a limited experience in growing roses under glass.

For powdery mildew on roses in the open air, a solution of sulphate of potassium—one-half ounce to six quarts of water—applying the same with a syringe or brush, is found beneficial. Two applications are sufficient. If used before the plants become too hardy affected, it will be a good remedy for chrysantheums affected with mildew.

M. H. WATSON, MASS.

As regards to the diseases of the rose, such as black spot, mildew, etc., we find one of the most effective remedies for black spot is a syringe of Bordeaux mixture, or mildew, powdered sulphur sprinkled on steam or hot water. As regards to the diseases of the rose, we have used other remedies with more or less success, but it is our experience that the best remedy for black spot, and powdered sulphur for mildew are the safest and most effective. During the winter months, the roses should be examined and eradicated by dusting the plants with powdered sulphur.

THE FLORISTS' AND CONAN CO.

Anyone who has attempted to grow hybrid perpetual and hybrid tea roses in the open ground in the northern part of the country, has probably observed how few and how small they are to many of

roses with black spot, the expression "rose leaf blight" is proposed.

Before leaving the roses, and in answer to a question already asked, it may be said that the peculiar discoloration of the leaves of *La France*, for example, Fig. 1, d, is not due to a fungus, but to a disease which may be called "browning," is probably due to structural weakness permitting the leaves to become scalded by too great sun exposure.

The methods of treatment are given at the close of the consideration of the diseases of the chrysantheum.

## Eel-Worms In Roses.

During the past few years there have been many complaints on the part of rose growers because their plants failed to produce a healthy growth and good ap-

pearance of a vinegar eel.

The point that most interests rose growers is how to get rid of the pests. In order to do this it will be of much assistance to know where the worms come from—how they propagate and get into the plants. These eel-worms are much more abundant than generally supposed, and it is only when they are numerous that their mischief becomes apparent. The nematodes, as a rule, much more abundant in warm countries than elsewhere, and the unusual abundance of these pests in northern gardens, for the past few years, is likely due to the lack of freezing in the soil.

The greenhouses furnishes the proper condition for the propagation of the eel-worms, provided they are there to begin



Fig. 1. Fungus Disease of the Rose.

**BELLIS** (Daisies). Finest strain of Bellis, first for large double flowers and good colors; strong stocks plants, 50c per 100, by mail, \$3.50 per 100, by express.

**J. C. SCHMIDT & CO., Bristol, Pa.**  
When Writing Mention Florists' Exchange

**Double Hardy Russian Violets,**  
Lar e glumps, 75c., rooted runners, 35c. per doz

**Giant California Daisy,**  
2 1/2 in. pots, 67c., rooted runners, 35c. per doz.

**Etoile d'Or, Yellow Daisy,**  
Same price.  
For other stock see adv. in September numbers.  
**OSAM WITH ORDER, PLEASE**  
**A. & S. ROSSBACH, Pemberton, N. J.**  
When Writing Mention Florists' Exchange

**VINCA MAJOR**

**VARIEGATA**

25,000 Field-Grown. Prices to Suit.

	Per 100	Per 1000
Extra Plants.....	\$5.50	\$30.00
selected Plants.....	4.50	40.00
Manmade Plants.....	6.00	50.00
Rooted Cuttings.....	1.00	9.00

**VINCA SPECIMENS,**  
50 cts. each; \$45.00 per 100.

**LYCOPODIUM,**  
50 cts. per bunch; \$45.00 per 100 bunches.  
Less 5 Per Cent. for Cash and Order.

**JOHN DOBBERTIN, Rochester, N. Y.**  
When Writing Mention Florists' Exchange

**ASPARAGUS ROOTS**  
FOR FORCING.  
Have large stock of Asparagus Roots, 3 and 4 feet strong considered large enough for forcing in greenhouses. Campteria, Hayward and Palm-tree. Call for list and be looked now for.

**XMAS HOLLY,**  
December shipment. Prices of the above on application. State quantity desired.

**ALEXANDER PULLEN, Milford, Del.**  
When Writing Mention Florists' Exchange

**NEW BEDFORD CENTENNIAL PRICES**

For all Strong, Clean, Field-Grown Stock, no roots to house it.

**CARNATIONS**—McGowan, \$3.50; Fortis and Alaska, \$5.00; Silver Spray, \$4.50 per 100.

**VIOLETS**—Nice clumps. Lady Blume Campbell, \$3.50 per 100; \$30.00 per 1000.

**VINCA VARIEGATA,** \$9.00 per 100.

**W. C. KRABER,**  
125 Florence St., BEDFORD, MASS.  
When Writing Mention Florists' Exchange

**For the Catalogue Trade**

**NOVELTIES.**

	Per Doz.
<b>COLEUS</b> —Klondike.....	\$10.00
Karl's Gem.....	10.00
Mentor.....	5.00
Sandwich.....	5.00
<b>AGRATUM</b> —Dwarf Beauty.....	4.00

For further particulars, address  
**CARL HAGENBURGER, Mentor, Ohio.**  
When Writing Mention Florists' Exchange

**GERANIUMS** Post-grown, in flower, 3 in. pots, \$1 per 100; 4 in. pots, \$4 per 100.

**SMILAX** Sold for samples. Cash with order.

**FRED. ROEHLER, Cape May City, N. J.**  
When Writing Mention Florists' Exchange

**PRIMROSES.**  
Chinese Primroses, 3 in. pots, \$2.50 per 100.

**CINERARIA,** ready Nov. 1st..... \$7.00  
**CHRYSANTHEMUMS,** 5 in. pots, 300 var., 8.00  
**FANSY PLANTS,** ready Oct. 15, 1000, \$3.50 per 100.

**JOS. H. CUNNINGHAM, Delaware, Ohio**  
When Writing Mention Florists' Exchange

**A YELLOW DAISY.**  
Chrysanthemum Superum Grandiflorum (White and Yellow Paris Daisy)

One half bush, plants, will give satisfaction, per doz., \$2.00; per 100, \$20.00.

**FRANK A. ROBERTS,** From 2 1/2 inch pots, per doz., 40c. or per 100, \$3.50; per 1000, \$30.00.

Trade and Bridemaid Roses. Prices vary down. Give me a trial order.

**ELMER I. RAWLINGS,** Quakertown, Pa.  
When Writing Mention Florists' Exchange

**SURPLUS STOCK**

**CARNATIONS** 150 Mentor, 200 Allertini, 500 D. D., 100 H. Koller, 80 Puritan, 50 Uncle J. Inn, at \$3.00 per 100, or will sell the whole lot for \$11.00 cash.

**VIOLETS** Good strong clumps, California and M. Louise, at \$4.00 per 100.

**ROSES** American Beauty, 2 1/2 inch pots, 4 cents; 3 inch, 6c.; 4 inch, 10c. 125 Chroma, 2 1/2 inch, 5c. 200 Irides, 2 1/2 inch, strong, 2c.

**W. W. COLES,**  
MAPLE HILL ROSE FARM,  
KOKOMO, IND.  
When Writing Mention Florists' Exchange

**PRIMROSES, VIOLETS, GERANIUMS.**  
I still have a few Bride and Bridemaid Rose cut out at \$1.00 per 100. Also stock of Florida, Della Fox, Rose Queen and Meteor Carnations, at \$2.00 per 100. Primroses, ready for shipping, at \$2.00 per 100, one of 1 and 2 1/2 in. pots. Finest plants to be had. Campbell Violets, ready for shipping, 2 and 2 1/2 in. pots, nice stock, \$2.50 per 100. Geraniums, 16 best varieties, \$1.25 per 100; \$10.00 per 1000, and at most strong stock.

**QEO. M. EMMANS, Newton, N. J.**

**CHINESE PRIMROSE PLANTS**

Primula chinensis flumbrata, extra strong plants, from 3 1/2 inch pots, single varieties, in separate colors, \$4.00 per 100. Finest mixed, \$2.50 per 100. Double Primula, white and red, \$4.00 per 100. Our plants are grown from the best strain of seed. Do not buy white and pink predominating. Satisfaction guaranteed.

**PAUL MAHER, East Stroudsburg, Pa.**

**2 cts. CINERARIAS, 2 cts.**

We have a large stock of the choicest strain of Dwarf and Large Flowering Cinerarias, which we put at this low figure: 2 1/2 inch, ready to ship, \$2.00 per 100; \$15.00 per 1000. Extra plants added, 500 at 1000 rates.

**WHITTON & SONS, WAREHOUSES, City and Green St., Elm, N. Y.**

**CARNATIONS**

Clean, healthy, field-grown stock at \$4.00 per 100; Daybreak, Silver Spray, Rose Queen, Garfield and Fortia.

**VIOLETS**  
Marie Louise and California, strong, healthy well established plants from 4 in. pots, at \$4.00 per 100. Field-grown California, at \$5.00 per 100. Samples mailed on receipt of 10 cts. to cover postage.

**L. L. MAY & CO., St. Paul, Minn.**  
When Writing Mention Florists' Exchange

**CANNAS**

**JAMES DEAN'S NEW PEDIGREE CANNAS WILL BE SENT OUT IN FEBRUARY**

**PRES. WM. MCKINLEY**

Color brilliant crimson, with scarlet shading. Plant dwarf, growing from 2 1/2 to 3 feet high in rich soil. Foliage deep green, with heavy chocolate margin. Plant stools freely and is an abundant and very early bloomer. The flower stems are highly colored as in Alphonse Bouvier. The trusses are large, of good shape and held well above the foliage, and the growth is compact and even. This variety may be considered a marked improvement upon Chas. Henderson, Columbia and other crimson cannas. The effect when massed is extremely brilliant, the color contrasting finely with the deep green foliage. We place this variety at the head of the list of crimson cannas.

**ALSO THE FOLLOWING GENERAL LIST OF CANNAS READY FOR IMMEDIATE DELIVERY:**

Chas. Henderson, A. Bouvier, Ami Pichon, Midway, Chicago, Alex. Billard, Papa, Beaute Pottevine, Columbia, Flamingo, Madame Croq, Souvenir de A. Crozy, Queen Charlotte, M. Meissner, Pierson's Premier, Italia, John White, Eldorado, Florence Vaughan, Austria, Count de Bouchard, L. E. Bally, Burbank, Eganale, J. D. Cabos, Admiral Avellan, President Carnot, J. C. Vaughan, Leonard Vaughan and Souv. du Pres. Carnot.

**GERANIUMS**

Clean, well-established stock, from 2 1/2 inch pots. The following varieties are now ready for immediate delivery: Mrs. E. G. Hill, Marvel, Mrs. A. Blanc, Madame Buchner, Rev. Atkinson, Double General Grant, Mme. Chas. Molin, S. A. Nutt, Beaute Pottevine, Leonard Kelway, Madonna, Prest. V. Dubois, W. A. Chalfant, La Favorite, and Mme. de la Roux.

Also a large lot of the following varieties ready for delivery in about six weeks: Alphonse Ricard, J. J. Harrison, Acteon, E. Leguere, Dr. Audiguere, Comtesse de Danne, Bonnat, Mary Hill, Bonne de Villenova, Comtesse de Castris, Triumph of Nancy, William Pitzer, Madame Jones, Glori de France, Madame Aulin, H. de Bonnier, Comtesse de Harcourt, Abilete or Wonder, Olivia, Dr. Kothera, James Kelway, L. Swartling, H. Dauthenay, Mme. Bruant, Benj. Schroeder, Columbia, Midsommer, Gertrude Pierson, McMahon, Silver Queen, Gettysburg, and a fine collection of Ivy Geraniums.

and believe that it will prove invaluable for bedding purposes. Certified. Trade prices 75c. each; \$60 per 100, from 4 inch pots.

**DEFENDER**

Color clear yellow, striped with bright scarlet. Height 3 to 3 1/2 feet. Habit somewhat resembling Columbia. An early, very profuse bloomer, producing fine large heads of broad petaloid flowers. Foliage clean, distinct, and a good grower. This canna will prove very effective for massing, as it produces a greater proportion of flowers to the foliage than almost any other yellow canna. Certified. 75 cents each; \$60.00 per 100, from 4 inch pots.

**BOSTON FERN**

Strong stock now ready, from 2 1/2 inch pots, at \$5.00 per 100; \$40.00 per 1000.

**CARNATIONS**

We have a fine lot of seedlings now under the third year's trial and shall offer as including the following colors: Snow white, bluish white, brilliant scarlet, clear silvery pink and deep Bridemaid pink.

**DAHLIAS**

We offer a fine collection of the best varieties in at reasonable prices. Before placing your orders elsewhere, write and get our prices.

Our Special Wholesale Price List for Autumn, 1897, is now ready and will be sent to any Florist upon receipt of his name and address.

**THE COTTAGE GARDENS, Queens, N. Y.**

**GERANIUMS DAHLIAS**

the weaker growing varieties, and especially the dark colored sorts, of the Roman and Boazetten type. We have frequently seen blocks of this class of rose that had lost nearly all of the foliage by the first of September. At the beginning of the present season we determined to give the Bordeaux mixture a thorough trial. We commenced spraying early in June when the plants were 8 to 10 inches in height and went over them every 10 or 12 days until the last of August. The result is that on the plants so treated we have had hardly a trace of mildew, and we have been almost entirely free from black spot, so much so that to-day, September 25, the dark colored varieties, Jacqueminot, Roman, etc., are as green as in their foliage in July, while Mrs. Laing, Paul Neyron, Fenner, etc., are a mass of bloom, with bright clear foliage. The marked effect of the treatment is shown in several rows of Crinson Rambler and Prairie Queen, where the tops had grown across the rows so closely that it was impossible to get the spraying outfit through them after the middle of July; up to this time they were as free from mildew as the rest of the field, but now both varieties are showing plenty of mildew, while varieties on either side of them in the same field are almost entirely free.

ROBT. GEORGE, of Storrs & Harrison, Ohio.

Black spot is always most troublesome in moist, cool weather; and although it has been known to affect roses both under glass and in the open ground for a good many years, there has been no remedy found for its cure so far. The very disagreement of the authorities is that it affects the action of the roots almost immediately it gets a foothold on the leaves.

The best preventive I have found, in my experience, is first to avoid giving any check to the plants in any form, either through giving insufficient water, or by over-watering, as at certain seasons roses extremely will unduly give a sudden check to active growth. This leaves the plants just in the right condition to start in the fall. The next is to avoid condensed moisture in the greenhouses at night which is very apt to occur (even if no water is used in the house whatever after early morning watering or syringing) more especially if the temperature falls anywhere near 50 degrees during the night. If the house is closed tight, there is sure to be a lot of condensed moisture on the plants in the morning; both or either of these conditions are almost certain to produce black spot.

To prevent these conditions it is much better to keep all the watering, syringing, etc., as early as possible after 9 A. M., keep an abundance of air on during the day, and at least maintain all night to avoid opening the ventilators wide at once to lower the temperature, by simply watching the weather; and more especially when the mornings are somewhat cloudy and cool, just as soon as the thermometer begins to rise or fall a few degrees let the ventilators be also in proportion, till all the air possible is circulating freely through the house. The same conditions and treatment are practically the best preventive of mildew that I have ever found.

In plant growing, as in nearly everything else, the greatest factor we all need to go to is common sense. If you want to raise healthy stock, follow nature's laws. Nature distinctly tells us that August heat is not good for, and January cold is not conducive to, opening choice flower buds; but she does tell us, in most indistinct language, that temperate weather of May and June, September and October is what roses especially delight in.

L. B. S. MAY.

Black spot on the leaves of the rose as grown under glass is caused, we believe, by too much water either on the foliage, which prevents proper evaporation by the leaf cells, or by too much water at the root, which so weakens the root growth and root action of the plant that it does not perform the work of evaporation properly. Place a hundred plants of any American Beauty in four black pots close together, and if too much water is constantly applied, and the growth is rank, the foliage will soon become so dense that evaporation from the soil is checked and that in turn will check evaporation from the leaves by weakening the root action, and black spot will soon commence. Take some 100 plants and spray them four or five inches apart on the bench so that evaporation can be greatly increased by allowing free circulation of sun and air, and the black spot will at once be checked. We believe the primary



Fig. 2. Rose Plant Nearly Destroyed by Anthracnose.



Fig. 3. Root Galls of Roses Caused by Eel Worms.

cause of all the trouble with black spot is from injudicious watering. Have a competent hand, do the watering and with due attention to firing and ventilation black spot will be a rare thing.

If evaporation is unduly checked it will show itself in different ways in different varieties of the rose. In Beauty, La France, Teston, Perle, etc., it will produce black spot. In Bride, Bridesmaid, Meteor, Morgan, etc., it will produce mildew. The reason for this is that of a number of varieties of roses some sort like Bride, Bridesmaid, etc., which when weakened by over-watering become still softer, and are readily attacked by mildew, the spores of which are always present, and only need a little additional dampness to make them propagate very freely.

We regard powdery mildew as simply an aggravated form of ordinary mildew, which will increase in proportion as the foliage is made softer and thinner by lack of air and excess of water.

Anthracnose seems to be a complaint in the rose brought on by general debility, and is only the outcome of a continuance of too much water, over-leaving, over-propagating, lack of fresh air and too loose planting, which last may be called the starting point of a good many evils. We formerly considered one foot each way was sufficient for roses. Only the other day we saw a bed of Bridesmaid, intended for "carrying over," planted 30 inches each way. This may seem like a big step, but it is a step in the right direction. C. A. M.

Professor Byron D. Halsted informs us that black spot is a very widespread and conspicuous disease of the rose, first described in 1826, now known in many countries, and often much dreaded. The professor must certainly possess the experience of rose growers everywhere, when he says that the disease is often much dreaded.

This disease was described in 1826; but I do not believe that the average rose grower of the United States has any recollection of it until the years 1882 to 1885. I well remember my experience with small lot of roses, which were being which looked well enough and grew strong during the summer, but after I had cut the first crop in the fall the plants were covered with black spot. It is probable that the plants got called about the period I was cutting them for the first time. From this disease the plants did not recover during the winter. This was my first experience with black spot, and at that time I knew no remedy for it. I now question very much if there be any known remedy which will kill the spores of this disease. But it is possible to keep the disease in check, by picking off all those leaves on which it has made its appearance. The steam pipes should be painted with flowers of sulphur, and the plants should be dusted with air-slaked lime.

In this matter as in other things, prevention is better than cure, and knowing as I do that black spot can easily be prevented, it seems strange to me that so much is heard of the disease existing in different parts of the country at times. However, I must admit that I am unfortunately located than many of my brother florists, in that I use natural gas for fuel. No florist can possibly know the advantage of this sort of fuel for use until he has tried it. Some readers of this paper may think that I exaggerate when I say that I have over 14,000 feet of glass and have not kept a night since leaving here six years ago.

I grew a house of American Beauty last year (20x100 feet), and I did not have a double handful of black spot leaves in the house during the entire winter season. These roses were planted July 15, and the ventilators were left wide open until cool nights in the fall. But, whenever the thermometer indicated 60 degrees outside I closed the ventilators half and ran steam around one 1½-inch pipe and returned pure by leaving the air on, and the steam pipe kept the moist, cool atmosphere from settling on the plants, and thus prevented favorable conditions for black spot.

The steam pipes should also be painted with flowers of sulphur and lined off as soon as the fires are started in the fall of the year. The house should be kept clean by the removal of all dead wood and leaves. Judgment must be exercised in watering, and surely we do not have a little fire bent in on with the ventilators partly open, in August and September, whenever the temperature falls to 60 or 55 degrees. As soon as the roses are planted it is imperative that the roof should be made waterproof. Good suc-

BOSTON

N. F. McC. & C.

FALL OF 1897,

FLORISTS' SUPPLIES

We are the undisputed headquarters in the New England States for FLORISTS' SUPPLIES of all descriptions.

Our stock for this season compares favorably with any in the country and having been selected with great care offers many novelties not found elsewhere.

Our Goods are the Best and our Prices the Lowest.

We are prepared to fill your orders at short notice, and will be pleased to show our goods at any time.

N. F. McCARTHY & CO.

84 Hawley Street, - - BOSTON, MASS.

Wholesale Florists' and New England Headquarters for Florists' Supplies.

When Writing Mention Florists' Exchange

Brand Improved Challenge. Roller bearing, self-oiling chain...

W. C. KRICK'S Immortal Letters. Medal awarded at the World's Fair and Highest Exhibited.

THE Perfect Flower Pot Handle and Hanger. KRICK'S ADJUSTABLE POWER POT HANDLE.

W. C. KRICK, 1287 Broadway, Brooklyn, N.Y. When Writing Mention Florists' Exchange

Red & Keeler. MANUFACTURERS OF FLORISTS' WIRE DESIGNS.

TELEPHONE, 1782 18TH ST. When Writing Mention Florists' Exchange

GOLD FISH. Fine Healthy Stock.

Medium to large size, \$10.00 per 100. Cash with order. No charge for shipping cans.

KEENAN'S SEED STORE, 6112 and 6114 Wentworth Ave., CHICAGO. When Writing Mention Florists' Exchange

Boston Florist Letter Co.

FLORISTS' LETTERS. This wooden box nicely stained and finished, 18x30 1/2 inches...

M. RICE & CO., Importers and Manufacturers of FLORISTS' SUPPLIES. JOHN CONLEY & SON, MANUFACTURERS OF TIN FOIL.

Standard Flower Pots. Send for our New Price List with extra discounts. All our Pots, from 7 in. and upwards, have our Patent Excellent Bottom...

A SAFE INVESTMENT IS LEMON OIL INSECTICIDE. Destroys Scale, Ant. Fly, Mealy Bug, Mildew, Spider, Caterpillar, etc.

Emil Steffens SUCCESSOR TO N. STEFFENS AND STEFFENS BRO. ESTABLISHED 1866. FLORISTS WIRE DESIGNS AND SUPPLIES.

FLOWER POTS. We are Manufacturing a Full Line of STANDARD FLOWER POTS and HANGING BASKETS OF THE BEST QUALITY.

Shipping Facilities First-Class, Liberty Securing Lowest Freight Rates. Our goods are well packed, and breakage is nominal.

JADOO FIBRE--Every plant grown in it thrives without earth. LIQUID--The best, safest and cheapest Fertilizer sold.

THE AMERICAN JADOO CO., 811 Fairmount Avenue, PHILADELPHIA, PA. When Writing Mention Florists' Exchange

GOOD TIMES ARE COMING! HURRY THEM A BIT!

This by using the new "FLORAL ART" (C) is taking to give customers ideas of Designs Cut Flowers, Prices, etc. It shows 90 Arrangements. Adapted to any business.

DAN'L. B. LONG, PUBLISHER, BUFFALO, N. Y. When Writing Mention Florists' Exchange

Wire Designs, Wire Designs, Wire Designs. CHEAP! CHEAPER!! CHEAPEST!!! The Klondike and Alaska outflows. Have you seen it? Do you want it? You need it!

cess cannot be had when roofs are permitted to remain out of repair. If they are neglected, when any sudden check had been given my roses, black spot and mildew would appear on American Beauty and on the hybrid in the greenhouse. Such sudden changes as having it too dry, or too wet, or a sudden cold or a sudden frost, or a sudden change of place, produce conditions favorable for the disease. If these little details are observed and taken into account, it will be no need of ever being troubled with black spot or mildew in the rose house.

It is impossible to grow American Beauty in Indiana outside more than one or two weeks in the open air, because the changes in temperature and atmosphere are so great as to favor the disease. I have all my American Beauty plants inside in solid beds, this being their second year. They were cut back about July 15, and since that time they have made a strong, clean growth, and are perfectly free from red spider, black spot, and mildew. Had my house been closed tight on cool nights without fire heat, I sincerely believe that results would be entirely different from what they are.

W. W. COLES, JR.

\*\* In combating fungous diseases of the rose it is of the utmost importance first, to make ourselves thoroughly conversant with the conditions under which they most generally occur, and the nature of the diseases themselves. Then to take the most stringent measures for their prevention, by keeping our plants in the strongest and healthiest condition all the time. This can only be accomplished by close, everyday attention to the soil, and to such things as caris, water, air, heat and light. Healthy plants ward off disease more readily than do those that are weak. To take the first thing that comes along. The next five or six weeks before strong frost has commenced is a very critical period for the rose, for if the plants receive the slightest check it takes them a long time to get round again, which means considerable loss.

With the majority of growers whose plants are affected by fungous diseases during this season of the year, I believe the chief cause, nine times out of ten, can be traced to long, cold, and rather dry weather, or proper firing. There is very seldom a night now when firing should not be done. If we do, I can guarantee that the plants will be very warm at quitting time, the thermometer standing in the sixties, but the next day, or long before that, the temperature drops below the sixty mark, which it invariably does, we get that cool and damp atmosphere, and condensation on the inside of the houses which is a sure forerunner of trouble. It is very unwise to be negligent with the fire.

Ventilating and syringing, too, takes quite a deal of watching these days. I have advocated time and time again the free circulation of air through the houses at all times, and lots of it, but great care now must be exercised during a warm shine. If the wind be cold, that a chilly current does not strike the plants.

As regards syringing, if the weather be fine two or three times a week, if well done, is sufficient to keep out spiders, and to keep a great deal of moisture in the soil by turning on the hose every day in a rose house during the Fall months. When watering the root, get my plants one good soaking that reaches to the bottom of the bench, and then leave them alone until they are dry enough to take another.

As has been mentioned before, it sometimes happens that after every precaution has been taken to keep our plants entirely free from the disease, and that one or the other puts in an appearance; then steps should be taken to eradicate them at once.

Black spot is by far the worst disease we have to contend with, and, so far, I have never found a fungicide that will cure it. A leaf or part of one, when once affected will surely turn yellow and fall off in two or three days. The best way to combat black spot is to pick off immediately each and every leaf or part of one that has got it, and consign them to the fire. This disease is very contagious, therefore it is most advisable to pick off the leaves before the spores get ripe and burst, or the next time syringing is done they will be blown all over the house. If it is necessary to keep out spiders, the trouble attains a virulent form; but if it persists, a fine spraying on bright mornings with a dilute solution of carbonate of copper will tend greatly to its prevention, and if the plants are so badly infested with Beauty, have made a good growth and are otherwise healthy, a sulphur water may be made up with one-half pound of nitrate of soda

added to the barrel, given once a week, for two or three weeks, should make it entirely disappear.

Anthracnose is a very strange disease, occurring often on a seemingly healthy plant in the midst of healthy surroundings. While not so dangerous and not so often met with as black spot, it is nevertheless very contagious, and if once allowed to get a start will work through a whole house in a few days. Clean up the dead leaves and cut out the dead parts of the plant, after which they should be well-sprayed once a week with the ammoniacal solution of carbonate of copper, which is a very effective remedy. But don't use manure water as an advocate for black spot; on the other hand, withhold water at the roots to a reasonable extent

on the pipes where steam heat is used is the most effective way, and when the weather is too warm, to use artificial heat, close down the house a bright day after syringing, then go through the house with the bellows and fill the air full of sulphur. It quickly settles down, even all over the foliage, and by keeping the house closed tight, for ten or fifteen minutes, the warm temperature will make the sulphur much more effective. When ventilation is resumed, avoid putting up the ventilators full all at once; better raise them gradually. H. H.

**Fungus Disease of Chrysanthe-mums.**

There are several fungous diseases of chrysanthemums. The oldest known, and very common one being the mildew or Oidium. This consists of fine, cobwebby filaments that are confined to the surface of the leaf and give it the appearance of being dusted with flour. It is less destructive than most of the other kinds of chrysanthemum diseases.

The leaf spot is one of the leading troubles of the chrysantheum, and first appears in small brown spots upon the foliage, which increase in size cause the death of the leaf. The illustration, Fig. 4, is made from a leaf by sun printing and shows the location of the fungus (Septoria Chrysanthemii E. & A.) by the dark patches that are generally along the irregular margin of the leaf.

Fig. 5 gives a view of the microscopic structure of the fungus. A spore-bearing cavity is shown to the right imbedded in the substance of the leaf in which long slender bodies, the spores, are produced in great numbers shown more enlarged to the left. These spores, unlike many other kinds, are made up of several cells placed end to end. Barely blighted leaves have their surface covered with these spores that have come from the small openings in the spore cavities and may be carried by water at spraying time to other leaves and plants, and thus spread the disease. The Bordeaux or other remedy falling upon these spores kills them either when they are freshly issued from the diseased spot or after they have been carried to the surface of a healthy leaf. All badly diseased leaves should be removed and burned.

A second form of blight is shown in Fig. 6, which three years ago was being photographed full length. The fungus causing this distressing condition of

the chrysanthemum was discovered only a few years ago, and bears the long name of Cylindrosporium Chrysanthemii E. & D. It is a very common disease in California previously considered, and the affected plants are often stricken down so that they can hardly stand. To discover Mr. Dearness of London, Canada, describes the general appearance of the disease as follows: "The fungus can be easily recognized by the dark blotches usually about half to three-quarters inch in diameter. In these blotches are found the spore-horns or pits and beyond them the leaf turns yellow; not long afterwards they can be easily seen to dry downward to the stem." This condition of things is well seen in Fig. 6, where it is almost entire collapse of the foliage is shown.

There are varieties that are much more susceptible than others to this Cylindrosporium, and growers will need to take careful notes on this subject of the trouble and be guided accordingly.

A single leaf that is badly blighted with the blight in question is shown in Fig. 7. The large dark spots are located with order, and the remaining portions having lost their characteristic green color, the leaves present anything but a healthy appearance.

There are other fungi that interfere with the growth of chrysanthemums, as for example, one that attacks the cuttings and which increases to such an extent to damp off before the roots and buds start to grow.

Last, but not least, there is a genuine rust, probably Puccinia Tanacetii, D. C., that has made its appearance upon the chrysanthemum during the past season in an alarming extent. One florist has written me that he may lose his whole crop. This rust appears upon the foliage in numerous small chestnut spots, somewhat like those of the spider mite, through which the fungus has pushed itself and produced the heaps of oval brown spores. Its general appearance is not unlike the rust upon carnations to which it is closely related; but there is no reason to suspect that they are identical.

This rust is a fungus that establishes itself all through the plant before it begins to show any of the above symptoms, but little hope of relief in spraying.

Fig. 4. Chrysanthemum Leaf Spot.

until the plants begin to grow out of the disease.

Providing roses are growing in good, light houses and receive proper attention as regards ventilating, firing, etc., soiling very little need be feared from the white powdery mildew; but every year we see very bad cases of it which in many cases can be attributed to nothing more or less than neglect. When a house becomes badly affected, it takes quite a long time to get entirely rid of it; whereas if taken in time it is an easy matter. As soon as a mildew appears sulphur should be applied according to the methods given so many times in this paper. Painting it

Fig. 5. Leaf Spot Fungus Magnified.

The better method will be to pick off all affected leaves and burn them.

The remedies herein have been treated sufficiently in describing some of the diseases, but here are some remarks that apply to all of them, so far as may be a concluding paragraph. In the first place the stock from which roses and chrysanthemums are to be propagated should be of the very best. Here as with other plants, a weak, diseased plant may be expected to produce kindred settings are taken from it. There is in the seed place much to be done in the study of varieties and their susceptibility to fungous diseases. If there is a predisposition, so-called, to disease, the grower should, if possible, know it and turn aside from such sorts. For example, the chrysanthemum variety called Working should be swept off by disease in many places successively for years, and growers should rank this chrysantheum as being accordingly. In the third place, the blighted parts when they first appear are less in number should be picked off and burned.

As a last resort as here mentioned, but not in fact, is spraying; and if the grower is to use a fungicide it is wise to begin with it early and spray frequently and liberally. The Bordeaux is the standard mixture, and is made with varying proportions of the ingredients, but the following may be used as a substitute. Dissolve in sulphuric acid a few gallons of water; sink the lime and add a few gallons of water to it, dilute with to hold the total amount of water. Strain instantly. If a limess mixture is preferred and the foliage may be kept green, ordinarily, it may be made by dissolving five



Fig. 7. Single Leaf Blighted by Cylindrosporium.

**PANSIES** Strong plants from Engle's select strain, now ready, \$4.00 per 100; 60 cts. per 10 by mail. Cash with order.  
W. J. ENGLE, Box 211, Dayton, O.  
When Writing Mention Florists' Exchange

**FOR SALE.**  
**FINE PRIMROSE PLANTS**  
Mixed, ready for three and four inch pots, \$2.00 per 100. Cash with order.

**M. & S. DYSINGER, Albion, Mich.**  
When Writing Mention Florists' Exchange

**PANSY PLANTS, Violet Scented.**  
The following letter is one of many received from  
1875 SHELLEIGH, Cr., Ave. 241, 267  
Shelton, Wash. Co., - Gentlemen: I find you ordered 50 cts. in stamps for one trade pair of four smooth-crested, violet-scented pansy seed, which measured 2 1/2 in. diameter. Yours truly,  
R. P. HALL, Hild Garden  
We offered from this strain, seeds, 60 cts. \$4.00 arroy plants, 60c per 100; \$1.00 per 100.

**SHELLEIGH GREENHOUSE CO., North Point, Fla.**  
When Writing Mention Florists' Exchange

**Rohmer's Superb Prize PANSIES.**  
Choice plants, 60 cts. per 100, or mail; \$4.00 per 100.  
Looked HELIOTROPE and AGERATUM cuttings, 5 cts. per 100.

**H. WILSON SMITH,**  
7 Ashley Street, MITCHELL, MASS.  
When Writing Mention Florists' Exchange

**Pansy Plants.**

Schmidt's International Mixture of Pansies is the finest in the market, unsurpassed for size, color and bloom. Strong stocky plants, 60c per 100, by mail; \$5.00 per 100, by express.

**J. C. SCHMIDT & CO., Bristol, Pa.**  
When Writing Mention Florists' Exchange

**PANSIES!**

**ROEMER'S SUPERB PRIZE PANSIES.**  
This strain includes all the leading no-tiles, 1000 No. 1 plants, ready for sale, at 25 cts. per 100, by mail; \$2.00 per 500 by express; \$4.00 per 1000, by express; \$10.00 per 1000, by express.  
Seed, 1/4 ounce, \$1.75; packet of 500 seed, \$1.00.

**CASH WITH ORDER.**

**PETER BROWN, - Lancaster, Pa.**  
When Writing Mention Florists' Exchange

**Pansy Plants.**

Large flowers, 50 cts. per 100, prepaid; \$2.50 per 1000. -  
Still a few thousand

**... ROSES ...**  
left, at the bargain price, \$15.00 per 1000.

**CASH WITH ORDER.**

**BYER BROS., Chambersburg, Pa.**  
When Writing Mention Florists' Exchange

**PLANTS**  
**1,000,000 THE Jennings Strain** U.S. 33315

Of finest American grown Pansies now ready they are the leading strain in the market and first class in every respect.

The following letter is but one of many received every year:  
SHEPARD, N. Y., June 24th, '97.  
Mr. B. B. Jennings, Dear Sir: - I have been supplied by you last August produced the finest lot of pansies I have ever seen. They were uniformly first-class. Send me one of your best mixed as usual, please. Respectfully,  
WILLIAM SCOTT,  
Finest mixed, 60c per 100, by mail; \$6.00 per 1000, by express, \$4.00; 5000 for \$18. State size of plants wanted. Seed of above strain, \$1.00 per net; \$2.00 per 1/2 doz.

**CARNATIONS.**

Fine stock of leading kinds at \$4.00 per 100. Cash with order.

**E. B. JENNINGS, 203 S. Southport, Conn.**  
**POWER OF THE FINEST PANSIES.**  
When Writing Mention Florists' Exchange

# PANSIES...



A large stock of ARECA LUSCENS, LANTANA BORONICA, COCOS WEDDELIANA, Etc., from 10 ins. to 6 feet high. Hardy home-grown bushy fine plants at moderate prices. Send for price list.

**LEMUEL BALL, Wissingoming, Phila., Pa.**  
When Writing Mention Florists' Exchange

**Cyclamen Persicum Giganteum**  
Mixed, out of 2 1/2 inch pots, ready for shift into 3 inch. Fine plants, mail to order. Price, \$5.00 per 100. Samples not asked for. Order quick.  
Will Exchange for Roses or Palms.

**FRANK E. CREMER, Florist, HANOVER, Pa.**  
When Writing Mention Florists' Exchange

**APPLE GERANIUMS,**  
3/4 in. fine plants, \$5.00 per 100.

**SANSEVIERA ZEYLANICA,** 4 in., \$5.00 per 100.  
Will exchange for Helixgon Carnations or Roses for winter blooming.

**E. L. BREWER, - Torrelli, Tex.**  
When Writing Mention Florists' Exchange

**Hydrangea Pan. Grandiflora**  
Finest of all hardy shrubs, 1 1/2 feet up, fine bushy plants, at 5c. Lighter plants, nicely branched at 3c.

**CLEMATIS VIRGINIANA,** - American White, sweet scented, 100 2 year plants, at 5c. Packing free.

**W. H. SALTER, ROCHESTER, N. Y.**  
When Writing Mention Florists' Exchange

**APPLE SEEDLINGS!**  
10000 No. 1, 3-16 and up... \$30.00 per 10000  
10000 No. 2, 1-16 to 1-8... \$15.00 per 10000  
10000 No. 3, for transp., etc. 7.00 per 10000  
Strong, healthy, and free from aphids.  
Send for Trade List.

**JENKINS NURSERIES, - Winona, Ohio.**  
When Writing Mention Florists' Exchange

**4,000 SIBYL PLANTS**  
In 3/4 inch pots, strong and healthy.  
\$2.50 per 100.

**ASA L. BROWN, Davis Ave., Kearney, N. J.**  
Near Newark, N. J.  
When Writing Mention Florists' Exchange

**HARDY CUT FERNS**  
Eight million on hand. heads of all varieties. Wholesale prices. Fancy or Dwarf, 2 1/2 in. pots, 60c per 100. Sphaerium Moss, fine quality, 50c per 1000. Ferns, Begonia Green, etc. All quality. Always by mail or express, promptly delivered. Write for prices. P. O. Box 24, Haddon Hall, N. J.

**When Writing Mention Florists' Exchange**

**Carnations and Ferns.**  
**Scott, Fortia and McGowan.**  
Int quality, \$4.00 per doz; \$35.00 per 1000  
24 " 2.00 " 20.00 "

**Adiantum Cuneatum.**  
Seedlings, \$1.25 per 100; \$10.00 per 1000  
3 " 1.00 " 8.00 "  
2 " .60 " 5.00 "

**Adiantum Patenscens, Pteris Ovaroides, Pteris Atlantides.**  
2 in. pots, \$3.00 per 100; \$25.00 per 1000.

**THE BOOL FLORAL CO.**  
ITHACA, N. Y.  
When Writing Mention Florists' Exchange

**Would Sell the Earth.**  
I believe that an arch, in your paper would sell the earth.  
C. H. WEMFELD,  
Clay Center, March 23, '97.

# STUDER'S

Abridged Wholesale List.

Until further notice, or until stock is sold, I offer to the trade the following **First-class Stock**, all in healthy condition. Measurements are given in pots in natural positions. Terms cash, or satisfactory bank references.

**PALMS.**

	In. In. Len- Pot. Pot. Feet	Price
Lantana Borbonica,	9 48 9	\$3.00 \$32.00
" "	6 30 7	1.50 16.00
" "	6 30 7	.35 3.50
" "	4 15 5	2.00 2.00
Seafarthing elegans,	7 48 5	3.00 3.00
" "	5 30 5	.50 5.00
Cocos flexuosa,	6 60 5	2.00 2.00
Kentia Belmoreana,	4 16 5-6	4.00 4.00
Areca lutescens,	4 18 5	.30 3.00
Cocos Weddelliana,	3 15 5	.35 3.50
Phoenix recinata,	5 24 6	6.00 6.00
Chamærops excelsa,	4 20 3	3.00 3.00
Corypha Australis,	4 24 3	3.00 3.00
Zamia integrifolia,	5 20 4	.40 4.00
Pandanus utilis,	6 18 4	4.00 4.00
" "	4 12 10	2.50 2.50
Draecena fragrans,	4 25 3	3.00 3.00
" Lindenii,	4 50 4	.50 5.00
" Massangeana	4 40 4	.50 5.00

**FERNS.**  
Nephrolepis dav. furcans, 5 in. pots, 50c; 6 in. pots, 75c. each.  
N. oxalata or pectinata, 4 and 5 in. pots, 50c to 30c, each.  
Pteris tremula, 4 in. pots, \$1 per doz.

**Plants for Pans or Fern Dishes.**  
Ferns, from 2 in. pots, in 6 varieties, 50c. per doz.; \$4 per 100.  
Pteris serrulata, \$3 per 100.

An excellent lot of  
P. erecta albino-lata, 50c. per doz.  
Crotom. for center pieces, 4 in. pots, \$1 per doz.; 2 in. pots, in variety, \$3 per 100.

Maranta Zehring and Fontinas, doz., 50c.  
Lyopodium and selaginella, 40c. per doz.; \$3 per 100 in variety.

**SCENTED PLANTS.**  
Rose and other scented Geraniums, Lemon Verbenas, 50c. to \$1 per doz.; Zimot scented, 35c to 50c. per doz.

Orchids in variety, *Laelia anceps* in bud, *Nepenthes* and *Ickhorn* Ferns, fine plants, \$1 to \$1.25 each.

**FOLIAGE PLANTS.**  
Marantas, Alocasias, Dieffenbachias, Anthuriums, Caladiums, 20c. to 50c. each; according to size.

**For Winter Blooming.**  
Jessamine (Maid of Orleans), will answer for orange blossoms, 4 in. pots, doz., \$2.  
Gardenia grandiflora, flowers 5 inches in diameter, 5 in. pots, \$2.50. 5 in. pot plants, 30c each; \$3 per doz.  
Gardenia florida, 20c. each.

**Hardy Decorative Plants.**  
Acucya Japonica, Magnolia grandiflora, Arborvitae, in variety, for 5 and 6 in. pots, 25c. to 50c. each.

Otather Orange, 5 c. and 7 in. pots, with 3 to 12 fruits, 50c. to \$2 each.

**Greenhouse Climbers.**  
Allamandas, Clerodendrons, Bougainvilleas, Cissus discolor, do., 50c. to 75c.

Hydrangeas, Clematis, Shrubbyeris, Evergreens and Bedding Plants of every description, in large quantities, cheap.

**ROSES,** the popular varieties, outdoor grown, \$4 to \$7 per 100; according to size and variety.

**Cut Flowers in Season,**  
W. STUDER, Florist, Anacostia, D. C.

When Writing Mention Florists' Exchange

**ASPARAGUS PLUMOSUS NANUS**  
(True) transplanted seedling plants, now ready, \$3.00 per 100; \$25.00 per 1000; \$5.00 at thousand rates.  
SEEDS of same, \$1.00 per 1000.  
Cash with order from nationwide correspondents.

**R. ASMUS, - NEW DURHAM, N. J.**  
When Writing Mention Florists' Exchange

**ADIANTUM CUNEATUM.**

Strong, healthy plants, from 2 1/2 inch pots, ready for shifting, \$4.00 per 100. 2.50 at 1000 rates, for cash only.

**F. L. HART, Bayside, L. I.**  
When Writing Mention Florists' Exchange

**WANTED TO SELL.**  
Lot of *Cycas Revoluta* stems, at \$9 per 100 lbs. Also 500 *Cycas Leaves*, from 2 to 3 feet long, fresh, and in perfect order. Make an offer.

For hundred rooted runners of *Russian Violets*, at 15c per 100; also a lot of *Minc. Crozy Carnations*. Make an offer.

Will either sell for cash, or take half cash and half exchange in Palm or Ferns, or CFCAS, this Office.

**TO MAKE ROOM.**

60 BOSTON DROOPING FERNS, from 5 in. pots, ready to shift, at \$3.00 per doz.

60 FILIPERA PALMS, from 8 in. pots, 2 to 3 ft. high, 2 to 3 inches across, at \$5.00 per doz.

1500 SMILAX, from 3 in. pots, at \$1.75 per 100; \$15.00 per 1000.

All above in fine, healthy condition. Cash with order.

**MRS. FLORA T. HOWELL, Pine Bush, N. Y.**  
When Writing Mention Florists' Exchange

**HEADQUARTERS**  
-OF-

**PAMPAS PLUMES**

**CALIFORNIA**  
Tree and Shrub Seeds, Smilax, Cobea, Geratilla robusta,

**PALM SEEDS, Etc.**  
Ask for Special Prices.

**GERMAIN FRUIT CO., LOS ANGELES**  
When Writing Mention Florists' Exchange

**EVERY FLORIST**  
Needs Every Year,

We Supply FRESH of our own crop,  
Mass Ensete.....\$7.50 per 1000 Seeds  
Phenax.....2.00 "  
Sourthorn California.....6.00 "  
Washingtonia Filifera.....30 "  
Swainsona Golegolia.....2.50 "  
Alba.....2.50 "

Draecena Indica, berrien.....\$2.00 per lb.  
Grevillea Rubra......60 cts. per oz.  
Free by mail. CASH with order.

Any kind of Seeds and Plants tabulated on short notes. Ask for General Catalogue and Gardening Receipts free to you.

**SOUTHERN CALIFORNIA ACCLIMATIZING ASSOCIATION, Santa Barbara, Cal.**  
When Writing Mention Florists' Exchange

ounces of carbonate of copper in three quarts of ammonia and adding 30 gallons of water. The mixture should be added to the ammonia, and the mixture diluted with water. While not quite so effective as Bordeaux, the fungicide has the advantage of not coating the plants with a white deposit.

There are evil worms that injuriously infest the roots of chrysanthemum, and these worms are the greatest enemy of the plant under the head of nematodes in rose roots.

In writing the above notes the author has drawn liberally on his previous published observations as found in the *Journal of the New York Experiment Station*, an address upon "Fungous Diseases of Ornamental Plants," *Chrysanthemum Annual for 1895*, the *Cultural Society*, and an article upon "Fungous Diseases" in *The American Chrysanthemum Annual for 1895*. The cuts are from the same sources; figures 6 and 7 by permission of the American Florist.

BYRON D. HALSETT, Experiment Station, New Brunswick, N. J.

GROWERS' PRACTICAL REMEDIES

Fortunately for me, I have been blessed with chrysanthemums that, for the most part, consequently have made no observations of the troubles you mention, beyond a few cases of mildew which I treated with sulphur. I shall read what others have to say with interest, as to be forewarned is to be forearmed.

A. HERRINGTON.

During my ten years of growing I had practically no trouble with disease in my chrysanthemums. About this season of the year the greatest trouble experienced is mildew, and I always found the best remedy was to water only in the forenoon, and when the nights were cool or muggy to start a moderate fire, with sufficient ventilation to cause a free circulation of air.

THOS. H. SPALDING.

From experience and observation we always associate rust on chrysanthemum with a high soil water in acid. This may result from over-watering, bad drainage, drip, etc. Such condition, particularly in the case of the Golden Wedding, seems to be conducive to rust. We endeavor to avoid this by very careful watering, and, practically, we have had no rust for the past two seasons, and no vestige of it this Fall, although too early to say so.

Mildew we seldom see on any but Chinese varieties, and only in the early part of the season, we dust with sulphur; later, when steam heat is used, sulphur is applied to these once a week as a preventive.

Leaf-spot and stem-blight we have had no experience with.

THEO. F. BECKETT, Penna.

In regard to the diseases of the chrysanthemum mentioned, I have had experience with mildew, and rust. The leaf spot has occurred with me usually when the plants have been grown in a cold frame the year before, and they have been practically free from it when the soil has been changed before planting.

Mildew can be as easily handled on the chrysanthemum as upon the rose by the use of sulphur, and I have used this one of the least of its troubles.

Rust upon the chrysanthemum seems to be entirely new to me, and I have never for the first time last season, principally upon the variety the Queen. It has been reported to me in chrysanthemum culture as its ally, the carnation rust, is on the carnation. I have found it on the chrysanthemum, and in the least. Some varieties seem to be proof against it, while others immediately succumb when it is infested.

A. H. FEWERS, Mass.

Perhaps one of the worst diseases of the chrysanthemum is the fungus rust, that is so prevalent in numerous localities this season. I think it is even worse to contend with than the one that made its appearance upon the variety Golden Wedding, and which it took several years to eradicate. This present form will be the most prevalent, and I have seen of a house without any apparent cause. The very best cure you can give your plants is to prevent it. I have tried all the usual (and some unusual) remedies, but have not been successful in such a case, with varying success; but I think that the Bordeaux mixture in weak solution, if used before it is seen, will check the rose of the disease. In this case, however, extreme measures are necessary; that is, to pull up the affected

plants by the roots and burn them; then bury those in proximity to where the affected plants were growing. This usually stops the trouble from spreading.

"Prevention is better than cure." I make it a point to go carefully over and examine the stock plants in the Spring, and if any of them show the least signs of rust they are taken to the thrush at once and burned. Varieties that we know to be susceptible to rust are usually kept by themselves, and in that way are easily examined and the rust noted before it has time to spread to others. The result of this system is, that this year we do not find a trace of the disease on any of our plants.

We make no exception to this rule in favor of new varieties that we buy. If any of them, on being examined, show

down on two or three plants and soak the soil just at a time when there is small chance of drying it out again. I have been in that fix and found it to be very conducive to getting a good dose of leaf spot, and then I had to hold my plants on the dry side to cure them. I don't believe that the trouble can be entirely killed, but it can be reduced from year to year by a selection of stock for propagating, which I take in the summer when the spot is there. With me not all the plants are affected by it, by any means, and there is plenty of time to select from, so that in a few years it may be entirely eradicated. I find picking of the leaves which show traces of it very beneficial, but I believe, that to prevent it is far better than to combat it after you have got it.

THOS. BOCK.

diseases to which the chrysanthemum is heir. We smoke with tobacco stems regularly once a week, and I have been able to show color, when we use the Rose Leaf Extract of Tobacco.

It is a pity that you may say that those few remarks are not to the point— that you of your letter demand that the simple solution of the matter be given. I know, in a great measure, keep at bay leaf spot, stem blight, and rust.

ABRAHAM MACRAE.

It is an accepted saying that life and death just reach each other—the preacher uses stronger language. The vegetable pageant grows and flourishes in the soil, in the plant life, aside from exercising the mind and pocket of the commercial grower. The conditions of soil, light, and air are so graduated that another steps to the front, and your work must be on the alert to meet the newcomer—more than half way.

There are many new phases of disease affecting chrysanthemums, as well as new pests, not down in the usual category, either of which may be more or less due to environment.

However, the limit of this brief article has more qualified to leaf spot, stem blight, mildew, and rust.

I consider that leaf spot and stem blight are both from the same cause, in relation, primarily, arising or resultant from insufficient drainage and unfavorable conditions of soil, light, and air, or over-crowded or the spraying of insecticides.

Leaf spot and stem blight are more commonly met with where plants are grown in solid beds. Insufficient air and drainage are the chief causes, and, but by no means least, over stimulation, particularly chemical fertilizers.

I think too much stress is laid upon the active principle of commercial fertilizers. There is no positive state that exists from reaction more or less, but that sterility. I only recommend chemical fertilizers, and those who use them to be intelligent and conservative to properly handle them.

On containers only on printed instructions or some one else's method—you need your own practical experience.

There is a positive state that exists from reaction more or less, but that sterility. I only recommend chemical fertilizers, and those who use them to be intelligent and conservative to properly handle them.

On containers only on printed instructions or some one else's method—you need your own practical experience. There is a positive state that exists from reaction more or less, but that sterility. I only recommend chemical fertilizers, and those who use them to be intelligent and conservative to properly handle them.

I know of a grower who largely uses chemicals—successfully as far as growing flowers is concerned—but the plants raised by the retailer, from its too perishable nature. Here is another phase of the subject of feeding plants. His work looks like this:

When we can have our different soils analyzed we shall be prepared to supply plant food more intelligently to special products. It certainly cannot be done on paper, formula are like that—so—of value as reduced to practice. Pay more attention to careful preparation of soil, and there will be much less need of artificial stimulants.

Mildew affects plants standing in draughts, and in the variety. Those that are subject to mildew ought to have more room treatment, and the light dusting of sulphur whenever it appears.

Mildew is the least of my troubles, as I have never had it on my plants. Dust or scald is a more serious problem. I cannot cope with it when once a plant is infested, and I have never seen this disease I always feel uncertain about.

I have observed that rust is less frequent on plants that are kept in a hot spell late in August doses one here and there with no other apparent reason than the plants are like that—so—of value as reduced to practice. Pay more attention to careful preparation of soil, and there will be much less need of artificial stimulants.

Various shades of rust are ordinarily characterized by thin or glazy foliage. On the whole, the season has been very favorable to the rust, and the things being equal, I confidently expect a fine showing as well as an increased amount of rust.

"In rain," the queen of grace and beauty, the same chrysanthemum is king of glories, and a monarch of the world. It survives in its season. GROVE P. RAWSON.



Fig. 6. The Cylindrosporium Chrysanthemum Blight.

any trace of rust, they are either returned to the firm of origin, or bought there, or else they are burned.

ALEX. MONTGOMERY, Mass.

In my experience in growing chrysanthemums, I have been troubled with mildew as well as leaf spot. Mildew can be prevented by being careful of strong draughts and seeing that the plants are not heavily watered over the foliage in dark weather. It is imperative that the doors be closed when the ventilators are open, so as to prevent cross draughts. The air on one side of a house, according to my experience, will never produce mildew, provided plants be not watered too late at night in cool or cold weather. At such times the houses must be dry before night, and in cold, chilly weather be careful not to allow cross air in any form. If these details are seen to and certain you will not need sulphur to kill mildew.

As to the rust on leaf spot is something I cannot claim, but I have it reduced this year to two out of 75 varieties. Modesto and George S. Conover had more of it, less in the early season, but at present they are clean. I find that excessive watering will produce leaf spot, very especially in varieties which are susceptible to it. I am very careful not to have any broken glass in the roof that in case of heavy rain will run the water of a row of glass will not run

It has been my good fortune to have my chrysanthemum (and I grow several thousand annually) free from all diseases to which this popular plant is subject, with the single exception of that grand variety Golden Wedding and also Challenge, have had no trouble whatever with any of the recent comers.

You will naturally say, "How can he keep his plants so clean?" Well, Mr. Editor, will tell you. First, I start out with a clean, light and airy house, which I keep clean all through the season. Second, I try to have my young plants, not hard scrubby stuff, such as you often see, but plants that are stocky and soft. As I grow several thousand from a limited number of stock plants, it is evident that propagating the same has to be begun early, say not later than April 1, and to keep those plants just right, when the 20 or 30-inch pots are full of roots, I turn them out of pots and set temporarily in a cold frame, especially required for the purpose, where they will get plenty of light, room, and fresh air. They are left there until they are ready to their permanent quarters about the 1st to 15th of June.

The soil in which they are grown is identical with my rose soil—good firm loam from pasture, with about one-fourth cow manure, and a liberal dash of bone-meal, and I turn them over good. Watering and airing at the right time, and to be one of the best preventives of

NEW SINGLE VIOLET PRINCESS OF WALES

The best single violet in cultivation, strongfield clump, \$5.00 per 100.

CANNAS Chas. Henderson and Paul Marquant..... \$1.00 per 100
Flamingo, dormant roots..... 8.00 per 100

CARNATIONS Perla and Lizzie McGowan, strong field plants.
\$5.00 per 100.

ROBT. SCOTT & SON, 19th and Catharine Streets, Philadelphia, Pa.
When Writing Mention Florists' Exchange

FIRST-CLASS FORCING ROSES

Fully equal to those sent out the last four years; first-class in every respect. Only selected growth from flowering shoots used in propagating.
250 METEOR, 700 PERLE, 750 KAISERIN, 750 SEBASTY, 750 KAISERIN, 700 LA FRANCE, 400 SAFRANO, 300 GONTIER, 3 inch pots, \$5.00 per 100.

J. L. DILLON, Bloomsburg, Pa.

Bride and Bridesmaid Roses

2 1/2 inch..... \$2.50 per 100; \$3.00 per 200
3 inch..... 4.00 per 100; 5.00 per 200
GILMEX PLANTS..... \$1.50 per 100
Cash on order..... \$1.00 per 100

THE NATIONAL PLANT CO., Dayton, Ohio.

ROSES

4 IN. POTS. BENCH GROWN.
Brides, Bridesmaid, Perle, Meteor, Papa Gault, Woodstock, \$5.00 per 100.
Pren. Carot., \$10.00 per 100.

R. H. MURPHEY, Urbana, Ohio.
When Writing Mention Florists' Exchange

Roses and Asparagus Plumosas

300 Mermets, in 3 inch pots..... \$3.00 per 100
500 Brides, in 3 inch pots..... 4.00
400 Bridesmaid, in 3 inch pots..... 3.00
100 M. Leves in 4 inch pots..... 4.00
600 Nephrolepis Exaltata, 3 inch..... 4.00
500 Nephrolepis, Dahlia, 3 inch..... 4.00
500 Asparagus Plumosa, 3 inch..... 5.00

CASH WITH ORDER.
LEWIS ULLRICH, Tiffin, Ohio.
When Writing Mention Florists' Exchange

THE NEW PURE YELLOW DAHLIA,

Clifford W. Branton

And all the leading new and old Dahlias are now in full bloom on our Dahlia farm at Atco, N. J. All interested are cordially invited to visit us and inspect them; also visit the American Institute Show, Madison Square Garden, New York.

W. P. PEACOCK, Atco, N. J.
When Writing Mention Florists' Exchange

ROSES

Bridesmaid, Bride, Perle, B. O. Milone, W. V. White, La France, Sunset, Hermine, Price, from 2 inch pot, \$2.00 per 100; 5.00 per 200.

VIOLETS.

Marie Louise, Lady Campbell, strong healthy stock, from 3 1/2 inch pot, \$3.00 per 100; \$2.00 per 100.

CHRYSANTHEMUMS.

For Varieties and Prices, see April 24th issue.

CARNATIONS.

Strong, Healthy, Field Plants.
Albertain, Bridesmaid, Bitterroot, Ivory, Eldorado, Whiteville, Meteor, Storm King, Alaska, Thos. Partridge, Mrs. F. W. McGowan, J. L. McGowan, Wm. Scott, Fortuna.

Also several other varieties, new and old. Send for list.

New Trade List on Application.
WOOD BROS., Fishkill, N. Y.
When Writing Mention Florists' Exchange

VIOLETS.

Marie Louise, Czar and Swanville White, healthy, field-grown plants - 400 per 100; \$4.00 per 100; \$3.00 per 100.
Marie Louise, Czar and Swanville White, E. McNally, Anchorage, Jefferson Co., Ky.
When Writing Mention Florists' Exchange

GOOD SMILAX PLANTS.

2 1/2 and 3 inch pots.
FINE STOCK OF VIOLETS.
Prices of Wales, Lexington, California, Admiral A. Scott, Chocoma, Lady H. Campbell, Swanville White, Hardy Eugene, all good stock.
P. M. DE WITT, Torrance, California, Pa.
When Writing Mention Florists' Exchange

VIOLETS FOR BENCHING NOW.

M. Louise, Campbell and Swanville, fine strong 2 1/2 inch. Price, \$5.00 per 100; also 100 strong field clumps of California and Campbell for Field Planting; ask for prices.
SMILAX, 2 1/2 inch, net. \$2.50 per 100.
BENI CONNELL, FLORIST, West Grove, Pa.
When Writing Mention Florists' Exchange

10,000 M. LOUISE VIOLETS.

Large, healthy, field-grown clumps. \$4.00 per 100. Price, \$5.00 per 100; also 100 strong field clumps of California and Campbell for Field Planting; ask for prices.
10,000 CARNATIONS. Fine bushy plants of Scott, E. Pierson, Dahl Way, McGowan, Alaska, Meteor, Silver Spray, \$5.00 per 100.
GEO. H. BENEDICT, Yorkville, N. Y.
When Writing Mention Florists' Exchange

30,000 VIOLETS

Luxurans..... \$1.50 per 100; \$4.00 per 100
California..... 3.00 " "
Fancy Brides..... 4.00 " "
Marie Louise..... 4.00 " "
Lady Campbell..... 2.00 " "
Swanville White..... 3.00 " "
500 ONE THOUSAND AND
Large field-grown clumps, strong and healthy.
J. C. SCHMIDT & CO., Bristol, Pa.
When Writing Mention Florists' Exchange

FIELD-GROWN VIOLET CLUMPS

500 Fine California, \$5.00 per 100.
100 M. Louise, \$5.00 per 100.
75 ASPARGUS PLUMOSA NAUUS, 2 1/2 inch pots, 7c.
200 FINE SMILAX BULBS, at \$2.00 per 100.
PANSY SEED, (Home) \$1.00 per 100 for prices.
When Writing Mention Florists' Exchange

B. F. BAUSMAN, Millersville, Pa.
When Writing Mention Florists' Exchange

Marie Louise Violets

500 strong healthy plants, no diseases.
No. 1, \$4.00 per 100; \$5.00 per 100.
No. 2, \$3.00 per 100; \$2.50 per 100.
500 at 1000 net. Cash with order.
J. C. GREMS, Oneida, N. Y.
Successor to J. S. Hay.
When Writing Mention Florists' Exchange

A FEW THOUSAND VIOLETS

Let list. Different sizes. Must sell. Need room. Also a few hundred.

CARNATIONS

Left. Name quantity. Send for prices; they will surprise you.
JOS. R. FREEMAN, 618 18th WASHN., D. C.
When Writing Mention Florists' Exchange

VIOLETS!

\$3.00 PER 100
\$30.00 PER 1000
MARIE LOUISE, field-grown, large and not a 1 1/2 inch section. Second size, \$2.50 per 100; \$1.80 per 1000.

SMILAX.

2 1/2 inch, fine, one out back, \$1.25 per 100; \$10.00 per 1000. Samples by mail, 10c. Cash or good references with other plans.
Write for special price for large lots.
R. KILBOURN, - Clinton, N. Y.
When Writing Mention Florists' Exchange

OLD COUNTRY NURSERIES

SURPLUS STOCK.

Per 100
Asclepias tuberosa..... \$2.00
Hesperaloe Day, fully flowered, 2 1/2 inch Iris, German, 10 north..... 4.00
Japan, 10 north..... 4.00
Lily, 10 north..... 4.00
Lily of Valley, 10 north, 8 square foot for forcing..... 5.00
Peonies, mixed, per 1000, \$40..... 5.00
Potted..... 2.00
Plyatedo..... 5.00
Sabbat..... 5.00
Vase, Filamentos, strong..... 5.00
Anemone, Quinquifolia, strong..... 5.00
Elegans, 10 north..... 5.00
T. R. WATSON, Plymouth, Mass.
When Writing Mention Florists' Exchange

GOOD STOCK

Per 100
Adiantum Cuneatum..... 4. in. pots, \$10.00
Chrysanthemum, Frutescens, 3 1/2 inch, \$1.00
Cyclamen calceolatum..... 1.00
to color..... 5.00
mixed..... 5.00
mixed..... 5.00
mixed..... 5.00
Perle..... 5.00
Nephrolepis Exaltata, 12 in. high..... 2.00
Nephrolepis Exaltata, 12 in. high..... 2.00
Nephrolepis Exaltata, 12 in. high..... 2.00
Nephrolepis Exaltata, 12 in. high..... 2.00
5 in. pots, 18-24 in. high..... 4.50
5 " " 18-24 in. high..... 4.50
5 " " 18-24 in. high..... 4.50
Smilax..... 2 1/2 in. pots, \$5.00
Cash with order from unknown customers. C. O. D.
Orders amounting to \$5 and over, F. O. B., N.Y. City.

SEAWANAKA GREENHOUSES,

OYSTER BAR, QUEENS CO., N. Y.
JAS. C. CLARK, Supt. F. O. Box 34, Wm. S. Wain, Prop.
When Writing Mention Florists' Exchange

FINE STOCK

Per 100
5000 M. Louise Violets..... \$4.00
5000 M. Louise Violets, second size from crown..... 4.00
3000 Carnations..... 4.00
2000 Blue Czar Dahlias..... 4.00
Winter Blooming..... 4.00
1000 White Violets..... 4.00
1000 Rex Begonias, 3 in. pots..... 4.00
1000 Chrysanthemum..... 4.00
1000 White Stock, 2 1/2 inch..... 4.00
1000 Mignonette (Alpen's Deliance), 2 1/2 in. pots..... 2.50

ROOTED CUTTINGS.

Begonia Rex, Mrs. Pollock Silver Leaf Ferns, see last issue Florists' Exchange.

COLEUS.

Per 100, \$5.00.
Terms Cash or C. O. D.

GREENE & UNDERHILL, Watertown, N. Y.

NOW READY

BOUVDARIAS,
2 1/2 in. \$2.25 per 100; 3 in. \$4.00 per 100
2 1/2 in. \$2.25 per 100; 3 in. \$4.00 per 100
Humboldt, The Bride,
Kosita Multiflora.

FUCHSIAS.

In top-to-do varieties. Single and double.
2 1/2 in. plants, \$2.50 per 100; 3 in. plants, \$4.50 per 100, ready for a shift.
Fine stock of
FIELD-GROWN ROSES
in assortment and great quantity. Prices on application.
Nels, strong 2 1/2 in. plants, \$2.00 per 100.

SURPLUS CARNATIONS,

Field-grown.
Prest. Gardiner, Fortuna, Tidal Wave, Mrs. Fisher, Mrs. Queen, Albertine, J. McGowan, Mrs. E. Reynolds, Swanville, Prest. Degraw, Sweetbriar, American Flag, Nellie Lewis, \$4.00 per 100.
Address NANZ & NEUNER, Louisville, Ky.
When Writing Mention Florists' Exchange

It is remarkable, however, that well-grown plants have less disease, suffer less when any is present, and have vitality enough to produce good flowers in spite of the culture and cultivation intensive further, in that it requires a careful picking of the leaves when grown through, thus reducing the liability to infection.

Stem rot I do not know, unless it be the rotting of one side of a plant, due to wilt and finally die away. There is another disease which attacks one side of the stem, the leaf on the side of the stem call light. Brown spot I know, and very bad it is. I was rather new; it was killing in 1870, being in the plants which came from a prominent dealer, and it showed most upon the leaves of the plants which were so imported with them. But, as my practice, with novelties is to take the tips of the young plants, and throw away the old plants, as they are usually too hard to do any thing with, I escaped it. Telling an acquaintance of my intention to throw these plants away, he thought he could clean them up with a mixture of lime and sulphur, and so I gave them to him. On revisiting his place last Autumn I found the mist in full bloom, and the plants as badly off as the first season. From the same dealer I found the stock of plants in full bloom this year. I have been fortunate, however, to escape it.

Growers will have noticed how some varieties are more liable to some form of leaf disease than others, and this will follow in the case of a new variety. In this matter what precautions are taken to prevent it. It was always a hard matter to keep the houses on Emma Fitzroy, and old Jardin des Plantes usually lost many leaves. I raised a variety which was very healthy, and I carried it to Boston. It was a magnificent show variety, but I finally discarded it on account of the wilting previously referred to. Every year some plants were affected. It was always difficult to keep houses on Mrs. Humphreys and White Cap.

Some are more liable to mildew than others. I can remember the Grand was the best in this respect. Golden Wedding, a more recent variety, will be remembered as taking mildew heavily. Often think of individuals among the human race in this particular, as the consumption and kindred diseases in them had their counterparts among plants, and was to a great extent inherited.

Sulphur is the base of all the fungicides I am acquainted with, and it is as good a thing to use as any. It is used with soap or hot water which should be taken off before the flowers expand, as the fungus spores are not so active in the shades and pinks. I remember some years ago, for mildew, I had sulphur put on the water pipes, which were under pressure, and being a wet day, I thought I would run up the temperature, and note the results. The temperature went up quicker than I expected, and as a result I found the house filled with a white mist. The temperature I heard of the result, but all came out well. Fostite I consider excellent, whatever its composition, but besides sulphur, I do not know of any other.

Thrips has been troublesome this season, and as some fungoid diseases are always present, I prefer to make a compound which will be an insecticide and fungicide as well. An ounce of sulphide of potassium to a gallon of hot water works well, and I have used sulphur and soot in the same way. HATFIELD, Mass.

and *L. candidum*. In Bermuda it occurs in the fields, attacking the plants when partly grown. Frequently the lower part of the plant remains healthy, while the upper portions become diseased. The trouble is also, without doubt, prevalent in the Netherlands, France, and Japan, for the writer has seen plants from bulbs grown in these countries as badly diseased as those from bulbs grown in Bermuda. In this country it appears wherever the bulbs are forced and from a commercial standpoint destroys from 25 to 60 per cent. of the entire crop. This estimate does not include the bulbs that fail to grow or that make stunted worthless plants. The loss from this source is seldom less than 5 per cent., and often exceeds 20 and even 30 per cent.

The work described in the Bulletin mentioned shows that the disease is due to a combination of causes. In the first place the bulbs have become weakened through improper selection and propagation, and this weakening is further increased by the attacks of mites and certain fungi and bacteria. Bulbs which have been weakened in this way might regain their strength if the mites and fungi could be kept down, but these which are naturally weak cannot be made strong. Fig. 2 shows a bulb attacked by mites and fungi. The new is honeycombed by mites and many of the scales are injured by them. A rough sketch of two mites magnified fifteen times appears near the middle of the plate. During the time the plants are being forced they may also be weakened by overwatering, or possibly some aspersion of the roots, or by allowing the roots to become too dry and then overwatering. The foliage of such plants may be free from spots and

the young leaves of plants having soft foliage. The injuries from these causes and from the attacks of insects and fungi are always more severe on the susceptible or naturally weakened bulbs.

The disease cannot be cured or even prevented by adopting any single course of treatment. The fact that the bulbs have become more or less weakened by improper cultivation, selection, and propagation shows the importance of adopting rigid measures to improve the stock. Only the strong and vigorous plants should be used for propagation. Crop rotation should be practiced in order to prevent the increase of mites and the injurious fungi. Leave the stems on the bulbs until ripe, and in all cases avoid premature digging. The forcing which forces the bulbs should exercise care in planting. Throw out all badly spotted bulbs, especially those having decayed bases, and plant in well-drained and well-aerated soil. Endeavor to keep down aphides and mites from the start, and exercise care in watering and ventilating. Avoid feeding with solutions of horse-cow and sheep manures, and use chemical fertilizers instead.

A bulletin describing the disease in full may be obtained by applying to the Department of Agriculture, A. F. Woods.

#### GROWERS' OPINIONS.

In regard to the Bermuda Lily disease, a few years ago when we had to contend with it, we picked out all the diseased plants and put them by themselves, treating them to every known remedy, but they never came to anything; so now, when we see any diseased among our plants, we take them out and throw

them out to develop the flowers is thrown all at once back into the bulb. This causes the bulb to grow out of proportion, which again induces the opening of the scales, thus allowing water, dirt, etc., to settle inside of the bulb, and causing the scales at the base to rot. A.

Fig. 1.—Plants Showing Effects of Lily Disease.

healthy bulb is always close on top. I can pick out every bulb in a lot which is going to get sick by simply opening the scales and looking at the base of a good solid bulb is never diseased.

The only preventive against this disease is lime water, used heavily once a week. But it must not be used before the plants are well rooted and grown to about six to ten inches in height. I found that on some plants where the leaves were showing a little disease, it entirely disappeared on further growth, through applying this remedy. A. SCRIBNER.

During my long experience in the business of floriculture, I have met with about all the likely plant diseases known to man, but I have given those little scientific study, and to give my knowledge any credit, way I feel, would be exposing myself to ridicule by my more learned brethren of the craft; but will say of the insect life, my only insecticide is tobacco in its various forms. I will not allow any of the various oils and soaps to be used on any establishment, although highly recommended as insecticides. I have found most of them more injurious to plants than to the insects; if they do not spot the foliage of the plants, they very often poison the soil.

W. K. HARRIS.

#### A Lily Bulb Disease.

During the past year a destructive wave of fungoid disease almost completely ruined the crop raised in Japan for exportation to Europe. The bulbs received for investigation showed every stage of the disease. In the worst condition, the base of the bulb is alone diseased and somewhat soft; this dissemination and softening of the tissue gradually spread from the base, until finally in the most advanced stage every part of the bulb is of a brownish color, and sufficiently soft to admit of being readily crushed into a pulpy mass between the fingers. Microscopic examination revealed the presence of slender, continuous, hyaline, branched hyphae traversing the tissues in every direction; the cell-walls are never pierced, but gradually dissolved, and it is only at the point of the disease that the starch granules become irregularly corroded and gradually dissolved. So long as the epidermis of the bulb-scales remain intact there is no trace of mycelium or fructification on the surface, but when the diseased bulb is dried to a soft pulp, or when a diseased bulb is cut open, the broken surface is within twenty-four hours covered with a dense, snow-white mycelium, which within three days becomes studded with numerous, upright, branched, and branched, the naked eye, miniature pins with round black heads. The occurrence of this particular disease in the culture and inoculations proved this similar to be correct. The fungus grows readily as a saprophyte on this statement are these. Through the characteristic superficial white



Fig. 2. Lily Disease—Bulb attacked by Mites and Fungi.

Two Mites, magnified fifteen times, are shown in center of plate.

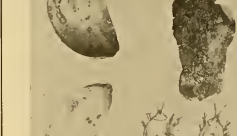


Fig. 3. Lily Disease—Bulb attacked by Mites and Fungi.

Two Mites, magnified fifteen times, are shown in center of plate.

disturbances, but usually the leaves are badly diseased, and finally succumb to them. The principal thing to look out for is to get healthy bulbs and you will be all right. This is my method. HENRY C. STRAIN.

The spotting and distortion of the flowers and foliage is often due to the direct attacks of several genera and species of aphides and of the young of the bulb mite, to the injection of water into the young leaves in watering or syringing, and to the presence of water between

them on the dirt plate, if it is only a waste of time to take care of them. The principal thing to look out for is to get healthy bulbs and you will be all right. This is my method. HENRY C. STRAIN.

The only cause of the lily disease that I can see is over-fertilization and too early cutting of the flowers. My reason for this statement are these: Through too early cutting, the sap distilled by

#### The Bermuda Lily Disease.

Extract from Bull. Ill. Vet. Phys. and Patholog., U. S. Department of Agriculture.

CHARACTERISTICS OF THE LILY DISEASE.—The lily disease is characterized by the spotting and distortion of the leaves and usually of the flowers, spotting of the base of the bulbs, generally a stunting of the plants. In severe cases the first leaves as they appear above ground are more or less distorted, and are marked with small, yellowish white, often longitudinal, and more or less irregular spots or streaks. The leaves cease slightly in size, continue to grow paler, and finally collapse, dry out, and turn light brown. In less serious cases the leaves become similarly affected, and finally the flowers show the shrivelled and distorted condition. The most badly diseased plants are shown in fig. 1.

PREVALENCE OF THE DISEASE AND ITS DISTRIBUTION IN THIS COUNTRY.—The disease is about equally severe on *Lilium longiflorum* and *Lilium Harrisii*, and has also been observed on *L. auratum*

GREAT

**HORTICULTURAL EXPOSITION**

Flowers, Fruits, Vegetables.

**AMERICAN INSTITUTE FAIR  
NOW IN PROGRESS**

Madison Square Garden, New York.

**Will Continue to Oct. 23d.**\$5000 in Cash Prizes, also Medals,  
Cups, Diplomas and Certificates.

For particulars apply to

**DR. F. M. HEXAMER,**Madison Square Garden, New York  
When Writing Mention Florists' Exchange**St. Louis  
Cut Flower Co.**  
WHOLESALE  
FLORISTS,  
1620 Olive St.  
ST. LOUIS, MO.

When Writing Mention Florists' Exchange

**Announcement.****J. M. KING,**

Wholesale Commission Florist,

**49 W. 29th ST., NEW YORK CITY,**Wishes to inform growers and others,  
that he will, in two weeks from now, en-  
large his premises to three times the  
present capacity. He will then be able  
to handle a much larger quantity of stock  
than now, and takes this opportunity to  
solicit consignments.**Telephone 1675-38.**

When Writing Mention Florists' Exchange

**A. L. RANDALL,**

WHOLESALE FLORIST.

Don't Forget! We are the people to order from and never be  
disappointed on quality of goods.

OUR SPECIALTIES:

**Beauties, Roses and Carnations****126 DEARBORN ST., CHICAGO, ILL.**

When Writing Mention Florists' Exchange

**KENNICOTT BROS. CO.****Wholesale Cut Flowers  
and Florists' Supplies ::****88 WABASH AVENUE, - - - CHICAGO, ILL.****FOR THE COMING SEASON**We are making special preparations that will place us in a position to handle con-  
signments and shipping orders to better advantage than ever before.Growers who wish to consign to the Chicago market should correspond with us  
before sending elsewhere.Those wishing to receive our regular quotations will please send their name and  
address so we may place them on our mailing list.**BEST STOCK, WELL PACKED, PROMPTLY SHIPPED,**By the oldest and most reliable firm in Chicago. All flowers in season at lowest  
market price. Our store is open till 6.30 P.M. and on Sundays and Holidays till noon.**FULL LINE OF FLORISTS' SUPPLIES AND WIRE WORK A SPECIALTY.**

For present prices see our other advertisement in this same issue.

**KENNICOTT BROS. CO. - - 88 WABASH AVENUE CHICAGO.**

When Writing Mention Florists' Exchange

**ESTABLISHED 1891. G. E. BRADSHAW, ESTABLISHED 1891.**

125 West 30th Street, between 6th and 7th Avenues.

**Wholesale and Commission Florist,****FANCY CARNATIONS, VIOLETS  
AND SMILAX SPECIALTIES . .**Consignments of all kinds of Cut Flowers respectfully solicited. Highest  
market prices guaranteed.

When Writing Mention Florists' Exchange

**WM. J. BAKER,  
WHOLESALE FLORIST****Original Headquarters for CARNATIONS,****A GOOD  
ASSORTMENT OF****ROSES, VIOLETS, VALLEY AND SMILAX****ALWAYS  
ON HAND.**

Chrysanthemums from some of the Leading Growers on Hand During the Season.

**A TRIAL ORDER WILL CONVINCE YOU. SPECIAL ATTENTION GIVEN TO SHIPPING ORDERS.****1432 South Penn Square, 'PHONE 4243 A. PHILADELPHIA, PA.**

When Writing Mention Florists' Exchange

floose mycelium, which within a week bears an abundance of fruit, on such varied culture media as prune juice, sterilized, decoction of bulb scales, etc. When spores were sown in a hanging-drop along with a very thin section of leaf, it was observed that the germ-tubes could not enter the tissue through the epidermis, and that the fungus formed those points where the cells were not protected by the epidermis.

Numerous experiments were made with other kinds of bulbs, and it was found that fungus refused to grow on onions, however much mutilated. On the other hand, daffodil bulbs are very susceptible to the disease, if the roots are broken, or a wound made in the bulb, and afterwards powdered with the spores, the disease showed itself within a few days, and was in due course followed by the characteristic fruit of the fungus. It was invariably found that, in cover much bulbs were mutilated and then inoculated with fungus spores, submergence for a few minutes in a 1 per cent. solution of salicylic acid or corrosive sublimate prevented the disease; in other words, all fungus spores coming in contact with the above-named solutions are destroyed, whereas the vitality of the bulbs thus treated is not at all affected. Dr. Halsted has described a somewhat similar disease, called "soft rot," as attacking the sweet potato in the United States. The fungus causing this disease (*Rhizopus nigricans*, Ehrh.) is similar to that which attacks under notice, causing the fly bulb disease.

In addition to the kind of fungus fruit already described, a second form, of sexual origin, called a zygospore, is present in the genus *Rhizopus*, several very large spalled zygospores were found in the matted mycelium present on bulbs in the glass jars, and, as preliminary tests belong to our fungus. Zygospores differ from the minute spores already described in containing a somewhat longer and longer period of rest before they germinate, by this means hiding the fungus over that time, and germinating when favorable conditions, climatic and otherwise, obtain. The minute spores, on the other hand, germinate immediately, and zygospores remain in the soil, or attached to the substance on which they were produced, for a minute period, and then described possess the capacity of germination the moment they are mature, and enable the plant to extend its area of distribution; and as these spores are produced very quickly and in immense numbers, it can readily be understood how rapidly the disease spreads when once introduced into a given locality. The fungus causing the fly bulb disease, although allied to *Rhizopus nigricans*, is quite distinct from this and every other known species.

SUMMARY.

The fly bulb disease is caused by a parasitic fungus called *Rhizopus necans*. The fungus cannot penetrate the unbroken tissues of the bulb, but gains an entrance through wounds, more especially broken roots. The amount of evidence forthcoming indicates that the bulbs are not diseased until after they are removed from the ground. The spores of *Rhizopus necans* are killed by a short immersion in a 1 per cent. solution of corrosive sublimate or of salicylic acid. Neither of these substances has any injurious effect on living bulbs, provided they do not remain in the liquid for more than fifteen minutes.

PREVENTIVE MEASURES.

The fungus is by no means confined to fly bulbs for its food, but, as experiments have proved, can live on a great variety of decaying vegetable substances; it may also occur as a parasite on other plants than lilies in Japan, as it readily attacks and destroys daffodil bulbs. Judging from the enormous amount of injury caused, it would appear that the fields where the lilies are grown must be saturated with the fungus, growing indiscriminately on various substances, and that it will continue along with other things, as a matter of course. If practicable, entirely new locations should be chosen for the new work. Even if this were done, great care would have to be exercised, so as not to import the fungus.

The spores are readily conveyed from one locality to another in the soil from the most common disease is one known as spot, which undoubtedly is the fungus. It is very small at first, but if the leaves remain wet for any length of time, it grows and multiplies very fast. So the remedy seems to be to keep the plants dry, as in a dry state the pest

will not develop. Carefully pick off all parts affected, and what watering there is to do should be done early in the day, so that the plants are dry by night. I have used air-slacked lime and Bordeaux mixture on the foliage, but the whole thing seems to hinge on their being kept as dry as possible, until you have mastered the trouble.



Violet Leaves injured by Larvæ of Gall Fly.

work, and cannot be in any way considered as a cause of the disease. Has SEE, in New Bulletin.

Violet Diseases.

There are a number of diseases affecting the violet, but some varieties are of such a robust constitution that they seem able to throw off disease; others not so strong are more easily affected, and where violets are grown year after

year, it is caused by pulling large runners instead of cutting them.

Another which we used to call heart rot is caused by the gall fly depositing its eggs in the young foliage, causing them to curl up and bend over and finally to rot. I have seen hundreds of plants with the hearts entirely destroyed. I think a few applications of hydrocyanic gas will stop the trouble. I know it will kill the mature fly, which is the cause of it.

The so-called violet spew I never have to complain of. I have bought plants at several places, which is the price of success. Get as good stock as you can procure, put the plants in proper temperature, which is about 35 degrees at night for M. Louise and 40 degrees for L. H. Campbell will do well at 40 degrees and over. Use common sense, give what nature gives to violets and you will meet with a reasonable amount of success. BENJAMIN CONNELL, PA.

The so-called violet spew I never have to complain of. I have bought plants at several places, which is the price of success. Get as good stock as you can procure, put the plants in proper temperature, which is about 35 degrees at night for M. Louise and 40 degrees for L. H. Campbell will do well at 40 degrees and over. Use common sense, give what nature gives to violets and you will meet with a reasonable amount of success. BENJAMIN CONNELL, PA.

The leaf rot I never had. In my opinion, it is brought on by keeping the plants too wet at the roots.

The so-called leaf wilt I never have met, but it is brought about through too much moisture in the air house.

It is my candid opinion that most of the causes of these troubles lie with the grower, and not with the plants. I have grown violets for over 25 years, 10 of them on Long Island; have never been troubled with any of the so-called violet diseases. But if I would close my houses tight when the glass stands at 60 degrees outdoors and at 50 degrees indoors, I would have lots of disease. The only and best remedy is the grower's own, and that is, to give close attention to airing, watering, and light.

GEO. T. SCHUMMERN.

Violet Spot.

From a Photograph by P.H. Dorsett, Div. of Veg. Pathology, Washington, D. C.

Still another disease of which I do not know the name, but I will describe it in this way: The edges of the leaf become wilty; you can hardly discern it at first until it begins to dry and whiten, until almost the whole leaf is involved. Now the cause is a difficult one to get at. It can be produced by using strong fertilizers which injure the root hairs, thereby

putting them in a condition so that they cannot absorb water, although there may be an abundance in the soil. Again, it can be brought on by nematodes or eel worms, as also by unfavorable conditions in the soil, and in the house. If the soil cools down as low as 20 or 30 degrees and continues in this condition for six or seven days during cold and cloudy weather, the roots of the plants are put in a condition that they cannot rapidly take up water. Then the weather sets warmer with bright sunshine, a rapid loss of moisture from the leaves results, and the roots in the cold ground cannot absorb moisture enough to meet the demand made by the foliage, the result being that the little cells in the leaf walls and the ones become fatty and wilted. As I said before, this trouble is not noticed until the leaf begins to turn white.

This brings up the whole question of the relation of the physical properties of the soil to the growth of the plant; that is, air, heat, and water, to crop production. WM. G. SALTWOOD.

WHAT OTHER GROWERS SAY.

To sum up in a general way I would say nothing counts so well with me as eternal vigilance, which is the price of success. Get as good stock as you can procure, put the plants in proper temperature, which is about 35 degrees at night for M. Louise and 40 degrees for L. H. Campbell will do well at 40 degrees and over. Use common sense, give what nature gives to violets and you will meet with a reasonable amount of success. BENJAMIN CONNELL, PA.

The so-called violet spew I never have to complain of. I have bought plants at several places, which is the price of success. Get as good stock as you can procure, put the plants in proper temperature, which is about 35 degrees at night for M. Louise and 40 degrees for L. H. Campbell will do well at 40 degrees and over. Use common sense, give what nature gives to violets and you will meet with a reasonable amount of success. BENJAMIN CONNELL, PA.

The leaf rot I never had. In my opinion, it is brought on by keeping the plants too wet at the roots.

The so-called leaf wilt I never have met, but it is brought about through too much moisture in the air house.

It is my candid opinion that most of the causes of these troubles lie with the grower, and not with the plants. I have grown violets for over 25 years, 10 of them on Long Island; have never been troubled with any of the so-called violet diseases. But if I would close my houses tight when the glass stands at 60 degrees outdoors and at 50 degrees indoors, I would have lots of disease. The only and best remedy is the grower's own, and that is, to give close attention to airing, watering, and light.

I am sorry that I can give no information which will be of much benefit to those looking for a cure for the violet leaf wilt. I firmly believe that the former can be prevented, to a very great extent, by keeping the foliage dry at night, and I have followed the practice of keeping the such over the plants at night as soon as the dew begins to show itself, and by watering early enough in the day to allow the foliage to dry well before sundown.

As an evidence strengthening this belief have recently had experience. I had a quantity of surplus plants in a shaded but well-ventilated greenhouse, which we removed to an open frame. I found they were spotted in a few days, and they took on lot uncovered, and that others which were covered with boards at night, kept clean.

Those planted in frames for our own use are invariably covered with such. The latter resting here each end on a single scattering board on rafters which provide thorough ventilation, and over which I scatter a little green grass or weeds to supply necessary shade during hot weather, and which gradually dries and by degrees brings the plants to brighter sunshine and stronger light. This is the only cure for the disease, removed by sliding it off in dull weather with the back of a dry rake; and, in my opinion, it is better to use any other substance smeared on the glass.

I have never had much trouble with the dew being to show itself, and by watering is better than cure, and I think, as usual. J. R. FREEMAN, Washington.

BEGONIAS!

Therapsola, extra 20, 35 each. Dos. 100
A. Gaietara, extra 20, 35 each. Dos. 100
Dor, extra 20, 35 each. Dos. 100
Perez, (various), extra 20, 35 each. Dos. 100
Red, extra 20, 35 each. Dos. 100
White, extra 20, 35 each. Dos. 100
All, extra 20, 35 each. Dos. 100
A. J. BALDWIN, Newark, Ohio.

When Writing Mention Florists' Exchange

SMILAX, field-grown, \$2 50 per 100

VIOLETS, Marie Louise, 4 00 "

HYDRANGEA OTAKSA, 3 00 "

ENGLISH HAYLEAVES, 2 00 per 1000

Cash with order.

J. H. DANN & SON, Westfield, N. Y.

When Writing Mention Florists' Exchange

Routed Cuttings of the New Geranium Mme. BRAUNT Ready Now.

I am able to furnish this wonderful and distinct variety...

1000 VARIATED YINGAS strong field-grown plants, \$5 per 1000.

FRED SCHNEIDER, 761 Crawford Rd., Cleveland, O.

When Writing Mention Florists' Exchange

LETTUCE PLANTS.

Fine transplanted, from Grand Rapids Lettuce Plants, 50c per 100; \$2.00 per 1000.

A. J. BALDWIN, Newark, O.

When Writing Mention Florists' Exchange

Only 15,000 Peach Trees

But fine, straight stock and the best varieties.

C. C. ENSIGN, Canadon, Ohio.

When Writing Mention Florists' Exchange

LOUDON RASPBERRY.

No. 1, \$1.00 per 1000; \$12.00 per 10,000.

POMARIA, best market Currant, 1 and 2 years.

W. T. ZAS (Was: Indisappala, INDISTINGUISH, IND.)

When Writing Mention Florists' Exchange

Trees! Trees!

Norway, Sugar and Silver Maple

Send for price list. Address

WM. J. CHINNICK, Trenton, N. J.

When Writing Mention Florists' Exchange

Amelopsis Veitchii.

POT-GROWN SEEDLINGS, \$4.00 per 100.

J. KADLETZ, P. O. Box Dongan Hills, N. Y.

When Writing Mention Florists' Exchange

EMPELOSIS VEITCH.

Large size plants, from 4 and 4 1/2 in. pots, \$80 per 100; \$7.00 per 1000;

500 at 1000 rate.

S. PENNORFF, Oak St., New Rochelle, N. Y.

When Writing Mention Florists' Exchange

Smilax, strong, 1 year, none better, \$1.50 and \$2.50 per 100.

Peonies, herbaceous, choice assortment, \$8.00 per 100.

Narcissus, Poets', double and single, 75c, per 100.

Daisies, Snowbuds and Snowdrift, \$2.00 per 100.

F. P. Roses in assortment, \$3.00 per 100.

Downing Geeseberries, one and two years.

Red Jacket gooseberries, best large red.

F. A. BALLER, Bloomington, Ill.

When Writing Mention Florists' Exchange

PEACH AND PLUM TREES

FOR FALL DELIVERY 1892.

Reliable and cheap prices.

Among the leading varieties of PEACHES, are:

Early and late varieties of PEACHES all plum roots, one and two years.

Buds can be supplied in the quantity you desire.

Have all the leading Japanese varieties. Abundance.

Books, Catalogs, Sent Free. Write for our offer.

ALEXANDER PULLEN, Millard Nurseries, Millard, Pa.

When Writing Mention Florists' Exchange

ESTABLISHED 1864 ASPARAGUS ROOTS

We have to offer 100,000 PALMETTO, 400,000 CONOVERS COLOSSAL ASPARAGUS ROOTS...

Also choice varieties of MELON, TOMATO, CABBAGE, CUCUMBER, SUGAR CORN...

WILLIAM R. BISHOP, Seedsman, BURLINGTON, N. J.

SHRUBS FOR FLORISTS.

WANTED - 3000 yards Dwarf Box. Azaleas, Rhododendrons, Privet, Grapevines, etc.

FRED W. KELSEY, 150 BROADWAY, N. Y.

When Writing Mention Florists' Exchange

F. & F. NURSERIES, SPRINGFIELD, NEW JERSEY.

Our Specialties this Season: PEACH, Plum, Japan Walnut and Shade Trees.

California PRIVET and Shrubby. Stock good and prices right.

When Writing Mention Florists' Exchange

100,000 PEACH TREES

All Leading Varieties, 8,000 Plum Trees, 1,000 Apricots.

10,000 Apple Trees, 3 years 3/4 up, Ben Davis and York Imperial.

The following stock will be sold very cheap to close out this price of my business.

10,000 Norway Maple, Imported seedlings, 50c per tree, price of \$2 to \$3.

600 Norway Maple, 6 to 8 ft.

500 Silver Maple, 10 to 14 ft.

800 Sugar Maple, 10 to 12 ft.

300 Sugar Maple, 6 to 10 ft.

100 American Elm, 5 to 7 ft.

100 Ridgely Chestnut, 5 to 7 ft.

100 Lindley Spruce, 2 to 3 ft.

1,000 Norway Spruce, 2 to 3 ft.

1,000 Red Juniper, 2 to 4 ft.

1,000 American Arborvitae, 2 to 3 ft.

300 Cut Leaf Birch, 1 to 2 ft.

G. L. LONGSDORF, OAK HILL NURSERIES, FINE HOLE, ADELPHI, PA.

When Writing Mention Florists' Exchange

First Nursery Stock

As good as can be found in the States.

Prices unreasonably low.

Send for catalogue and be convinced.

Enclose your business card.

Bay State Nurseries,

North Abington, Mass.

When Writing Mention Florists' Exchange

... HAVE A...

SAMUEL C. MOON, Morris-Hill, Bucks Co., Pa.

When Writing Mention Florists' Exchange

EMERALD COLONY NURSERIES

SURPLUS STOCK.

Beech, European, 5 to 6 ft., \$25.00 per 100

Purple-leaved (seedling), 15.00

Berberis purpurea, 18 to 24 in., 2.00

Privet, Bull's Head, 18 to 24 in., 2.00

Elm, (Finn's American), 12 to 18 in., 2.00

Forsythia Suspensa, 3 ft., 5.00

Pyrus Japonica, 3 to 4 ft., 6.00

Prunus, (Prunus), 12 to 18 in., 2.00

Symphoricarpos (vaccaria), 15 to 18 in., 3.00

Viburnum opulus (true crinberry), 3 to 4 ft., 6.00

T. R. WATSON, Plymouth, Mass.

When Writing Mention Florists' Exchange

... HAVE A...

PEARS, APPLES, CHIEFS RIES PEACHES, QUINCES, &c.

3,000 Elm, 12 to 15 feet

8,000 Elm, 10 to 12 ft.

4,000 Sugar Maple, 10 to 12 ft.

4,000 Sugar Maple, 8 to 10 ft.

8,000 Norway Maple, 5 to 10 ft.

1,200 Cut Leafed Weeping Birch, 5 to 10 ft.

1,200 Purple-leaved Privet, 12 to 18 in.

150 Scarlet and Golden Oak, 10 to 14 ft.

1,000 Linden, 12 to 18 in.

2,000 Colorado Blue Spruce, 3 to 4 ft.

1,000 Red Cedar, 12 to 18 in.

10,000 Evergreen, all sizes and kinds.

2,000 Roses and Climbing vines, strong.

4,000 Pease, Cherokee, & 24 bearing sizes.

Landscaping Architects, Florists and Superintendents of Parks, planting done at catalogue prices, about as on our terms.

Two Railroads and Steamboats to New York City.

STEPHEN CRANE, Norwich, Conn.

Proprietor Norwich Nurseries.

When Writing Mention Florists' Exchange

Currants to Burn

If what we should literally have next Spring, if we did not make a special point upon them.

Extra fine two year plants, \$2 per 100; \$17 per 1000; \$150 per 10,000.

VARIETIES - Fay's, Cherry, LaVer-sailles, White Grape, Etc.

Gooseberries Ditto

Strong two year plants.

Downing, \$2.00 per 100

Houghton, \$1.75 per 100

Smith's Improved, \$3.50 per 100

These are fine plants as were the best grown

Small supply Currants and Gooseberries at these special prices only so long as our surplus lasts.

We also offer a fine assortment of Apples, Pears, Plums, Cherries, Peaches, Raspberries, Blackberries, Grapevines, Asparagus, Roses, new and old, Rhubarb, Clematis, and other climbers.

Ornamental Shrubs and Trees.

WRITE FOR TRADE LIST.

Jackson & Perkins Company,

Newark, Wayne Co., New York.

When Writing Mention Florists' Exchange

CALIFORNIA PRIVET

Good two year old plants, well branched, 24 to 30 inches, \$1.00 per 100; \$20.00 per 1000; 10 to 24 inches, \$2.00 per 100; \$15.00 per 1000.

Light two year old plants, \$1.00 per 100. Stock guaranteed as represented. If sample is wanted send 2 cents, which will be credited on account if plants are ordered.

Address CHAS. BLACK, Hightstown, N. J.

When Writing Mention Florists' Exchange

Reasonable Stock for Florists.

ALL STRONG, FIELD-GROWN.

Aemone Whitewind, \$5.00 per 100

Day Lily, white and blue, yellow, 5.00 "

Delphinium Formosum, 6.00 "

Hyacinth, double, \$4.00 per 100, 5.00 "

Peonies, 10.00 "

Rubricorn Golden Glow, 6.00 "

Yucca Flammula, 2 year, 5.00 "

Also Bourdains, Carnations, Saxifrage, Tulips, Hyacinths, and all kinds of Bulbs.

SEND FOR FALL TRADE LIST.

VICK & HILL CO., Rochester, N. Y.

When Writing Mention Florists' Exchange

P. OUWERKERK,

1123 Summit Ave., Jersey City, N. J.

Just received from our Holland Nurseries:

RHOENODENDRONS, AZALEAS,

SPHIREA JAPONICA, LILIUM SPECIOSUM,

PEONIES, BLEEDING HEART,

POT GROW LILACS, HYDRANGEA IN SORTS.

CLEMATIS and H. P. ROSES, in the best sort.

PRICES MODERATE.

When Writing Mention Florists' Exchange

CARNATION DISEASES.

Bacteriosis of Carnations.

The disease which has formed the subject of our present article is essentially the one so described by Arthur and Bailey in their bulletin on this subject, and that it is not caused by bacteria. Our material was obtained from many of the large centers of carnation growing in the United States, and through the kindness of Dr. Arthur, good specimens were recently sent in from Mr. Fred. Dornier's place near La Fayette, Ga. Summarizing the work as published in the Gazette, it may be said that:

(1.) The disease of carnations characterized by the symptoms already described and generally known as "bacteriosis" is widespread and destructive.

(2.) In the earlier stages of the disease neither fungi nor bacteria are present, so far as can be determined by the most careful microscopic studies and bacteriological investigations.

(3.) As the disease advances various organisms may appear, but their presence is not constant.

(4.) Infection experiments with such organisms, carried on under rigid bacteriological conditions, resulted negatively in every case.

(5.) A disease having all the characteristic symptoms of "bacteriosis" except the presence of a bacterium, is produced by the puncture of aphides, as was repeatedly proved by the sterilization of these insects on the plants.

(6.) That the aphides alone are responsible for the disease is proved by the fact that the injuries produced are not accompanied in the earlier stages by fungi or bacteria. The aphides, therefore, cannot be looked upon simply as carriers of some fungus or germ.

(7.) The disease similar to may respects to those produced by aphides also result from the attacks of thrips, an insect never previously mentioned as a carrier of ergasia, although generally overlooked by growers.

(8.) The carnation is a plant readily influenced by the conditions under which it is grown, and as a result the reaction to the attacks of aphides and the susceptibility to their attacks not only vary with varieties, but with individuals of the same variety. The plants grown under improper conditions will show more of the characteristic injuries from a given insect than those raised under those where all the conditions have been favorable for growth.

(9.) The selection and propagation of stock furnishing soil, moisture, light, and air, so adapted to healthy and vigorous growth, and keeping down to a minimum the number of aphides and thrips, will enable the grower to successfully combat the disease.

ALBERT F. WOODS.

Diagnosis of Carnation Diseases

Carnations are subject to many well marked diseases and a multiplicity of ill-defined disorders. Some of the diseases are so readily recognized that they can give the grower, who is well informed, the confidence of a master of the situation. It is able to detect the disease in its early attacks, and to some degree is usually able to check them sometimes to such an extent that the disease is only occasionally taken a survey of the enemy's camp, and see if the line of attack is being pushed forward. But every progressive carnationist will desire to have means for recognizing the various kinds of maladies, especially the most pronounced, and to get at the remedy, so far as any remedy is known.

The rather long list of diseases which follows should rightly no one but the careless grower, if plants properly grown and handled will rarely exhibit any of them, or only show them in a mild and inactive form. But every progressive carnationist will desire to have means for recognizing the various kinds of maladies, especially the most pronounced, and to get at the remedy, so far as any remedy is known. The rather long list of diseases which follows should rightly no one but the careless grower, if plants properly grown and handled will rarely exhibit any of them, or only show them in a mild and inactive form. But every progressive carnationist will desire to have means for recognizing the various kinds of maladies, especially the most pronounced, and to get at the remedy, so far as any remedy is known.

Rust.

The best known, the most dreaded and most talked about disease of the "divine flower," is fortunately the most readily

detected, is rust, a disease imported from Europe, and only known among us for the past six years. We shall probably never be able to drive it from the country, although it affects no plant but the carnation, and so we should learn to control it. It may be recognized by small blister-like swellings on the leaf or stem, usually somewhat larger than pin-heads, filled with a brownish powder that will adhere to the finger. At first the blisters have a thin covering, easily rubbed off, but it soon falls away, leaving a white, soft-like powder scatterers out. The powder is made up of the spores of the fungus *Puccinia carnationis*, which enters the plant by means of spreading the infection. No other carnation disease shows such a powdery character.

If rust has not yet appeared in the establishment, it should be watched for, sometimes as wide as the leaf, but often a burned. If already abundant, it should be reduced by hand picking, and by using a spray of copper sulphate (two pounds to 45 gallons of water) once a week. Additional precautions and aids are given in Bulletin No. 100 of the New York Experiment Station (Geneva, N. Y.).

Spot.

This disease is not difficult to recognize after once seeing it. It shows in form of rounded spots upon the leaves, sometimes as wide as the leaf, but often about half the width or less. The spots have a pale yellowish or whitish center, sprinkled with when mature enough with minute blackish points, like fly specks, which can be more easily seen by holding the leaf to the light. The border of the spot is dark, generally reddish, shading off into the healthy green of the leaf. A spot shows almost equally well upon both surfaces, as the tissues of the leaf are practically dead. When on the stem which it is especially injurious, the characters are not so well marked. It is caused by a fungus (*Septoria dianthi*) and is spread by minute spores.

The treatment of this disease is essentially the same as given above for rust. Although a disease not so much to be dreaded as rust, yet it should never be allowed to become abundant.

Bacteriosis.

This is a common disease, easily recognized in its earlier stages by numerous translucent dots, seen to the best advantage by holding the leaf to the light. For a time the surface of the leaf remains unaffected in either color or texture. Occasionally, however, even in the earlier stages, there is formed a slight water-soaked appearance. After a few days at the same time increasing in size, and the affected leaves die. If the translucent

The disease and its injury are sufficiently pronounced, it is to be kept in check by promoting the health of the plants, by avoiding wetting the foliage so far as possible, and by keeping the plants as nearly free from aphids and thrips as may be. Further details of



Fig. 1. Bacteriosis of Carnations. Yellow Spotting produced by Puncture of Aphides.

treatment may be found in Bulletin No. 59 of the Indiana Experiment Station (Lafayette, Ind.).

Black Spot.

This trouble has more often been called anthracnose, which is, however, an inappropriate name. It shows most on the lower leaves, especially the bases of the leaves and leaf sheaths. Moisture promotes its growth, and so it thrives best where the plants are thick and the lower leaves kept damp. It shows as black specks scattered over the surface of the dead and whitened leaf. If the leaf is looked at edgewise, the spots can be seen to stand up above the surface, and to consist of minute tufts of black bristles. The fungus (*Volvatella dianthi*) only occasionally attacks the stems, but is then especially injurious.

Although more readily detected on ma-

ture plants, it does its greatest harm in the cutting bed. It produces a rapid damping off. It attacks the cuttings at the surface of the sand, and causes them to soften and rot, sometimes showing the black bristly dots and sometimes not. See further under "Damping Off."

Fairy Ring.

This disease occasionally rises to a serious extent. It is a rounded, circular spot on the leaves of about the size of what is called "spot," but in this case the center of the spot is brown, and the outer edge or blackish rings of a minute velvet growth, bearing the spore which propagates the disease. The fungus (*Plectrosporum echinulatum*) kills the tissue of the leaf, so that the spot shows up upon both sides of the leaf. Sometimes the center of the spot will drop out, leaving a hole. The treatment is the same as for rust.

Black Mold.

This is a disease which only attacks feeble plants. It is a fungus (*Cladosporium biformis* nodosum) that spreads over the dead leaves and bases of the stems in a dark brown or blackish layer, having a firm velvety appearance. It is not confined to definite areas, and does not have a delicate outline. The fungus shows an evident preference for dead parts, especially dead leaves. No grower who looks after his plants later the summer times is likely to suffer from it.

The treatment is essentially the same as for "black spot."

Botrytis.

This fungus (*Botrytis cinerea*) probably is common in greenhouses, especially about well ventilated attics, and around dead leaves and stems, and in particular those that lie on the ground. When the air is warm, it will take root on the flowers, and sometimes it becomes so aggressive as to destroy flower buds before they are opened. It is a very common organism with an even layer of exceedingly delicate, fluffy, gray mold, which grows at an enormous rate. It also does injury in the cutting bench, to be spoken of next.

The treatment of the dead parts, and suitable ventilation, will usually keep it in check.

Damping Off.

This affliction, which shows most in the cutting bench, but also to some extent after the plants are potted out, is caused by a fungus which grows on the surface of the sand, the top drops over, and the whole cutting decays. The first symptom is a softening of the stem, sometimes to one sort, and at other times to another. Two of the most frequent causes of damping off in carnations have already been mentioned. The threads of the fungus overrun the surface of the sand, growing from the minute cuttings to the healthy ones. Sometimes cuttings in an infected bed succeed in rooting, but succumb after they are potted off.

The fungi usually start from decaying vegetable refuse, and the first thing to do is to stop the production of spores by clearing the house of dead stems, fallen leaves and blades, and especially to remove all cuttings as soon as they appear affected. Sprinkling sulphur or other chemicals over the cutting bed does little good. If much infected, by all means save further loss by throwing out the sand, cleaning the ground thoroughly, and refilling with sand never before used for a bench. Further prevention of damping off is to give the plants for a half an hour in a solution of lime sulphur of the strength of one ounce to one gallon of water. Further information can be obtained from Bulletin No. 94 of the Cornell Experiment Station (Ithaca, N. Y.).

Rosette.

The cause of this disease is not definitely known. It does not appear to be common or much to be feared, but is brought about by the stem failing to elongate, and the leaves, therefore, are kept close together in a rosette. The disease is caused by the stems forming crowded rosettes.

The simplest method of treating the disease is to destroy affected plants.

Purple Joint.

This is a still more obscure disease. It appears oftenest towards autumn, and shows at the joints, and the whole plant appears stunted. It seems to be due to the plants being brought out in some way, it may be by cold or sudden depression of temperature.

Cobering Petals.

The flower buds sometimes appear normal until time to expand, when it is found that the petals are agglutinated.

Fig. 2. Bacteriosis of Carnations. Yellow Spotting Produced by Thrips.

are sufficiently numerous, the leaves look yellowish, and afterwards they become whitish. The attack of parasitic bacteria has been given as the cause, but it is not clear whether it is ascribed to the puncture of thrips and aphid insects. See Figs. 1 and 2.



so that they cannot be separated without tearing. The petals continue to elongate and expand. It is thought that a too strong growth of the petals causes the trouble, but it has not been definitely proven.

#### Twittler.

This disease is seen both in the field and in the house. The leaves at the end of the stems are crumpled, and often held by the wind, but they are not prevented from straightening out. The stem also becomes distorted, and the whole shoot is a misshapen. Although not as common as studied as it should be, yet it occurs fairly often in the field, and is caused by insects (probably Rhopalosiphum dianthi) of the aphid sort, that hide beneath the leaves and suck the juices of the tender growth.

Cuttings should not be taken from plants with this disease, as the means usually employed against the green fly.

#### Root Galls.

This is not a common disease among carnations, at least not often recognized. The plant languishes, and the tissues gradually shrivel and turn brown from being attacked. The roots are found. Upon exposing the roots they are found to be covered with small abrupt swellings which are much more than the diameter of an inch thick, and at first of the same color as the normal roots, afterwards becoming more than black. They are produced by nematode worms (Heterodera radicola).

They should be traced not to transfer diseased plants from the field into the house. If the disease has once appeared, this should be original for the benches, and a new piece of ground selected for the next season's outside cuttings.

There are probably other diseases of carnation that will come to light by the same method of observation and close observation. Let us hope that they may be such as become evident along with a better understanding of the needs of the plant and of the conditions for its healthy development, and that we may have no further suppositions from Europe. Here is a "baker's dozen," and none of them are new to the florist who the grower who has learned the requirements of thrifty carnation culture, and who has the means for the prevention of disease.

(Trans.) J. C. AUSTIN, Purdue University, Lafayette, Ind. [In justice to Dr. Arthur, we would state that the article has not been "gotten ready" against time, owing to the pressure of his other duties. He explains that these diseases are very serious, and, unfortunately, we have been unable to procure any beyond those mentioned in the article of Mrs. Woods. Readers are, however, referred to the Indian Bulletin referred to for illustrations of "Insects" and to the American Florist of January 15, 1890, for illustrations of "Insects" and to the American Florist, and March 1, 1894, for others.—Ed.]

#### PRACTICAL PREVENTIVES AND REMEDIES.

An ounce of prevention is worth a pound of cure. We dig carefully, plant carefully, water carefully, and use grape cuttings, and in the winter, if it seems to appear we remove leaves showing it as far as possible, and burn them.

**PREVENTION.**  
I do nothing for any disease excepting to give plants the best culture I know how; and I have no disease excepting rust, and I have the same success under such treatment, and rust with me has never assumed to anything serious.

M. H. HARRIS.  
For rust I find nothing better than fresh air-slaked lime put on with Leggett's powder gun, which is one of the best. I have used it in the form of a kind of powder, and can be prepared of Joseph Beck & Sons, Boston. I powder it with a mortar and pestle in a few days; if there is any sign of rust this will, if followed up, stop it spreading. I have used it in the garden, and in the house. Besides lime is salt water—four ounces of common salt to three gallons of water—order it in the first eight days once in two weeks.

WM. SHERWOOD, Mass.

I do not work to the crops of dorastrating in the field, but in the house. I and my son have grown carnations for commercial purposes ever since their first year. I have not seen any other varieties have depended on maintaining their disease, but the plants and not been withheld.

There is no plant that grows with more native vigor than a carnation, and it becomes diseased only by a culpable error of the grower, or a flagrant treatment of its health.

If it become one disease, no therapeutic means, or a flood of water, or normal hygienic conditions are not sufficient to cure it.

I have fostered the germs of rust and inoculated carnations surrounded with the most beneficial conditions, and returned them to beneficial conditions, and they would leave them.

It cannot persist in a healthy temperature, no more than the yellow fever germ can develop on the Yankon river in Alaska.

L. L. LAMOR, Sr.

We have had more experience and loss from stem rot in the field than from any other disease. The cause of this is unable to solve, as the effects seem to be some under directly opposite conditions.

For instance, two varieties under special notice this season, a quarter of a mile apart, and in different soils, have been equally affected—a new seedling and Alaska. In one patch Alaska went out badly, while the seedling was but very slightly affected. The cause of this result was reversed with an apparent cause. I have always been inclined to believe that the cause of this is a cutting bench lung, and while this in some cases may be true, it is not always so, for the same variety will be affected with nothing of the sort, they being in the best possible condition at planting time. I have seen this result occur several times with this disease. We never spray our plants, and only water when absolutely necessary. I do not know of any other carnation grower who uses these methods. I think if these methods are carefully used to a great many of the carnations, the disease will be kept down away with assuming, of course, we start with a thing but healthy stock.

The carnation grower should start with good stock and clean houses. By careful and clean cultivation a vigorous stock will be raised, and the plants will be able to largely withstand the attacks of disease. Pipes should be kept clean, and the soil should be kept clean.

For rust we are dusting plants with powdered air-slaked lime; results encouraging.

Anthracnose has not troubled us. Under careful cultivation bacteriosis is present, but it is not a serious disease in varieties of weak constitution which should be discarded. While, as claimed by some, it is not a serious disease, it may originally follow attacks of disease, it seems to be readily developed by the use of cuttings from diseased plants; witness Della Fox. Stem rot is by far the most serious disease so far. We know neither cause nor remedy. Several yellow varieties seem especially subject to this disease. One planted with two lots of them in a house recently, all plants are strong vigorous, and are doing well, and the other lot was decimated, of the other lot, one was lost. The plants attacked were not so healthy, and the result was the same. I have seen this result in the field, and that the other, and from strong flowered shoots, the other lot from side shoots. I have seen this result in the field, and that the other, and from strong flowered shoots, the other lot from side shoots. I have seen this result in the field, and that the other, and from strong flowered shoots, the other lot from side shoots.

W. N. KENNEDY.

So much has been said, and so many different remedies, but I have not seen columns of your valuable paper concerning these pests that I feel the task is not too great for me to attempt to do, particularly when I have to disagree with one or all of the authors of these remedies. However, I will try to do this, and give my opinions in one or all of the articles which I may only take the liberty to express. I have seen the worst and was much talked of a couple of years ago, and in the matter short there is no remedy for it. I have used not enough Bordeaux mixture, its effect is not so good, and it is not so good to the world to eradicate it, if the condition of the houses are favorable to its propagation. I have seen it in the field, and in the house, and in large, and in small, and in the house wishes it as a matter of curiosity.

I have seen it in the field, and in the house, and in large, and in small, and in the house wishes it as a matter of curiosity. I have seen it in the field, and in the house, and in large, and in small, and in the house wishes it as a matter of curiosity. I have seen it in the field, and in the house, and in large, and in small, and in the house wishes it as a matter of curiosity. I have seen it in the field, and in the house, and in large, and in small, and in the house wishes it as a matter of curiosity.

When thrown on the market, I take their chances with the general stock; they are all consumptive and die young in age, but old in years, and I have seen many varieties running out in two or three years.

I long ago ceased to apply any remedy of any kind, and I have seen many of those affected plants which I receive every year from different growers. My own experience is that I have seen many varieties running out in two or three years. I long ago ceased to apply any remedy of any kind, and I have seen many of those affected plants which I receive every year from different growers. My own experience is that I have seen many varieties running out in two or three years.

While these remarks apply to rust, I have no doubt that similar treatment will bring about the same success with all other diseases of carnation. This disease, if it is one, I haven't had much experience with, consequently do not know much about it, but with all the different diseases to which the carnation is subject, I do not for an instant believe that any one of them is capable of worrying the grower. Last year I saw several collections of carnations, and I noticed the same thing, and concluded to try doctoring their plants (which is what I know much about) with rust; its terror is past and gone for ever.

JOSEPH REICMAN, Pa.

The subject of the diseases of plants is a study of wide scope, and of great economical value; but concerns the scientific specialist more than the grower. It brings in many other sciences, and it is to give that attention to the subject that I have been so much obliged to learn.

But it is the duty of each grower, especially in his business should give him sufficient insight to know the ordinary diseases of carnation, and to be able to detect them. This much knowledge seems almost essential to success, and properly so, as it is the only way that can help in guiding the intelligent florist in the right path. I have conceded this much to the scientific specialist, and at the same time would earnestly caution the enthusiastic plantsman not to go too far in the scientific direction, and to avoid the suppression or prevention of disease. I hold that nearly all (perhaps all) diseases of carnation are due to improper conditions. Therefore, the very best preventive is the proper care of the plants—

to give them a pure atmosphere, suitable soil, proper degree of light and moisture, and generally consistent conditions, and to avoid any other alter with specks, but also with varieties of any species, and the skill of the florist, and the conditions of the plants. With conditions just right and congenial surroundings, the diseases of plants are reduced to a minimum. Therefore, I would have little dependence in preventive and cure, but would rather trust to the skill and practical knowledge of the cultivator, who keeps his stock in the best condition, and who is free from attacks of tedious diseases.

With the best conditions, a man can do at times his plants will become the prey of his enemies. This to my mind, only one remedy is left, and that is to change of treatment, do not restore health, why make a hospital of our greenhouses, and our nurseries. In each case is to consign the sickly stock to the rubbish heap, and replace with some healthy stock, and I know that some varieties are much less subject to certain diseases than others. Then in the case of a disease, it is best to avoid disease it is best to plant those kinds that are exempt. This is shown in the very best of our carnation cultivation. A number of varieties are almost exempt from it if properly grown. I may give some of these varieties as examples. There are also a number of other kinds that show little disposition to take on any of the diseases of carnation.

It seems to me accounts in great measure for the fact that many growers are free from any of the diseases of carnation, especially subject to its attacks are badly preserved with it.

If we have any presumption on my part, but the truth is I have lost nearly all of my carnations to the disease of the cure of plant diseases. I have seen many of those affected plants which I receive every year from different growers. My own experience is that I have seen many varieties running out in two or three years.

It seems to me accounts in great measure for the fact that many growers are free from any of the diseases of carnation, especially subject to its attacks are badly preserved with it. I have seen many of those affected plants which I receive every year from different growers. My own experience is that I have seen many varieties running out in two or three years.

It seems to me accounts in great measure for the fact that many growers are free from any of the diseases of carnation, especially subject to its attacks are badly preserved with it. I have seen many of those affected plants which I receive every year from different growers. My own experience is that I have seen many varieties running out in two or three years.

It seems to me accounts in great measure for the fact that many growers are free from any of the diseases of carnation, especially subject to its attacks are badly preserved with it. I have seen many of those affected plants which I receive every year from different growers. My own experience is that I have seen many varieties running out in two or three years.

It seems to me accounts in great measure for the fact that many growers are free from any of the diseases of carnation, especially subject to its attacks are badly preserved with it. I have seen many of those affected plants which I receive every year from different growers. My own experience is that I have seen many varieties running out in two or three years.

It seems to me accounts in great measure for the fact that many growers are free from any of the diseases of carnation, especially subject to its attacks are badly preserved with it. I have seen many of those affected plants which I receive every year from different growers. My own experience is that I have seen many varieties running out in two or three years.

My experience with carnation rust is confined to two varieties—Mrs. Fisher and Daybreak. Ever since I have grown old in the world, I have seen many varieties running out in two or three years. I long ago ceased to apply any remedy of any kind, and I have seen many of those affected plants which I receive every year from different growers. My own experience is that I have seen many varieties running out in two or three years.

While these remarks apply to rust, I have no doubt that similar treatment will bring about the same success with all other diseases of carnation. This disease, if it is one, I haven't had much experience with, consequently do not know much about it, but with all the different diseases to which the carnation is subject, I do not for an instant believe that any one of them is capable of worrying the grower.

Last year I saw several collections of carnations, and I noticed the same thing, and concluded to try doctoring their plants (which is what I know much about) with rust; its terror is past and gone for ever.

JOSEPH REICMAN, Pa. The subject of the diseases of plants is a study of wide scope, and of great economical value; but concerns the scientific specialist more than the grower. It brings in many other sciences, and it is to give that attention to the subject that I have been so much obliged to learn.

But it is the duty of each grower, especially in his business should give him sufficient insight to know the ordinary diseases of carnation, and to be able to detect them. This much knowledge seems almost essential to success, and properly so, as it is the only way that can help in guiding the intelligent florist in the right path. I have conceded this much to the scientific specialist, and at the same time would earnestly caution the enthusiastic plantsman not to go too far in the scientific direction, and to avoid the suppression or prevention of disease. I hold that nearly all (perhaps all) diseases of carnation are due to improper conditions. Therefore, the very best preventive is the proper care of the plants—

to give them a pure atmosphere, suitable soil, proper degree of light and moisture, and generally consistent conditions, and to avoid any other alter with specks, but also with varieties of any species, and the skill of the florist, and the conditions of the plants. With conditions just right and congenial surroundings, the diseases of plants are reduced to a minimum. Therefore, I would have little dependence in preventive and cure, but would rather trust to the skill and practical knowledge of the cultivator, who keeps his stock in the best condition, and who is free from attacks of tedious diseases.

With the best conditions, a man can do at times his plants will become the prey of his enemies. This to my mind, only one remedy is left, and that is to change of treatment, do not restore health, why make a hospital of our greenhouses, and our nurseries. In each case is to consign the sickly stock to the rubbish heap, and replace with some healthy stock, and I know that some varieties are much less subject to certain diseases than others. Then in the case of a disease, it is best to avoid disease it is best to plant those kinds that are exempt. This is shown in the very best of our carnation cultivation. A number of varieties are almost exempt from it if properly grown. I may give some of these varieties as examples. There are also a number of other kinds that show little disposition to take on any of the diseases of carnation.

It seems to me accounts in great measure for the fact that many growers are free from any of the diseases of carnation, especially subject to its attacks are badly preserved with it. I have seen many of those affected plants which I receive every year from different growers. My own experience is that I have seen many varieties running out in two or three years.

It seems to me accounts in great measure for the fact that many growers are free from any of the diseases of carnation, especially subject to its attacks are badly preserved with it. I have seen many of those affected plants which I receive every year from different growers. My own experience is that I have seen many varieties running out in two or three years.

It seems to me accounts in great measure for the fact that many growers are free from any of the diseases of carnation, especially subject to its attacks are badly preserved with it. I have seen many of those affected plants which I receive every year from different growers. My own experience is that I have seen many varieties running out in two or three years.

It seems to me accounts in great measure for the fact that many growers are free from any of the diseases of carnation, especially subject to its attacks are badly preserved with it. I have seen many of those affected plants which I receive every year from different growers. My own experience is that I have seen many varieties running out in two or three years.

It seems to me accounts in great measure for the fact that many growers are free from any of the diseases of carnation, especially subject to its attacks are badly preserved with it. I have seen many of those affected plants which I receive every year from different growers. My own experience is that I have seen many varieties running out in two or three years.

It seems to me accounts in great measure for the fact that many growers are free from any of the diseases of carnation, especially subject to its attacks are badly preserved with it. I have seen many of those affected plants which I receive every year from different growers. My own experience is that I have seen many varieties running out in two or three years.

It seems to me accounts in great measure for the fact that many growers are free from any of the diseases of carnation, especially subject to its attacks are badly preserved with it. I have seen many of those affected plants which I receive every year from different growers. My own experience is that I have seen many varieties running out in two or three years.

It seems to me accounts in great measure for the fact that many growers are free from any of the diseases of carnation, especially subject to its attacks are badly preserved with it. I have seen many of those affected plants which I receive every year from different growers. My own experience is that I have seen many varieties running out in two or three years.

It seems to me accounts in great measure for the fact that many growers are free from any of the diseases of carnation, especially subject to its attacks are badly preserved with it. I have seen many of those affected plants which I receive every year from different growers. My own experience is that I have seen many varieties running out in two or three years.

2 YEAR OLD... ROSES 2 YEAR ...OLD...

These Roses have been potted some time and have made a nice bushy growth. I offer them while they last at \$5.00 per 100.

PERPETUAL BLOOMING ROSES.

Clothilde Souper, Leonie Osterlich, Mme. DeWattoville, Princess de Sagan, Ecole de Lyon, Sombrenil, Mine, Barthod, Mme. Welche, Francisca Kruger, Malmaison, Christine de Neuse, Duchesse de Brabant, Madame Elie Lambert, Rainbow, Fink Souper, Bride, Meteor, Triumph de Perret Here, Kaiserin, H. M. Stanley, Marie Lambert, Marie Guillon, Pierre Gaultier, Yellow Souper, Bridesmaid, Perle, Chas. Legrand, Mrs. Degraw, Marie Van Houste, Maman Cochet. (The above list in 2 1/2 inch pots at \$3.25 per 100; \$30.00 per 1000.

CLIMBING ROSES.

Two year old plants in the following varieties, \$1.00 per doz.; \$8.00 per 100. White Rambler, Yellow Rambler, Pink Rambler, Climbing Meteor. The above list in 2 1/2 inch pots at \$3.50 per 100; \$30.00 per 1000.

CLIMBING ROSES.

Two year old plants in the following varieties, per doz., 75c; per 100, \$7.00. Crimson Rambler, Empress of China, Golden Rambler, Rosa Wicharaiana, Climbing Perle, Mary Washington. The above list in 2 1/2 inch pots at \$3.25 per 100; \$30.00 per 1000.

HYBRID PERPETUAL ROSES.

Two year old plants in the following varieties, per doz., 75c; per 100, \$7.00. Paul Neyron, Coquette Des Alps, Magna Charta, Vick's Caprice, Ball of Snow. The above list in 2 1/2 inch pots at \$3.00 per 100; \$25.00 per 1000.

JOHN A. DOYLE, - Springfield, Ohio. When Writing Mention Florists' Exchange

..The Water Garden..

BY WILLIAM TRICKER.

PRICE \$2.00. TWENTY-FIVE PER CENT. OFF TO SUBSCRIBERS TO FLORISTS' EXCHANGE.

This work contains nine semi-photogravure plates, eighteen full page descriptive views of leading Water Gardens and Ponds, and numerous smaller pictures prepared with special reference to this work. On heavy enamelled paper. Elegantly bound. Large octavo.

The text describes all operations from the growing of plants in tubs to the large water garden, excavation of grounds, construction of ponds, adapting natural streams, planting, hybridizing, seed saving, propagation, the aquatic house, wintering, correct designing and planting of banks and margins, and all other necessary details.

This Book is of vital interest in every Florist in the land, and all should buy it and read it. Introduce Water Gardens in your locality and make money.

A. T. DE LA MARE PTG. & PUB. CO., Ltd., P. O. Box 1697, New York City.

SMILAX STRINGS Extra choice, 10 cts. per string. PLANTS, strong, from 3 inch pots, \$1.50 per 100; from 2 inch pots, \$1.25 per 100. Cash with order, please. GEO. STAFFLINGER, Springville, N. Y. When Writing Mention Florists' Exchange

CUT SMILAX!

Good Strings, at \$100.00 per 100.

IVY LEAVES

at nice and clean, \$2.00 per 1000.

Cash with the Order, Please.

CHAS. F. SEITZER, 50 Avenue UTICA, N. Y. Street. When Writing Mention Florists' Exchange

GALLERT & CO. CARNATION GROWERS. COLMA, SAN MATEO CAL. CO. When Writing Mention Florists' Exchange

When Writing Mention Florists' Exchange

PANSY Giant Triandrus, mixed = 2, \$1.00; Giant Triandrus = yellow doz., \$1.50; Giant Packet, 10 cts. Lord Beaconsfield, Parisian, large stained, trade packet, 10 cts. MIGNONETTE Alportris, blue, oz., 25 cts. MIGNONETTE Mabel, truss, oz., 25 cts. CANARY-Anita and John White, large clumps, 10 cts. each, by express. H. BEAULIEU, REMOND AVENUE, Woodhaven, N. Y. When Writing Mention Florists' Exchange

Success waits on all who Subscribe to

An Illustrated Journal of Gardening and Fruit Growing



Record of Current Events In Horticulture. Estab. 51 Years.

"Intensive Cultivation is the Keynote to Success."

Every Saturday...

...\$1.00 per Year

Complete Practical Guide to every phase of Plant Culture and Development of Land and Home.

The Soil's Productiveness Increased.

Send \$1.00 for a year's subscription; it will earn you \$100 before the twelve months are up. Sample copy sent free on application.

Address communications...

Publishers American Gardening, P. O. Box 1697, New York.



# THOS. YOUNG, Jr.,

# WHOLESALE FLORIST

## 43 WEST 28th STREET,

## NEW YORK.

When Writing Mention Florists' Exchange

### BUSHY FIELD-GROWN CARNATIONS

With plenty of roots. Send for prices. **GEORGE HANCOCK & SON, Grand Haven, Mich.** When Writing Mention Florists' Exchange



Up in Quality  
Down in Price

### Siebert's Carnations

Are EXTRA NICE.

3,000 fine bushy plants, field-grown, labeled, our selection in varieties and price on another page.

**CHAS. T. SIEBERT, Sta. B., Pittsburgh, Pa.** When Writing Mention Florists' Exchange

### CARNATIONS.

Strong field-grown plants, labeled, our selection in good vats, at \$3.00 per 100.

**VIOLET CLUMPS.**—Field-grown, Marie Louise Bradley White, R. Garrett, California and Lady Campbell, \$4.00 per 100.

**BEK BEGONIA.**—12 varieties, labeled, 2 in. pots, \$4.00 per 100.

**FICHELIAN.**—Mrs. F. G. Hill, White Giant and 3 other desirable sorts, strong plants, 2 1/2 in. pots, labeled, \$2.50 per 100.

**GERANIUMS.**—50 varieties, 2 1/2 in. pots, strong cutaway plants, labeled, \$2.00 per 100, \$3.00 per 100.

**PALEM LATANIA BORBONICA.**—2 1/2 in., \$4.00 per 100; 3 in., \$6.00 per 100.

**GREVILLEA ROBUSTA.**—2 in. pots, \$2.00 per 100.

**CHRYSANTHEMUMS.**—Single stem plants, well-crowded, 40 varieties, 4 in. pots, \$8.00 per 100.

**RUBBER PLANTS.**—Specimen plants, leaves all perfect, best 7 in. 5 in. pots, 18 to 24 in. high, \$1.00 per doz. Satisfaction Guaranteed.

**A. B. DAVIS & SON,** Purcellville, Va. When Writing Mention Florists' Exchange

### FIELD-GROWN CARNATIONS!

Kitty Cloven, Lolo C. Haetta, Portia, Dr. Warder, Nolie Bly, Princess Bonnie, 44 per 100. **Farquhar Violets,** strong, healthy runners that will bloom the Winter, \$1.50 a 100. **Begonia Rex,** 12 varieties, \$3.00 per 100.

**WM. H. SEARCH, Avondale, Chester Co. Pa.** When Writing Mention Florists' Exchange

### 5000 FIELD-GROWN

### SCOTT.... CARNATIONS

Second Size, \$3.00 for 100, Cash.

FINE HEALTHY PLANTS.

### ELLIOTT & ULAM, C'eswick, Pa.

When Writing Mention Florists' Exchange

### FIELD-GROWN CARNATIONS

IN FINE HEALTH.

1400 Alaska, small.....	Per 1000
300 Portia, good.....	\$25.00
300 Portia, small.....	25.00
3300 Minnie Cook, good.....	35.00
3300 Minnie Cook, small.....	35.00
10000 Fisher, good.....	30.00
300 Scott, small.....	25.00

**C. STRAUSS & CO., Washington, D.C.** When Writing Mention Florists' Exchange

### FIELD-GROWN CARNATIONS

Good, strong, healthy plants. Write for kinds and prices. Delivery after Sept. 15th. **LOGAN AVE. GREENHOUSES, Danville, Ill.** When Writing Mention Florists' Exchange

### ...CARNATIONS...

McGowan, Portia, Eldorado, Buttercup, Louisa, Anna Webb, Kitty Clover,..... No rust - - - \$3.50 per 100 CASH.

**HERRON & STRATTON, - Olean, N. Y.** When Writing Mention Florists' Exchange

### 500 DELLA FOX CARNATION,

strong, healthy, field-grown plants, \$5.00 per 100; \$22.50 for 500.

**200 ELGORADO,** \$5.00 per 100. Cash with order.

**PETER DE VOEGHT, - Wilmington, Del.** When Writing Mention Florists' Exchange

### 40,000 Field-Grown Carnations FINE STOCK.

Daybreak, Aziska, Filen Red, storm King, Wm. Scott, Lizzie McGowan, Portia, Tidal Wave, Anna Webb, Albertini, Also Mrs. Fisher and Orange Blossom.

Also **2000 Marie Louise Violets**, at \$2.00.

**Geo. E. WHITEHEAD, Lock Box 118, Greens Farms, Conn.** When Writing Mention Florists' Exchange

### FIELD GROWN CARNATIONS

### and VIOLETS,

Ready September 15th.

**JOSEPH RENARD, Unionville, Chester Pa.** When Writing Mention Florists' Exchange

### STRONG, FIELD-GROWN CARNATIONS and VIOLETS

500 Lizze McGowan.....	\$3.00 per 100
500 Rose Queen.....	4.00
200 Lady Campbell, 200 California and 150 Marie Louise Violets.....	5.00
500 Saxifex, 2 in. pots.....	5.00
200 Primula Obcordata, 3 in. pots.....	5.00
200 Geraniums, in 2 and 3 in. pots.....	5.00

**M. J. PIERCE, - Adrian, Mich.** When Writing Mention Florists' Exchange

### FIELD-GROWN CARNATIONS and ROSES.

1000 Wm. Scott, 500 Tucle John, 200 Mme. Albertini, \$4.00 per 100. Fine plants. No rust.

1000 Field-grown Roses, 15 to 20 in., at 5 cts. each. Bride, Bride-maid, La France, K. A. Victoria and White La France.

**JOY & SON, - Nashville, Tenn.** When Writing Mention Florists' Exchange

### CARNATIONS Mrs. Fisher a

good white, at \$2.50 per 100. No room to house them.

Geraniums, fine plants, from 3 and 4 inch pots, nice plants for stock, as follows: Bride, White Swan and Firebrand, \$2.50 per 100. The above varieties in 2 and 3 1/2 inch pots, \$1.00 per 100.

Begonias, Alba Picta, Pros. Carnot, and M. De Lesseps, fine plants, from 2 1/2 inch pots, 25 cts. Argentea Outlook and Sandersoni, 25 cts. each.

Carrot, 3 inch pots, elegant plants for stock, 5 cts. Rubin, fine plants from 2 1/2 in. pots, 4 cts. Palsangium, Root. Green, 2 1/2 in. \$1.50 per 100.

W. E. Roberts, nice plants, \$1.00 per 100.

**FAIRVIEW FLORAL CO., BEATTY, OHIO.** When Writing Mention Florists' Exchange

young plants along in cold frames was a common source of this disease; neglect and the impossibility of proper ventilation, extremes of temperature, etc., all had their effect in producing stem rot. The stem at the ground usually became hard and woody, and once in this condition the disease would be sure to have a foothold. The placing of young plants in any position related to indoor growing is a fair way to invite stem rot.

Best planting, either in the field or the house, is smooth, and very common cause for the appearance of this pest. Plants are often set in a garden or field to a depth than is necessary to cover the roots lightly, will almost invariably die. In the house, the soil should be kept moist, but not soggy. Confined wet weather, humidity, etc., all help to produce the disease. In the better states that stem rot is incurable, and that cuttings taken from a plant affected by it will, to a certainty, develop it. I wish to modify this statement; as the past season's experience with stem rot has shown me that a plant may be treated with it in a mild form and still produce healthy cuttings.

Our experience was with Scott. Last year the first part of the season was extremely wet; there was much close, humid atmosphere; the plants were submerged for but 30 hours. The latter part of the season, however, was all that could be desired in the way of fine weather. The plants recovered fairly well, but all showed slight traces of stem rot, while a number of them, which were badly affected, died in the field. In housing these plants, only the very best were used. The good weather and judicious feeding soon brought the plants into good shape. In this way we managed to have the plants partly overcome the disease. We propagated only from the very best and thickest looking shoots, with the result that this Fall our Scotts are clean and perfectly healthy, showing no traces of the disease whatever.

From this I learn that good culture with plants not badly affected will offset the disease sufficiently for the propagation of clean stock from them. It is quite unnecessary, I believe, to propagate from plants which are very badly affected, unless they are not the cause of troublesome and dangerous disease we have to contend with in the culture of the carnation. H. WISNER.

**A Pre-cription Worth Trying for Rust on Carnations.**

Sulphide of potassium was used by the late H. E. Chittly, of Paterson, N. J., with more satisfactory results when applied to rust on carnations than any other of the numerous formulae which have been so freely prescribed. It is a matter of one pound of this chemical in a kerosene oil barrel, holding about 45 gallons of water, and syringed plants with this solution by a spray pump once a week. Under this treatment rust will not trouble carnations that are not affected with it, and the benefits derived are very marked. In the worst cases this will stop the rust entirely, but it is likely to break out again in one or two days on other parts of the same plant. While it is a matter of one pound, it is likely to prevent the spread of the disease to other plants. He considered it better to purchase the sulphide of potassium in one pound bottles, as then you have full strength; it may be procured in five-pound jars, but it becomes very rankly after having once been exposed to the air, losing its virtue. Potassium sulphide in a weaker solution than above named has been found the most valuable preventive for mildew on gooseberries.

We have trouble with black spot on Beauty and Meteor generally at this season, and I believe in starting fire soon enough, but we have not much trouble when firing all the time. The only way in my mind to prevent attention to ventilation, heating, or temperature, and cleanliness.

On carnations we have had rust and

bacteria (no rust this season up to the present) and believe a solution of salt and lime as above anything to help keep the disease in check. We do not take much notice of these diseases now, as they disappear in spring.

I have had no trouble with chrysanthemums till this year, and V. Morel has got something not good for it. It has not grown nearly as well as former years; leaves are imperfect and spotted or streaked with yellow. A few Bonaniums have shown the same. We had a little trouble with Bergmann first year, but that was the slight now. We never see the old mildew to hurt. I hope I will see some word in your paper that will help me find a cure for what the rust is. J. B. BERNETT, Montreal.

**A Dangerous Canna Disease.**

A fungus that quickly destroyed various species was recorded as long ago as 1854, when it was noticed at San Paulo, in Brazil. Quite recently on account of the destruction of canna by a certain disease, which was named fungus, Fredo Canne (Winter), has been received at Kew from Mr. J. H. Hart, superintendent of the Botanic Gardens, Trinidad. Diseased leaves are at first thickly studded with minute, yellowish spots; this appearance is quickly followed by blackening and death. The disease does not appear to have reached Europe or America as yet, and great care should be exercised in receiving living plants as the fungus, which is a close ally of the hollyhock rust (Basidium vacuicarium), if once introduced, would, in all probability, render impossible, for a time at least, the cultivation of cannae.

**An Exceptional Opportunity.**

We desire to call the attention of our readers to the advertisement on page 942, headed "For Sale—An Established Business." This is an excellent opportunity for some one with a moderate amount of capital to invest, and we recommend those so situated to communicate with Mr. Loder, who has the matter in hand.—Adv.

**Something Every Up-to-Date Florist Wants.**

**Stow's Midew & Red Spider Destroyer**

It is recommended by all that have used it, as the best article on the market for the destruction of Red Spider and Midew on rose plants. It is applied to the heating pipes, and when pipes are hot, instead of syringing the plants, you simply spray the pipes in the form of a fog, which carries the ingredients over the plants, killing the red spider and destroying the midew. Three applications of pipes per week, will keep your rose house in a clean, sanitary condition.

SAMPLE package, enough to paint 1000 feet of 4 inch, or 2000 feet of 2 inch pipe, \$1.00 special price on large orders. Full directions with each order. Shipping charges extra. Retail, 1/2 retail prices. Cash with order please.

Chas. B. Stow, Sole Florist, Kingston, N. Y.

When Writing Mention Florists' Exchange

**THE EARLIEST BERRY TO THE TRADE ONLY.**

We have just at the present time a surplus of fine, fresh Dutch, and being short of storage we will use the following low prices for the next ten days, viz.: 100 lbs., \$1.50; 500 lbs., \$4.50; 1000 lbs., \$8.00; 3000 lbs., \$15.00. **Cash Must Accompany Each Order.**

**EARLIEST STRAWBERRY.**

This is the earliest berry grown. Mr. A. I. Root, of Medina, Ohio, says it ripened with him the first week in June. It is an competition. It is a berry that everyone wants. Stands drought better than any other. Sells at highest market price. Parties who desire to catalogue this berry the coming season should send for our terms.

Headquarters for Lady Thompson, Carrie Haring, Ac. Lowest Prices to the Trade.

**—THOMPSON'S SONS, RIO VISTA, VA.**

When Writing Mention Florists' Exchange

**Clear Cypress Greenhouse Material.**

This with us means the best growth of Cypress Lumber and the best grade of that growth; and from this grade all the sap—bright sap, which only experts can detect—as well as stamned sap, knots and other defects cut out. Others do not equal our quality if they do beat our prices. It is not hard to see the reason: You can not buy good dollars at fifty cents each. Experienced growers know that the best is not too good and cheapest in the long run.

**Lockland Lumber Co., LOCKLAND, O.**

When Writing Mention Florists' Exchange

**HAVE YOU EVER TRIED THE MEYER GREEN SILKALINE? Stationery for Florists.**

Every florist in the land should have a complete supply of printed matter wherewith to conduct his business in befitting style. We have the largest, unit in America devoted solely to horticultural printing, and we understand the wants of the trade. Below we quote two combination offers and would be pleased to supply you.



**\$5.00** Combination offer includes....

- 250 Noteheads, 5 1/2 x 3 1/2 ins.
  - 250 Envelopes, 5 1/2 x 3 1/2 ins.
  - 250 Billheads, 7 1/2 wide, 5 1/2 ins. deep.
  - 250 Business Cards, 2 1/2 x 3 1/2 ins.
  - 250 Tags, 2 1/2 x 3 1/2 ins.
- Cash with order. Delivered F. O. B., N. Y.

**CHANGED PRICE LIST OF Neponset Flower Pots**

IN FORCE FROM JULY 1st, 1937. Terms—Net cash with order. If ordered shipped by freight, add 50 cents cartage.

Size	Packed in Cases of	Gross Weight	Net Weight	Per 100 pots	Per 200
2 1/2 inch	100	about 25 lbs.	80.25	80.25	160.50
3 "	50	35 "	110.50	110.50	221.00
3 1/2 "	30	45 "	140.50	140.50	281.00
4 "	20	60 "	180.50	180.50	361.00
4 1/2 "	15	75 "	220.50	220.50	441.00
5 "	10	100 "	280.50	280.50	561.00
6 "	8	120 "	336.00	336.00	672.00

Less quantities than full crates at 100 rates.

**F. W. BIRD & SONS, Manufacturers.** Address orders to our Agents.

**August Rölker & Sons 52 DE STREET, NEW YORK.**

R. Y. F. FARQUHAR & CO., Boston, Mass.

When Writing Mention Florists' Exchange

**\$10.00** Combination offer includes....

- 500 Noteheads, 5 1/2 x 3 1/2 ins.
  - 500 Envelopes, 5 1/2 x 3 1/2 ins.
  - 500 Billheads, 7 1/2 wide, 5 1/2 ins. deep.
  - 500 Monthly Statements, 3 1/2 x 5 1/2 ins.
  - 500 Business Cards, 2 1/2 x 3 1/2 ins.
  - 500 Tags, 2 1/2 x 3 1/2 ins.
- One Day Book, if these are not wanted subtract \$1.50.
- Cash with order. Delivered F. O. B., N. Y.

**PLEASE READ THIS BEFORE YOU ORDER.**

Write plainly and send "copy" for each article wanted.

Noteheads will be furnished in smooth writing paper with ruled lines. Lunen paper, ruled or unruled, can be had in desired so ordered.

Envelopes are full commercial size and of good quality.

Billheads will be furnished as above, but in size 8 1/2 ins. wide and 4 1/2 ins. deep will be substituted when so ordered.

Cards are of good quality and ample proportions.

Day Book and Ledger are large enough for ordinary purposes. Ledger is indexed and will hold 200 accounts.

Special designs, trade marks, etc., engraved to order. A rose, violet, or other flower can be printed on your letterheads and billheads, plain or in color, to order.

The quality of all the above work is guaranteed.

**A. T. DE LA MARE PTC. & PUB. CO., Ltd.**

P. O. Box 1697, New York, N. Y.

**FOR GLASS AND PAINT LOW PRICES HIGH QUALITY**



**& CO., JOHN 141 N. 4th ST. PHILADELPHIA NEW YORK & CHICAGO**

When Writing Mention Florists' Exchange

**SEED TRADE REPORT.**

Points and information from seedmen, and all interested in the column, selected. Address Editor Seed Trade, care of Florists' Exchange, P. O. Box 166, New York.

**AMERICAN SEED TRADE ASSOCIATION.**  
 President, E. H. BERGER, 1514 Madison Ave.,  
 President, H. B. CLARK, Milford, Conn.,  
 At Vice-President, S. F. WILLARD, Hartford, Conn., Secretary and Treasurer.

New York.—H. H. Berger & Co. report business to be first-class, orders coming in freely for present, as well as Spring delivery. Their first large lot, consisting of Lilium longiflorum, has arrived in good condition. Large-sized bulbs, however, are again scarce. An important receipt from Japan is quinquina in few days. Messrs. H. H. Berger congratulate themselves on their removal to this city. They have taken a large lot on Ann street, within two blocks of their offices which are at 22 1/2 Broadway, 12th floor of St. Paul building, where all re-packing of stock is done, and all shipments for the Eastern States attended to. Their stock is well supplied by direct shipments from Japan to San Francisco, the stock being distributed from there.

Mr. S. B. Dicks, of Cooper, Taber & Co., London, leaves for Europe to-day (Saturday) on the Etruria.

**European Notes.**

**Anxiety for Aster Crop.**

Cool but comfortable, and no great harm done, fairly describes our position here in western Europe. As to the outlook in a general way, the conditions are not quite so favorable, and some of the growers are really anxious. Owing to a most beneficial rain which followed the lengthy drought, a number of plants, especially the early and small portions, which had succumbed before, as is the case almost everywhere, are again vigorously pushing down, are very visible, and unless drier and warmer weather sets in very quickly, much of the seed, particularly of the early varieties, will be of very poor vitality. Your readers will doubtless observe that this is the same old song, but we cannot get rid of this state of uncertainty until the moment that the dry clean seed is safely in the bags. Double zinnias have already suffered badly, many of the best flowerers are a mass of rot. In spite of the rain, nigoneetta is very promising; the crop of the Machet promises to be exceptionally good.

We were entirely dependent upon this year's crop, the price of asters would rule very high, but rumor has it that considerable fragments yet remain from the season just passed, and so prices will probably remain more moderate. Some of the growers are somewhat proud of the fact that their recent exhibit has earned for them the 1,000 mark prize, and a medal of gold or silver for each exhibitor.

Here in the west, turnips, rutabagas, and mangels continue to make good progress, and if present conditions continue, the shortage, caused by laying down much of the land to winter wheat, will be very serious.

EUROPEAN SEEDS.

**Cannas Burgundia and Bavaria.**

The two cannas named above, both from the lists of the originators of Italy, Austria, and America, have been favored by Professor Wagh, with the Vermont Experiment Station, who writes of them in the current issue of Garden and Forest as follows:

"We are somewhat disappointed in these two newest varieties, not because of the qualities, but on account of their close resemblance to Italia. Italia is a beautiful canna, to be sure, perhaps the best one of this class yet introduced, but

Burgundia and Bavaria are so much like it that a careless observer would pass them by as one and the same."

Both varieties are, however, of smaller stature than Italia and have smaller foliage. The flowers in all three are of a brilliant canary-yellow upon which two shades of rich, apricot-red are superimposed. In Burgundia the red colors are run together in the throat to make somewhat regular spots. Bicolors of the latter variety are of the clear yellow, like an exaggerated Queen Charlotte, in a few instances. In Bavaria the red of the darker red shade, while the lighter red is scattered in small dots and spots, and in Burgundia the latter giving an effect more like that of Florence Vaughan. Burgundia is almost a duplicate of Bavaria, and the latter with more of the dark overlying red than the former, and more of the leopardi spots than in the latter.

**COMING EXHIBITS.**

Secretaries of Shows will greatly oblige by forwarding particulars of their respective Exhibitions, for notification in this column.

**BOSTON.**—Massachusetts Horticultural Society. Here, November 25, inclusive. Robert Manning, secretary.

**CHICAGO.**—Horticultural Society, Armory, 1001 Front Street, Chicago, November 25, W. N. Rudd, Room 302, 185 Dearborn street, manager.

**CLEVELAND.**—Ohio Florists' Club, November 24-25 inclusive. G. A. Titon, 35-57 Woodland avenue, secretary.

**INDIANAPOLIS.**—Indiana Florists' Association of Indiana, Tompkins Hall, November 24-25 inclusive. R. A. McKean, Gardard Park, secretary.

**LOUISVILLE, KY.**—Kentucky Society of Florists, Hotel Lexington, Louisville, Ky., November 24, W. Jefferson street, secretary.

**MILWAUKEE, Wis.**—Florists' Club, Lincoln Hall, November 24-25 inclusive. A. Klokner manager.

**MORRISTOWN, N. J.**—Morris County Convention Hall, November 24-25 inclusive. W. H. Morris, 2 and 4, W. H. Thomas, Coventry Station, N. J., secretary.

**NEW BRUNSWICK, N. J.**—Bedford Flower Club, under management of Western County Horticultural Society, Opera House, November 24-25 inclusive. H. Spavins, Box 2, secretary.

**NEW BEDFORD, MASS.**—Gardeners and Florists' Club, Adelphi Park, November 4-6 inclusive. A. J. Felt, secretary.

**NEW YORK.**—American Institute (Horticultural Section) Madison Square Garden, September 27, October 30 inclusive. James W. Withers, Box 1897, superintendent.

**PHILADELPHIA.**—Pennsylvania Horticultural Society, Horticultural Hall, Broad street, November 24-25 inclusive. David R. Rye, secretary.

**PORTCHESTER, N. Y.**—The Westchester County Gardeners' Association, Port Chester, New York, November 5 and 6. A. Grierson, Rye, N. Y., secretary.

**PORTCHESTER, N. Y.**—Dutchess County Horticultural Society, Armory, November 3, 4 and 5. Wallace G. Gomersal, Fishkill-on-Hudson, N. Y., secretary.

**PROVIDENCE, R. I.**—Rhode Island Horticultural Society, Music Hall, November 11-13 inclusive. W. W. Smith, 61 Westminster street, secretary.

**SAN FRANCISCO, CAL.**—California State Florists' Association, Emory E. Smith, manager.

**SPRINGFIELD, MASS.**—Hampden County Horticultural Society, International Chrysanthemum Exhibition, November 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31. William F. Gale, 381 Main street, manager, of exhibition.

**TORONTO, ONT.**—Gardeners and Florists' Association, The Pavilion, November 10-13 inclusive. H. H. Carter, 260 Gerard street, East, secretary.

**WACO, TEX.**—Waco Florists' Society, November 10-12 inclusive. Mrs. M. B. Davis, secretary.

**WORCESTER, MASS.**—Worcester County Horticultural Society, November 24-25, 26, 27, 28, 29, 30, 31. A. H. Bacon, Worcester, Mass., secretary.

**CHRYSANTHEMUM SOCIETY OF AMERICA.**

The committees judging new seedlings will be in session October 9, 23, and 30; November 6, 20, and 27. Exhibitors should make their entries (with a few of the charged or new variety exhibited) to the secretary, not later than Tuesday of the week the hibernal meeting is held.

Blooms forwarded to any of the following addresses, express prepaid, will receive prompt consideration:  
 Boston.—A. H. Fewkes, Horticultural Hall.  
 Philadelphia.—Eugene Dailledonne, care of Dr. F. M. Hexamer, Madison Square Garden.

Philadelphia.—Edwin Lonsdale, 1514 Chestnut street.  
 Cincinnati.—W. H. Wittetstetter, corner Bond and Walnut streets.

Chicago.—W. N. Ridd, room 202, 185 Dearborn street.

**SEPTEMBER CUP.**  
 The Chrysanthemum Society's Silver Cup, to be offered annually, will be awarded to the best six varieties, six blooms each (36 blooms.) The first cup will be competed for October 21 at New York. Competitors should forward their blooms to Dr. F. M. Hexamer, Madison Square Garden, New York City, express prepaid. Competition is open to all. No prize money. Those desiring particulars should address Elmer D. Smith, secretary, Adrian, Mich.

**CATALOGUES RECEIVED.**

W. W. BARNARD & Co., Chicago.—Catalogue of Bulbs, Seeds, Florida Plants, etc.

JAMES GREIFER, Cincinnati, Ohio.—Price List of Wire Floral Design.

CORSAK & JOSEPH, West Grove, Pa.—Catalogue of Bulbs, Roses, etc.

LOVELL CO., Little Silver, N. J.—Illustrated Catalogue of Trees and Plants.

SAMUEL C. MOON, Morrisville, Pa.—Catalogue of Trees, Plants, Shrubs, Vines, Fruit Trees, etc.

PETER HENCKENSOFF & Co., New York.—Illustrated Catalogue of Bulbs, Plants, and Seeds for Autumn planting.

**CHRYSANTHEMUMS.**

Cut flowers will soon be here in larger numbers and varieties, and it is well to look after receptacles for them. I find that a glazed drain the answers first rate for storage purposes.

It is decidedly better to keep flowers in water 24 hours after being cut than to send them to market directly by the florist. It is better to have them where varieties are kept for exhibition they will have to be kept in storage for a week or more. When that happens water should be supplied every day and the plants should be cut occasionally. Try to put no more than six flowers in one vase; have the blooms stand straight up and give them plenty of air and among them. Under no circumstances subject them to draughts. A cool, clean cellar is the best place for them.

Glory of the Pacific ought to be right by the time you read this and Elvena and Golden Trophy will be in close after it, followed by such varieties as Mrs. H. Robinson, George S. Conover, and George Washington.

Pot plants will soon be that the stalks and tied into shape, so that the form will be all right before they are in bloom. Use just as few stalks and as little tying material as possible. Of course it is necessary to water them.

Now is a good time to make selections of pot plants for another year. I will name a few of the varieties among the newer ones, for this purpose, in a few

weeks. The present year has brought out more for such a use than we ever had before, and the result is a very large quantity of an increased number of dwarf groups of plants to grow on the variety that grows low, and five feet in height will never answer for a pot plant.

THOS. HOCK.

**QUESTION BOX.**

OPEN TO ALL. FEES TO ALL. Answers Solicited from Those Who Know.

(149) Steam or Hot Water Heating.—Which do you consider the best and cheapest for heating greenhouses—hot water or steam? We have 1000 feet of glass with a southern exposure and grow principally roses, carnations, violets, and bulbous stock.—MRS. F. L. FORD, Co.

Nearly all florists agree that for a single small greenhouse hot water is preferable to steam, but for large ranges of from 7,000 feet and upward, they are about equally divided between steam and hot water. Usage, modern greenhouse boilers and small wrought-iron water or steam? We have 1000 feet of glass with a southern exposure and grow principally roses, carnations, violets, and bulbous stock.—MRS. F. L. FORD, Co.

To sum up, my own choice for less than 2,000 feet of glass would be hot water with an elevated open tank and overhead flows, although the latter would by no means require less equipment than steam, and my experience has been that with a properly arranged system of piping it is rather more economical fuel.

To sum up, my own choice for less than 2,000 feet of glass would be hot water with an elevated open tank and overhead flows, although the latter would by no means require less equipment than steam, and my experience has been that with a properly arranged system of piping it is rather more economical fuel.

They must be fresh to be good, or NICOTINE in dried up kind; nicotine kills Aphids. . . . Good kind, 75c. per 100 lbs.

Bales Weigh 500 lbs. each.

H. A. STOOFFHOFF, 315 MADISON AVE., N. Y.

**S. B. S.**

IT KILLS GREEN FLY AND RED SPIDER : : :  
 IT IS MORE EFFECTUAL THAN TOBACCO STEMS : : :  
 IT IS MORE ECONOMICAL THAN TOBACCO STEMS : : :  
 IT IS A SURE KILLER OF ALL GREEN AND RED : : :  
 IT NEEDS NO FUMIGATOR TO BURN IT IN : : :  
 100 Pounds in Case \$2.75 on cars N. Y. C.  
 10 Pound Sample Drums by Express, 75c.

H. A. STOOFFHOFF, 315 MADISON AVE., N. Y. C.

L'Assommoir.

This week the curtain rings down on the final act in the very serious drama of the firm known from end to end of this country...

To a gentleman a decade ago possessed of ample wealth and with a more than usual knowledge of the florists' and fine plants, the establishment owed its inception and its consequent wonderful development...

Some day, not far remote, possibly, Dame Fashion may create the necessity for a dozen just such extensive plants...

That day will come, and many now fly to the rescue of the firm of James H. Pitteiler, we feel sure, when it is generally known that the enterprise had absorbed...

Strong efforts had previously been made to save the business by changing the nature of the product, and the stock of a more commercial character...

The sale was held on the premises, beginning at 10 o'clock, and continued until Thursday, October 7, with Mr. John P. Cleary as auctioneer...

The sale, as a whole, was a surprise to many, inasmuch as it had been predicted that the piling of so much stock on the market...

Small ferns of other sorts, on the whole, sold cheap, figures varying from \$1.50 to \$5 per 100; large ferns were sold, so that stock is widely distributed.

The prices that were obtained for stove and greenhouse plants surprised all who attended. This was largely due to the fact that the stock was hardly resold...

Several amateur buyers purchased small lots. It was in palms that the real genuine surprise came. Enormous as was the quantity of the stock...

Adelwald the Woodman Company, Evergreen, Ala., are issuing a very handsome illustrated catalogue of "South Florida Plants"...

five-hundred stock rearing 838, 840, and \$60 per 100. Another lot of 740 plants in two-inch pots fell to Julius Roehrs for \$100...

Early chrysanthemums are now becoming plentiful, but it appears that the day of the fancy plants has passed...

W. J. Habermehl's Sons are very busy with their department of florists' goods...

The meeting on Tuesday last was a banner one in point of attendance; it was the annual meeting and election of officers...

A Fire Insurance Question. Editor Florists' Exchange: With reference to the question I would like to answer the following pertinent question in your columns:

Why is it that fire insurance requires the guarantee of so much more business than did the Hall Association upon its organization...

Not Fulsome Advertisers! Nine years ago, Mr. A. T. De La Mare of New York, started a very modest little florists' publication...

A Handsome Catalogue. Caldwell the Woodman Company, Evergreen, Ala., are issuing a very handsome illustrated catalogue of "South Florida Plants"...

Sander's New Plants for 1897. This is a neat pamphlet of 28 pages containing an enumeration of the novelties offered by E. Sander & Co., St. Albin, France...

Handwritten notes and signatures at the bottom of the page.

CHANGES IN BUSINESS.

There has not been any perceptible change in business during the past week. All kinds of plants continue to sell well; the quality is daily improving...

Early chrysanthemums are now becoming plentiful, but it appears that the day of the fancy plants has passed...

W. J. Habermehl's Sons are very busy with their department of florists' goods...

The meeting on Tuesday last was a banner one in point of attendance; it was the annual meeting and election of officers...

A Fire Insurance Question. Editor Florists' Exchange: With reference to the question I would like to answer the following pertinent question in your columns:

Why is it that fire insurance requires the guarantee of so much more business than did the Hall Association upon its organization...

Not Fulsome Advertisers! Nine years ago, Mr. A. T. De La Mare of New York, started a very modest little florists' publication...

A Handsome Catalogue. Caldwell the Woodman Company, Evergreen, Ala., are issuing a very handsome illustrated catalogue of "South Florida Plants"...

Sander's New Plants for 1897. This is a neat pamphlet of 28 pages containing an enumeration of the novelties offered by E. Sander & Co., St. Albin, France...

Handwritten notes and signatures at the bottom of the page.

CHANGES IN BUSINESS.

ARLINGTON, R. I. - S. H. North has closed the greenhouse here formerly run by William Hay.

WALSH, IND. - Alonzo Ush has opened a florist's establishment here.

RUTLAND, MASS. - Dennis A. Smith has erected a commercial greenhouse here, and will start in growing carnations by William Hay.

LOCKPORT, ILL. - The Morris Floral Company has been organized and will conduct a florist's business in Morris, W. H. Murphy, of this place, is its vice-president.

A Business that Pays.

A well paying business is something that every business man longs to own. It is the height of ambition of those in every line of trade, from the office boy up. It takes many years to build up such a business...

PEARL GARDENS.

Victor and other good ones, 3 in. 43 per 100. Begonia Emilia, 2 in. 47 1/2 per 100. Lilies and other good ones, 3 in. 43 per 100. Winger and other good ones, 3 in. 43 per 100. Primulas, best, 2 per 100. Winger and other good ones, 3 in. 43 per 100. Cash with order.

JOHN G. EISELE, 20th & Ontario Sts., Phila. Pa. When Writing Mention Florists' Exchange

GERANIUMS.

Five plants from 2 in. pot, in 10 varieties, \$2.00 per 100. Cash must accompany order. Also BERRY PLANTS for sale. Address Mrs. ISRAEL FRANTZ, Vice Greenhouse, Box 180, SPRINGFIELD, OHIO. When Writing Mention Florists' Exchange

PETERS FERNS.

In variety, from 2 1/2 to 3 in. pots, ready to ship, \$2.50 per 100; \$1.00 per 500; to make orders. B. Evans, Ottawa, Ont., plants, \$25.00 per 100.

JOHN C. URE, EVANSTON AVE. STATION X, CHICAGO, ILLINOIS. When Writing Mention Florists' Exchange

FOR SALE.

My experience as a grower of the finest sweet peas, now in the time to prepare for next season's seed, has led me to try the new florists' seed. I have had full particulars of the seed from the Horticultural Exhibition, and have addressed to the culture of sweet peas under glass and in the open air. The price is \$1.00 per 100. Thereafter all correspondence free for one year. S. A. M. HAMILTON Sweet Pea Expert, Roaring Spring, Pa.

HORTICULTURAL EXHIBITION.

COMPETITION FOR ROSES.

Monday, Oct. 11, and Thursday, Oct. 14. BLOOMS TO BE STAGED BY 2 P. M. EACH DAY.

CUT ROSES.

Best 12 blooms of Am. Beauty... First \$2.00 \$4.00. 25 " " Aristocrat... 6.00 4.00. 25 " " K. Augusta... 6.00 4.00. 25 " " Mrs. W. G. Wood... 6.00 4.00. 25 " " Belle Siebert... 6.00 4.00. 25 " " Meteor... 6.00 4.00. 25 " " Free and Easy... 6.00 4.00. Address J. W. WITHERS, Newport, Madison Square Garden, Supt., When Writing Mention Florists' Exchange

### Wm. J. Hesser's Palms.

Our illustration shows a shipment of palms made by William J. Hesser, of Parkersmouth, Neb., to the Board of Park Commissioners at Omaha, Neb. Mr. Hesser offered the plants when he used last season to decorate the Trans-Mississippi and International Exposition.

### Cleveland.

#### Trade Improving.

A gradual improvement in store trade is reported by all stockeepers. Stock, though limited in variety, is greatly improving in quality. House-grown roses, which a few weeks ago were very poor, have shown a marked improvement, and at this writing large quantities of very best grade are offered. Prices, however, have not changed and best stock brings from 75c. to \$1 per dozen at retail. Carnations show no advance in price, though stocks are much better than they were at previous writing, still retailing at 25c. to 35c. a dozen. Gladioli are about gone.

### St. Paul.

#### Hot Weather Affects Trade.

With such midsummer heat as we have had for the past fortnight, trade has not been very lively. Funeral work has been as good as, or better than, usual, but other lines are dull. Even fall weddings are not as numerous as of yore.

Cut flowers are abundant and good. The first crop of roses is now coming in, the quality good and the quantity proportionate to the weather. Carnations are also abundant and of good quality, the demand being about equal to the supply. Outside stock is dead and dying. Sweet peas are still coming in in small quantities, as are dahlias and gladioli.

There is a good demand for small flowers and ferns. They sell readily, and are frequently called for. There is also a nice trade in bulbs, jardinières, etc., for those who handle them. If more of the growers would solicit bulk orders for fall planting, a nice trade might be had

the more recent visitors were H. A. Buayard, Short Hills; C. Ford, Jr., of A. Herraun, New York; and J. A. Shaw, of Siebrecht & Sons, New York.

VERTAS.

### Ottawa.

A hasty visit to the exhibition last week showed that the Ottawa Florists and Horticulturists were still up to the standard. The leading features were palms, ferns, and groups of ornamental plants from Sorley & Sims, Graham Bros., A. French, and others. In cut flowers Graham Bros., C. Serin, and A. French were the leading exhibitors. In the amateur classes were some very fine exhibits of sweet peas worthy of special notice.

A visit to Strim's establishment showed everything in first-class shape; roses, especially Meteor, being in fine condition. Chrysanthemums were looking exceedingly well. A fine lot of pot plants give promise of an exhibition such as we have never seen before in this section of the country. Carnations were planted out in permanent quarters in the Spring, and the roof was being put over them at the

### Springfield, Ill.

At the State Fair here, held the past week, the competition in fruits and flowers was largely in the hands of the florists of Springfield. The arrangement of palms and other ornamentals was very effective, and some groups would compare favorably with the exhibits at the Fall show in Chicago. In cut flowers the dry weather and heat were responsible for some poor exhibits, still on the whole there was a very creditable display. There was a number of entries and considerable competition.

Brown & Canfield took firsts for collection of stove and greenhouse plants; six palms, twelve ferns, one fern of any kind; and in cut flowers, first by Beauty, Meteor, Bridsalmon, and six varieties of roses. They were also first for funeral design, and dinner-table arrangement. Louis Funerget also took a number of firsts for plants and cut flowers. V. H. Lightfoot won first honors for tea canons; H. F. Falkley for geraniums and begonias; M. S. Hiler was also a prize winner in the classes for roses and carnations; D. A. Hiltner, another very successful gentleman was also successful in the classes for dianthus, dahlias, asters, and petunias. Many florists are looking for collections of annual and heliopsis phlox and verbenas.

### Syracuse, N. Y.

The housing of carnations has been greatly retarded by the dry weather experienced in the early part of the month. Last week a splendid rain fell, and the work has been quickly rushed to completion. The plants are in fine shape, some being remarkably strong.

Trade has picked up considerably since the first of September. Roses are always in demand here; at the present time there are scarcely enough to go around, although good crops are being cut.

The parade on October 12 to celebrate the semi-centennial of the city has assured fact. The Central New York Horticultural Society will be well represented by a grandly decorated float. The Society will also take advantage of this opportunity to advertise the coming chrysanthemum show.

A house of Perles and Sunset at P. R. Quinlan Co.'s greenhouse is a grand sight. The grower has all the trim and without a blemish.

L. E. Marquise has better roses than ever before. His President rose being unusually good. Present Carnot rose is giving great satisfaction, and will undoubtedly be extensively grown next year.

For some reason or other carnations are slow to recuperate after planting the present lot. Those that were planted early are, however, doing well.

The wedding of Frank Marlow was a pretty affair, the house of the bride's parents being lavishly decorated with carnations. Mr. Marlow is a member of the Horticultural Society, and an enthusiastic amateur chrysanthemum grower.

E. D. Wheaton, of Little Falls, N. Y., has just returned to that city after a pleasant visit to his son, W. Wheaton, of this city.

Frost has appeared several nights recently, but no lawn tender, and no exposed locations. C. BANSON.

### New Orleans.

The strict quarantine system is causing great depression in business here. The florists can ship only by mail. Although shipping is slow, it is sufficient to get enough to bring all kinds of business to a standstill. H. P.

### Dubuque, Ia.

William Springfield committed suicide Monday last, by shooting himself in the head. He had been in business here for 20 years. He had not been feeling well lately, otherwise no cause can be assigned for his rash act. He was 60 years of age.

### Jackson, Mich.

On September 20 fire broke out in the boiler room at Lee & Co.'s greenhouse on Grand avenue, and the building was entirely destroyed. A new greenhouse, just erected, was also badly damaged. The firm estimates the loss at \$50,000, and their loss will reach \$300 to \$500. The origin of the fire is a mystery.

### PLATSMOUTH

Shipment of Palms made by Wm. J. Hesser, Plattsmouth, Nebraska, to Park Commissioners of Omaha. Palms will be used at Omaha Exposition next year.

spikes are very short and are used mostly in making up funeral work.

Some violets were seen, but these were from out of town. Some valley is offered, retail price being 75c. to \$1 per dozen.

Chrysanthemums are assuming a place of prominence, and as the retail prices become lower, they will become more popular. They bring \$2 and \$3 per dozen at retail, and a number of varieties are now offered among them by Messrs. Marquise, Montmort, M. M. Bergmann, Marion Henderson and Kate Robson.

#### Bowling Club.

The following officers were chosen for one year at a meeting on Monday evening: President, S. N. Pentecost; secretary, A. H. Graham; treasurer, H. A. Hart; captain, William Strade. After adjournment the balance of the evening was spent in bowling. The highest individual score was made by H. Kutz, 153 points being made in five frames. Any member of the Florists' Club can become a member of the Bowling Club upon payment of one year's dues—\$3.

#### Notes.

Evel Ann, Glenview, has two houses of chrysanthemums that are in splendid condition and promise good returns. Mr. An is now cutting *Marquis-de-Montmort*. The Cushman Gladiolus Co., Euclid, O., are harvesting gladioli bulbs; much of the new stock is now under cover. The bulbs are in good condition, sound and clean, but somewhat smaller than usual, the result of the long-continued drought in this section. Present weather is very favorable to the harvesting of all bulbs. Dry weather still continues and vegetation is suffering badly in all sections around here. We have had but one shower in the past six weeks and a good rain would be welcomed by everyone. G. A. T.

in that line, and hundreds of homes be embellished in the early spring.

#### Crop Conditions.

The growers have all been busy housing carnations and violets, potting bulbs, etc., picking chrysanthemum buds and making necessary repairs before winter sets in. Stock in general is in the best of condition, and should give all abundance of bloom. In roses, *Bride*, *Bridsalmon*, *Meteor*, *Testum*, *Heart*, *Perle*, *Wootton* and *Beauty* are the most generally grown. *Belle Siebrecht* has done well with some. I. L. May & Co. have put in a house of this variety and claim good staying qualities for it. For the counter trade, it ranks next to *Beauty*.

Carnations in this section have made an exceptionally good growth this season, and consequently more are being planted this fall than usual. *Dryad* and *Scot* are the leaders, with *Silver Spray*, *McGowan*, *Portia*, *Garfield*, etc., as second choice. *Rust* is unseason and known this season. Nature itself, with a plentiful supply of moisture and other necessary elements of cultivation, seems to eradicate this disease more effectually than all other remedies combined.

*Calliopsis* and *Calliopsis* is being housed. *Marie Louise* is principally grown here. *Calliopsis* is being planted quite sparingly, probably on account of its being later. However, I predict a bright future for this grand flower.

The May Co. have taken possession of their new quarters on Sixth and Minnesota streets. The Sixth st. store is devoted to the cut flower business. A description of this place will be given later.

The travelers are coming and going all the time, and almost without exception report increased sales. Among

time of our visit. They were looking well. A nice lot of young ferns is being grown from home-raise stock. Young ferns for dishes, jardinières, etc., were also in evidence, as was the veteran *Meteor*, who seems thoroughly acclimated by this time (to our Canadian climate). At Graham Bros., everything is looking first-rate; roses, carnations, chrysanthemums, etc., being all in the pink of condition. This firm is carrying a fine stock of palms of good decorative size, ferns in all sizes in quantities, and varieties to suit all requirements. They have as fine an assortment of dahlias as ever was brought to her.

J. Ehlers, one of the best gardeners we have had in this section of the country, has left us, and gone to New York to try his fortune on the American side. With his experience and ability, we shall expect to see his name appear before long as an exhibitor at some of the leading shows, as he has already taken high honors on this side of the line. He carries with him the best wishes of all the craft who are acquainted with him. VISITOR.

### San Diego, Cal.

C. R. Orent has returned from a three weeks' visit to Los Angeles. He has talked of some of the leading shows, as he has already taken high honors on this side of the line. He carries with him the best wishes of all the craft who are acquainted with him. VISITOR.

Robt. H. Asher has moved the Bartlett place on Golden Hill between 23d and 25th E and F streets. He will make a specialty of strawberries and cut flowers. The Saate F. R. R. folk are improving the depot grounds at the foot of D street, and propose to have one of the prettiest depot parks in southern California. R. H. A.



J. K. ALLEN, Wholesale Commission Dealer in CUT FLOWERS, 57 W. 28th St., New York. Orders by mail or telegraph promptly attended to. Telephone Call, 357 28th St. ROSES and VIOLETS SPECIALTIES.

W. S. ALLEN, 17 West 28th St., New York. Correspondence Solicited.

J. B. EZECHEL, Wholesale Florist, 42 West 23rd St., NEW YORK. Asparagus, Valley, Carnations, Specialties. Consignments Solicited.

FORD BROS. WHOLESALE FLORISTS, 111 West 30th Street, NEW YORK. Consignments Solicited. Telephone 350 30th St.

WM. H. CUNTER, Wholesale Florist, VIOLETS and CARNATIONS a SPECIALTY. Consignments Solicited. 30 West 29th St., New York. Telephone, 329-38th Street.

MICHAEL A. HART, Wholesale & Commission Florist, 113 W. 30th St., New York. Telephone Call, 1307 28th St. All kinds of Roses, Violets and Carnations a Specialty. ORDERS PROMPTLY ATTENDED TO.

H. A. HOFFMANN, Wholesale Florist 44 W. 29th St., New York. Telephone Call, 1158 28th St. American Beauties, White Violets, Adiantums, Specialties. CONSIGNMENTS SOLICITED.

EDWARD C. HORAN, Wholesale Florist, No. 34 W. 29th St., New York. The Bride, Mermot and American Beauty, Specialties.

JULIUS LANG, Wholesale Florist 53 WEST 30th ST. Consignments Solicited. NEW YORK.

MacDonald & McManus, Wholesale Florists AND DEALERS IN CUT FLOWERS. 50 W. 30th St., NEW YORK. Solicit shipments of Cut Flowers on Commission. Best market prices guaranteed. Telephone, 377-58th Street.

When Writing Mention Florists' Exchange



Telephone Call, 723 19th. When Writing Mention Florists' Exchange

A. L. VAUGHAN.

ERNST C. ASMUS Wholesale Florist. ROSE SPECIALTIES: Am. Beauty, Bride, Mid. Maiden, Testout. K. A. Victoria, etc. VIOLETS, ORCHIDS, CHRYSANTHEMUMS AND CARNATIONS. Grower of the only VALLEY receiving a World's Fair Medal. Special attention given to shipping orders. N.Y. CUT FLOWER CO. 119-121 W. 23rd St., 112-114 W. 24th St., N.Y.



CHAS. W. MCKELLAR. E. F. WINTERSON

VAUGHAN, MCKELLAR & WINTERSON, WHOLESALE COMMISSION JOBBERS. In Cut Flowers, Plants, Bulbs, Seeds, Xmas Holly, Bouquet Green, and all Florists' Supplies. Manufacturers of Wire-work. 45, 47, and 49 WABASH AVENUE, CHICAGO, ILL. When Writing Mention Florists' Exchange

Wholesale Prices of Cut Flowers

Table with columns for City (New York, Boston, Philadelphia, Chicago, St. Louis) and various flower types (A. Beauty, No. 1, etc.) with corresponding prices.

For Prices of Fancy and Special Stock see our Correspondence Columns. Prices are for quantities of one hundred unless otherwise noted. Prices quoted above are given only after very careful inquiry, and while we do not guarantee their accuracy, they will be found practically correct up to the date mentioned.

REINBERG BROS., Wholesale Growers of Cut Flowers. 500,000 Feet of Glass.

We can fill all orders on short notice with all leading varieties of ROSES and CARNATIONS. We are headquarters for fine AMERICAN BEAUTIES. Give us a trial and convince yourself. SALESROOM 51 Wabash Avenue, Chicago, Ill. When Writing Mention Florists' Exchange

EDWARD REID, Wholesale Florist, 1526 Ranstead St. Near City Hall, PHILADELPHIA. When Writing Mention Florists' Exchange

FACILITIES FOR HANDLING CUT FLOWERS.

STOCK HANDLED.

STOCK SHIPPED.

CONSIGNMENTS SOLICITED.

CITY HALL CUT FLOWER MARKET 15 Province St. and 9 Chapman Place, WELCH BROS. (Long Distance Telephone 2071), Boston, Mass.

New England headquarters for Choice Chrysanthemums, American Beauties, and other varieties of Roses, Carnations, Violets, etc. Orders can be filled promptly from the produce of sixty-five growers, if not all telegraph. Hardy Ferns, Southern Smilax, Galax Leaves, always on hand. When Writing Mention Florists' Exchange

FRANK MILLANG, Wholesale Commission Dealer in Cut Flowers. 408 East 34th St., New York City. Cut Flower Exchange. Telephone Call, 164-38th.

THE NEW YORK CUT FLOWER CO. 119-121 West 23d Street, 112-114 West 24th Street, Telephone 723-15th. NEW YORK. Consignments Solicited. Special Attention Given to Shipping Orders.

PURDY & BLAUVELT, Wholesale and Commission Dealers in CUT FLOWERS. MAINESEAN FEEN FENDS a SPECIALTY. 57 WEST 30TH STREET, East Broadway & 6th Ave. NEW YORK.

F. A. ROLKER, WHOLESALE DEALER IN CUT FLOWERS 53 West 28th Street, Telephone 2379 38th St. NEW YORK.

W. F. SHERIDAN, Wholesale Commission Dealer in CUT FLOWERS 39 West 25th St., New York. Telephone, 21-8th St. PRICE LIST SENT ON APPLICATION.

FRANK H. TRANDY, CHARLES SCHENCK, TRAENDY & SCHENCK, Wholesale Florists, 38 W. 28th St. and CUT FLOWER EXCHANGE, NEW YORK. Telephone 981-18th St. Consignments Solicited.

JOHN YOUNG, Wholesale Florist, 51 WEST 28th ST., NEW YORK.

KENNEDOTT BROS. COMPANY, Wholesale - Cut - Flowers, 88 Wabash Avenue, CHICAGO, ILL. WIRE WORK a SPECIALTY.

ROGERS PARK FLORAL CO., Wholesale Growers of Cut Flowers OFFICE AND SALESROOM, 41 WABASH AVE., CHICAGO. Headquarters for AMERICAN BEAUTIES.

ILLINOIS CUT FLOWER CO., J. B. DEAMUD MANAGER. Wholesale Commission Florists, 51 Wabash Ave., - CHICAGO. When Writing Mention Florists' Exchange

**Wholesale Florists**  
 ALWAYS ON HAND:  
 CARNATIONS,  
 ROSINGERS,  
 BRIDES.

**JOBBERS IN  
 FLORIST'S  
 SUPPLIES.**

**FLORISTS' VASES.**  
 Horticultural Auctioneers.  
 84 HAWLEY STREET, BOSTON.

**GEO. A. SUTHERLAND,**  
 SUCCESSOR TO WM. A. STEWART,  
**CUT FLOWERS and FLORISTS' SUPPLIES  
 WHOLESALE.**  
 67 Bromfield St., Boston, Mass.

**WM. J. BAKER,**  
**Wholesale Florist**  
 1432 So. Penn Square,  
 Philadelphia, Pa.

**DUMONT & CO.,**  
**WHOLESALE FLORISTS**  
 CARNATIONS A SPECIALTY.  
 No. 1305 Filbert St., Philadelphia.

**S. FROWERT,**  
**Wholesale Florist,**  
 17 North 13th Street,  
 PHILADELPHIA, PA.  
 Commitments Solicited. Special Attention Given  
 to Whipping Orders.

**EDWARD REID,**  
**Wholesale Florist**  
 1526 RANSTEAD STREET,  
 Bet. Market & Chestnut Sts., PHILADELPHIA.  
 All **CUT FLOWERS** in Season.  
 Phone 3066 A.

**CHRYSANTHEMUM SHOW** at SPRINGFIELD,  
 MASS.

**NOVEMBER 10, 11, 12.**

We invite entries from every State in the Union and from Canada for  
**SECTION E.**—25 blooms of Chrysanthemums of 5 distinct named varieties (5 blooms each) open to every State and Territory in the Union, also to all the Canadian Provinces. The best 25 blooms from each will be awarded \$10. These exhibits from the several States and Provinces are also to compete with each other for a **Capital Prize of \$25.** Your entry may win the capital prize or at least the prize for your State.

**SECTION F.**—Includes \$25 for best seedling. Class 258 is a **Silver Cup** valued at \$25, for Carnations, offered by C. W. Ward, Manager Cottage Garden.

Let us have your entry early. For schedule and entry address  
 W. P. GALE, Secretary, The Hampden County Horticultural Society.  
 When Writing Mention Florists' Exchange

**WINTER & GLOVER,**  
**WHOLESALE COMMISSION FLORISTS,**  
 19 & 21 RANDOLPH ST., CHICAGO.  
 Special Attention Paid to Shipping Orders.

WRITE US FOR ILLUSTRATED CATALOGUE OF WIRE DESIGNS.  
 When Writing Mention Florists' Exchange

**WM. C. SMITH,**  
**Wholesale Florist,**  
 40 S. 16TH ST.,  
 PHILADELPHIA.  
 Roses, Carnations, etc. Commitments Solicited.

**Buffalo Cut Flower Exchange**  
**WHOLESALE COMMISSION.**  
 COMMITMENTS SOLICITED.  
 481 Washington St., BUFFALO, N. Y.  
 Telephone, Seneca, 1306.

**C. A. KUEHN,**  
**WHOLESALE FLORIST,**  
 1122 Pine St., St. Louis, Mo.  
 A COMPLETE LINE OF WIRE DESIGNS.

**MAX RUDOLPH,**  
**Wholesale Florist**  
 All Seasonable **CUT FLOWERS.**  
**FINE ROSES.**  
 Shipping orders a specialty. Commitments Solicited.  
 11 W. 12th St. CINCINNATI, O.

**C. W. WORS,**  
**Wholesale Florist,**  
 313 N. LEFFINGWELL AVENUE,  
 ST. LOUIS, MO.  
**FINE ROSES**—Shipped carefully to all parts of the country.

**H. L. SUNDERBRUCH CO.,**  
**Wholesale Commission Florists,**  
 4th and Walnut Streets,  
 CINCINNATI, OHIO.  
 Commitments Solicited. Special Attention Given  
 to Shipping Orders.

**HEADQUARTERS** in Western New York. Try us  
 ROSES, CARNATIONS AND  
 ALL SEASONABLE FLOWERS.  
**W.M. F. KASTING,** Wholesale  
 495 Washington Street,  
 BUFFALO, N. Y.  
 Also Dealer in Florists' Supplies & Wire Designs

**CUT FLOWERS**  
 For Week of October 10th.  
 WE QUOTE YOU AS FOLLOWS  
 P. & D. COST.

American Beauties, short	Per 100	\$4 00 to \$6 00
"    "    medium		7 00 to 10 00
"    "    select		12 50 to 25 00
Brides and Maids		3 00 to 4 00
Meteors and Perles		3 00 to 4 00
Carnations		1 00
"    selected		1 25 to 1 50
Cosmos		1 50
Valley		4 00 to 5 00
Asparagus		50 00 to 60 00
Smitax		12 50 to 15 00
Adiantum Ferns		60 75
Common Ferns, \$2 per 1000		25

And all flowers in season at  
 Lowest Market Prices.

**GIVE US A TRIAL ORDER.**  
 Above prices subject to change  
 without notice.  
 Send us your name and address  
 if you wish our regular weekly  
 quotations.

Respectfully yours,  
**KENNICOTT BROS. COMPANY,**  
 88 Wabash Ave., CHICAGO.  
 (See our other Advertisement in this  
 same issue.)  
 When Writing Mention Florists' Exchange

**First Class AMERICAN BEAUTIES**

High grades of this Rose are our specialty. We handle the entire stock of several of the best Philadelphia growers and guarantee our first selection to be the very best in the country.

**CARNATIONS.**

The largest stock of choice Carnations in the country passes through our hands, comprising all the best commercial varieties

**CHRYSANTHEMUMS.**

Throughout the season we will have a large stock of all leading varieties. Can fill orders for any quantity

**LILIES OF THE VALLEY**

Lilies of the Valley by the thousand all year 'round. Also a large assortment of all other flowers in season.

Packing is a special feature and all orders receive the greatest care so that Flowers may arrive in the best condition at all seasons. Our new style shipping boxes give the best possible results.

Telephone (long distance 5210), telegraph, write, or call and inspect our stock personally.

**SAMUEL S. PENNOCK, Wholesale Florist, 1612-14 Barker St., Phila., Pa.**

When Writing Mention Florists' Exchange

## SITUATIONS WANTED.

Rate 10 cents per line (3 words), each insertion. Total with order. This applies only to situation wanted advertisements and when set sold without display. When set sold at additional cost one rate and 10 cents to cover expenses of forwarding.

CUT flowers, palms, fern specialties, large, fine assortment, suitable for all occasions. Wholesale prices. Retail florist and salesman. J. H. Wilson, 316 Jones Ave., Burlington, N. J.

SITUATION wanted, by single man; references as to home growing; American florist specialty; New York state preferred. Address Thomas A. Savan, 37 Albany St., Syracuse, N. Y.

SITUATION wanted as stenographer; by a young woman with a practical knowledge of the florist's business; and who can furnish satisfactory references. Address Stenographer, care Florists' Exchange.

SITUATION wanted; young man, German, to take charge of greenhouse; roses, carnations and foliage plants; best of references; 15 years' experience in Kultur, care of Kitchin's seed store, 108 Market St., Philadelphia, Pa.

SITUATION wanted, by an all-around florist and decorator, in a private or commercial place; good filler of designs and decorator; American; middle aged; can furnish first-class references. Address P. O. Box 61, Union City, Pa.

SITUATION wanted by a young man, in greenhouse or store; 10 years' experience in all kinds of floral work; 18 years' experience in all kinds of florist and plant trade; age 37; married; abstinent; distance no object; good salary; references; send photo; J. Davis, 3013 1/2 Street, Philadelphia, Pa.

SITUATION wanted, by a thorough, practical, experienced florist and gardener. He is green-house grower, roses, violets, carnations, Easter-plants, palms, ferns, bedding stock, chrysanthemums, etc. Good knowledge of flowers and propagation; English; age 33, total abstinence, 17 years in floriculture; references; send photo; J. Davis, 3013 1/2 Street, Philadelphia, Pa.

Advertiser seeks situation to small growing concern, retail or wholesale, with intention of taking part over on easy terms. Business, Box 27, Madison, N. J.

## SITUATION WANTED

By young florist, commercial, or private place, by act of November, Address E. WOLBERT, Experiment Burlington, Vt.

## HELP WANTED.

NOTICE!  
The position as foreman for J. A. Peterson, Cincinnati, O., has been filled.

## WANTED.

A single man, to set as night foreman during the winter months, in a commercial place; must have a knowledge of vegetable gardening in order to secure a Summer position; must be sober, honest and industrious and come well recommended by previous employers. Address E. KOFFMAN, Walden, Orange Co., N. Y.

## WANTED.

Experienced man, who understands watering plants. P. O. Box 41, MORRIS, Ill.

## MISCELLANEOUS WANTS

## WANTED.

Prices on NERSEY STOK, Roses, strong Shrubs, Trees.  
HERMAN HELM,  
5839 Ellsworth Avenue, Pittsburgh, Pa.

## BUSINESS OPPORTUNITIES

## FOR SALE.

A few shares of stock in this Company are offered for sale by parties in need of ready money. For particulars address  
A. T. DE LA MARE, Pres't.,  
P. O. Box 107, New York.

## BUSINESS OPPORTUNITIES

FOR SALE—Fruit Farm, 16 acres; Pomona, N. Y., on P. R. R. line; extensive walk from station; half laid in Apples and fruit half farm land; buildings good; location for greenhouses. Mrs. J. C. Johnson, P. O. Box 10, Pomona, Chester Co., Pa.

## FOR SALE

Florist store in live city of 30,000 inhabitants in New York State, doing a good general business and also a special line in prepared plants.

A. A. care Florists' Exchange.

## FOR SALE.

Florist store doing a high grade of business. Established 9 years, in one of the best locations of this city. Easy terms; can give good reasons for selling.

W. W., care Florists' Exchange.

## FOR RENT.

With privileges of buying, seven greenhouses; full stocked, doing paying business; house, barn and six acres land; an excellent opportunity. Address

FRANK J. BRUSCOTT,  
Station 23, Philadelphia.

## FOR SALE.

Greenhouses, in one of the best cities in Wisconsin. A good investment and a money maker for a business man. Must refer on account of poor health; for particulars write ELLIS & POLWORTH, MILWAUKEE, Wis.

## FOR SALE

AT A GREAT SACRIFICE.

Three (3) fully equipped, iron frame greenhouses and stock. Hightings build and boiler, a lively and growing seed store. Address, Box 643, Asbury Park, N. J.

## A Rare Opportunity.

FOR SALE—\$150,000, on Broadway, between 31st and 32d Street, opposite one of the most prominent hotels in New York, a property profits from \$100,000 to \$100,000. Will dispense of same very reasonably; rent very low; reasons for selling—illness; must refer to my entire team.

J. F. WEISCHMAN,  
Broadway and 26th Street, NEW YORK.

## FOR SALE.

Half interest in a greenhouse plant worth over \$500, a fine location near Springfield, Ohio. Post office; two mails a day; R. R. station close by. My partner as a salesman and manager is as good as I am and I save three other persons for my share, as long as I am, I cannot do justice to it and will sell for \$2500. Address

D. M. KISSLEF, Beatty, Ohio.

## FOR SALE—AN ESTABLISHED BUSINESS.

Man of capital or party desiring to organize a company can step into an established and well paying business, known throughout the United States and in many of our other countries. Good will assured. Present owner remains two months' absence. Compelled to sell on account of failing health. The business for next twelve months, with a proper management, should net \$2,000, and by exercising sound, common business sense, same can be increased to \$4,000 per year. Full investigation will be permitted to prospective buyers and all other inquiries may be made. Please address with name particular.  
C. S. LODER, 271 Broadway, N. Y.

## BOILERS FOR SALE!

Two No. 3, Style C, GURNEY HOT WATER DOUBLE CROWN BOILERS, complete with all the fittings, are now being heated in 30,000 square feet of glass for Palm growing. Offering for sale because we are increasing our capacity. These boilers cost \$450 each. We offer for \$300.00 each, f. o. b., Riverton, N. J. Also one Locomotive Boiler, 11 ft. 4 ins. long, fire box 3 ft., 9 ins., by 2 ft., 3 ins., with 28 ft. in. tubes, 6 ft. long, has been used for steam at 30 lbs. pressure. Will sell for \$50.00. Is in good order and ready for service at once.  
HENRY A. DREER, 714 Chestnut PHILA., Pa.

## Buffalo.

## Trade News.

Business hardly keeps pace with the unusual supply of fair and pleasant weather that has prevailed during several weeks. A moderate demand for funeral flowers is being met. The market is with fair call from out of town, recently, a rather light supply of flowers has been received.

Chrysanthemums are here in small numbers, but rather better than last week with Montmore from an eastern grower. A few superb specimens of the 1-11. Hebebeck showed both white and yellow, home-grown. Schlegel & Sons, of Rochester, sent Vivand-Joret and Florence Trel on Tuesday of this week, when David Scott, of Fredonia, supplied some of the same. The flowers were really the finest so far shown, and they promised Yellow Queen a few days later. A travelling wholesale price has been \$1.50 to \$2.50 per dozen.

Roses are still small in size, and can hardly be called plentiful in the general market. Palmer's are having a cutting of the Meteor ample quantity, and fair prices.

Most anything that might be named an aster, regardless of quality, is in demand.

Carnations are decidedly scarce, and violets are not of pleasing quality. Some really good ones were seen.

Conditions for lifting stock have been unfavorably dry, but most of this work has been done. A few frosts, the remainder of approaching cold, on Monday night of last week tended to hasten action in this respect.

## Jettings.

David Scott, of Fredonia, was a caller on Monday, this week. He reports the outlook for grape growers in the market for several weeks has not been encouraging. Low prices and slow sales so prevail that a margin of profit is out of the question. Seemingly it is a matter of but a short time that the fine established vineyards must be replaced by other culture.

George H. Lewis, an ardent flower lover and amateur, died on Saturday, October 1st. He was a devoted and generous supporter, both financially and in choice displays made from his greenhouses, in the Buffalo Florists' Club during certain past years.

W. W. Small of Jamestown, N. Y., was a caller on Monday of this week. Vt.

## Providence.

## The Market.

There has been a slight revival in the cut flower business here during the past few days, and the prospects are that this season's trade will be an unusually good one. Asters which have held the market for several weeks are now on the wane, but in their place come the queen of Autumn, the Rhode Island Greenhouses cutting of first quality, and the 1-11. Farquhar Macrae the day following. Dahlias have found a comparatively easy sale, but this which is so new and of unknown heretofore. The first violets made their appearance last week and are doing a good business. They came from Pawtucket, Warren and Johnston simultaneously. Carnations are continuing good and improving almost daily.

## Round and About.

A. Joseph Reynolds, with E. J. Johnston, has returned from his Summer's occupation in Florida.

Timothy O'Connor furnished the plant and floral decorations at the annual opening of the J. B. Barnaby Company last week.

## Norwich, Conn.

The florists here all seem to be doing a safe business and all carrying a good stock of the leading things. Joseph S. Smith has returned from the city and is on Main street. Alfred Hunt is up to date on all things pertaining to the business. Run a very nice and market things lively. The greenhouses of Gustave Gedulte are still being run by his son, Gustave.

Stephen Crane, of the Norwich Nurseries, is having a big run on California privet. He has been carrying a large shade tree to go to Massachusetts. Mr. Crane has almost doubled the size of his nurseries.

## Pittsburgh.

## Trade Notes.

Several good days the past week helped to boom things a little. Stock is showing a little more demand, especially quality and quantity. Chrysanthemums are rather too plentiful already, and as a result of this, the market is being run down to as low as \$1 per dozen for good blooms. The varieties mostly seen so far are the following: Indiana, Duke of Gloire of the Pacific; very few yellow yet. Roses are in good condition, particularly Beauty, and our *Marik* will (good cuttings) are still scarce. Dahlias are not down from year to year, selling at good prices.

## Jettings.

John Rader has broken ground for the erection of three houses; two of them, 28x120 and one, 16 feet, to 12x120 feet. Mr. Rader has been growing into a large stock of palms, decorative plants, and ferns the last few years, and this new addition will be devoted to the same purpose.

Andrew Neilson, representing the F. R. Pierson Co. of Perry Township, Hudson, N. Y., spent several days in the city this week.

Superintendent Falconer of Schenley Park, returned from Nashville, where he had been a member of the horticultural society of that city. Mr. Falconer on this trip picked up a variety of choice plants, which will shortly be on display at the Herbarium of the Botanical garden in St. Louis.

## Omaha.

## A Florist's Society Organized.

A Twenty-three of the florists of Omaha and neighboring cities met in the city hall, September 30, and formed the Nebraska Florists' Society. W. R. Adams, president; W. H. Miller, vice president; Jacob Hess, treasurer; E. C. Erling, secretary; trustees; L. C. Chapin, Benjamin Hass, Benjamin Hass, Jr., Charles E. J. Dever, E. C. Erling, Paul Flath, Omaha; W. J. Hesser, Plattsmouth; C. F. Crawford, Plattsmouth; J. C. Smith, Jacob Hess, Benjamin Hass, Omaha; F. W. Taylor, Lincoln; Robert Unger, Omaha, and W. F. Wilcox, Council Bluffs. The object of this is its principal object the preparation for the reception of the convention of the Society of American Florists and Ornamental Horticulturists, in 1898, and the interests of the trade in the "Trans-Mississippi Exposition." It has ever held to these subjects was laid over to the next meeting, October 14.

DONAGHUE, Jr.

## Cincinnati.

## Trade Still Improving.

Trade is steadily advancing all along. The market for flowers is good and plentiful, but in a sufficiency to supply the demand, and the market is kept well supplied. The carnations are selling daily and bring 75c. to \$1 per 100 wholesale. Roses still sell at \$1 to \$1.40 for teas, and \$1.25 to \$1.50 for doubles. Many roses are as yet scarce. Much damage is resulting from the dry weather in the West. It has ever held an experience in hauling water for greenhouse purposes, you may well say that the lot of the practitioner who does this work is not to be envied. The writer was very busy during the week, shipping plants to quantities in the city and large cities. Lady Fitzgibbon is a variety of carnations which has ever held a reputation, displace Mrs. Bergmann, as it is a much more graceful flower, with a more delicate coloring. It has ever held improved by a little more careful growing; 12½c. has been the ruling wholesale price. The carnations are not to be neglected along side would not fetch more than half that price. The general run of carnations is not to be neglected. It is at least ten days late; even the earlier sorts in this vicinity are not showing up. For the carnations to be ready on the 20th of the month before the old standard kinds and their way into this market, in quantity. E. C. GILBERT.

New York.

Wholesale Market. The week began in the early part of the week began to boom very considerably, but as has been the case now for several weeks, it fell away again by Wednesday so much so that Thursday was entirely in the buyers' favor. The sport of Saturday and Monday is getting to be a peculiar feature; for some weeks it has happened that Monday, which generally is regarded as an off day, has been the best. Owing to a very large funeral order on Monday, white roses were cut and cleaned out; since then these, with other colors, have been over-plentiful and prices low.

Chrysanthemums are now very plentiful. Marion Henderson, Merry Monarch, and Glory of the Pacific all made their appearance on Saturday, October 2; these with the varieties named last week helped to amply supply all possible demand. Prices were not very encouraging but, according to the size of the blooms generally, they realized all they were worth: \$1.25 to \$3 per dozen were taking figures. The variety 'Yellow Monarch' appeared Thursday, October 1. John E. Lager on the day following. The flowers were of excellent quality.

Carnations have sold steadily all the week, and good figures have been obtained. When the flowers were at \$1.50 per 100 was the usual taking price.

Bunches of improved quality have met with a little better demand and for a few hundred of exceptional quality \$1.50 per 100. The grower does not regret the present general supply or sales.

Cattleyas have been very plentiful and necessarily not very dear. They are placed at regular prices, many sales being effected at figures ranging from 20c. to 35c. per bloom, 40c. being the top notch for high grade.

Retail Trade.

One of the principal events of the week was the order on Monday for Monday, for Richmond, Va. Thorley had the order and had four men down there to take up the white roses of the day were used in it.

Two of J. H. Small & Sons' employees were in the city on Monday for the Sun Square Garden on Wednesday for the best hand bouquet. P. F. McKeeney taking third honors, and W. L. Trumppere second.

There has been an increase of theatre orders and a revival of the custom of sending baskets of flowers to ladies in their boxes. If this continues and becomes a habit, orders are in for a good thing, and growers will eventually benefit.

Auction Sales.

These sales are booming right along now; the attendance is good and there seems a general disposition to buy. A great sale of orchids from Gaudin & Co., England, will take place at the auction rooms of John P. Cleary & Co., 10 Vesey street, on Friday, October 13. The catalogue, as usual a very artistic one, has been issued.

Notes.

The Horticultural Exhibition at the American Institute Fair continues to improve as time goes on and promises in many of its departments to be an unequalled field success. On Monday and Thursday of next week roses will be one of the principal attractions, among other cut flowers and in pot plants, valley, eucalypta and geraniums.

Mrs. E. Langlander, Brooklyn's wholesale florist, was married on Tuesday, September 28, at the German Protestant Church, 370 West 42d St. to Miss Alice M. Schroeder.

Mr. E. Lager, Summit, N. J., will deliver a lecture this (Saturday) evening before the Gardeners' Society at 143 Madison street on the subject of "Orchid Collecting and Growing." Mr. Lager has recently returned from one of his adventures in collecting orchids in the mountains of South America, and his lecture will be of the utmost interest to horticulturists. The Florists' Club met on Monday evening, October 11, when it is hoped a final decision will be arrived at regarding the disposition of the Club's general fund valued at \$100. A large attendance is requested in order that this matter may be settled satisfactorily.

The Gardeners' Society will give a flower show forcharity in Hotel Astor, November 12 and 13, under the patronage of the Society Ladies of New York. J. H. Troy will be manager.

Baltimore.

Trade continues to improve. Chrysanthemums from Weber & Sons are coming in plentifully but are not very plentiful but limited. Carnations are getting better in quality; the same is the case with roses. There is no very brisk demand for flowers for weddings.

Holiday Brothers, whose stock is looking remarkably good this year, use a carnation support of four-foot galvanized wire stake bent in U-shape, and inverted, putting the stems in the middle, second stake is bent in like manner, and placed over the plant, crossing the first support. Corsy is tied around to support the plant. Many of the growers hereabout have adopted this plan and are pleased with it.

A pretty window-box was observed the other day in the window of a wholesale florist in the city. It was a combination of sword ferns and lavender phibungo, and produced a very striking effect.

Greenhouse building is nearly finished hereabout. Every one is looking forward to a good season.

Newport.

The final meeting of the Florists, Gardeners and Associates' Club of this city was held Saturday evening, October 2, 1937, at the home of Mrs. M. J. M. by the executive committee. This report showed a most gratifying state of affairs—all needs of the club had been carried out in a most harmonious spirit. As is known, the club was formed for the dispersal of a complete report and arranging a reception for the S. A. F. at the time of its annual convention; and that the effort was successfully completed by the letters read at the above meeting from the Florists' Clubs of Philadelphia, New York and Trenton, all of which were most complimentary.

Our boys are now united in booming the Horticultural and floral exhibitions for membership are to be considered at the next meeting.

Our boys are now united in booming the Horticultural and floral exhibitions for membership are to be considered at the next meeting. The club adjourned, sine die. Florist James S. Cowles, wife and youngest child, called by the St. Paul from New York on Wednesday, October 5, to be gone for three months, the time to be spent in the States and in St. Paul. Mr. Cowles evidently has considerable standing in the steamer line, as he was aboard at the time she was loaded on the Jersey coast, January, 1896.

Toronto.

Business is slow; improving; roses are plentiful and getting better in quality. Carnations are scarce. Violets are seen in quantity but are not very good; poor quality. Some good chrysanthemums are shown, in both pink and red.

The plant trade is also picking up, and our seedsmen all report the bulb trade as being very good this fall. Nearly all bulbs shown are of good quality.

We have not yet had a frost severe enough to cause any real trouble. Bulbs of gladioli, cosmos and other outdoor flowers are still coming in, but not of good quality. The ground here is very dry; we have had no rain for four weeks now.

But few bulbs have come in here this season from the United States; the duty is too heavy for the exporters.

Quebec, Pa.

Isaac Larkin is putting up six large greenhouses here.

Westfield, N. Y.

J. H. Dunn and Son are building a new greenhouse 100x220 feet, for snails.

Van Wert, O.

The Van Wert growers have undergone another change. A. J. Wagener, grower, having retired. The new grower, who has not yet assumed his duties, is Paul Vitman.

Vitman is looking fine, considering the quality of hot weather which still continues.

SPECIALTES

...FOR THE USE OF...

Florists, Nurseriesmen and Seedsmen Tubes for Mailing Plants.

Rather late in the season to advertise these, but we wish the trade to know we have them, and that they are the most practical method devised for that purpose.

Catalogues for Growers, Seedsmen, Etc.

There are few, if any houses which rival ours in the completeness of outfit which we possess for the prompt and satisfactory printing of catalogues; our trade in this line is very extensive, and we are always ready to furnish estimates; large or small, it makes no difference. We have a fine catalogue of horticultural cuts: sent free on request.

Certificates of Merit and Premium Cards.

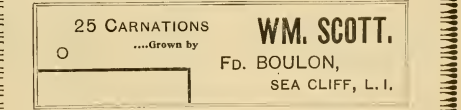
For Chrysanthemum and Flower Shows generally. We have some handsome designs on hand drawn and engraved especially to order, samples and prices of which we will be very pleased to mail you on application. Clubs or associations desirous of having Certificates or Premium Cards drawn and engraved to order, can be accommodated. Prices promptly quoted on receipt of full details.

Exhibition Plant and Cut Flower Labels.

The large growers of New York and vicinity are very pronounced in their admiration of our handsome black and gold waterproof Plant and Cut Flower labels for exhibition purposes. Never was a label gotten up which set a plant or cut flower off to so great an advantage. It gives the finishing touch to beauty. We have these labels in stock, in hundreds of names, covering all the popular Carnations, Chrysanthemums, Roses, &c. Send for sample and prices, and don't fail to provide yourself with a supply before your show comes off or you'll be sorry.

Labels for Cut Flowers for Market Growers.

Did you ever stop to think that a neat, inconspicuous label, bearing your name and address, the name of the flower, and the quantity of flowers contained in the package, would be of wonderful assistance to you in business? We give here an idea of the label we refer to:—



The label is practically waterproof, and we furnish them very cheaply. In use by leading growers. Send for sample and prices.

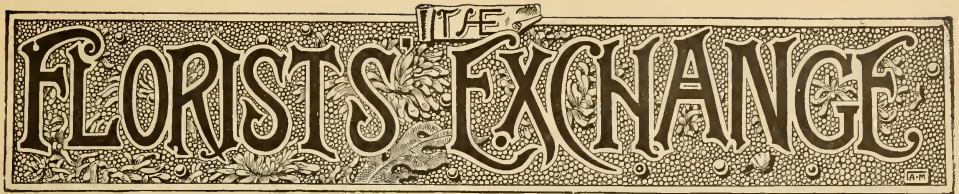
Addressing and Mailing for Catalogue Men.

Our painstaking system of keeping a record of all persons engaged in floriculture has resulted in giving us a list of over 10,000 names of commercial florists, nurserymen and seedsmen, which we have every reason to consider the most reliable and correct of all lists. These names are prepared to address at a moderate figure, and invite your patronage. An unreliable list, even if the first cost is cheap, is unsatisfactory and a poor investment at any price.

We have also many thousand addresses suitable for retail catalogues; people interested in floriculture and gardening generally. Will be pleased to furnish prices and full particulars on request.

A. T. DE LA MARE PGT. and PUB. CO. Ltd. P. O. Box 1697, New York.





We are a straight shoot and aim to grow into a vigorous plant.

A WEEKLY MEDIUM OF INTERCHANGE FOR FLORISTS, NURSERYMEN, SEEDSMEN AND THE TRADE IN GENERAL.

VOL. IX. No. 42.

NEW YORK, OCTOBER 16, 1897.

One Dollar Per Year.

# LILIAM HARRIS

## (Bermuda Easter Lily.)

5 TO 7 INCH BULBS.

**A FEW OF THE 75 CASES LEFT** which were put in our hands for sale from U.S. Bonded Warehouse and which we continue to offer until sold, at

\$8.50 per case of 400 bulbs; \$16.00 per 2 cases; \$22.50 per 3 cases.

Also some Boxes **BERMUDA LONGIFLORUMS**, at \$10 per case of 400 Bulbs.

**WHY PLANT JAPAN BULBS?** when Bermudas can be had for **LESS MONEY** and give **MORE FLOWERS**.

Also on Hand Several Thousand Surplus of the Following:

<b>Hyacinths</b> , Dutch named, 1st size bulbs, any color.....	Per 1000	\$45.00
" " 2nd .....	"	37.50
" " mixed, or to color.....	"	23.50
" " Romans, mixed, or to color.....	"	13.00
" " White Romans (French) 12 to 15 cen. ....	"	11.50
" " small, Bermuda.....	"	10.00
<b>Tulips</b> , Single or Double, 1st size bulbs.....	Per 1000	\$14.00
" " named, all varieties.....	from \$4.50 per 1000 up	
<b>Narcissus</b> , True Von Sion, selected bulbs.....	Per 1000	\$18.00
" " 1st size.....	"	12.50
" " Chinese Sacred, nat of 1200 bulbs for \$4.00, or.....	"	40.00

### AND OTHERS.

Get our prices on all kinds of **BULBS** before **ORDERING**.

## CLUCAS & BODDINGTON CO.

IMPORTERS, EXPORTERS AND GROWERS' AGENTS OF SEEDS, BULBS AND PLANTS,

Telephone Call 403 18th St. 501 and 503 W. 13th St., N. Y. CITY.  
When Writing Mention Florists' Exchange

WE OFFER A LARGE STOCK OF

# FINEST NAMED TULIPS,

Almost as cheap as common mixed varieties are usually sold. We have a very large stock of these bedding and forcing varieties, and offer them as long as unsold at remarkably low prices. Prices of Tulips are now so low that it should result in a largely increased use of these showy flowers. We offer the following lists, viz:

**SINGLE.** Bizar, Verdier, Cardinal's Hat, Carmine King, Eleonora, Couleur Foucien, Duchesse de Parma, Van der Neer, Paix Alba. 75 cts. per 100; \$5.00 per 1000.

**L'Inimitable**, Arms of Leiden, Duc Van Thol, La Reine. 75 cts. per 100; \$6.00 per 1000.

Finest Mixed Single Varieties, 60 cts. per 100; \$4.50 per 1000.

**DOUBLE.** Rose Blanche, Blanc Borte Pourpre, Gloria Solis, Tisian. 75 cts. per 100; \$6.00 per 1000.

Paeony Red, Queen Victoria. \$1.00 per 100; \$7.00 per 1000.

Finest Mixed Double Varieties, 75 cts. per 100; \$6.00 per 1000.

For complete list of varieties, see our Wholesale List, sent free on application.

**DOUBLE VON SION NARCISSUS**

These are extra selected mammoth bulbs, running from 2 in. in diam. up, and, under favorable conditions, should produce about two flowers to the bulb.

Full case lot of 2000 bulbs, \$8.00 per 1000.

In less quantities, \$20.00 per 100; \$10.00 per 100.

Paper White Narcissus Grandiflorus..... \$1.25 per 100; \$10.00 per 1000

Narcissus Principis..... 1.50 " 12.00 "

Trumpet Major..... 1.50 " 12.00 "

### HYACINTHS.

**Named Hyacinths for Forcing or Bedding**, best sort only..... \$3.00 1600

**Hyacinths in separate colors**..... 3.00 25.00

**Dutch Romans**, finest named sorts, much better than mixture usually sold..... 1.50 12.00

**White Roman Hyacinths**, extra quality bulbs, 12-15 cen. to circ..... 2.50 22.00

**Pink Roman Hyacinths**, extra quality bulbs..... 2.00 16.00

For complete list of bulbs, see our Fall Wholesale List, sent free on application.

# F. R. PIERSON CO.,

TARRYTOWN-ON-HUDSON, NEW YORK.

When Writing Mention Florists' Exchange

# ROSE HILL NURSERIES.

The Largest and Finest Stock in America.

### ARECA LUTESCENS.

3 1/2 in. pots, bushy, 12 to 15 in. high.....	DOZ. EACH	\$30.00
4 " " " 16 to 20 in. high.....	"	30.00
4 " " " 20 to 22 in. high.....	"	50.00
8 " " " 3 to 5 ft. \$4 and \$8 each		

### COCOS WEDDELIANA.

2 1/2 in. pots, extra fine, 5 to 8 leaves.....	DOZ. EACH	\$15.00
3 in. pots, extra fine, strong.....	"	25.00
3 in. pots, extra fine, very strong.....	"	35.00
3 1/2 in. pots, extra fine, very strong, selected.....	"	35.00

### KENTIA BELMOREANA.

5 in. pots, extra strong, bushy, 5 to 8 leaves, 18 to 20 inches high.....	EACH DOZ.	\$5.00
6 in. pots, heavy, 2 to 2 1/2 ft. high.....	"	18.00
7 in. pots, heavy, 2 to 2 1/2 ft. high.....	"	20.00
8 in. pots, 36 to 40 in., decorative size, \$3.50 to \$8.00 each.		

### KENTIA FORSTERIANA.

3 in. pots, 12 to 15 inches high.....	DOZ. EACH	\$15.00
4 " " " 15 to 18 ".....	"	35.00
6 " " " 2 to 2 1/2 ft. high, \$15 each.		
7 " " " 2 to 2 1/2 " \$20 to \$25.		

### LATANIA BORONICA.

5 in. pots, 2 ft. specimens.....	EACH DOZ.	\$15.00
6 in. pots, perfect specimens, 7-9 leaves, 18 in. per doz.		
7 in. pots, perfect specimens, 8-9 leaves, 22 to 25 in. each.		

All measurements taken from top of pots. WHITE, TELEGRAPH or TELEPHONE U.S. and our carriage will meet you. Address all communications to the Nurseries.

**SIEBRECHT & SON,** NEW ROCHELLE, N. Y.  
(New York Office, 409 5th Ave.)  
When Writing Mention Florists' Exchange

..OUR..

# SPECIAL FALL TRADE LIST

Is now ready and will be mailed upon receipt of your name and address

# CANNAS.

If you are in the market for anything in the Canna line, remember that we have one of the largest and best selected stocks in the world; consisting of a quarter of a million bulbs which we offer at bottom prices.

Send us a list of your wants and get our quotations before ordering elsewhere.

# GERANIUMS.

We can fill your orders immediately from a fine, clean and well established lot of plants from 2 inch pots, in the following sorts:

Bonate Poltevine, S. A. Nutt, Marvel, Leonard Kelsey, Mrs. A. Blanc, Mrs. E. G. Hill, Mme. Chas. Molin, Dutch Grand Grant, Madonna, Chalfant, Rev. Atkinson, Mme. Buchner, La Favorite and Mme. de la Roux.

Also BOSTON FERN, CARNATIONS, DAHLIAS and other plants.

# THE COTTAGE GARDENS, - QUEENS, N. Y.

When Writing Mention Florists' Exchange

# A REMINDER

WE CAN SUPPLY YOUR WANTS FOR

Roman Hyacinths, Dutch Hyacinths, Tulips, Narcissus, Lilium Harrisii, Chinese Sacred Lilies, Lily of the Valley, Spirea, etc.

Pot Labels, Cane Stakes, Raffia, Glazing Materials, Watering Cans, Insecticides and Fungicides, Fertilizers, etc. Elliott's Special Milltrack Mushroom Spawn.

If you have not received our trade price list it will be mailed free on application.

**WILLIAM ELLIOTT & SONS, 54 and 56 Dey St., New York.**

When Writing Mention Florists' Exchange

**PALM SEEDS**

FRESH ON HAND

ALL SEASONABLE VARIETIES.

Printed for select notes quoted on application.

L. SCHILLER, 404 E. 34th St., NEW YORK

When Writing Mention Florists' Exchange

**BULBS**

White Roman Hyacinths, \$5.50 per 1000; \$2.00 per 1000.

Paper White Narcissus Grandiflora, \$1.00 per 100; \$8.50 per 1000.

Dutch Hyacinths, Tulips, etc.

A full line of Florists' Supplies, including Mosses, Rafia, Linnon Oil, Nicotene, etc.

**GRIFFITH & TURNER CO.,**  
208 & 207 N. Paca Street, BALTIMORE, MD

When Writing Mention Florists' Exchange

**SEEDS**

KENTUCKY BLUE GRASS (*POA PRATENSIS*).

**CHAS. E. PRUNTY,**  
MAIN AND MARKET, SAINT LOUIS.

**LILY OF THE VALLEY**

In cold storage, grown by Ernst Reimachneider, Alton, Ham bu rg.

For prices, address  
P. O. BOX 920, C. C. ABEL & CO., NEW YORK CITY.

When Writing Mention Florists' Exchange

**GRASS SEEDS**

We are Seedsmen and Dealers.

RED TOP, BLUE GRASS, ORCHARD GRASS, MEADOW FESCUE and SUNFLOWER.

**J. CHAS. McCULLOUGH, SEEDSMAN, CINCINNATI, O.**  
JOBBER TRADE A SPECIALTY.

**ROMANS! ROMANS! ROMANS!**

JUST ARRIVED IN FINE CONDITION, READY FOR DELIVERY.

Special low quotations for large and small quantities. Don't wait, but speak quick, before they have gone again. This is the last shipment for this season.

Lilium Harrisii and Longiflorum, 5x7, only a few left. Dutch Hyacinths, Narcissus von Sieba, etc., 4x4 in., the finest ever handled. A few thousand Ficus Elastica still on hand. Azaleas. Write for prices. My stock does not need any recommendation, same does its own work.

**F. W. O. SCHMITZ, JERSEY CITY, N. J.**  
When Writing Mention Florists' Exchange

**HEINEMANN'S SEED NOVELTIES**

1898.

*Mossell's alpestris striata caestella.*  
Sky blue, actually pillar shaped, a striking novelty.

*Salpiglossis variegata superbissima.*  
A great improvement, best suited for American climate.

*Begonia hybrida gigantea "Mammuth"*  
Unsurpassed as bedder or pot plant. Flowers of immense size, lovely pale scarlet.

*Vicaria oculata "Bigod Brown"*  
Quite an original color, never seen in any other form.

*Cabbage: Erfurt Runder Kopf (Weisskraut), 1897.*  
The finest pickling sort in cultivation. Whoever tastes it is convinced of its superior quality. Excellent keeper, good size.

*Gloxinia crassifolia "Her Majesty Queen Victoria," '98.*  
Pure white, best for the market.

**F. C. HEINEMANN, Seed Grower, ERFURT, GERMANY.**  
When Writing Mention Florists' Exchange

**BARGAINS IN BULBS** FOR THIS WEEK ONLY.

**LILY OF THE VALLEY**

Book your orders now for the

**A. B. C. BEST BERLIN**  
Finest grade of Valley on the market.  
\$13.50 per 1000.  
\$30.00 per case of 2,500.

**American Bulb Company,**  
Importers and Growers. **SHORT HILLS, N. J.**

When Writing Mention Florists' Exchange

**SPECIAL OFFER!**

JUST RECEIVED  
Per "S. S. Missouri,"

**Mitchell's Superior Brand**  
English Mushroom Spawn.

**P. S.—We are HEADQUARTERS on MUSHROOM SPAWN, supplying a large number of the most extensive growers, and customers can rely on our Spawn.**

DEAR SIR—There seems to be no end to the mushroom crop which I purchased of you. I have cut now over the 400 pound mark.

Gardener to Jas. Boyd, Esq.  
HARRISBURG, PA., May 13th 1897.  
C. H. RONEY.

DEAR SIR—Your Mushroom Spawn has proved to my satisfaction that it is really A1. Our beds have done and are doing exceptionally well. We have never had such a splendid showing of another.

Yours very truly,  
JOHN McCLARY,  
Gardener to Wm. Weightman, Esq.

**\$1.50 per Dozen Bricks; 25 lbs. for \$2.00; \$7.50 per 100 lbs.; \$68 per 1000 lbs. 250 lbs. or over at 1000 lb. rates.**

**BULBS.**


Lilium Harrisii, 5 in. \$2.00 per 100; \$17.50 per 1000; 5 to 7 in., \$2.75 per 100; \$25.50 per 1000. 250 or over at 1000 rates.

Roman Hyacinths (French), first-class, 12 diam. bulbs, Whites, \$2.50 per 100; \$19.00 per 1000. 250 or over at 1000 rates.

CHINESE SACRED LILIES.  
Extra fine bulbs, \$1.00 per basket of 30 bulbs; \$5.00 for 4 baskets (120 bulbs).

**VAN REYPER'S PERFECT GLAZING POINTS.**  
60 cts. per 1000; 5000 at 55 cts. per 1000.  
Piccers for applying, 50 cts. each.

**MASTICA.**  
For glazing, \$1.00 per gallon; 6 gallon lot at 50 cts. per gallon. Machines for applying, \$1.00 each.



**FLOWER SEEDS.**

**CYCLAMEN PERSICUM CICAUMEN SEED.**  
The very finest strain from England. New crop. White, pink, Red, mixture, with red eye. \$1.00 per 100 seeds; \$9.00 per 1000 seeds. The above, finest mixture, 90c. per 100 seeds; \$8.00 per 1000 seeds.

**SMILAX SEED.**  
New crop. 40c. per oz.; \$1.10 per 1/4 lb.; \$4.90 per lb.; 3 lbs. for \$10.00.

**VERBENA SEED.**  
Now is the time to sow seed to produce fine, strong plants. Our "Mammoth Strain" is considered by all who have grown it to be the best in the market. Choicest mixed all bright colors only. 50c. per 1/4 oz.; \$2.50 per oz.

**SEND FOR OUR WHOLESALE PRICE LIST.**

**P. S.—We Guarantee Satisfaction to our Customers.**

**HENRY F. MICHELL,**  
SEEDS AND BULBS OF HIGHEST QUALITY ONLY.  
HENRY F. MICHELL  
FRED. J. MICHELL  
1018 MARKET ST., PHILA.

**VINCA SEED.**  
Pure White; White with red eye; Rosa (Pink) and choicest mixed. 25c. per 1/4 oz.; 75c. per oz.

**SWEEP PEAS**  
(FOR FORCING)  
Extra Early BLANCHE FERRY.  
The best pink and white. 10c. per oz.; 20c. per 1/4 lb.; 60c. per lb.

**KATHERINE TRACY.**  
The best, clear, pink variety. 10c. per oz.; 20c. per 1/4 lb.; 60c. per lb.

**EMILY HENDERSON.**  
The best pure white. 10c. per oz.; 20c. per 1/4 lb.; 60c. per lb.

When Writing Mention Florists' Exchange

**SEEK TRADE REPORT.**

Points and information from seedsmen, and all interest in this column, solicited. Address all communications to Florists' Exchange, 114 Chambers St., New York.

**AMERICAN SEED TRADE ASSOCIATION.**  
 JEROME B. RICE, Cambridge, N. Y., President; E. B. BURDETT, Millerton, Pa., 1st Vice-President; S. F. WILLARD, Wethersfield, Conn., Secretary and Treasurer.

**New York.—**The Stump & Walter Co. have now opened their store at 50 Barclay street, with a fine line of seeds, bulbs, and florists' supplies. The young men composing this firm all possessed of vim and energy, and having had considerable experience in the business, feel confident of success in their new venture.

**To Fight Free Seeds.—**We are in receipt of a circular letter from J. A. Everett, seedsmen in New York, which makes the following proposition: 1. By contributing money to ask for, etc. 2. If defeated in this, to prosecute a law suit against the U. N. G. in earnest, which we believe can be done successfully.

2. Fight the seed distribution until the life is knocked out of it, or it will slip the life out of the seed himself.

3. An accompanying separate slip Mr. Everett announces that he is willing to subscribe \$50 toward the object stated, and that he is willing to have the object effected and plans agreed upon to warrant the government free seed distribution. Mr. Everett's official communication with the committee of the American Seed Trade Association, of which executive, Mr. W. Wood Richmond, Va. is chairman, on the subject of fighting the free seed distribution, and join forces with them.

**European Notes.**

**Weather Conditions.**  
 One of the most remarkable features of the present autumn is the entire absence of frost. When the snows fell round Grenoble in the middle of September we learned that we were in for an early and severe winter, but up to the present day no frost has proved to be well founded. The readings of the thermometer continue low, especially at night, but a succession of fairly heavy northerly winds serve to keep their dry, frosty breath from doing the injury seeds to proceed without any interruption.

The usual autumnal work in preparation for next season's crop is being rapidly pushed forward, and the land is in a healthy and productive state. We have not been accustomed to late.

**The Onion Maggot.**  
 The cooler weather is checking the ravages of insect pests, although the onion maggot appears to be as risky as of yore. No satisfactory means of destroying the vermin has yet been discovered, and the idea is gaining ground that the immense quantities of manure used in the culture of this crop are largely responsible for its existence.

**Lily disease.**  
 The same feeling exists with respect to the lily disease, particularly as it affects the plants in the south. It is a disease of France. The thrifty habits of the French cultivators in their dealings with such plants of this kind are well and justly known to those who have had occasion to reside for a time in their midst. It is only when the plants are sold and put into somebody else's hands that it is undoubtedly a serious menace to animal life may also have injurious effects on the human race, as in the case of bulbs. The shortage of sound bulbs of *Allium candidum* this season is very unfortunate, and the likelihood is increasing of remunerative prices to the growers during the past two years.

Judging by the size of the spikes of Roman Hyacinths now coming in from the hills, have fully regained their necessary vigor once more, and if the growers can be induced to refrain from the high culture indulged in '92 and '93 there need not be any repetition of the trouble. **EUROPEAN SEEDS.**

**CATALOGUES RECEIVED.**

**WEBER & DON, New York.—**Annual Catalogue of Bulbs, Roots and Seed for Fall Planting.

**LEVER A. DEER, Inc., Philadelphia.—**Annual Catalogue of Bulbs, Plants, Seeds, etc.

**S. G. GRIMES & SON, Denver, Col.—**Price List of Seeds of Rocky Mountain Center and Native Plants.

**ALLEN WARREN & SON, Greenville, N. C.—**Descriptive Catalogue of Select Fruits, Ornamental Trees, etc.

**J. M. THORBERG & CO., New York.—**Pamphlet on the Sugar Beet, with practical directions for its culture.

**W. H. HARRISON & SONS, Lebanon Springs, N. Y.—**Catalogue of Ornamental Trees, Shrubs and Herbaceous Plants for the year.

**HERENDREY MANUFACTURING CO., Geneva, N. Y.—**A treatise on Greenhouse Heating in connection with the use of Stenonizer, is fully illustrated and contains much useful information. It is the most complete and up-to-date work tables being especially valuable.

**JOHN C. MOYNOR CO., Chicago, Ill.—**Catalogue of the most improved styles and sizes of greenhouse construction timber, with lists of useful data on that subject.

**Chrysanthemum Society of America.**

The committee judging new seedlings will be in session October 16, 23, and 30; November 6, 13, 20, and 27.

Exhibitors should make their entries (for which a fee of \$1.00 is charged for each variety exhibited) to the secretary, not later than Tuesday of the week the blooms are to be shown.

Blooms forwarded to any of the following addresses, express prepaid, will receive careful and considered attention: Boston.—A. H. PEWES, Horticultural Hall.

New York.—Eugene Dallmeider, care of Dr. F. M. Hexamer, Madison Square Garden.

Philadelphia.—Edwin Lonsdale, 1514 Chestnut street.

Cincinnati.—E. Wittenstaetter, corner Fourth and Walnut streets.

Chicago.—W. N. Rudd, room 202, 185 Dearborn street.

**THE CHRYSANTHEMUM SOCIETY'S SILVER CUP**, to be offered annually, will be awarded to the best six varieties, six blooms each (36 blooms.). The first cup will be competed for October 21 at New York. Competitors should forward their blooms to Dr. M. C. Oxman, Madison Square Garden, New York City, express prepaid. Competition is open to all. No fee is charged for the desiring further particulars should address Elmer D. Smith, secretary, Adrian, Mich.

The silver cup offered by the Society in honor of the anniversary of the Whiting Manufacturing Co., Eighteenth street and Broadway, New York, with a card insuring for what the cup is to be offered.

The American Institute will give its medal of merit as a second prize in this competition, and the institute's diploma for third prize.

The judges at Chicago Flower Show this year will be Mr. A. H. Pewes, Newton Highlands, Mass.; Mr. E. A. Kimball, of Chicago, and Professor L. R. Taft, Agricultural College, Mich.

**Stevens Point, Wis.**  
 The residence and greenhouses of Carl Herendrey are destroyed by fire Oct. 6th. They were insured.

**HEADQUARTERS FOR**

**BLACK CALLAS,** all sizes. **CYCLAMEN,** extra large bulbs, \$5.00 per 100. **OXALIS,** choice mixed, 60 cts. per 100. **LILIUM LONGIFLORUM,** 5-7 inch, 40 cts. per 100. **B. G. FAUST & CO.,** 61 & 68 N. Front St., New York. When Writing Mention Florists' Exchange

**AMPELOPUS**

Field-grown, 2 years, extra heavy.....\$5.00 per 100; \$75.00 per 1000  
 1 Year, light bulbs..... 4.00  
 From 3 inch pots..... 4.00  
 Shrubs—General assortment..... 4.00  
 Our assortment, 2 to 3 feet..... 4.00

**HYDRANGEA OTAKAS,** suitable for forcing, 6 cts. and 15 cts. each.  
**FIGUS ELASTICA,** plants for stock, 15 cts. to \$1.00 according to size.  
**300,000 CALIFORNIA PRIVET,** prices on application.  
 (See advertisement in last issue, page 937.)

**THE ELIZABETH NURSERY COMPANY, - Elizabeth, N. J.**  
 When Writing Mention Florists' Exchange

**GRAND NEW GIANT ESCHSCHOLZIA**  
 "THE GOLDEN WEST." The Most Gorgeous and Brilliant Novelty of the year.  
**MONSTER FLOWERS,** measuring 4 & 6 to 10 inches in diameter. Price, 50 cts. per trade package of 50 per oz.; Retailer, packets, \$5.00 per 500. Seed for new Trade List of Novelties and Specialties and see description of these Grand Flowers.  
**THEODOSIA B. SHEPHERD, Ventura-by-the-Sea, Cal**  
 When Writing Mention Florists' Exchange

**W. & D'S. "SURE MUSHROOM SPAWN"**  
 Special assortment of large ones.  
**ALL KINDS OF BULBS,** Lilium Harrill, Hyacinth, Narcissus, etc., etc.  
 Special prices on application.  
**WEBER & DON,** Seed Merchants and Growers.  
 114 Chambers St., NEW YORK CITY.  
 When Writing Mention Florists' Exchange

**BUY FROM THE GROWERS DIRECT**

**ALL BULBS AND PLANTS**  
 For Summer and Fall Delivery, Quoted at Very Low Rates.  
**FREE ON BOARD CARS OR BOATS**  
 NEW YORK CITY.

**HULSEBOSCH BROS., Englewood, N. J.**  
 When Writing Mention Florists' Exchange  
**CHINESE SACRED LILIES.**  
 One of the best selling bulbs for the retail customer.  
 Sixty Choice Stock, 100 \$4.75; 1000 \$43.00.  
 Write for prices on quantities.

We have a few choice Japan grown **Lilium Longiflorum** left. Write for prices.  
**VAUGHAN'S SEED STORE**  
 84 & 86 Randolph St., Chicago.  
 114 Barclay Street, New York.  
 When Writing Mention Florists' Exchange

**COSMOS**

**GIANT FLOWERED, EARLY BLOOMING.**  
 Six splendid varieties, separate, \$1.00 per ounce mixed, 75 cts. per ounce.  
 New California Six Strains, Giant Flowered California Superbissima, \$1.00 per ounce, several prices on quantity.  
 Apple Granatum, finest, 100 per 100 seeds; 40 cts. per 100 for 100 seeds.  
 Swiss Emmer or Abyssinian Banana, 75 cts. per 100; 100 for 100 seeds.  
 Non-flowering Single and Double Seeds.  
 California Lily Hills. Prices on application.  
**MRS. T. THEODOSIA B. SHEPHERD**  
 Ventura-by-the-Sea, Cal.  
 When Writing Mention Florists' Exchange

**BURPEE'S SEEDS**  
 PHILADELPHIA  
 WHOLESALE-PRICELIST FOR FLORISTS AND MARKET GARDENERS  
 When Writing Mention Florists' Exchange

**"-BULBS-"**  
 GNAS. H. ALLEN, Florist, N. Y.  
 When Writing Mention Florists' Exchange

**"VALLES!"**  
 True Berlin and Hamburg Pip. A1 quality, and very evenly assorted at import price, in cases 1000. Hamburg.  
**J. L. SCHILLER, 404 E. 34th St., New York.**  
 When Writing Mention Florists' Exchange

**IRRESISTIBLE STANDARD PAINTS**

**GIANT MARKET and GIANT FANCY.**  
 No fee in trade pits, at \$1 each.

Also plants of the above for sale.  
**DENYS ZIRNGEBEL, Neudham, Mass.**  
 When Writing Mention Florists' Exchange

**BULBS STOCK IN LIMITED QUANTITY**

WHITE ROMAN HYACINTHS, 11-12 ctm.	\$2.00	\$16 00
" " " 12-15 ctm.	2.50	22 00
" " " monster bulbs, 15 ctm.	3.00	00
BLUE ROMAN HYACINTHS	2.00	00
LILLIUM HARRISII, extra, 9-11 inch	14.00	00
LILLIUM LONGIFLORUM, BERNUDA, 5-7 inch	3.00	26 00
" " " " " " " " " " " " " " "	2.50	23 50
" " " " " " " " " " " " " " "	7-9 inch	5.00 40 00
		75 00 00

**ALLIUM NEAPOLITANUM** (Muscadine), six splendid varieties, separate, \$1.75 per ounce.  
**ORNITHOGALUM ALBARICUM** (Bells of Ireland), true, in lots of 120, \$5.50.  
**ONALIS BUTTERCUP, BERNUDA** 1.00 8.00  
**FREESIA REFRACTA ALBA,** France, fine bulbs..... 1.00 7.50  
**TULIPS—**La Reine, Kaiserkron, Pottbakker, Yellow Prince, Cottage Maid, Scarlet Due von Tholl, Polyanthous Narcissus, Double Narcissus, Trumpet Major, etc. etc. Orders now booked for Fall and Spring delivery of Hardy Low-Budded and Standard Roses.

**G. H. JOOSTEN, Importer, 193 Greenwich St., New York.**  
 When Writing Mention Florists' Exchange

# Greenhouse Woodwork

Open-air-dried Cypress Lumber is more durable, and better suited to Greenhouse conditions, than kiln-dried stock. But you cannot get it from those that are engaged in the business in a small way—even though their entire business is confined to greenhouse material—if it takes a long time for the lumber to thoroughly dry and this means an investment in lumber that only those of large capital can make. The only way to have air-dried lumber is to buy green lumber and hold it until it dries. Those that order dry lumber from the producers of Cypress get kiln-dried stock. It is cheaper for them to kiln-dry than to hold the stock long enough to season it in the open air. We carry a large stock and fill all orders with open-air-dried Cypress clear of knots, sap and all other defects.

Write for Circulars or Estimates.

**Lockland Glass Co.**

LOCKLAND, OHIO.

When Writing Mention Florists' Exchange

**SCOLLAY'S IMPROVED PUTTY BULB**  
For Glazing Sash, Etc., and for PATENT PLANT SPRINKLER  
For sale by your Seedsmen or sent, postpaid, for \$1.00.

**JOHN A. SCOLLAY,**  
74 & 76 Myrtle Ave.,  
BROOKLYN, N. Y.

SEND STAMP FOR CATALOGUE.  
When Writing Mention Florists' Exchange

**EVERY FLORIST OUGHT TO INSURE HIS GLASS AGAINST THEFT.**

For particulars address  
**JOHN G. ENLER, Sec'y, Saddle River, N. J.**  
When Writing Mention Florists' Exchange

## SHEEP MANURE

Cleaned and prepared especially for florists' use. You will find it the genuine article. For reference to the home first-class I refer you to Henry F. Michel, 1155 Market Street, Philadelphia, Pa. First base of 100 lbs. \$3.50 per ton F.O.B. \$1.00 at our rate cash with order.

Herman Rosner will be taken in exchange.  
**CODFREY ASCHMANN,**  
1012 Ontario St., PHILA., PA.  
When Writing Mention Florists' Exchange

## STANDARD FLOWER POTS

In any quantity, and of the best quality. Get my price list before ordering elsewhere.

**W. H. ERNEST,**  
Station M, N. E., WASHINGTON, D. C.  
When Writing Mention Florists' Exchange

## STANDARD POTS.

We are now ready to supply a superior quality of Pots in unlimited quantities. Catalogues and price lists furnished on application.

**A. H. HEWS & CO.,**  
NORTH CAMBRIDGE, - MASS.  
When Writing Mention Florists' Exchange

## Standard Flower Pots.

Send for our New Price List with extra discounts. All our Pots, from 7 in. and upwards, have our Patent Excelsior Bottom, which is a great advantage, as it forms a perfect drainage.

**THE WHILLDIN POTTERY CO.,** 713 & 719 Wharton Street, PHILADELPHIA  
BRANCH HOUSES: 1 Kearney and Westside Aves., Jersey City, N. J.  
1 Jackson Ave. and Pearson St., Long Island City, N. Y.  
When Writing Mention Florists' Exchange

## FLOWER POTS

We are Manufacturing a Full Line of STANDARD FLOWER POTS and HANGING BASKETS OF THE BEST QUALITY.

Shipping Facilities First-Class, thereby Securing Lowest Freight Rates. Our goods are well packed and breakage is minimized. Give us a trial. Send for Price List.  
Address **THE SYRACUSE POTTERY CO.,** 403 N. SALINA ST., SYRACUSE, N. Y.  
When Writing Mention Florists' Exchange

**FIBRE**--Every plant grown in it thrives without earth.  
**LIQUID**--The best, safest and cheapest Fertilizer sold.

**THE AMERICAN JADCO CO.,**  
U. S. Patent and Trade Mark.  
811 Fairmount Avenue,  
PHILADELPHIA, PA.  
When Writing Mention Florists' Exchange

## USE.

During late Summer and early Fall we have been firing and ventilating more for the purpose of keeping out dampness than maintaining a given temperature; but it is now time that we turn our attention to the latter especially at night. A rose naturally is a deciduous plant, and therefore is not adapted to conditions that will cause it to go into a semi-dormant state, and therefore it is not safe to keep it so much air, and keeping the plants on the dry side at the root for any unreasonable length of time. I have seen many plants this time of the year, that were perfectly healthy in every respect, still they kept losing too many leaves at the bottom of the plant and otherwise had a decided Autumnal look. La France is the most sensitive variety I know of in this respect. I always run a little higher night temperature during this period, not lower than 40 degrees, and a trifle warmer according to the mildness of the weather. I am well aware finer flowers can be produced in a cooler temperature, but in my experience I have not found it consistent with the growth we are looking for. If our plants stop growing now they will keep in that condition a long time.

In regard to firing and ventilating, it will be found necessary on cold days not to drop the steam too early in the morning, and to put it up to be bright and warm. The day is pretty well along before the sun begins to warm up the houses, and therefore it is better to give some heat to help the day along. We always have a pile of wood in the cellars, and as soon as the weather begins to warm in the morning, we find it much better to put on a little fire to keep up the steam for such a short time, than to put on a very hard coal fire. Of course, where soft coal is used the wood would not be soed. One of our plants stop growing now they close up tight if there is frost in the air, and during this time, especially if there is a cold air, I am very careful about the amount of ventilation, at the same time putting it on little by little as the day advances, and reducing it off in the afternoon. By so doing we get all the benefit from the sun possible, and it happens very bright day the outside temperature stands about 50 degrees. During such times it is very easy matter for a man accustomed to rose growing, when walking through the houses, although the sun would not feel a chilly atmosphere if too much air is on. When using more artificial heat care must be taken that the temperature does not become dry. They should be examined thoroughly. H. H.

## PRESIDENCE.

Insertion will be given in this column to all communications from florists, but the opinions expressed do not necessarily reflect our own.

## Florists' Fire Insurance.

**Ellior Florists' Exchange.**  
The outlook for florists' mutual insurance is much more encouraging this week than last. About \$400,000 of business in all has been promised by the members, and it reports continue to come in as they have in the past few days the Association will be organized within a week. The cities are becoming interested, and the matter is to be presented at the various Florists' Mutuals. Many prominent florists are pledging their hearty support.  
Because the old-fashioned tumble-down greenhouses was dangerous, the insurance companies had just cause to charge high rates; but upon well-built houses of modern construction the present rates are far too high. Florists are compelled to pay from two to five times as much insurance upon their greenhouses upon their dwellings and stables, while the risk upon the former, if constructed upon modern principles, is little, if any, greater than upon the latter. Belief is now in sight for the florists if they want it.  
There is good reason to believe that a mutual association, conservatively managed and accepting no hazardous risks, can give better protection than any of the existing rates.  
Wm. J. VESLEY, Fort Wayne, Ind.

**JOHN CONLEY & SON,**  
MANUFACTURERS OF  
**WATER PIPES**  
2 and 4 Dominick Street,  
NEW YORK.  
When Writing Mention Florists' Exchange

**AUGUST ROLKER & SONS,**  
Manufacturers of  
**SUNDRIES**  
FOR FLORISTS AND HORTICULTURISTS.  
Have removed their extensive stocks to their New Store, 52 DEY ST., NEW YORK.  
Orders from THE TRADE RECEIVED.  
When Writing Mention Florists' Exchange

## QUESTIONS BOX.

**OPEN TO ALL FREE TO ALL**  
Answers Solicited from Those Who Know.

(150) **Red Spider on Violets.**—I have two greenhouses planted with M. Louise violets and the plants are healthy looking, but are badly infested with red spider. They are also infested with green fly, but I use no remedy as recommended in the EXCHANGE, and have about eradicated the pest. As for the red spider, I have tried not to spray, but have any effect upon it. I would like to know how I can eradicate the spiders without injuring the plants. My houses are 50 feet long and 10 feet wide. They have soil beds about one foot below the glass on the low side, and I walk one foot wide. I used 7/8 ounce of potassium cyanide, 1 1/4 ounces of sulphuric acid, and about 1/2 ounce of water, mixed by avoirdupois weight. After my experiment I found that the plants for about three or four days were so injured that where the gas was set off were burned. The young foliage especially was injured, but in a few days it grew again. In one house I used only six ounces of cyanide, in the other I used ten, proportionally, leaving the gas in only two weeks. In this case it seemed to me that the more cyanide I used the fewer were the pests. In a few days I repeated with the 7 1/2 ounce formula, killing all the green fly, but the red spider apparently survived everything. I am anxious to get rid of the red spider, and I believe that the potassium cyanide gas will help me. About how often would it be safe to use the gas, and should it be applied on Troy or on the adopted?—**CYANIDE VIOLET GROWER.**

—In our experience we have found that the hydrocyanic acid gas has very little effect on red spider. Sometimes the spiders are stifled by it for a few hours, but as soon as they get fresh air they are back on their legs as of old work. We consider the red spider the worst enemy of violets, and unless there is constant attention to their care, the start, and then nothing will stop it.  
The only suggestion we can make at this time is to spray the plants thoroughly as possible with water, using if it can be obtained, a pressure of 40 or 50 pounds. Our practice is to pump directly into our water pipes, and by using a nozzle with a very narrow slit we get a strong fan-shaped spray without using a great amount of water. This is quite a convenient thing, and if the water is apt to result in injury if too much water is put on. The spraying should be done in the evening, and then before 9 A. M., so as to give every opportunity for the leaves to dry, and then in the morning, if the dew or the crovas are thick they will not dry for two or three days, and in such cases the spider gets very thick. It is especially if cloudy weather come on. By beginning early in the season, however, the spider need not be so thick, and during this time of the year, when the plants are large, the water can be left off. If spider gets very thick, it may be described in a recent number of the EXCHANGE.  
—In answer to whether or not the proper amounts of material were used in making the gas in your case we cannot say without more details. It is not the size of the houses. From the results obtained, 7 1/2 ounces of the cyanide seems to be about the right amount, provided the plants would not have been injured at all if the material had been divided into a great number of small lots of one. As to the weights used, avoirdupois is correct.—**B. T. GALLOWAY.**





varieties of carnations, the most notable being a crimson named Patrick O'Mara. This same firm also raised 100 sorts of dahlias, including all the best kinds. The F. K. Pearson Co. put up a grand lot of decorative plants for the third week. J. F. K. took the lead in this line, making up a group covering more than 200 square feet with decorative plants of various and beautiful colors. Christmas carnations were not exhibited in any great numbers. Mr. Breancke showed 12 high quality plants from Pacific with four-foot stems, and marvelously well-furnished with foliage, making perhaps altogether the best showing of this variety ever yet seen. A. D. Rose, Jersey City, sent in a white sport from the above variety, the color is of the purest white. In all other respects it is the same as the type. Peter Strick also exhibited a yellow sport from Mrs. Henry Robinson. The color is a lemon or straw yellow, but owing to the flower having occurred on plants grown outdoors, it is a little difficult to describe faithfully. Mr. Strick also exhibited Mr. H. Robinson; A. Wenger, Merry Monarch and Yellow Monarch.

**Pittsburgh.**  
A Fairly Busy Week.  
The past week as a fairly busy one for the florists' trade; quite a number of wedding orders and the bride's bouquet created a demand for flowers. Stock is showing up better in roses and carnations. Our manufacturers are planning to shortly Bergman, and good flowers are sold in the markets at \$1 per dozen. The coming week will bring in some better varieties which will command better prices. Cosmos is scarce this season. Nothing.

Bull sales are slow and prices the same as usual in spite of the extra duty. W. Batz, of New York, Pa., was a visitor during the week.  
**Will Have a Flower Show Perhaps.**  
Pittsburgh may now consider itself on a par with the larger cities, as they have had a horse show which was a grand success financially as well as socially. Our manufacturers are planning to shortly Bergman, and good flowers are sold in the markets at \$1 per dozen. The coming week will bring in some better varieties which will command better prices. Cosmos is scarce this season. Nothing.

**WILL HAVE A FLOWER SHOW PERHAPS.**  
Pittsburgh may now consider itself on a par with the larger cities, as they have had a horse show which was a grand success financially as well as socially. Our manufacturers are planning to shortly Bergman, and good flowers are sold in the markets at \$1 per dozen. The coming week will bring in some better varieties which will command better prices. Cosmos is scarce this season. Nothing.

**WILL HAVE A FLOWER SHOW PERHAPS.**  
Pittsburgh may now consider itself on a par with the larger cities, as they have had a horse show which was a grand success financially as well as socially. Our manufacturers are planning to shortly Bergman, and good flowers are sold in the markets at \$1 per dozen. The coming week will bring in some better varieties which will command better prices. Cosmos is scarce this season. Nothing.

**WILL HAVE A FLOWER SHOW PERHAPS.**  
Pittsburgh may now consider itself on a par with the larger cities, as they have had a horse show which was a grand success financially as well as socially. Our manufacturers are planning to shortly Bergman, and good flowers are sold in the markets at \$1 per dozen. The coming week will bring in some better varieties which will command better prices. Cosmos is scarce this season. Nothing.

**WILL HAVE A FLOWER SHOW PERHAPS.**  
Pittsburgh may now consider itself on a par with the larger cities, as they have had a horse show which was a grand success financially as well as socially. Our manufacturers are planning to shortly Bergman, and good flowers are sold in the markets at \$1 per dozen. The coming week will bring in some better varieties which will command better prices. Cosmos is scarce this season. Nothing.

**WILL HAVE A FLOWER SHOW PERHAPS.**  
Pittsburgh may now consider itself on a par with the larger cities, as they have had a horse show which was a grand success financially as well as socially. Our manufacturers are planning to shortly Bergman, and good flowers are sold in the markets at \$1 per dozen. The coming week will bring in some better varieties which will command better prices. Cosmos is scarce this season. Nothing.

**WILL HAVE A FLOWER SHOW PERHAPS.**  
Pittsburgh may now consider itself on a par with the larger cities, as they have had a horse show which was a grand success financially as well as socially. Our manufacturers are planning to shortly Bergman, and good flowers are sold in the markets at \$1 per dozen. The coming week will bring in some better varieties which will command better prices. Cosmos is scarce this season. Nothing.

# BOUGAINVILLEAS!

**CLABRA (?) and CLABRA SANDERIANA.**  
These plants are bound to become leading decorative subjects. The beauty and durability of their bracts, combined with their protracted flowering season, make them especially valuable for florists' use, for pot plants or for "cutting" purposes. In past seasons our plants have flowered almost continuously from Christmas Day; entire heads of Christmas bloom. Both varieties are strong, rapid growers, very easily handled, not subject to any insect pests, and not at all particular as to temperature. For Easter Pot Plants they are especially valuable, no trouble whatever to flower them, and can be sold for four to six weeks, if necessary.

Send for Circular of "FACTS AND COMMENTS."  
WE OFFER NICE STOCK OF BOTH VARIETIES, FROM 5 INCH POTS.  
Price, \$5.00 per 100; 5 Plants at 100 Rates.  
We will have 4 nice branched plants of either variety, from 2 1/2 in. pots, for \$1.00, or 12 for \$1.50.  
CASH WITH ORDER. THEO. F. BECKETT, Glenfield, Pa.  
When Writing Mention Florists' Exchange

# 50,000 Pansy Plants.

Strong, out of seed-lots, all colors of the best strain on sale, at \$2.50 per 100; 50c. per 100; or would exchange for Violets or William Rosees.  
A. WENCH  
Newell Avenue. WILLIAM BECKETT, N. Y.  
When Writing Mention Florists' Exchange

# Pansy Plants.

Schmidt's International Mixture of Pansies is the finest in the market, unsurpassed for size, color and blooming, strong stocky plants, 50c. per 100, by mail; \$4.00 per 500 extras; \$4.00 per 1000; J. C. SCHMIDT & CO., Bristol, Pa.  
Wholesale Pansy Growers.  
When Writing Mention Florists' Exchange

# HERR'S PANSIES

ARE THE BEST.  
Plants ready now, at \$5.00 per 100; 75 cts. per 100. A trial order solicited from every florist.  
SMILAX, at \$1.25 per 100; \$10.00 per 1000. Sample for 10 cents.

McGowan, Portia, Abundance, Armadillo, 5 cts. each, Fine Plants; Second, 2 1/2 cts. each.

**3000 TRIUMPH**, the best pick in every particular I ever grew, at \$7.50 per 100.  
**ALBERT M. HERR, Lancaster, Pa.**  
When Writing Mention Florists' Exchange

# Field-Grow Carnations

Wm. Scott ..... \$3.00 per 100  
Lizzie McGowan ..... 3.00 per 100

THE NATIONAL PLANT CO., Dayton, O.  
When Writing Mention Florists' Exchange

**CARNATIONS, Meteor**..... \$8.00 | This is Extra fine, **Portia**..... 7.00 | good Plants. **Jubilee**..... 10.00 | stock.  
**BOUARDIA, Pink**..... \$8.00  
CASH PRICES.

CHAS. E. MEHAN, GERMANTOWN, PHILA.  
When Writing Mention Florists' Exchange

# CARNATIONS.

ONLY A FEW LEFT.  
1500 Fine Stock  
300 Medium Daybreak  
150 Portia  
Who wants them: \$45.00 for the lot. Cash with order.  
**E. B. SUTTON, JR.,**  
West Hill Greenhouses, BAYLON, L. I.  
When Writing Mention Florists' Exchange

**1,000 Field-Grown**  
**Lizzie McGowan Carnations**  
\$2.50 per 100; \$30.00 per 1000.  
Good stock. Cash.

**B. F. MUSCHERT, Penn Valley, Pa.**  
When Writing Mention Florists' Exchange

# FIELD GROWN CARNATIONS and VIOLETS.

Ready September 16th.  
**JOSEPH REMARD, Unionville, Chester, Pa.**  
When Writing Mention Florists' Exchange

# CARNATIONS

McGowan, Portia, Anna Webb, Eldorado; Buttercup, Louisa, King of Clover, no rust, \$3.50 per 100.  
**HERRON & STRATTON, - Olean, N. Y.**  
When Writing Mention Florists' Exchange

# PANSIES!

ROEMER'S SUPERB PRIZE PANSIES.  
This strain includes all the leading novelties, strong bushy plants, ready now, at 65 cts. per 100, by mail; \$4.00 per 500 extras; \$4.00 per 1000; \$5.00 per 1000; \$10.00 per 1000; \$20.00 per 1000; \$50.00 per 1000.  
CASH WITH ORDER.

**PETER BROWN, - Lancaster, Pa.**  
When Writing Mention Florists' Exchange

# Pansy and Geranium Plants

**PANSY**—Giant flowering, transplanted, 50c. per 100; \$4.00 per 1000.  
**6000 2 IN. GERANIUMS**—Named varieties, \$2.00 per 100; \$25.00 per 1000. Try some.

**VELVET PLANT**  
1 inch, 50 cents per dozen. A big seller.

THE MORRIS FLORAL CO., Morris, Ill.  
When Writing Mention Florists' Exchange

# PANSIES

500,000 plants now ready at 50c. per 100; \$4.00 per 1000, prepaid.

**GERANIUMS.** Will have 100,000 rooted cuttings of high quality about Nov. 15.  
**C. A. HARRIS & CO.,**  
Cash with order. DELANSON, N. Y.  
When Writing Mention Florists' Exchange

# 5000 PANSIES

Transplanted, for Winter blooming, from selected seeds, \$1.00 per 100; \$5.00 per 1000.  
**500 HEDERA PALMATA.**  
(Scotch Ivy), 2 year old, field-grown plants, \$4.00 per 100.  
**WINTERS & SCHORY,**  
26th and Darby Sts. Harrisburg, Pa.  
When Writing Mention Florists' Exchange

# PANSIES RAISING

Good plants, \$2.50 per 1000, or \$1.50 per 500.  
Large plants, \$5.00 per 1000, or \$3.00 per 500.  
Homesick plants, \$1.50 per 100.  
Seed as usual. Cash with order.

**E. O. H. EXPRESS.**  
**C. SOLTAU & CO.,**  
199 Grand Avenue. - JERSEY CITY, N. J.  
When Writing Mention Florists' Exchange

# Pansy Plants.

Large flowers, 50 cts. per 100, prepaid; \$2.50 per 1000. . . . .  
2 inch pots, fine.

Baroness Borge, Empress of China, P. Souper, C. Souper, Brill, Bridesmaid, Courtoise de Lyon, Cole Wood, Etiole de Lyon, Mme. P. Laboute, Mme. Canille, Marcellie Rouvier, Marie Lambert, Sus. Blanchet, Louis, Richard, Mme. Joseph Schwartz, Rainbow, Saffron, Queen of the Market, Alfred Gardner, Musk Cluster, \$1.75 per 100; \$15.00 per 1000.  
**ROTTED CUTTINGS** of the above, 75 cts. per 100, prepaid; \$2.00 per 1000.  
CASH WITH ORDER.

# BYER BROS., Chambersburg, Pa.

When Writing Mention Florists' Exchange

## Orchids, Their Collecting and Culture.

Paper read by John B. Lager, Summit, N. J., at the New York Gardeners' Society, October 2, 1895.

Orchids, taking the word in a broad sense, are found nearly all over the world, but the homes of the most beautiful ones are, as we know, the tropics, and especially the epiphytes flourish in all that beauty and where they are found if not in great quantities, at least in luxuriance.

The number of these plants has been greatly diminished the last few years, great quantities have been torn from their native homes and sent to various countries, but what has done more in South America to reduce their numbers is the continually increasing plantations.

Great zones of forests have been cut down lately and the sensitive epiphytes have taken their places. The cut-leave region has suffered the most, its being the right elevation and temperature for the coffee tree, but other orchids have left the change as well, such as the most useful *Oncologytes*, etc.

Guided by the success I had on my first trip a few years ago, I last year made for the same old place, I was only to find, not what I expected, but the forests gone and trees planted by the thousands. Orchid collecting being my sole object, I was greatly disappointed, but there was only one remedy, and that was to push thru to the uninvited parts far from habitations, and I must say I was fortunately rewarded by finding a most beautiful lot of cattleyas, that, to judge by their appearance, had my first trip escaped the greed of the orchid hunter.

The South American Andes, as compared to other parts of the world, are, without the least doubt, the richest in useful species, as long as we keep to the lands proper, which are marvelous in the number of species they contain. Almost every foot ascended from the foothills, new features of the vegetation are presented, one locality varying greatly from another. This variation ceases immediately at the foothills, below which extensive valleys and river basins take the place of the rugged Cordilleras. The vegetation at these lower levels becomes at once more uniform, and plants found in the Magdalena and Cauca valleys of Colombia will, to the surprise of the traveler, appear repeatedly all through the Orinoco and Amazon valleys also. Some orchids are also very erratic as to their abodes; *Miltonia vexillaria* appears in the state of Antioquia, Colombia, and then travels along the central Cordillera, a plant here and there, until all of a sud-

den we find it re-established in Ecuador and Peru. Cattleya superbia is another, appearing in spots in Columbia, Venezuela and Brazil, and especially in the dense territories and low virgin forests embraced between the Orinoco, the Amazon, and Rio Negro systems.

Few people here imagine, when seeing beautiful orchids in flower, that much trouble, work and hardship have to be endured in securing them. Inconveniences of all degrees are experienced in getting one's footing on the new American soil. Here begins a series of the slow and toilsome ascent of the chains of the Cordilleras, ascending rivers sometimes by steams, then by canoes, and traversing mountains, straggling over the rocks, back involving a lot of time and much expense before the long-for orchid hunter reaches the place where he has certain claim attached to this mode of traveling. I enjoyed nothing more than very long back, we are gradually discovering the mysteries in their treatment, which after all that has been said, written, and read on the subject, and we can now note what a change has taken place the past few years in the culture of orchids. It is not the same as it was, and its sometimes tepid water, has given way to the hose; and the clumsy bins have been replaced by the more handy form of whitewash. The material for potting or fixing up is more sparingly used and less the material of the past. It is now admitted in larger quantities and the old system of closing up at a certain time has been abandoned. The new sort of plants are now treated on a more common-sense basis. These few things, similar to what may be seen elsewhere, have been strong levers in making orchids more popular in this country.

The high prices and the larger cities have done much to spread the popularity of these plants. In their season a multitude of cut blooms would be seen in the florists' windows and eventually they would be seen in the homes of the rich and really what is more beautiful than a display of gorgeous cattleyas with their bright and quaint colors and white varying each other in beauty.

Orchids in general furnish a great deal of pleasure to the collector, and those who love and study them, and although some of these flowers are to all appearances very common, they will still find something that will enable them to take a place even among the most gorgeous varieties. Low quantities are often contrast between the cypripedium and the cattleya, the one with its curious shape and quaint color, and the other in the extreme; and yet the former will always be admired and preferred to the latter by some persons.

In preparing this paper, I have avoided sensational stories so commonly connected with orchid collecting, and have only given a few plain facts taken from observations in nature, and which, I trust, will in some measure advance the interest and value of this queerly class of plants.

ways through the skill of the collector, but more through chance.

Supposing that cattleyas are collected directly from the grower, owing to so many inconveniences, only a limited number of flowers is seen after they are cut from the plants in felling the trees, and if a grower has any surplus he will usually after carrying the plants in a bag for a few days. Then, in refusing plants out of the grower's hands, the grower will collect, and without them the collector would have to leave the field without any. It is probably a wise man for the next trip.

Studying these plants in their native country, and in the gardens where they grow, in order to derive some practical knowledge as to their culture and lesser the sentimental absurdities and mysteries in which this beautiful class of plants have been enshrouded until not very long back, we are gradually discovering the mysteries in their treatment, which after all that has been said, written, and read on the subject, and we can now note what a change has taken place the past few years in the culture of orchids. It is not the same as it was, and its sometimes tepid water, has given way to the hose; and the clumsy bins have been replaced by the more handy form of whitewash. The material for potting or fixing up is more sparingly used and less the material of the past. It is now admitted in larger quantities and the old system of closing up at a certain time has been abandoned. The new sort of plants are now treated on a more common-sense basis. These few things, similar to what may be seen elsewhere, have been strong levers in making orchids more popular in this country.

The high prices and the larger cities have done much to spread the popularity of these plants. In their season a multitude of cut blooms would be seen in the florists' windows and eventually they would be seen in the homes of the rich and really what is more beautiful than a display of gorgeous cattleyas with their bright and quaint colors and white varying each other in beauty.

Orchids in general furnish a great deal of pleasure to the collector, and those who love and study them, and although some of these flowers are to all appearances very common, they will still find something that will enable them to take a place even among the most gorgeous varieties. Low quantities are often contrast between the cypripedium and the cattleya, the one with its curious shape and quaint color, and the other in the extreme; and yet the former will always be admired and preferred to the latter by some persons.

In preparing this paper, I have avoided sensational stories so commonly connected with orchid collecting, and have only given a few plain facts taken from observations in nature, and which, I trust, will in some measure advance the interest and value of this queerly class of plants.

### Raising Orchids at Home.

The Gardeners' Chronicle in a leading article on the subject of "Do Orchids Belong to the Tropics?" says: "We would like to point out such importations and to have orchids at home. To a great extent, so far, the experiments have consisted of raising cross-bred varieties, and one of the purposes of these tends to prove that the home-raised plant has a better constitution and better ability to withstand our climate and houses than the imported specimens can be expected to do. The question, then (although it would take time), would it not be wise to raise uncrossed, or true many of the finer varieties of collecting means, and other orchids, and thus, while increasing the plants wished for, get also the better constitution and ability to withstand our climate and houses than the imported specimens can be expected to do. The question, then (although it would take time), would it not be wise to raise uncrossed, or true many of the finer varieties of collecting means, and other orchids, and thus, while increasing the plants wished for, get also the better constitution and ability to withstand our climate and houses than the imported specimens can be expected to do. The question, then (although it would take time), would it not be wise to raise uncrossed, or true many of the finer varieties of collecting means, and other orchids, and thus, while increasing the plants wished for, get also the better constitution and ability to withstand our climate and houses than the imported specimens can be expected to do."

The above recorded is a timely one, not alone as pertaining to the desire to secure the better constitution mentioned, but also as pertaining to the supply of certain orchids, the paucity of which in their native habitat recent reports by collectors admit, that at



"The first glory of the Pacific were cut by the 9th of October; the flowers were well done, and up to October 16 most of them were about ready to cut. I would remind my readers not to cut flowers too early. I saw a large number of Mrs. H. Robison on the market in Cincinnati, which would have been well done by the 23rd of this month, but had been placed in open market only half finished. People are very slow to buy such flowers, but would readily take others at a better price when the flowers are in full bloom. Elvina is in full flower by this date, also is Golden Trophy. The first named is a very light-buff flower, of good silvery-pink color, but too small to bring good returns. The last-named is certainly a good early yellow, very full, of good form and color and I predict that, another year, there will be a large number of it grown. It is a dwarf and very fair for pots. Elvina also makes a very nice, stiff pot plant; it does not branch so freely as Glory of the Pacific, but is highly enough to ornament an eight-inch pot nicely; and that will finally be the place where it might be used. At this writing, October 11, many of the finer varieties are beginning to show color; but we will have enough to do to get the best flowers ready for exhibition by November 1. Some of our shows are scheduled for November 2, and if you want to use the flowers for the early shows it will be well to keep the plants a little on the dry side, which, I think, is better than to push them by fire heat which weakens them. Many varieties also lose a goodly percentage of their color, especially the pink ones, when heat is used."

THRO. BOCK.

## PLANTS and FLOWERS.

EARLY CHRYSANTHEMUMS.—David Scott of Fredonia, N. Y., sends us a bloom each of Yellow Green and Miss F. Bergman, both fine flowers, especially the latter.

10 to 25 lbs., 2½ cts. per lb.

25 to 50 " 2 " "

50 to 100 " \$1.95 " 100.

BEST GRADE ONLY.

CARE MUST ACCOMPANY ORDER.

H. A. STOOFFHOFF, 315 MADISON AVE., N. Y.

## TARD

They must be fresh to be good, no NICOTINE in dried up kind; nicotine kills Aphids.

Good weight, 75c. per 100 lbs.

Bales Kind, 500 lbs. each.

H. A. STOOFFHOFF, 315 MADISON AVE., N. Y.

H. A. STOOFFHOFF, 315 MADISON AVE., N. Y.

H. A. STOOFFHOFF, 315 MADISON AVE., N. Y.

H. A. STOOFFHOFF, 315 MADISON AVE., N. Y.

H. A. STOOFFHOFF, 315 MADISON AVE., N. Y.

H. A. STOOFFHOFF, 315 MADISON AVE., N. Y.

H. A. STOOFFHOFF, 315 MADISON AVE., N. Y.

H. A. STOOFFHOFF, 315 MADISON AVE., N. Y.

H. A. STOOFFHOFF, 315 MADISON AVE., N. Y.

H. A. STOOFFHOFF, 315 MADISON AVE., N. Y.

H. A. STOOFFHOFF, 315 MADISON AVE., N. Y.

H. A. STOOFFHOFF, 315 MADISON AVE., N. Y.

H. A. STOOFFHOFF, 315 MADISON AVE., N. Y.

BUSHY FIELD-GROWN CARNATIONS
With plenty of roots. Send for prices.
GEO. HANCOCK & SON, Grand Haven, Mich.
When Writing Mention Florists' Exchange

FIELD-GROWN CARNATIONS
Good, strong, healthy plants. Write for kinds and prices. Delivery after Sept. 10th.

LOGAN AVE. GREENHOUSES, Danville, Ill.
When Writing Mention Florists' Exchange

SURPLUS STOCK - CARNATIONS
1400 B. BOUARDIA
400 Scott, Alaska, 60 Meteor.
1500 Silver Spray, 125 Rose Queen,
1500 Sweetheart, 1500 L. Lambroni.
The above at \$4.00 per 100, or lot for \$50.00.
BOUARDIA, red and pink, at \$3.00 per 100.
400 ADAMTUM CARNATIUM, 3 in. pots, strong plants, at \$3.00 per 100.
EVENDEB BROS Williamsport, Pa.
When Writing Mention Florists' Exchange

50,000 FIELD-GROWN CARNATION PLANTS
WM SCOTT \$4.00 per 100.
LIZIE MCGOWAN \$4.00
PORTIA \$4.00
TIDAL WAVE \$4.00
Also 2000 Marie Louise Violets, per 100.
GEO. B. WHITEHEAD, Greens Farms, Conn.
Rogers Park Floral Co. 41 Wabash Chicago, Ill.
When Writing Mention Florists' Exchange

MORELLO
Field-Grown, at \$1.50 per dozen; \$10.00 per 100.
HOPP & LEMKE, East Grand Rapids, Mich.
When Writing Mention Florists' Exchange

CARNATIONS and CYCLAMEN
CARNATIONS - First-class field-grown; 100 plant Scott, Alaska, 100 Portia, Tidal Wave, 50 Meteor, 50 per 100, 500 Daybreak, Meteor Atlanta, 50 per 100, 500 per 100 per 100.
Buttercup, \$5 per 100.
CYCLAMEN - 100 SCIAM GIGANTEUM from 3 1/2 to 4 in, 40 per 100; 3 in. pots \$5 per 100.
J. C. BURROW, Agent, Fishkill, N. Y.
When Writing Mention Florists' Exchange

CARNATIONS.
Eldorado, Capt Jack, Lucia, Lois Haetzel, Fortia, Helen Keller, Scott, P. riant, Thos. Cardigan, for cash, \$4 per 100; \$50 per 1000.
R. H. MURPHEY, - Urbana, Ohio.
When Writing Mention Florists' Exchange

CARNATIONS
F. DORNER & SONS CO., La Fayette, Ind.
When Writing Mention Florists' Exchange

FIELD-GROWN CARNATIONS
Kitty Clover, Lois C. Haetzel, Fortia, Dr. Warden, Nellie Bly, Princess Bannin, \$4 per 100.
Farquhar Violets, strong, healthy runners that will bloom this winter, \$1.50 per 100.
Resolute Rex, 12 varieties \$2.00 per 100.
WM. H. SEARCH, Avondale, Chester Co. Pa.
When Writing Mention Florists' Exchange

NEW BEDFORD CENTENNIAL PRIZES
For all Strong, Clean, Field-Grown Stock, no room to house it.
CARNATIONS - McGowan, \$3.50; Portia and Alaska, \$3.00; Silver Spray, \$4.00 per 100.
VIOLETS - Nice clumps, Lady Home Campbell, \$3.50 per 100; \$30.00 per 1000.
VINCA VARIEGATA, \$6.00 per 100.
W. C. KRABER, 125 Florence St., NEW BEDFORD, MASS.
When Writing Mention Florists' Exchange

Carnations and Ferns.

Scott, Portia and McGowan.
1st quality, \$4.00 per 100; \$35.00 per 1000
1.50 " " " " 25.00 "
Adiantum Cernuatum.
Seedlings, \$1.25 per 100; \$10.00 per 1000
2 in. pots, 2.00 " 25.00 "
3 " " " " 30.00 "
3 " " 10.00 " 80.00 "
Adiantum Pubescens.
Pteris Oswaldii.
Pteris Adiantoides.
2 in. pots, \$3.00 per 100; \$25.00 per 1000

THE BOOL FLORAL CO., ITHACA, N. Y.

40,000 Field-Grown Carnations FINE STOCK.

Daybreak, Alaska, Follen Red, Storm King, Wm. Scott, Lizzie McGowan, Portia, Tidal Wave, Anna Weibull, Albertini, Also Mrs. Fisher and Orange Blossom, at \$5.00 per 100; \$45.00 per 1000.
Also 2000 Marie Louise Violets, at \$6.00 per 100.
GEO. B. WHITEHEAD, Greens Farms, Conn.
Lock Box 116.

5000 FIELD-GROWN SCOTT... CARNATIONS
Second Size, \$3.00 per 100, Cash.
FINE HEALTHY PLANTS.
ELLIOTT & ULAM, Cheswick, Pa.

FIELD-GROWN CARNATIONS
IN PERFECT HEALTH.
1400 Alaska, small..... Per 1000 \$25.00
300 Fortia, good..... 40.00
300 Fortia, small..... 25.00
2300 Minute Cook, good..... 25.00
2300 Minute Cook, small..... 25.00
10000 Fisher, good..... 30.00
300 Scott, small..... 25.00
C. STRAUSS & CO., Washington, D.C.
When Writing Mention Florists' Exchange

40,000 Field-Grown Carnations CLEAN HEALTHY STOCK.

Daybreak.....20 size, \$3.00 \$25.00
Scott.....1st " 5.00 40.00
".....2nd " 3.00 25.00
McGowan.....24 " 3.00 25.00
Mrs. Fisher.....1st " 5.00 40.00
Portia.....1st " 5.00 40.00
Tidal Wave.....1st " 5.00 40.00

PORTIA.
We have about 5000 extra fine, large PORTIA.

100 California Violets, \$4.00 per hundred.
EDW. J. TAYLOR, Southport, Conn.
When Writing Mention Florists' Exchange

H. WEBER & SONS, CARNATIONS OAKLAND, MD.
When Writing Mention Florists' Exchange

Harrison's White CARNATION.
New Carnation, sport from Wm. Scott.
JOHN HARRISON, 739 Bergen Ave., Jersey City, N.J.
When Writing Mention Florists' Exchange

CARNATION STAKE!
THIS STAKE is made of one piece of wire, No. 12, galvanized neatly machined in bunches of 50, for the field or on benches. It is easily worked about, more quickly applied than anything we know of. Sample 100, \$1.50
Write for prices on large quantities.
Will exchange for Scott & McGowan plants.
MYERS BROS 4120 24th St., Florists, ALTOONA, PA.
When Writing Mention Florists' Exchange

50,000 FIELD GROWN CARNATIONS
Strong and healthy plants in quantity now ready for delivery, of the following sorts: Rose Queen, Tidal Wave, Nancy Hanks, Portia, Lizzie Gilbert, Coronet, Storm King and Ivory. Price, per 100, \$30.00, \$55.00. No order for less than 1000 accepted. Address

REINBERG BROS., Wholesale Cut Flowers, 51 Wabash Ave., Chicago.
When Writing Mention Florists' Exchange

4 ACRES FIELD-GROWN CARNATION PLANTS, 94,000.

Our Carnations are grown with the greatest care and are first-class plants, free from disease. We pack light but our improved system of packing by which we can send them to all parts of the United States and Canada in perfect condition.
CRISON SPORT, BUTTERCUP, DELLA FOX, \$1.25 per doz.; \$8.00 per 100.
ALBERTINI, CHESTER PRIDE, BRIDE OF ERLESOUTH, NICHOLSON, \$1.25 per doz.; \$8.00 per 100.
SWEETHEART, SILVER SPRAY, CHESTER PRIDE, MRS. CARNEGIE, PORTIA, WM. SCOTT, L. L. LAMBRONI, GRACE WILDER, ROSA LIND. \$1.00 per doz.; \$5.00; \$45.00 per 1000.

J. L. DILLON, - - BLOOMSBURG, PA.
When Writing Mention Florists' Exchange

EXCELSIOR CARNATION SUPPORTS
OVER ONE MILLION IN USE.
10, 12, 18, 20 inches high, \$8.00 per 1000; \$1.00 per 100.
ROSE STAKES
Of Galvanized Wire, 2 ft., \$5.00 per 1000; 3 ft., \$7.00 per 1000; 4 ft., \$8.00 per 1000.
STEMMING WIRE.
20 in x 24, 55 cts. per atone; 33 in x 36, \$1.00 per stone. 21-22 cut 9 or 12 inches, 75 cts. per box. All less than 48 in. at these prices.

30,000 PALMS and FERNS.
At the lowest prices.
NEPHROLEPIS EXALATA BOSTONIENSIS.
Grand stock from 3c. to 20c. each.
GROUND BONE.
Guaranteed pure and fine, \$1.50 per 100; \$28.00 per ton. Sample free.
BULL DOG HOSE.
5 and 7 ply, 12 to 15 cts. per foot. Send for sample. We can ship home from New York City, Cleveland, Chicago, San Francisco or Boston.
H. F. LITTLEFIELD, Worcester, Mass.
When Writing Mention Florists' Exchange

GRALLERT & CO. CARNATION GROWERS COLMA, SAN MATEO CAL.
When Writing Mention Florists' Exchange

CHAS. STIEBERT THE RESTLESS, SLEEPLESS FLORIST OF PITTSBURGH, PA. GROWS, SELLS CARNATIONS THAT PAY.

30,000 CARNATIONS
Field-grown, fine, bushy, healthy plants. No buds in them.
WELL-GROWN PLANTS. CHEAP FOR CASH.
Alaska, Silver Spray, Heeler, Fortia, L. McGowan, Tidal Wave, Wm. Scott, Daisy Bell, Blanche Cook, P. Cardigan, Mr. Fisher, Helen Keller, Eldorado, A. Leonard, L. L. Lambroni, Puritan, Daybreak.
1st size, cash with order, \$5.00 per 100
2d " " " " 3.00 "
Peach Bloss, Emma Wacher, Triumph, Della Fox, Yellow Jacket,
1st size, \$7.00 per 100
2d " 5.00 "
I study to please every patron and pack carefully in light boxes. I guarantee entire satisfaction and big value for the money. We have three express companies, Adams, American and United States.
CHAS. T. STIEBERT, Sta. B., Pittsburgh, Pa.
When Writing Mention Florists' Exchange

50,000 FIELD GROWN CARNATIONS

REINBERG BROS., Wholesale Cut Flowers, 51 Wabash Ave., Chicago.
When Writing Mention Florists' Exchange

4 ACRES FIELD-GROWN CARNATION PLANTS, 94,000.

Our Carnations are grown with the greatest care and are first-class plants, free from disease. We pack light but our improved system of packing by which we can send them to all parts of the United States and Canada in perfect condition.
CRISON SPORT, BUTTERCUP, DELLA FOX, \$1.25 per doz.; \$8.00 per 100.
ALBERTINI, CHESTER PRIDE, BRIDE OF ERLESOUTH, NICHOLSON, \$1.25 per doz.; \$8.00 per 100.
SWEETHEART, SILVER SPRAY, CHESTER PRIDE, MRS. CARNEGIE, PORTIA, WM. SCOTT, L. L. LAMBRONI, GRACE WILDER, ROSA LIND. \$1.00 per doz.; \$5.00; \$45.00 per 1000.

J. L. DILLON, - - BLOOMSBURG, PA.
When Writing Mention Florists' Exchange

EXCELSIOR CARNATION SUPPORTS
OVER ONE MILLION IN USE.
10, 12, 18, 20 inches high, \$8.00 per 1000; \$1.00 per 100.
ROSE STAKES
Of Galvanized Wire, 2 ft., \$5.00 per 1000; 3 ft., \$7.00 per 1000; 4 ft., \$8.00 per 1000.
STEMMING WIRE.
20 in x 24, 55 cts. per atone; 33 in x 36, \$1.00 per stone. 21-22 cut 9 or 12 inches, 75 cts. per box. All less than 48 in. at these prices.

30,000 PALMS and FERNS.
At the lowest prices.
NEPHROLEPIS EXALATA BOSTONIENSIS.
Grand stock from 3c. to 20c. each.
GROUND BONE.
Guaranteed pure and fine, \$1.50 per 100; \$28.00 per ton. Sample free.
BULL DOG HOSE.
5 and 7 ply, 12 to 15 cts. per foot. Send for sample. We can ship home from New York City, Cleveland, Chicago, San Francisco or Boston.
H. F. LITTLEFIELD, Worcester, Mass.
When Writing Mention Florists' Exchange





Syracuse, N. Y.

Rn. Parade.  
 Train threatened to spoil the great parade to-day, but fortunately cleared just before time to start, the sun shining brilliantly. The float of the Central New York Horticultural Society was conspicuous among the number of highly decorated conveyances. Two pretty young ladies were dressed to represent Flora and Pomona, and were almost hidden by immense baskets of flowers and piles of fruit. The whole framework was draped with hanging festooned of the smilax and studded with flowers. Joseph Huller, father of the girls, arranged the crowds sorting and watering at the rear of the wagon. L. E. Marquise had three wagons in the procession, two of them being giftedly covered with palms.

Market News.  
 Trade is quite brisk now, numerous weddings recently have helped business along. A pretty novelty at a wedding last week was ropes of smilax studded with Birdseye rose-carried on the arms of the bridesmaids. The bride carried an immense shower bouquet of violets. The idea of the ropes of smilax originated with W. Wheaton of the P. R. (Union) Co.

There is no limit to the praise bestowed on the last issue of the EXCHANGE by the florists here.

Intending exhibitors at our forthcoming show are reminded that E. C. Stearns & Co., makers of the "Yellow Fellow," will present one of their highest grade wheels for a distinctive solo yellow chrysanthemum seedling, not previously re-assimilated, to be named the Yellow Fellow. Plants in pots only can compete, and the decision will be made by the Society's judges. Entries for our flower show must be made three days before the exhibition, which opens on November 9, extending to the 11th, inclusive. C. H. FAXSON.

Louisville, Ky.

The regular meeting of the Kentucky Society of Florists was held on Tuesday, October 6, at the residence of Wm. May, on Brook street. The meeting was well attended. The Commercial Club and Board of Trade, as well as the merchants of Louisville, are going to help us and order our next chrysanthemum show a success at least financially, by taking a number of tickets to send to their customers and friends outside the city. All the railroads are also to give excursion rates during the Fall show. Ky.

SMILAX! SMILAX!

Extra 2 in., \$1.50 per 100; \$10.00 per 1000; \$3.00 per 3000.

GLADIOLI BULBS May, White and Light Yellow, Fine Mixed.

New Ready.

BETSCHER BROS., Canal Dover, Ohio. When Writing Mention Florists' Exchange

ASPARAGUS PLUMOSUS NANUS

(True) transplanted seedling plants, now ready, \$3.00 per 100; \$25.00 per 1000; 500 at thousand rates. \$15.00 per 1000.

Cash with order from unknown correspondents.

R. ASMUS, - - - NEW DURHAM, N. J. When Writing Mention Florists' Exchange

DIANTUM CUNEATUM.

Strong, healthy plants, from 2 1/2 inch pots, ready for shifting, \$4.00 per 1000. 250 at 1000 rates, for cash only.

F. L. HART, Bayside, L. I.

When Writing Mention Florists' Exchange

A RARE PLANT

Cycas Cincinnati. - Stem 36 inches tall, 9 inches in diameter, 35 leaves over full length. A rare specimen in price on application. Send for wholesale list of Palms.

W. J. HESSER,

PROP. PALM GARDENS, PLATTSMOUTH, NEB. When Writing Mention Florists' Exchange

FINE STOCK OF PALMS

Areca Lutescens, 4 in. pots, . . . . .	Each	Doz.
" " " " " " " " " " " " " " " "	40	\$2 75
Latania Borbonica, 4 in. pots, . . . . .	20	3 00
" " " " " " " " " " " " " " " "	5	4 50
" " " " " " " " " " " " " " " "	5	7 50
" " " " " " " " " " " " " " " "	1 10	
7 to 8 leaves strong, 6 in. pots, . . . . .	1 10	
Kentia Forsteriana, 4 in. pots, . . . . .	30	3 00
" " " " " " " " " " " " " " " "	6	1 00
" " " " " " " " " " " " " " " "	4	4 00
" " " " " " " " " " " " " " " "	4	4 00
" " " " " " " " " " " " " " " "	4	4 00
Finis Elastica, good stock, from 25c. to \$1 each.		
Palms, well grown, assorted stock, 2 1/2 in. pots, \$3.00 per 100.		

Cash or satisfactory reference.

JOHN BADER, Allegheny City, Pa. When Writing Mention Florists' Exchange

100,000 CHOICE FERNS AT ONE CENT.

A great bargain! Fill at 2 or 3 in. pot at once and worth 5 cts. in a week or two. One little hardy plant in flats. Adiantum, Asplenium, A. Concinnum, Lumniza, Lomaria Gibba, Nephrolepis Cristatum, Olychotum, Anatum, Felices Adiantifolia, Pteris Tremula, Pteris Crinita, Adiantum, Pteris Argentea, Pteris Longifolia, and many others of many other sorts. \$1.00 per 100, by express. Sample 100 by mail for 81 cts. In 2 1/2 in. pots, 6 in. pots, 10 in. pots, large and full, all above and many other sorts, \$1.00 per 100; \$25.00 per 1000.

Cash with order, 5000 same rates. Carefully packed.

PEPERONIA ARGENTEA and Maculosa, strong, 2 in. pots, \$4.00 per 100. LATANIA BORBONICA, 1 year in flat, \$2.00 per 100; \$15.00 per 1000.

JOHN H. LEY, Good Hope, D. C. When Writing Mention Florists' Exchange

100,000 FERNS

30 best varieties. Write for list and lowest prices.

1,000 FICUS ELASTICA

4 inch pots, fine stock.

10,000 SMILAX

Strong plants, twice cut back.

CHAS. F. BAKER, Utica, N. Y. When Writing Mention Florists' Exchange

Cyperus Alternifolius.

2 1/2 in. pots, 40 cts. per doz.; \$2.50 per 100.

GREVILLEA ROBUSTA, 2 1/2 in. pots, 40 cts. per doz.; \$2.50 per 100.

ASPARAGUS TENUISSIMUS, 3 in. pots, 50 cts. per doz.; \$3.50 per 100.

CALORNIA VIOLETS, field-grown, \$4.00 per 1000.

CARNATIONS, Mapplede-nium, \$8.00 per 100. Medium sized plants of the following standard varieties, \$4.00 per 100. Porphy, Wm. Scott, Delicia, The Standard and Tided White.

NATHAN SMITH & SON, Adrian, Mich. When Writing Mention Florists' Exchange

PALMS PALMS!

FINE, STURDY, HOME-GROWN STOCK . . . . .

	In.	1/2	1 1/2	2 1/2	4	6	10	14	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120	
Phœnix Recinata,	2 1/2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
" " " " " " " " " " " " " " " "	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
Phœnix Canariensis,	2 1/2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
" " " " " " " " " " " " " " " "	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27		
Areca Lutescens,	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31-32	33-34	35-36	37-38	39-40	41-42	43-44	45-46	47-48	49-50	51-52	53-54	
" " " " " " " " " " " " " " " "	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31-32	33-34	35-36	37-38	39-40	41-42	43-44	45-46	47-48	49-50	51-52		
" " " " " " " " " " " " " " " "	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31-32	33-34	35-36	37-38	39-40	41-42	43-44	45-46	47-48	49-50	51-52		
Latania Borbonica,	3 1/2	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
" " " " " " " " " " " " " " " "	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28		

Cash or satisfactory references must accompany all orders.

J. B. HEISS,

116 S. Main St., - DAYTON, O. When Writing Mention Florists' Exchange

WRITE C. S. LODER, Sec'y, NATIONAL FLORISTS' BOARD OF TRADE, 271 Broadway, New York, In regard to Collections, Credits, etc.

LOOK HERE

The following plants are at 1st condition. Asparagus Plumosus Nanus, true climbing variety, 2 1/2 inch pots, \$7.00 per 100. Adiantum Canariensis, 2 1/2 inch pots, 100; 2 1/2 inch, \$10 per 100. Field-grown Carnations, \$3.00 per 100. Birdseye Ferns for ferretes, \$3.00 per 100. New York 100 Large Mimosa, price on application. TERMS CASH OR C. O. D.

C. MERKEL & SON, Mentor, Ohio. When Writing Mention Florists' Exchange

TO MAKE ROOM.

50 BOSTON DROOPING FERNS, from 5 in. pots, ready to shift, at \$2.00 per doz.  
 50 FILIFERA PALMS, from 8 in. pots, 2 to 3 ft. high, 2 to 6 character leaves, at \$2.00 per doz.  
 1000 SMILAX, from 3 in. pots, at \$1.75 per 100; \$1.00 per 1000.  
 All above in fine, healthy condition.

Cash with Order. MRS. FLORA T. HOWELL, Pine Bush, N. Y. When Writing Mention Florists' Exchange

NEPHROLEPIS EXALATA BOSTONIENSIS

...THE BOSTON FERN...

10,000 fine plants now ready for potting for Fall sales, from bench, average ten froods, at \$25.00 per 100. Can be potted singly in five inch pots, or two or three in larger sized pots. Best House Plant for office. Largest plants at 50 cents to \$1.00 each.

L. H. FOSTER, 45 King St., Dorchester, Mass. When Writing Mention Florists' Exchange

Neprolepis Exaltata Bostoniensis.

The Handsomest Decorative Plant in Cultivation. \$5.00 per 100; \$40.00 per 1000.

MINE IS THE GENUINE STOCK. FRED. C. BECKER, - - - 1730 Cambridge Street, CAMBRIDGE, MASS. When Writing Mention Florists' Exchange

PALMS

Areca Lutescens, Latania Borbonica, Kentias, Cocos Weddeliana, &c.

HARDY, HOME-GROWN, PERFECT PLANTS, LARGE STOCK OF ALL SIZES.

Call and see them. They will bear inspection.

WHOLESALE LIST ON APPLICATION. JOSEPH HEACOCK, WYNCOTE, PA. When Writing Mention Florists' Exchange

PALMS...

A large stock of ARECA LUTESCENS, LATANIA

BORBONICA, COCOS WEDDELIANA, Etc, from

10 ins. to 6 feet high. Hardy home-grown bushy

fine plants at moderate prices. Send for price list.

LEMUEL BALL, Wissinoming, Phila., Pa.

When Writing Mention Florists' Exchange

RHAPIS FLABELLIFORMIS and HAMILIS.



Recognized as one of, if not the very best Palm for home decorative. Plants more abundant than any other variety. Easy to handle and quick to shift. We will send a large consignment of this beautiful Palm in October 18th. Orders taken now. First come first served. Prices according to size and number of stocks. Come and see samples of stock at our office after above date. Also LILIAM LONGIFLORUM eximium verum.

The finest bulb for forcing. Sure to flower well and abundantly. We offer an extra large stock 6 x 12 inch bulbs, the Best size when Cut Flowers are wanted, at extremely favorable price of \$14.00 per 100. Discount of 40 per cent. for cash with order or on receipt. Time to order your supply of Seeds. We offer CALIFORNIA GROWN SEEDS. SWEET PEA SEED in best standard sort, introductions of 96 and 20 VARIETIES of V. (Crop is short and EARLY orders are solicited.) Following seeds of BEST Growers, carefully selected and CLEAN. Asters, Balsams, Cannas, Centaureas, Cosmos (Giant Perfectum), Dahlia Tom Thumb, Freesia, Hollyhock, Lobelia, Mignonette, Nasturtiums, Petunias in choicest sorts, Phlox, Smilax, Stocks, Verbena Mammoth.

Address. H. H. BERGER & CO., 220 Broadway, New York. Branch Office, San Francisco, Cal. (Established 1878).

When Writing Mention Florists' Exchange

# AZALEA INDICA.

Fine shapely plants, well set with buds. . . . . \$38.00 per 100.  
 10 to 12 inch crowns . . . . . 30.00 "  
 13 to 15 " . . . . . 60.00 "  
 Order these early and have them shipped by fast freight, saving heavy express charges.

**ASPARACUS PLUMOSA.**  
 Strong, 2½ and 3 in. pot plants, \$7 per 100; \$85 per 1000.

**FICUS ELASTICA.**  
 A large stock in fine shape, 4 in. pots, \$35 per 100; 5 in. pots, \$15 per 100.

**ARAUCARIA EXCELSA.**  
 Excellent plants in fine condition.  
 10 to 12 inches high . . . \$12.00 per doz.  
 12 to 15 " . . . . . 15.00 "  
 15 to 18 " . . . . . 18.00 "

**PALMS.**  
 A large stock in fine shape, of Kentia Belmoreana and Forsteriana, Areca Intescens and Latianus. See Special Florists' Trade List No. 5, for sizes and prices.

## THE STORRS & HARRISON CO. Painsville, O.

When Writing Mention Florists' Exchange

**JULIUS ROEHR'S,**  
 Headquarters for  
**Palms and Decorative Plants,**  
 RUTHERFORD, N. J.  
 P. O. Dress, Carlton Hill, N. J.  
 When Writing Mention Florists' Exchange

FOR THE FALL SEASON!  
**PALMS**  
**FLOWERING PLANTS**

See A. SCHULTHEIS, College Point, N. Y.  
 P. O. Box 78, Telephone Call 51 P.  
 Two North Side Division A. 1, B. 1, C. 1 or Trinity.  
 Kentias, Areca Intescens, Pandanus Borbonica, Phoenix, Pandanus utilis, Ficus elastica, Cocos Weddelliana, Araucaria excelsa, Cycclamen persicum, Ericas our speciality. Chrysanthemums in pots. Azaleas.

When Writing Mention Florists' Exchange

**PALMS, OLEO FRAGRANS, BUDDED ROSES, DWARF ORANGES (grafted).**

Size pots, inches	Cher. per	high leaves	per
Areca Lutescens	15-24	15	\$30.00
Cocos Weddelliana	3	6-8	15.00
Latianus Borbonica	4	12-15	1.2
"	4	15-18	2-3
Pandanus Utilis	4	10-12	15.00
"	4	15	20.00
Phoenix Reclinata	4	12-15	2-3
"	5	15-18	3-4
"	5	18-24	4
"	5	18-24	25
"	5	18-24	40
Althea bore palm are stock and in splendid shape			
Magnolia fuscata (Canton shrub)	12	18	per 100
"	12	15	12.00
Oleo fragrans (Tan Olive)	12	15	12.00
"	12	15	12.00
Oranges and Lemons, best 10 to 12 inch varieties, fruiting sizes, grafted	10	12	30.00
on Trifoliata, bushy	10	12	15.00
Oranges, Otahutu, bushy	10	12	15.00
Marchal Niel Rose, strong field grown, budded on Manetti, 24 feet, \$125 per 1000			15.00
Marchal Niel and other good varieties of Rose, strong, field-grown, budded on Manetti, 18-24 inches, \$10 per 100			15.00
Biota Aurea Nana (a perfect gem, the most precious of all) B. B. B. 8 to 10 inches			10.00
B. B. B. 10 to 12 inches			15.00
Ficus Elastica (top cuttings), 12 in.			25.00
Crotos, best varieties, 2 inch pots			15.00

All measures from top of pot. Above prices do not apply to orders of a sort. Packing and cost sent for trade list. Quick delivery to any point. P. J. BENCIGLIANI, Fruitland Nurseries Augusta, Ga. When Writing Mention Florists' Exchange



# DREER'S Special Offer Of AZALEAS

Expected to arrive early in OCTOBER.

The Quality this season will be fully equal to what we have sent out for several seasons past, which has given universal satisfaction, which is shown by the greatly increased number of orders already booked.

The Tariff which has been increased to 25 cent, on this class of stock will not affect the price, as we have been successful in making such arrangements with our Belgian growers (who are among the most successful specialists in this class of plants), which enable us to sell at the same prices as last season.

The Varieties we offer are such only as are known to us as the best suited to the American market, and all are bushy, well shaped plants, well set with buds.

Shipment can be safely made by freight to any part of the country, if orders are placed at once.

10 to 12 inch crowns, bushy and well set	\$35.00 per 100
10 to 12 " " " " " "	40.00 "
13 to 15 " " " " " "	60.00 "
13 to 15 " " " " " " extra heavy	65.00 "

Specimen Plants, 18 to 24 inches in diameter, \$24.00, \$30.00 and \$36.00 per doz.

**HENRY A. DREER, 714 Chestnut Street, PHILADELPHIA.**  
 When Writing Mention Florists' Exchange

## AZALEA INDICA

Ready for Delivery.  
 Write us for prices on these; also  
**DUTCH BULBS.**  
**L. G. BOBBINK, Rutherford, N. J.**  
 The Horticultural Company, Baskoek, Holland.  
 When Writing Mention Florists' Exchange

# Azalea Indica

(Fall Importation Ready About October 15th.)



AZALEA INDICA.

The Azaleas which we supplied last season were admitted to be the best value for the money ever received by the many florists who bought them, and we can promise as good, if not better, stock and larger plants this coming season.  
 We have again made special arrangements with the largest grower of Azaleas in Belgium, and take pleasure in offering for delivery about October 15th, **Indian Azaleas**, double and single, all named varieties, leading market kinds, shapely plants, well headed, at the prices quoted below. These plants will be carefully packed and can be safely sent by freight to any part of the country.

10 to 12 inch heads	per doz., \$5.00;	per 100, \$40.00
12 to 14 "	" " " " " "	7.00; " 50.00
14 to 16 "	" " " " " "	9.00; " 70.00

Special, 18 to 24 inch heads, extra fine, \$3.00 each. 6 sold at doz. rate; 25 at 100 rate.

## Special Offer of Palms.

**ARECA LUTESCENS.**  
 2 in. pots, \$0.75 doz., \$5.00 per 100  
 4 " " " " " " " " 3.00 " 25.00 " "  
 5 " " " " " " " " 6.00 " 50.00 " "  
 6 " " " " " " " " 9.00 " 75.00 " "  
 8 " " " " " " " " 12.00 " 90.00 " "  
 " " " " " " " " extra fine and heavy, \$2.00 each; \$20.00 per doz.

**COCOS WEDDELIANA.**  
 4 in. pots, \$6.00 doz.; \$50.00 per 100  
 3 " " " " " " " " 2.50 " 20.00 "

**LATANIA BORBONICA.**  
 We offer an extra fine grade of this, from 5 in. pots, 15 to 18 in. high, 5 to 7 leaves, at \$5.00 per doz., \$40.00 per 100.

**SEAFORTHIA ELEGANS.**  
 A quick growing Palm and very useful for general purposes.  
 4 in. pots, \$3.00 per doz.; \$16 per 100  
 3 " " " " " " " " 1.50 " 10 "

**KENTIA BELMOREANA.**  
 Plants offered have 4 to 5 leaves and are 15 to 18 in. high.  
 4 in. pots, \$6.00 per doz.; \$50 per 100

**KENTIA FORSTERIANA.**  
 3 in pots, \$1.25 per doz.; \$10 per 100  
 4 " " " " " " " " 4.50 " 35 "



LATANIA BORBONICA.

**RUBBER PLANTS.**  
 We have a splendid stock of this useful and ornamental plant, short jointed and sturdy, sure to give satisfaction.  
 15 to 18 inch, 50c. ea.; \$5.00 doz.

## PETER HENDERSON & CO., 35 and 37 Cortlandt Street, NEW YORK.

When Writing Mention Florists' Exchange

SITUATIONS WANTED.

Rate 10 cents per line of words, each insertion... with extra rate apply only to circulation wanted advertisements...

YOUNG man desires position in seed house; care of experience best references. A. B., care of Florists' Exchange.

SINGLE man, temperate, six years' experience... WATERMAN & COOPER, West Grove, Pa.

SITUATION wanted by young man, in commercial office... Address T. M. Ste. E. Brooklyn, N. Y.

SITUATION wanted as gardener and florist; capable of taking charge of private residence... Address T. M. Ste. E. Brooklyn, N. Y.

YOUNG man, age 21, desires position in first-class commercial or private place where he can improve his knowledge; best references; refer Nov. 1, P. H., this office.

FIRST-CLASS grower of cut flowers, palms, ferns and general florist... Address 12, Union City, New Jersey.

SITUATION wanted; young man, German, to take care of greenhouses... Address 108 Market St., Philadelphia, Pa.

SITUATION wanted, by an all-around florist and gardener... Address 609 P. O. Box 4, Union City, N. J.

YOUNG man, age 23, eight years' experience in all branches... Address 208 West Side Ave., Jersey City, N. J.

SITUATION wanted by Englishman, 30, single; a florist... Address 208 West Side Ave., Jersey City, N. J.

SITUATION wanted by young man, in greenhouses or stores... Address 208 West Side Ave., Jersey City, N. J.

SITUATION wanted by private manager or owner of all branches of the business... Address 208 West Side Ave., Jersey City, N. J.

SITUATION wanted by young man, in greenhouses or stores... Address 208 West Side Ave., Jersey City, N. J.

SITUATION wanted by young man, in greenhouses or stores... Address 208 West Side Ave., Jersey City, N. J.

SITUATION wanted by young man, in greenhouses or stores... Address 208 West Side Ave., Jersey City, N. J.

SITUATION wanted by young man, in greenhouses or stores... Address 208 West Side Ave., Jersey City, N. J.

SITUATION wanted by young man, in greenhouses or stores... Address 208 West Side Ave., Jersey City, N. J.

SITUATION wanted by young man, in greenhouses or stores... Address 208 West Side Ave., Jersey City, N. J.

SITUATION wanted by young man, in greenhouses or stores... Address 208 West Side Ave., Jersey City, N. J.

SITUATION wanted by young man, in greenhouses or stores... Address 208 West Side Ave., Jersey City, N. J.

SITUATION wanted by young man, in greenhouses or stores... Address 208 West Side Ave., Jersey City, N. J.

SITUATION wanted by young man, in greenhouses or stores... Address 208 West Side Ave., Jersey City, N. J.

SITUATION wanted by young man, in greenhouses or stores... Address 208 West Side Ave., Jersey City, N. J.

SITUATION wanted by young man, in greenhouses or stores... Address 208 West Side Ave., Jersey City, N. J.

SITUATION wanted by young man, in greenhouses or stores... Address 208 West Side Ave., Jersey City, N. J.

SITUATION wanted by young man, in greenhouses or stores... Address 208 West Side Ave., Jersey City, N. J.

SITUATION wanted by young man, in greenhouses or stores... Address 208 West Side Ave., Jersey City, N. J.

SITUATION wanted by young man, in greenhouses or stores... Address 208 West Side Ave., Jersey City, N. J.

SITUATION wanted by young man, in greenhouses or stores... Address 208 West Side Ave., Jersey City, N. J.

SITUATION wanted by young man, in greenhouses or stores... Address 208 West Side Ave., Jersey City, N. J.

Buffalo.

Business Quiet. Business inclines to be modest and quiet. The traditional October weddings are not numerous...

Chrysantheums are showing up in larger numbers, with orders decidedly on the wane. Roses are fairly plentiful and improving in size...

Chrysantheums are showing up in larger numbers, with orders decidedly on the wane. Roses are fairly plentiful and improving in size...

Chrysantheums are showing up in larger numbers, with orders decidedly on the wane. Roses are fairly plentiful and improving in size...

CHANGES IN BUSINESS.

BURLINGTON, N. J.—Niels J. Nielson has succeeded to the establishment of D. Pierce, at 315 Jones avenue.

CHICAGO.—The Klunder Floral Company has been incorporated with a capital stock of \$2,500...

UNION, N. Y.—Graham Brown, of Binghamton, wishes to establish a branch office here.

BUSINESS OPPORTUNITIES.

FOR SALE. Florist store doing a high grade of business. Established 15 years...

A Rare Opportunity. FOR SALE—Florist store, on Broadway, between 21st and 22nd streets...

FOR SALE. Florist store doing a high grade of business. Established 15 years...

A Rare Opportunity. FOR SALE—Florist store, on Broadway, between 21st and 22nd streets...

FOR SALE. Florist store doing a high grade of business. Established 15 years...

FOR SALE.

Three fully equipped, iron frame greenhouses and stock, Hitchens build and boiler, in a lively and growing seaside resort...

FOR SALE.

Fruit and vegetable farm, including 20 acres first class land, 10 room dwelling house, barn, greenhouse 16x50 with water heating...

FOR SALE OR LEASE.

Greenhouse of 4,000 sq. ft. glass, both ends and sash; hot water heat, windmill, exhaustible tank, 4 room cottages, all new...

BOILERS FOR SALE!

Two No. 3, Style C, GURNEY HOT WATER DOUBLE CROWN BOILERS, complete. In use five seasons...

FOR SALE.

A few shares of stock in this Company are offered for sale in quantities of 100 shares or more...

BUSINESS OPPORTUNITIES.

FOR SALE. A few shares of stock in this Company are offered for sale in quantities of 100 shares or more...

BUSINESS OPPORTUNITIES.

FOR SALE. A few shares of stock in this Company are offered for sale in quantities of 100 shares or more...

BUSINESS OPPORTUNITIES.

FOR SALE. A few shares of stock in this Company are offered for sale in quantities of 100 shares or more...

FOR SALE. A few shares of stock in this Company are offered for sale in quantities of 100 shares or more...

VIOLETS CINERARAS

\$1.50 per 100, \$30.00 per 1000. Marie Louise seed-grown, large and not a spot. Have never been troubled with disease in this section...

Write for special price on large lots. R. KILBOURN, - Clinton, New York. When Writing Mention Florists' Exchange.

Bride and Bridesmaid Roses

2 1/2 inch. \$2.00 per 100; \$20.00 per 1000. Golden Gaiety, 2 1/2 inch. \$1.50 per 100; \$15.00 per 1000. SMILAX PLANTS. \$1.50 per 100.

THE NATIONAL PLANT CO., Dayton, Ohio.

ROSES GARNATIONS.

4 in. POTTS. BENCH GROWN. Bride, Bridesmaid, Perle, Meteor, Papa Gontier, Woodon, \$5.00 per 100. Pres. Caron, \$10.00 per 100.

R. H. MURPHY, Urbana, Ohio.

Roses and Asparagus Plumosis

20 Marzetta, in 3 inch pots. \$3.00 per 100. 20 Bride, in 3 inch pots. \$3.00 per 100. 40 Bridesmaid, in 3 inch pots. \$4.00 per 100.

LEWIS ULRICH, - Tiffin, Ohio.

AMERICAN BEAUTY

SMILAX PLANTS, transplanted, 4 to 100. ASPARAGUS PLANTS, transplanted, 4 to 100. A. S. MacBEN, Lakewood, New Jersey.

AMERICAN BEAUTY

SMILAX PLANTS, transplanted, 4 to 100. ASPARAGUS PLANTS, transplanted, 4 to 100. A. S. MacBEN, Lakewood, New Jersey.

Horticultural Exhibition.

AMERICAN INSTITUTE FAIR,

MADISON SQUARE GARDEN, NEW YORK.

OCTOBER 25th to 30th. SPECIAL TRADE WEEK OF NOVELTIES.

PLANTS - Chrysanthemums, Roses, Carnations, etc.

Exhibitors to be allowed the privilege of tagging and putting prices on their exhibits and to sell and deliver any time during the week. No charge for entry or space.

A PORTION OF THE PRIZE LIST.

Table with columns for plant types (Chrysanthemums, Roses, Carnations), varieties, and prize amounts (First, Second).

Cut Roses.

Table with columns for plant types (Cut Roses), varieties, and prize amounts (First, Second).

Carnations.

Table with columns for plant types (Carnations), varieties, and prize amounts (First, Second).

The Society's Medal of Superiority, Medal of Excellence, Medal of Merit Diploma and Certificates will be awarded to meritorious exhibitors and new plants of blooms. Address inquiries and exhibits to JAMES W. WITHERS, Supt. of Horticultural Section, Madison Square Garden.

Exhibitors to be in position by 3 P.M. Monday, October 25th.

# Palms and Ferns

ORDER NOW, BEFORE  
COLD WEATHER. . . .



Established 1857.

Phone, L. V. 136.

**Geo. Wittbold,**  
Grower and Importer of  
**TROPICAL PLANTS,**  
1708 NORTH HALSTED STREET,  
Corner Aldine Avenue, CHICAGO, ILL.

Largest Stock of  
Tropical Plants  
in the West.

The following is a list of our stock. It is in excellent  
condition, and we are assured that we can please  
you, both as to quality and value. . . . .

## PALMS.

VARIETIES.	Size Pot.	Height		Character Leaves	Each	Doz.	100
		Inches	Feet				
<b>Areca Lutescens</b> , 3 plants in pot.....	4 inch.	12-14	30-34	8-10	\$7 75	\$8 80	\$30 00
" " " " " " " " " " " " " "	5 "	14-16	34-38	8-12	1 00	12 00	
" " " " " " " " " " " " " "	6 "	16-18	38-42	8-12	1 50	18 00	
<b>Corypha Australis</b> .....	5 "	18-20	7-8	5-6	75	8 00	
<b>Kentia Belmoreana</b> .....	6 "	18-22	8-10	7-8	75	7 50	
" " " " " " " " " " " " " "	6 "	16-18	6-8	6-8	75	7 50	30 00
" " " " " " " " " " " " " "	8 "	14-16	5-6	6-8	75	7 50	
" " " " " " " " " " " " " "	8 "	28-32	7-8	10-12	3 00	36 00	
" " " " " " " " " " " " " "	7 "	36-40	6-6	6-8	2 00	24 00	
" " " " " " " " " " " " " "	8 "	45-50	7-8	10-12	4 00	48 00	
" " <b>Forsleriana</b> .....	4 "	18-20	3-3	5-6	50	3 00	
" " " " " " " " " " " " " "	5 "	20-24	3-4	7-8	75	7 50	
" " " " " " " " " " " " " "	6 "	28-30	3-4	1 25	15 00		
" " " " " " " " " " " " " "	8 "	35-40	4-6	4 00	48 00		
<b>Lantana Borbonica</b> .....	3 "	12-14	1-1	1 50	10 00		10 00
" " " " " " " " " " " " " "	4 "	14-16	2-4	25	3 00	25 00	
" " " " " " " " " " " " " "	5 "	16-20	3-5	50	5 00	40 00	
" " " " " " " " " " " " " "	6 "	18-20	5-5	75	9 00		
" " " " " " " " " " " " " "	7 "	22-25	7	1 00	12 00		
" " " " " " " " " " " " " "	8 "	30-36	8-8	2 50	30 00		
" " " " " " " " " " " " " "	10 "	36-40	8-8	3 00	30 00		
<b>Phenix Reclinata</b> .....	3 "	18-20	6	6	6 00		
" " " " " " " " " " " " " "	4 "	22-24	4-5	75	9 00		
" " " " " " " " " " " " " "	5 "	26-30	5	1 00	12 00		
" " " " " " " " " " " " " "	6 "	30-36	4-5	50	6 00		
" " <b>Canariensis</b> .....	5 "	22-28	4-5	50	6 00		
" " " " " " " " " " " " " "	6 "	28-30	5-6	75	9 00		
" " " " " " " " " " " " " "	7 "	28-30	8-10	1 00	12 00		

Ferns.	Adiantum Cuneatum	Principis	from 4 inch pots.....	Per doz.	\$1 50
<b>Nephrolepis Exaltata</b> , from 2 inch pots.....	<b>Farleyana</b> , from 3 inch pots.....	<b>Farleyana</b> , from 3 inch pots.....	Per 100.	5 00	
" " " " " " " " " " " " " "	" " " " " " " " " " " " " "	" " " " " " " " " " " " " "	Per 100.	5 00	
" " " " " " " " " " " " " "	" " " " " " " " " " " " " "	" " " " " " " " " " " " " "	Per 100.	5 00	
" " " " " " " " " " " " " "	" " " " " " " " " " " " " "	" " " " " " " " " " " " " "	Per 100.	4 00	
" " <b>Nephrodium Moltia Cristata</b> , from 2 inch pots.....	<b>Onychium Japonicum</b> , from 3 inch pots.....	<b>Onychium Japonicum</b> , from 4 inch pots.....	Per doz.	4 00	
" " " " " " " " " " " " " "	" " " " " " " " " " " " " "	" " " " " " " " " " " " " "	Per doz.	5 00	

### MISCELLANEOUS PLANTS.

<b>Asparagus Plumosa Nanus</b> , from 2 inch pots.....	Per 100.	\$5 00
<b>Cyperus Alternifolius</b> , 4 inch pots.....	Per doz.	2 00
<b>Pandanus Ulms</b> , 4 inch pots.....	Per doz.	2 00

**LYCOPodium WREATHING**, in any quantity at 3 cts. per yard, up.

Order now while the warm weather lasts. All orders from unknown parties must be accompanied by cash or acceptable references.

When Writing Mention Florists' Exchange

## BULBS

We still have a stock of Hyacinths, Tulips, Harrisii, Longiflorums, Romans, etc.

## ELLIS & POLLWORTH,

MILWAUKEE, WIS.

BOX 75. When Writing Mention Florists' Exchange

## PRIMROSES

Extra fine large plants, out of 3 in. pots, grown from choice seed, \$4 per 100; \$30 for \$100.

## CARNATIONS.

Scott, Metcowan, Tidal Wars, E. Pierson, large nice plants, \$4 per 100.

Geo. H. Benedict, Yorkville, N.Y. When Writing Mention Florists' Exchange

## PRIMROSES AND GERANIUMS

Extra strong plants of Chinese Primroses: those strains to be had, 2 in., \$2.00 per 100; 2 1/2 in., \$3.00 per 100. Place your orders now for rooted cuttings of Geraniums, 16 best varieties, \$1.25 per 100; \$10.00 per 100, and get first-class stock. Rooted cuttings of **Hedera argentea** green, \$2.00 per 100. Rooted cuttings of **Forget-me-not**, blue, \$2.00 per 100.

Geo. M. Emmans Newton, N. J. When Writing Mention Florists' Exchange

**SHILAX**, as good as 4 in. pot plants, field-grown, \$2.25 per 100; from 2 1/2 pots, \$1.25 per 100; from 2 in. pots, \$1.00 per 100; from 1 1/2 in. pots, 75c per 100. **VIOLET plants, Marie Louise**, field-grown, fine clumps, \$3.00 per 100. **DRANGEA OFAKA**, from 2 1/2 in. pots, \$3.00 per 100. **ENGLISH IVY LEAVES**, 2 1/2 in. pots, by mail; \$2.00 per 1000 by express. Cash with order.

J. H. Dann & Son, Westfield, N. Y. When Writing Mention Florists' Exchange

## PRIMROSES.

Chinese Primroses, 3 in. pots, \$2.50 per 100. CINCERARIA, ready Nov. 1st..... Per 100 CHEVY-SANTHEMUS, 5 in. pots, 30 vars., 8 00 PANSY PLANTS, ready Oct. 15; 1000, \$3.00 doz. Cash with order.

JOS. H. CUNNINGHAM, Delaware, Ohio When Writing Mention Florists' Exchange

## NEW MAMMOTH . . . FRINGED HOLLYHOCK

# ALLEGHENY

A large, clear, FRINGED flower in all shades, from the faintest shell pink to the darkest red, 5 to 7 inches across, PERPETUAL bloomer, from July till frost. FROM 2 TO 4 BUDS AT EACH AXIL. The greatest novelty among the hardy perennials for years. The forerunner of a craze which will surpass the Chrysanthemum and Dahlia craze.

### Blooms First Year From Seed.

We send to all Florists, to introduce this novelty, one trade pkt. for 25 cts. Send stamps or silver. I received Highest Award at Springfield, Mass., in Aug., '97, and at Madison Square Garden, in Sept., '97.

NOTE.—From 2 to 4 buds at each axil which all develop in rotation, while in ordinary Hollyhocks only one is found.

**A. E. WOHLERT,**  
ALTOONA, PA.  
When Writing Mention Florists' Exchange

## CHINESE PRIMROSE PLANTS

**Primula obtusata umbriata**, extra strong plants, from 2 1/2 inch pots, single varieties, in separate colors, \$1.00 per 100. Double mixtures, \$2.00 per 100. **Double Primula**, white and red, \$4.00 per 100. Our plants are grown from the best strain in seed, the best white, reds and pinks predominating. Satisfaction guaranteed.

PAUL MADER, East Stroudsburg, Pa. When Writing Mention Florists' Exchange

## 10,000 Hardy Pinks

Field-grown clumps. Her Majesty and the rest, \$3.00 per 100; \$30.00 per 1000. **New Crimson Spiraea**, A. Waterer Field-grown plant, \$1.00 a doz.; \$3.00 a 100. **Fuchsia**s, in variety, labeled, 2 1/2 inch pots, \$2.00 per 100. **Geranium**, 10 of best sorts, labeled, \$2.50 per 100; \$30.00 per 1000. **Violets**, Field-grown, Swaney White, Lady Campbell and Calico. Strong, healthy clumps, \$4.00 per 100. **Lantana Borbonica Palm**, Well grown, strong and clean, 2 1/2 inch pots, \$4.00 per 100; 3 inch, \$6.00 per 100. **Pandanus Ulms**, Strong, well grown, 2 1/2 inch, \$2.00 per 100; 3 inch, \$3.00 per 100. **Asparagus Sprengerii**, Specimens in 6 inch pots, \$5.00 per dozen. **Rubber Plants**, Well grown, heavy set, perfect plants, 2 1/2 inches high, 6 inch pots, \$5.00 per dozen.

Satisfaction Guaranteed.  
**A. B. DAVIS & SON,** Puceville, Va. When Writing Mention Florists' Exchange



**Chicago.**

**Weather and Trade.**

The week opens up with an apparent cut to the grass, frost and heat. We have had no killing frosts in this vicinity. Carnations are yet ahead, and in fact, but they are not so far ahead. The growth blooms are coming in more freely. The Rogers Park Floral Co. is now bringing very good Armands, and also the very good Metowan. These and a few other good kinds fetch \$1 to \$1.25, the very best \$1.50; but the average is about the quantity of the latter, due to the being the price of a good deal of the flowers sold.

Roses are coming in better, with a good demand for all first-class flowers. The beautiful call for Beauty and Meteor and what President Carnot that do come into market. Prices remain the same as last week—\$2 to \$4—except for the finest long stem Beauty, which has now advanced to \$3 per dozen.

Chrysanthemums are more largely in evidence, the varieties so far being Merry Monarch, Emily Henderson, George de Kalb, Yellow Queen, Montmort, Bergmann, Glory of the Pacific, Midge, and a few Mrs. H. Robinsons, which sell at \$3 down to \$1. Jassett & Washburn's will be the very best. No new and desirable colors appeared before the Chicago committee.

There is still a few aurum lilies, and a very good variety of the same sort, which are in the market, the latter selling at \$1 per 100. If extra fine. Marguerites are also showing up in quantity. The dianthus, some magnonette, and heliopsis which is about all the variety there is to choose from.

Smilax is in good demand, showing that the retailers are getting some of it, indeed, the quantity of smilax is decidedly better than last year at the same time, and prospects are brightening for a good winter trade. The stock is fairly no stock accumulating in any of the wholesale houses as yet.

**Among growers.**

W. N. Ridd, Mt. Greenwood, has his usual quota of high-grade chrysanthemums. Pink Ivory, however, this year all reverted to white, there being not a sign of color in the whole batch. But for the difference in growth exhibiting in the Pink Ivory, one would be inclined to think a mistake had been made in selecting the cuttings. Has any other grower had the same experience? The Midge was the earliest white here, followed by George de Kalb, a very good variety, and a yellow batch of a seedling of 1896 of Mr. Ridd's, not yet named, from Yellow Queen crossed with E. Henderson, and a yellow amber, with the form of Mrs. E. G. Hill, gives great promise, and is said to come before the New York and Philadelphia committees on the 16th. E. M. Bigelow, Mrs. S. T. Murdoch, Mayflower, Major Bonanza, Yellow Queen, E. Balduccio, Mrs. Jerome Jones, Evangeline, Mrs. J. G. Giesener, and Modesto are among those showing up in this shape. Western King here, as at St. Louis, is hard to grow, and nothing is expected of it.

The carnations grown in the house, consisting of the varieties Mayor Pingree, Mrs. McKeon, and Mrs. G. Hill, are just now furnishing their first cuts. Mayor Pingree is very promising. Jubilee is not yet at its best. There are some excellent trained pot plants of chrysanthemums, and extra fine 10-inch geraniums and other plants growing in exhibition. One house of chrysanthemums is designed for very late flowers.

Albert Pugh, of Evanston, Ill., has thoroughly renovated his plant and built a fine new palm house 220 feet in length. This faces the glass front store and office, the vista from the street is charming. One of the windows of the store is built up with rockery, waterfalls, etc., and the entrance to the palm house is formed on the same plan, the rockery, fountains, etc., being made of Ohio porous rocks.

H. Schneider, Oak Park house has carnations the middle of August, and they are very promising. His violets, however, are all the same class, with light, partly of an, in excellent shape. The control of moisture about the plants during the late hot weather has, however, probably been very beneficial. With cooler weather they will soon be in fine flower, and yet there are no signs of frost, and the plants, generally, are smaller than usual.

**Around Town.**

The Illinois Cut Flower Co. will move shortly to a fine light basement under their present store.

started on the 11th with a brand new covered wagon to collect the supplies of flowers from Niles Center, Bowmanville and Tavenswood, that have heretofore been delivered by the express Co. They will charge less than the express companies, in that no charge will be made for supplies. They act in their own boxes for the purpose.

Florists in the city were: J. M. Gasser, Mr. Williams, and Will Rock (on his way to Kansas City), of Cleveland, Ohio; Mr. Drehr, of North Dearborn, Ill.; Mr. G. W. Little, of Mount Floral Co., Morris, Ill.; and W. H. Watson, of Lapeer, Michigan. EDGAR SANDERS.

**Washington.**

**Among The Growers.**

N. Studer is each year devoting more space to the cultivation of decorative plants, and less to the plants for cut flowers. Recently he has added to his collection most of the indoor plants, including the late John Saul. It is his intention to issue a catalogue shortly, and run the place with a general collection of plants. Crotons for bedding purposes occupy a large space; there are some thirty or more of the most of the meritorious new kinds, all looking in good order. Mr. Studer grows them in Dutch pots, and in the winter they are cooler during the winter than we usually see them. Of Ocotillo oranges there are over a dozen different sizes, all in fine bearing condition; some specimens in six and eight-inch pots about five feet in height, from 50 to 50fracts each. In one of the houses there is a fine batch of what seems to be either the new variety, or the form of N. acuta. The plants grow in four to five feet in height, quite broad and shiny on the surface. Mr. Studer says this fern is good for bedding, as the fronds last a cut stem two to three weeks. Nephrolepis davydovii, furcans fill a large house of plants, and are doing well. There are myriads of other ferns and cycloids in all stages of growth. Laurus nobilis, from six inches to one foot, all several houses, in all there are some 100,000 plants of this popular palm. Numerous cactuses have many varieties, most of which are exceedingly useful as decorations. The principal objection to them is the time they require to make useful sized plants. Mr. Studer has got a very good variety of the same, and a few feet long as quickly as a kentia. If the seed supply is inexhaustible it will be of great value.

In germinating large batches of palm seed, a section of benching is utilized. On a bench of slating, moss, chopped fine, or as a substitute, Jadoo fibre, to a depth of one inch is placed; the palm seeds are sown in this, and the benches are barely covered with the same material. If there is any vitality in the seed this method must result in more very much quicker than any other.

It is always a treat to walk through the greenhouse at the time of the Bros. Everything is kept in apple order; no old boards, dirty flower pots, or anything that is out of place. The plants are almost a time a dade in patent leather shoes could make the circuit of the place without thinking of mud. The chrysanthemums here have given some trouble this fall, owing to the tall growth they, or most of them, made. Cuttings were put in and the plants benched at the usual periods, but owing, it is supposed, to the unusually cool weather, they failed to grow to a height which has necessitated the lowering of many of the side benches. Some of the pink and white are in prime condition. Both of them are as good selling kinds here as any others at the particular time in which they come in bloom. Bergmann, Robinson, and Montmore are in full flower. Most of the last-named have already been cut. A few years ago chrysanthemums were grown in pots, but this method has been discontinued, as it takes too much time in attending to them, besides the returns do not justify it. The demand for plants in pots is as great as ever, but what the people want is plants ranging in price from 25 cents to \$1; the buyers who are willing to pay more do not show up very often. There are, however, plants in pots, and in full flower, after four weeks. Some good kinds for potting are grown in lots in the field all Summer, and during dull weather arched, potted, and put in a shaded cool house, where, if they are carefully tended, they do not show any bad effects from the change. Hydrangeas or Easter are grown in the same way very successfully. Some of the

plants treated this way last year were as fine as one could wish to see.

The Gude Bros. are building a handsome addition to the rear of their store on F street in the shape of a good-sized plant house, which as the occasion may require, will be utilized as a show place for decorative plants. It is the intention of these progressive young men to give displays of different classes of plants and flowers during the year. At one period there will be bulbous flowers and shrubs, at others roses, carnations, etc. Chrysanthemums, lilies, etc. From their experience in the past the money spent on these houses has always proved good investments. G. W. OLIVER.

**Baltimore.**

**The Market.**

Trade is dull, and flowers plentiful. Chrysanthemums are selling slowly. Roses and carnations are going better. Violets are poor.

Full and plant trade remains about the same as last week.

**Club Meeting.**

R. Vincent, Jr., gave us a talk on the ex-President S. A. F. W. R. Smith's remarks on the subject of carnations. Mr. Vincent detailed the position of the carnation or vegetable grower, stating among other things that he required a considerable amount of skill to grow good vegetables, and that often the growing of vegetables led to the growing of flowers. His remarks were listened to with much interest.

Mr. Moss showed a beautiful sport of La France rose. The color of this sport is a fine brilliant deep pink, with a scarlet shading. Mr. Moss stated that this sport grew as well as the type, with the exception that the leaf as well as the flower was much more firm.

**Notings.**

Fakes are now selling Dutch bulbs on the streets.

Palms at a recent auction brought ridiculously low prices.

EDWIN A. SEIDEWITZ.

**Newark, N. J.**

Andrew Linsensman, florist, Thirteenth street and Springfield avenue, was married October 10, to Frl. Anna Pfeiffer.

**Taunton, Mass.**

E. F. Rose has completed a new greenhouse, 1,000 ft. feet, for carnation growing.

**Evans' Improved Challenge.**

Roller bearing, self-oiling device automatic stop, and other features make the IMPROVED CHALLENGE the most perfect apparatus in the market.

Write for catalogue and prices before placing your orders elsewhere.

Quaker City Machine Co., RICHMOND, IND.

When Writing Mention Florists' Exchange

**VALVES AND FITTINGS**  
For Pipes and Tubing.  
VENTILATING APPARATUS.

COLDWELL, WILCOX CO., Newark, N. Y. SEE OUR CATALOGUE. Mention paper.

**IF YOU WANT GOOD SASH LIFT**  
For a Very Little Money Get

THE NEW DEPARTURE VENTILATING APPLIANCE.  
For Descriptive Catalogue send to J. D. CARMODY, Evansville, Ind.

When Writing Mention Florists' Exchange

**Hot-Bed**

**Sash**

Tenons white-leaded. Corners secured with iron rods, pins. Every detail of construction perfect. Made of Clear Cypress Lumber.

**Quick Shipments.**

We have in stock and can ship immediately:

- 3 ft. x 6 ft. L., 3 rows 10 in. glass.
- 4 ft. x 6 ft. L., 4 " 8 in.
- 4 ft. x 6 ft. L., 5 " 8 in.

Not glazed, 1 1/2 in. thick.

**Delivered Prices**

Quoted on application. State size and quantity wanted. No order too small to receive careful attention, and none too large for our facilities.

**LOCKLAND LUMBER CO.,**  
Lockland, Ohio.

When Writing Mention Florists' Exchange

**SUMMER IN WINTER**

**By Using**

**Standard Greenhouse Boilers**  
One cent gets our Catalogue.

GIBLIN & CO., - Utica, N. Y.

When Writing Mention Florists' Exchange

**CYPRESS**  
IS MUCH MORE DURABLE THAN PINE.

**CYPRESS SASH BARS**  
UP TO 32 FEET LENGTH ON LONGER.

**GREENHOUSE**  
AND OTHER BUILDING MATERIAL.

Send for our illustrated catalogue "CYPRESS LUMBER AND ROSES". Send for our Special Greenhouse Catalogue.

**THE T. STEARNS LUMBER CO.,**  
NEWPORT, BOSTON, MASS.

When Writing Mention Florists' Exchange

**CYPRESS**  
GREENHOUSE MATERIALS  
FOR ALL KINDS OF CONSTRUCTION

**JOHN C. MONINGER**  
CO.

412 to 422  
HAWTHORNE AV.  
CHICAGO, ILL.

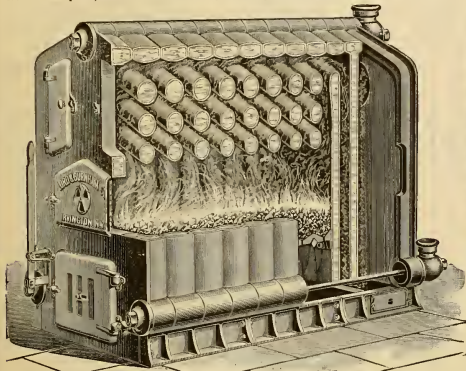
When Writing Mention Florists' Exchange

### LORD & BURNHAM CO.,

Horticultural Architects and Builders and Manufacturers of Heating and Ventilating Apparatus.

(Established 1856.)

Plans and estimates furnished on application for Heating and Ventilating Apparatus erected complete, or for material only. Highest Awards at the World's Fair.



NEW SECTIONAL HOT WATER HEATER.

Specialty adapted to large ranges. Will heat up to 16,000 feet of glass. Highest economy. Moderate cost. Also heaters for smaller work. Send six cents postage to New York office for latest catalogue of Heating and Ventilating Apparatus.

NEW YORK OFFICE: 160 FIFTH AVE., COR. 21<sup>ST</sup> ST. GENERAL OFFICE AND WORKS: IRVINGTON-ON-HUDSON, N. Y.

When Writing Mention Florists' Exchange

### The Agricultural Drain Tile

made by JOHN H. JACKSON, ALBANY, N. Y. Are the best and most perfect drainage equipment and superior clay will produce. The drained land is the earliest, most worked and most productive. Made also sewer Pipes, Chimney Tops, Red and Fire Brick, Oven Tile and Supply Mortar Colors, Cement, Plaster, Limes, etc. Write for latest prospectus. 11 Third Ave.

When Writing Mention Florists' Exchange

### SEND FOR LUCAS ON GLASS

4 Pamphlets tell all about it. JOHN LUCAS & CO. PHILADELPHIA.

When Writing Mention Florists' Exchange

### GLASS FOR GREENHOUSES, CONSERVATORIES, GRAPERIES, HOTBEDS AND FLORISTS' USE GENERALLY, AT LOWEST RATES.

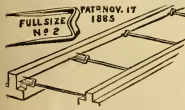
L. HARRIS & SON, 497 W. BROADWAY, NEW YORK, 89 LIBERTY ST., NEW YORK, Est. Foundation and Blocker Etc.

When Writing Mention Florists' Exchange

### GLASS! For Greenhouses, Conservatories, Graperies, Hotbeds and all other purposes, at Lowest Rates. GLASS!

N. COWEN'S SON, 392 & 394 West Broadway, New York, Formerly 154 and 156 So. Fifth Avenue. Get our Figures before buying Glass. Estimates Freely Given

When Writing Mention Florists' Exchange



### THE VAN REYPER PERFECT GLAZIERS' POINTS

No rights or lefts. Price per box of 1000, 60c, by mail, 75c., in lots of 5000 by ex., 55c. per 1000

HENRY A. DREER, 714 Chestnut St., Phila., Pa.

When Writing Mention Florists' Exchange

### MASTICA

FOR GLAZING GREENHOUSES. SUPERIOR TO PUTTY IN EVERY WAY.

Is not hardened by the extreme heat or cold that a greenhouse is constantly subjected to both inside and out. Mastica is adhesive and remains permanently elastic so that it is not forced out of place by expansion and contraction of the woodwork. Houses glazed with Mastica do not need re-glazing, thus saving time and expense. With Mastica can "bed-in" or use on the outside, but with a machine only.

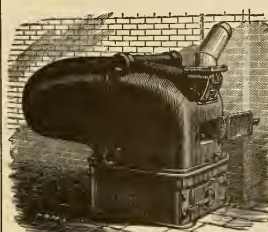
Highest Award of Society of American Florists at Pittsburg, 1895. Put up in gallons, \$1.00. Half gallons, 60c. Quarter gallons, 35c. Mastical Glazing Machines, \$1.00 each.

Send for full descriptive circular and testimonials. Agents in all the principal cities.

F. O. PIERCE CO., Sole Manufacturers, 170 Fulton St., New York.

When Writing Mention Florists' Exchange

### GREENHOUSE HEATING AND VENTILATING, Horticultural Architecture and Building.



### Fitchings & Co

ESTABLISHED 1844. 233 Mercer Street, NEW YORK.

FIVE PATTERNS OF BOILERS, NINETEEN SIZES, Perfect Sash Raising Apparatus.

Reehouses, Greenhouses, Etc., of Iron Frame Construction erected complete or the Structural Iron Work shipped ready for erection.

Iron Frame Benches with the "Perfect Drainage Bench Tile" at Slate Tops.

Mention paper

SEND 4c. POSTAGE FOR ILLUSTRATED CATALOGUE. When Writing Mention Florists' Exchange

### PIPE VALVES

Wrought Iron Pipe, Valves, Cocks, Fittings, etc., for Steam and Hot Water; Rubber Hose, Pumps and Well Points. WM. H. KAY, 42 Day St., New York.

When Writing Mention Florists' Exchange

### CALIFORNIA RED CEDAR Never Decays. A. DIETSCH & CO. 619 Sheffield Avenue, CHICAGO.

MANUFACTURERS OF RED CEDAR AND CYPRESS GREENHOUSE MATERIAL.

When Writing Mention Florists' Exchange

### DONT'S SYRINGE WITH COLD WATER

And so lower the vitality of your Stock, inviting Mildew, Black Spot, and other Diseases, but write for particulars of my Tempering Apparatus.

### HENRY W. GIBBONS, HEATING ENGINEER AND GREENHOUSE BUILDER

136 LIBERTY STREET, NEW YORK.

When Writing Mention Florists' Exchange

SEND FOR OUR NEW CATALOGUE, WHICH SHOWS

### The New Automatic Cable Ventilator

As it is put up in the house complete. We also give you prices with a guarantee that each machine sent out will operate your house successfully. Still machines now made in two sizes.

A. Q. WOLF & BRO., Dayton, Ohio.

When Writing Mention Florists' Exchange

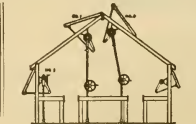
### TRADE GREENHOUSES. THE BEST MADE.

"Florists" Get Your Plans and Estimate from PLENTY'S HORTICULTURAL WORKS, 148-156 Randolph Ave., JERSEY CITY, N. J.

When Writing Mention Florists' Exchange

### STANDARD VENTILATING MACHINE.

NONE EQUAL IT IN Strength AND Durability



NOTHING Flimsy OR Comlicated about it.

Send for Catalogue. E. HIPPARD, YOUNGSTOWN, OHIO

When Writing Mention Florists' Exchange

**J. K. ALLEN,**  
Wholesale Commission Dealer in  
**CUT FLOWERS,**  
57 W. 28th St., New York.  
Orders by mail or catalogue promptly attended to.  
Telephone Call, 362 28th St.  
ROSES AND VIOLETS SPECIALTIES.

**W. S. ALLEN,**  
17 West 28th St., New York.  
Correspondence Solicited.

ESTABLISHED 1901.  
**C. E. BRADSHAW,**  
125 W. 30th St., NEW YORK,  
Wholesale Dealer in  
**CUT FLOWERS**  
Choice Saxifrage and Carnations, Specialties.  
CONSIGNMENTS RESPECTFULLY SOLICITED.

**J. B. EZEHEL,**  
Wholesale Florist,  
42 West 9th St., NEW YORK.  
Telephone 2723-18th.  
Asparagus, Valsies, Carnations,  
Specialties. <sup>187</sup> Consignments Solicited.

**FORD BROS.**  
**WHOLESALE FLORISTS,**  
111 West 30th Street,  
NEW YORK.  
Consignments Solicited. Telephone 260 39th St.

**WM. H. CUNTER,**  
Wholesale Florist  
VIOLETS AND CARNATIONS A SPECIALTY.  
Consignments Solicited.  
30 West 29th St., New York.  
Telephone, 3200-38th Street.

**MICHAEL A. HART,**  
Wholesale & Commission Florist,  
115 W. 30th St., New York.  
Telephone Call, 327 30th St.  
All kinds of Roses, Violets and Carnations  
a specialty.  
ORDERS PROMPTLY ATTENDED TO.

**H. A. HOFFMANN,**  
Wholesale Florist  
44 W. 29th St., New York.  
Telephone Call, 1638 28th St.  
American Beauties, White Violets, Adiantums.  
Specialties. CONSIGNMENTS SOLICITED.

**EDWARD C. HORAN,**  
**WHOLESALE FLORIST,**  
No. 34 W. 29th St., New York.  
The Bride, Mornnet and American  
Beauty, Specialties.

**JULIUS LANG,**  
**Wholesale Florist**  
53 West 30th St.  
Consignments Solicited. NEW YORK.  
When Writing Mention Florists' Exchange

BUY DIRECT FROM THE GROWER.  
**ERNST C. ASMUS** Wholesale Florist.  
ROSE SPECIALTIES:  
Arl. Beauty  
Bride  
Armsmaid  
Festoon  
K. A. Victoria  
VIOLETS, ORCHIDS, CHRYSANTHEMUMS  
AND CARNATIONS.  
Grewer of the only VALLEY receiving a N.Y. CUT FLOWER CO.  
CALL. 733 18TH. Special attention given to shipping orders. 112-114 W. 24th St., N.Y.  
When Writing Mention Florists' Exchange

A. L. VAUGHAN. CHAS. W. MCKELLAR. E. F. WINTERSON.  
**VAUGHAN, MCKELLAR & WINTERSON,**  
**WHOLESALE COMMISSION JOBBERS**  
In Cut Flowers, Plants, Bulbs, Seeds, Xmas Holly, Bouquet Green,  
and all Florists' Supplies. Manufacturers' Wholesale.  
45, 47, 49 WABASH AVENUE, NEW YORK - CHICAGO, ILL.  
When Writing Mention Florists' Exchange

**\* Wholesale Prices of Cut Flowers \***

N. Y. AND VARIETIES.	NEW YORK	BOSTON	PHILADELPHIA	CHICAGO	ST. LOUIS
	Oct. 10, 1897.	Sept. 30, 1897	Oct. 10, 1897	Oct. 5, 1897.	Sept. 14, 1897.
A. Beauty, fancy and special	25.00 to 25.00	12.50 to 25.00	10.00 to 25.00	8.00 to 25.00	...
" extra .....	10.00 to 15.00	6.00 to 10.00	12.00 to 20.00	10.00 to 10.00	...
" No. 1 .....	1.00 to 2.00	1.00 to 4.00	1.00 to 4.00	1.00 to 2.00	...
" Cut .....	50 to 3.00	...	5.00 to 15.00	3.00 to 6.00	...
" Oils and ordinary .....	...	...	...	...	...
Bennett, Cullin .....	25 to 1.00	...	2.00 to 4.00	2.00 to 5.00	1.00 to 3.00
Bride .....	1.00 to 4.00	1.00 to 5.00	2.00 to 6.00	2.00 to 4.00	1.00 to 3.00
Bridemaid .....	50 to 4.00	1.00 to 4.00	2.00 to 5.00	2.00 to 5.00	1.00 to 3.00
K. A. Victoria .....	75 to 4.00	2.00 to 8.00	2.00 to 5.00	2.00 to 4.00	1.00 to 4.00
Ja Franco .....	...	...	...	...	...
Mornnet .....	1.00 to 4.00	2.00 to 4.00	2.00 to 5.00	1.00 to 4.00	...
Mrs. E. Morgan .....	1.00 to 4.00	1.00 to 5.00	3.00 to 5.00	2.00 to 4.00	1.00 to 4.00
Nippon .....	...	...	...	...	...
Nippon, Hoite .....	...	...	...	...	...
Papa .....	...	...	...	...	...
Petit .....	25 to 1.50	1.00 to 4.00	2.00 to 4.00	2.00 to 3.00	1.00 to 3.00
Sage of Wood .....	...	...	...	...	...
Virgin Brunner .....	...	...	...	...	...
Vatville .....	...	...	...	...	...
W. S. .....	50 to 75	50 to 1.50	75 to 1.00	75 to 1.00	1.00 to 1.50
ASPARAGUS .....	...	...	...	...	...
ADIANTUM .....	...	...	...	...	...
ORCHIDS .....	...	...	...	...	...
GALAX .....	...	...	...	...	...
All colors, inferior grades	...	...	...	...	...
SPRAYED (White)	50 to 75	50 to 75	75 to 1.00	75 to 1.50	1.00 to 1.50
RED (Pink)	50 to 75	50 to 75	75 to 1.00	75 to 1.50	1.00 to 1.50
RED (Red)	50 to 75	50 to 75	75 to 1.00	75 to 1.50	1.00 to 1.50
YEL. & VARIE	50 to 75	50 to 75	75 to 1.00	75 to 1.50	1.00 to 1.50
*FANCY*	...	...	...	...	...
(Top highest)	75 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
(Medium)	75 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
(Lowest)	75 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
(Tel. & Vari)	25 to 3.00	...	...	...	...
NOVEMBER .....	25 to 3.00	...	...	...	...
CUTTING .....	30.00 to 40.00	...	...	...	...
CHRYSANTHEMUM .....	...	...	...	...	...
GARDEN .....	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
LIPIES-AURUM .....	...	...	...	...	...
Longiflorum .....	...	...	...	...	...
LYE OF THE VALLEY .....	3.00 to 3.00	2.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
MONARCH .....	...	...	...	...	...
SUNLAX .....	5.00 to 10.00	8.00 to 15.00	12.00 to 15.00	10.00 to 15.00	10.00 to 15.00
VIOLETS .....	50 to 75	50 to 75	75 to 1.00	75 to 1.00	1.00 to 1.50

For Prices of Fancy and Special Stock see our Correspondence Columns.  
Prices are for quantities of one hundred unless otherwise noted.  
Prices quoted above are given only after very careful inquiry, and while we do not  
warrant their accuracy, they will be found practically correct up to the date mentioned.

**RENBERG BROS.** Wholesale Growers of Cut Flowers.  
..... 500,000 Feet of Glass .....

We can fill all orders on short notice with all leading varieties of ROSES and  
CARNATIONS. We are headquarters for fine AMERICAN BEAUTIES.  
Give us a trial and convince yourself.  
**SALESROOM 51 Wabash Avenue, CHICAGO, ILL.**  
When Writing Mention Florists' Exchange

**SAMUEL S. PENNOCK,** WHOLESALE  
ROSE  
A fine stock of Roses, Valsie, Carnations, Sunlax, Etc., coming in, of which  
we can fill orders on the shortest notice.  
**EXTRA FINE STOCK OF BEAUTIES.**  
1612-1614 Barker St., Bet. Chestnut & Market Sts. Philadelphia, Pa.  
Local and Long Distance Phone 5310. Open until 8 P. M.  
When Writing Mention Florists' Exchange

**CITY HALL CUT FLOWER MARKET**  
15 Province St. and 9 Chapman Place,  
**WELCH BROS.** (Long Distance Telephone 2071), Boston, Mass.  
New England headquarters for Choice Chrysanthemums, American  
Beauties, and other varieties of Roses, Carnations, Violets, etc. Orders  
can be filled promptly from the produce of sixty-five growers, if not will telegraph.  
Hardy Ferns, Southern Sunlax, Galax Leaves, always on hand.  
When Writing Mention Florists' Exchange

**MacDonald & McManus,**  
**Wholesale Florists**  
AND DEALERS IN  
**CUT FLOWERS.**  
50 W. 30th St., NEW YORK.  
Solely shipments of Cut Flowers on Com-  
mission. Best market prices guaranteed.  
Telephone, 3778-24th Street.

**FRANK MILLANG,**  
Wholesale Commission Dealer  
...in Cut Flowers...  
408 East 34th St., New York City.  
Cut Flower Exchange. Telephone Call, 1654-38th.

**THE NEW YORK CUT FLOWER CO.**  
119-121 West 23d Street,  
112-114 West 24th Street,  
Telephone 722-18th. NEW YORK.  
CONSIGNMENTS SOLICITED.  
Special Attention Given to Shipping Orders.

**F. A. ROLKER,**  
WHOLESALE DEALER IN  
**CUT FLOWERS**  
53 West 28th Street,  
Telephone 2379 38th St. NEW YORK.

**W. P. SHERIDAN**  
Wholesale Commission Dealer in  
**CUT FLOWERS**  
39 West 28th St., New York.  
Telephone, 21-38th St.  
PRICE LIST SENT ON APPLICATION.

FRANK H. TRASKER. CHARLES SCHWAB.  
**TREANDLY & SCHENCK,**  
Wholesale Florists,  
38 W. 28th St. and CUT FLOWER EXCHANGE,  
NEW YORK.  
Telephone 601-18th St.  
<sup>187</sup> Consignments Solicited

**JOHN YOUNG,**  
**Wholesale Florist,**  
51 WEST 28th ST.,  
NEW YORK.

**KENNICOTT BROS. COMPANY,**  
**Wholesale - Cut - Flowers,**  
88 Wabash Avenue,  
CHICAGO, ILL.  
WIRE WORK A SPECIALTY.

**ROGERS PARK FLORAL CO.,**  
**Wholesale Growers of Cut Flowers**  
OFFICE AND SALESROOM,  
41 WABASH AVE., CHICAGO.  
Headquarters for AMERICAN BEAUTIES.

**ILLINOIS CUT FLOWER CO.,**  
J. B. DEAMUD MANAGER,  
Wholesale Commission Florists,  
51 Wabash Avenue, - CHICAGO.  
When Writing Mention Florists' Exchange

**Wholesale Florists**  
WHOLESALE FOR BRANDS  
 CHRISTMAS  
 BIRTHDAYS  
 WEDDINGS

**FLORISTS' SUPPLIES.**  
**FLORISTS' VASES.**  
 Horticultural Artificers,  
**64 HAWLEY STREET, - BOSTON.**

**GEO. A. SUTHERLAND,**  
 Successor to WM. J. STEWART,  
**CUT FLOWERS and FLORISTS' SUPPLIES**  
**WHOLESALE.**  
 67 Bromfield St., Boston, Mass.

**WM. J. BAKER,**  
**Wholesale Florist**  
 1432 So. Penn Square,  
 Philadelphia, Pa.

**DUMONT & CO.,**  
**WHOLESALE FLORISTS**  
 CARNATIONS A SPECIALTY.  
 No. 1305 Filbert St., Philadelphia.

**Cincinnati.**  
 The trade during the past week has brightened up considerably, and stock is getting a little more plentiful. Roses are doing better. Larger sizes, and prices for good flowers are steadily advancing. All good stock is rapidly clearing up. Chrysanthemums are coming along nicely. Glory of the Pacific and Mrs. Henry Robinson are now in this market, grown and shipped by A. B. Aldrich, of Springfield, O. A recent visit to this establishment shows that the coming winter has been doing some work during the past season. His chrysanthemums, taken near White, are well grown, and a house of Robinson, in full bloom is a grand sight. Mrs. E. G. Hill, with blooms measuring eight inches across and on a stem four feet in length, was a surprise to me. As you all know, this variety always wants to grow out of the bottom of the plant. A house each of Bride and Bridesmaid and one of Meteor certainly look promising. Carnations have suffered from lifting, but will improve with a little care.

**An Exhibition.**  
 Saturday, October 9, was our first monthly exhibition in the flower market. Our schedule was late in being issued, and we did not expect to have much of a display. However, we were very agreeably disappointed, and the showing was a very creditable one. Citizens were to have been the special feature, but owing to dry weather, the city greenhouses were the only ones who had any to stage. They showed some of the new varieties. Their exhibit of orchids and ferns was also very prominent. Many of the plants of Nephrolepis fostonensis being especially well done.

The Holmeister Floral Co. had a nice display of Yellow Queen and Bergmann chrysanthemums, Beauty, Bridesmaid, Meteor, Perle, and Flora Hill, Scott, Daybreak, and Alaska arrangements.

Theo. Beck staged Glory of the Pacific and Elysian, trying to tempt me. The latter named is of a very pleasing color (pink), but too small to be of much value commercially. Mr. Beck also had Alaska, carnation and Huber dahlia, a scarlet, about the size of a silver dollar, and very pretty.

A. Sanderbruch's Sons displayed lily of the valley, Daybreak carnation, Asparagus plumosus, and Margen, Bridesmaid, Meteor, Perle, and Bride roses. C. C. Murphy had a fine vase of Hilaria's. This carnation appears to be a good one, and the growers who bought it seem well pleased.

**S. FROWERT,**  
**Wholesale Florist,**  
 17 North 13th Street,  
 PHILADELPHIA, PA.  
 Consignments Solicited. Special Attention Given to Shipping Orders.

**EDWARD REID,**  
**Wholesale Florist**  
 1526 RAYBREAD STREET,  
 Bet. Market & Chestnut, PHILADELPHIA  
 All CUT FLOWERS in Season.  
 Phone 306 A.

**WM. C. SMITH,**  
**Wholesale Florist,**  
 40 S. 16TH ST.,  
 PHILADELPHIA.  
 Roses, Carnations, etc. Commodore Solicited.

**Buffalo Cut Flower Exchange**  
**WHOLESALE COMMISSION.**  
CONSIGNMENTS SOLICITED.  
 481 Washington St., BUFFALO, N. Y.  
 Telephone, Seneca, 150.

George & Allen carried off the award for lily of the valley. This firm is so far along a long-drawn war, and their roses will place Chocotoni on her feet again as a rose market. Beauty, Bride, Bridesmaid, Meteor, and Perle are to be found growing in good shape.

Gas, Adrian had a new seedling white carnation of 1896; percentage, Albertini and a sport of Daybreak. It is very compact, and heavily fringed, with good stem, fragrant, and a perfect calyx. It was exhibited for the Society's certificate, but must be viewed by the judges at least three times, in order to receive the award. J. D. Fun had a specimen Mrs. Charles Pfeiffer, a nice plant of Cyceus revoluta.

At the meeting, one new member was elected. The Society's prospects for the coming winter are very flattering, and we look forward from now on to having grand exhibits each month, including many from outside sources.

E. G. GILLET.  
**Fort Wayne, Ind.**

W. J. & M. S. Vesey are shipping considerable stock, and are giving close attention to the retail trade than formerly. Mr. Vesey reports more favorably on the subject of fire insurance. He has the matter thoroughly at heart, and is well read in law matters. The craft should have no hesitancy in placing their confidence in the gentleness who comprise the committee in charge of this important matter.

**ASPARAGUS PLUMOSUS NANUS,**  
**W. H. ELLIOTT, - Brighton, Mass.**  
 When Writing Mention Florists' Exchange

**HARDY FERNS**  
 WARRANTED FIRST QUALITY.  
 Write for Prices.  
 ALSO DEALER IN  
**BOUQUET GREEN, SPAGNUM MOSS, CHRISTMAS TREES**  
 Etc., Etc., Etc.  
**L. B. BRACUE, - HINSDALE, MASS.**  
 Oldest, Largest, and Most Reliable Dealer in the United States.  
 When Writing Mention Florists' Exchange

**MAX RUDOLPH,**  
**Wholesale Florist**  
 All Seasonable CUT FLOWERS.  
**FINE ROSES.**  
 Shipping orders a specialty. Consignments Solicited.  
 11 W. 12th St., - CINCINNATI, O.

**H. L. SUNDERBACH CO.,**  
**Wholesale Commission Florists,**  
 4th and Walnut Streets,  
 CINCINNATI, OHIO.  
 Consignments Solicited. Special Attention Given to Shipping Orders.

**C. A. KUEHN,**  
**WHOLESALE FLORIST,**  
 1122 Pine St., St. Louis, Mo.  
 A COMPLETE LINE OF WIRE DESIGNS.

**C. W. WORS,**  
**Wholesale Florist,**  
 913 N. LEFFINGWELL AVENUE,  
**ST. LOUIS, MO.**  
**FINE ROSES**—Shipped carefully to all parts of the country.

**Brooklyn, N. Y.**  
 C. Abrams will be in charge of the plant and cut flower store in the Liebman Arcade, which was opened October 15, with an exhibition of chrysanthemums.

**Geneva, N. Y.**  
 The safe in the office of the W. T. Smith nursery was blown open recently, and \$30 in money extracted. The work looked very much as if it had been done by experts.

**SMILAX STRINGS** Extra choice, 10 cts. per string. **FLANES**, strong, from 3 inch pipe, \$1.50 per 100; from 2 inch pipe, \$1.25 per 100. **GUSH** with order, please.  
**GEO. STAFFINGER, Springville, N. Y.**  
 When Writing Mention Florists' Exchange

**Galax Leaves.**  
**CHAS. H. RICKSECKER, Linville, N. C.**  
 When Writing Mention Florists' Exchange

... FINEST ...  
**GALAX LEAVES and LECUOTHO SPRAYS.**  
 Green Galax Leaves are now ready to ship. ALWAYS WRITE THE INTRODUCERS.  
**HARLAN P. KELSEY,**  
 1123 Tremont Building, BOSTON, MASS.  
 When Writing Mention Florists' Exchange

Cut Strings, 10 to 12 feet long, 50 cts. each.  
 Shipped to any part of the country.  
**W. M. ELLIOTT, - Brighton, Mass.**  
 When Writing Mention Florists' Exchange

**HEADQUARTERS** In Western New York. Try us  
**ROSES, CARNATIONS and ALL SEASONABLE FLOWERS.**  
**WM. F. KASTING,** Wholesale Commission Florist  
 496 Washington Street, BUFFALO, N. Y.  
 Also Dealer in Florists' Supplies & Wire Designs

**St. Louis Cut Flower Co.**  
 WHOLESALE FLORISTS,  
 1620 Olive St., ST. LOUIS, MO.  
 When Writing Mention Florists' Exchange

**E. G. HILL & CO.,**  
**Wholesale Florists,**  
 RICHMOND, INDIANA.  
 When Writing Mention Florists' Exchange

**CHOCOLATE COOLER CO.,**  
 GRAND RAPIDS, MICH.  
 Manufacturers of  
**FLORIST'S REFRIGERATORS.**  
 Send for Circular.  
 When Writing Mention Florists' Exchange

**HARDY CUT FERNS**  
 Eight million on hand. Price for Fall and Winter supplies. Fancy or Plaster, fine quality. See prices per lb. **SPAGNUM MOSS**, fine quality. See prices per lb. **HANQUET GREEN**, etc. in the Department News of fine quality. See prices per lb. **DIAPHRAGM** attached to Ferns.  
 P. O. Box 54, Hinsdale, Mass.  
 When Writing Mention Florists' Exchange

**ASPARAGUS ROOTS FOR FORCING.**  
 Have a large stock of Asparagus Roots, 3 and 4 years strong, considered large enough for forcing in greenhouses. **CONOVER'S, HARR'S** and **Palmette**. Orders will be looked for  
**WMAS HOLLY,**  
 December shipment. Prices of the above on application. State quantity desired.  
**ALEXANDER PULLEN, Milford, Del.**  
 When Writing Mention Florists' Exchange

**GREEN FERN CO.**  
 Proprietors of and Patrons of the most complete line of all kinds, Christmas Trees, Etc. Lowest Prices. Write for First Quality Goods. We carry stock on all goods desired. 27 Beacon St., Boston, Mass.  
 When Writing Mention Florists' Exchange

**HEADQUARTERS**  
 ...OF...  
**PAMPAS PALMS**  
**CALIFORNIA**  
 Tree and Shrub Seeds, Sunhax, Cobax, Greenhax, Rubhax,  
**PALM SEEDS, Etc.**  
 Ask for Special Prices.  
**GERMAIN FRUIT CO.,** LOS ANGELES CAL.  
 When Writing Mention Florists' Exchange

# A NEW SEED AND BULB FIRM

J. H. WALTER, President,  
Late Treasurer,

G. G. STUMPP, Treasurer,  
Late Manager Florists' Flower Seed Department,

HENRY EICKE, Secretary,  
Late Secretary and General Manager,

OF THE **F. E. McALLISTER CO.**

## 50 BARCLAY ST., New York

WHERE YOU CAN FIND A COMPLETE LINE OF FLORISTS' SUPPLIES, FOR THE STORE OR GREENHOUSE.

Immortelles, Metal and Wire Designs, Doves, Baskets, etc. Smilax Thread, Potted Plants, Cane Stakes, Gazing Points, Thermometers, etc.  
HIGH GRADE FLORISTS' FLOWER SEEDS AND BULBS.

Our Special List of Guaranteed HOLLY, ENGLISH HUSTLETOE, BOUQUET GREENS, and everything suitable for the Holiday Trade will be issued within a few days.

SEND IN YOUR NAME AND WE WILL MAIL ONE TO YOU.

## STUMPP & WALTER CO., Seed and Bulb Growers and Importers, 50 BARCLAY ST., NEW YORK.

When Writing Mention Florists' Exchange



### NO ADULTERATION BONE FLOUR NO ACID

Refer to: Fred. Dörner & Sons Co., La Fayette, Ind.  
J. H. Taylor, Rapids, N. Y.  
A. W. Livingston's Sons, Columbus, O.  
L. F. Kay & Co., St. Paul, Minn.

Geo. S. Bartlett, 1255-1257 W. 6th St., Cincinnati, O.  
SUCCESSOR TO CINCINNATI DESICCATING CO.

When Writing Mention Florists' Exchange

### WOODEN LABELS FOR NURSERYMEN AND FLORISTS.

Printed on Plain. Put up in Neat Packages or in Bulk.



Also Stakes of all kinds, send for Particulars.

WOODEN GOODS CO., MINNEAPOLIS, MINN., U. S. A.  
When Writing Mention Florists' Exchange

## Florists' Supplies. Largest Stock in the Country.

All goods up to date, and of superior quality. Write to us for prices and other information.

H. BAYERSDORFER & CO.,  
66 N. FOURTH STREET, PHILADELPHIA, PA.  
When Writing Mention Florists' Exchange

## GOOD TIMES ARE COMING!

HURRY THEM A BIT!

This by using the new "FLORAL ART" Catalogue to give customers ideas of Designs Cut Flowers, Prices, etc. It shows 96 Arrangements. Adapted to any business. Five Editions. Samples, 20 cts. In stamps. The five editions for 80 cts. Priced circular free.

DAN'L. B. LONG, PUBLISHER, BUFFALO, N. Y.  
When Writing Mention Florists' Exchange

## Wire Designs. Wire Designs. Wire Designs.

CHEAP! CHEAPER!! CHEAPEST!!!

The Klondike and Alaska outcrops. Have you seen it? Do you want it? You need it. All progressive Florists refer to it. Will be out last of October.  
JAS. GRIFFITH'S LATEST CATALOGUE AND HARD TIMES DESIGN LIST.  
Lowest prices ever quoted. FREE! FREE! Send for it. Reserve your orders until you consult it. Send at once before they are gone.

To JAMES GRIFFITH, Wire Designer,  
701 Main Street, CINCINNATI, OHIO.  
When Writing Mention Florists' Exchange

## SAVE 50% DUTY

ON METAL FLORAL DESIGNS By Burial of the Metal Factor. Also on Largest Stock, Best Goods, Lowest Prices.

ALL FLORISTS' SUPPLIES SECOND TO NONE. WRITE FOR CATALOGUE.

A. HERRMANN, 404, 406, 408, 410, 412 East 34th Street, NEW YORK CITY.  
Manufacturers of METAL FLORAL DESIGNS, Importer and Dealer in FLORISTS' SUPPLIES.  
When Writing Mention Florists' Exchange

### MANURE.

Fresh and well rotted horse manure. Manure for Manure growing a specialty. Excellent facilities for shipping by Penn. R. R. & N. Y. R. & O. and also by boat. Write for Particulars, Room 316, 115 Filbert Street, Philadelphia, Pa.

When Writing Mention Florists' Exchange

### "JADOO"

FIBRE AND LIQUID are used and endorsed by the leading growers. Try them and be convinced.

M. RICE & CO.,  
Importers and Manufacturers of  
FLORISTS' SUPPLIES,  
25 N. 4th St., Philadelphia, Pa.  
NEW FALL CATALOGUE NOW READY  
When Writing Mention Florists' Exchange



TELEPHONE, 1782 18TH ST.  
When Writing Mention Florists' Exchange

## GOLD FISH.

Fine Healthy Stock.

Medium to large size, \$10.00 per 100. Cash with order. No charge for shipping cases. Gold Fish can be shipped by Express thousands of miles with safety and are a profitable and attractive stock to handle.  
Full line of Aquarium Supplies.

KEEMAN'S SEED STORE,  
612 and 614 Wentworth Ave., CHICAGO  
When Writing Mention Florists' Exchange

## Boston Florist Letter Co.



This wooden box nicely stained and varnished, \$1.50 at once in two sections, one for each size letter, goes away with first order of 500 letters.  
Box letters 1 1/2 or 2 inch size for 100, \$2.00.  
Single Letters, \$4.00  
Patented with each letter or word.  
Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.  
N. F. MCCARTHY, Treas. & Manager,  
25 STATE ST., BOSTON, MASS., U. S. A.  
When Writing Mention Florists' Exchange

CLEMATIS Large flowering varieties, one or two year old plants.  
From 1 in. pots, \$2.00 per doz.; \$15.00 per 100.  
CLEMATIS PANICULATA, from 3 in. pots, \$3.00 per 100.

California Violets, Field-Grown, \$4.00 per 100.  
C. EISELE, 11th & Jefferson Sts., Philadelphia, Pa.  
When Writing Mention Florists' Exchange

FOR SALE BY Seed Stores.

For Free Pamphlet, write to LOUISVILLE Smart Cured Tobacco Co., Louisville, Ky.

THE BEST FOR ALL Florists. ROSE LEAF EXTRACT OF TOBACCO INSECTICIDE

When Writing Mention Florists' Exchange

## FOR MILDEW AND BLACK ROT

on Ficus, Fruits and Vegetables, and Carnation Root.  
USE FOSTITE, 3 pounds, \$3.00 etc. 25 lbs. \$25.00.  
G. H. JOOSTEN, IMPORTER OF PLANTS, BULBS & TREES,  
193 Greenwlich St., New York.  
When Writing Mention Florists' Exchange

SAVE THE BLOOMS! NIKETEEN DOES NOT INJURE SENSITIVE PLANTS USED FOR FUMIGATION OR SPRAYING, INDOORS OR OUT. 500 POUNDS IN ONE POUND PRICE \$1.50. ALL SEEDSMEN.

When Writing Mention Florists' Exchange

## DEATH TO THE INSECTS

HARMLESS TO THE PLANTS. THE KENTUCKY EXTRACT CO. IS AN INSECTICIDE for quick destruction of the aphid on all plants. Sold by all florists. SURE

THE KENTUCKY EXTRACT CO. Columbus, O. SOLE MANUFACTURERS. Book of Directions sent upon Application. When Writing Mention Florists' Exchange

.. Elixir .. Fertilizer

It is a pure natural product and a most nutritious food for plants.

We have in comparison with other FERTILIZERS and GROWERS' FOODS a grandly new product called ELIXIR FERTILIZER.

(THE LIFE OF PLANTS)

Elixir Fertilizer Co., 107 W. 14th St., New York  
When Writing Mention Florists' Exchange

# THE FLORISTS' EXCHANGE

We are a straight shoot and aim to grow into a vigorous plant.

A WEEKLY MEDIUM OF INTERCHANGE FOR FLORISTS, NURSERYMEN, SEEDSMEN AND THE TRADE IN GENERAL.

VOL. IX. No. 43.

NEW YORK, OCTOBER 23, 1897.

One Dollar Per Year.

... A NEW ...

## SEED AND BULB FIRM

J. H. WALTER, Pres., (Late Treasurer.)  
 G. B. STUMPP, Treas., (Late Mgr. Florists' Flower Seed Dept.)  
 HENRY EICKE, Sec'y, (Late Sec'y and General Mgr.)

OF THE **F. E. McALLISTER CO.,**  
 50 BARCLAY STREET, NEW YORK.

WHERE YOU CAN FIND

**A COMPLETE LINE OF FLORISTS' SUPPLIES**  
 FOR THE STORE OR GREENHOUSE.

Immortelles, Metal and Wire Designs, Doves, Baskets, etc. Small  
 Thread, Potted Bulbs, Cane Stakes, Glazing Points, Thermometers, etc.

HIGH GRADE FLORISTS' FLOWER SEEDS AND BULBS.

Our Special List of Guaranteed HOLLY, ENGLISH MISTLETOE,  
 BOUQUET GREENS, and everything suitable for the Holiday Trade will be  
 issued within a few days.

SEND IN YOUR NAME AND WE WILL MAIL ONE TO YOU.

## STUMPP & WALTER CO., 50 Barclay St. N.Y.

Seed and Bulb Growers and Importers.  
 When Writing Mention Florists' Exchange

WE OFFER A LARGE STOCK OF

## FINEST NAMED TULIPS,

Almost as cheap as common mixed varieties are usually sold. We have a very  
 large stock of these bedding and forcing varieties, and offer them as long as unsold at re-  
 markably low prices. Prices of Tulips are now so low that it should result in a largely increased  
 use of these showy flowers. We offer the following sorts, viz.:

- SINGLE.** *Bizard Verdlet, Cardinal's Hat, Crimson King, Eleonora,*  
*Chequer Ponceau, Duchesse de Parme, Van der Meer,*  
*1. Immaculate, Arms of Leiden, Duc Van Thoi, La Reine.* 75 cts.  
 per 100; \$6.00 per 1000
- Finest Mixed Single Varieties,* 60 cts. per 100; \$4.50 per 1000.
- DOUBLE.** *Rose Blanche, Blanc Borde Pourpre, Gloria Solis,*  
*Dutch Roman, 75 cts. per 100; \$6.00 per 1000.*  
*Pearly Red, Queen Victoria.* \$1.00 per 100; \$7.00 per 1000.  
*Finest Mixed Double Varieties,* 75 cts. per 100; \$6.00 per 1000.

For complete list of varieties, see our Wholesale List, sent free on application.

## DOUBLE VON SION NARCISSE

These are extra selected mammoth bulbs, running from 2 in. in diam. up and, under favor-  
 able conditions, should produce about two flowers to the bulb.

Full case lot of 2000 bulbs, 18.00 per 1000.  
 In less quantities.....\$2.50 per 100; \$10.00 per 1000.

Paper White Narcissus Grandiflora.....\$1.25 per 100; \$10.00 per 1000  
 Narcissus Princes.....1.50 " 13.00 "  
 " Trumpet Major.....1.50 " 13.00 "

## HYACINTHS.

Named Hyacinths for Forcing or Bedding, best sorts only..... \$1.50 1000  
 Hyacinths in separate colors..... \$3.00 2500  
 Dutch Roman sorts, better than mixtures usually sold..... 1.50 1200  
 (about equal proportions of pink, white and blue)  
 White Roman Hyacinths, extra quality bulbs, 12-16 cm. in dia..... 2.00 2500  
 Pink Roman Hyacinths, extra quality bulbs..... 2.00 1800

For complete list of bulbs, see our Fall Wholesale List, sent free on application.

## F. R. PIERSON CO.,

TARRYTOWN-ON-HUDSON, NEW YORK.  
 When Writing Mention Florists' Exchange

## ROSE HILL NURSERIES.

The Largest and Finest Stock in America.

- ARECA LUTESCENS.** DOZ. HUR.  
 3 1/2 in. pots, bushy, 12 to 15 in. high..... \$3.00 \$20.00  
 4 " " 18 to 20 in. high..... 4.00 30.00  
 5 " " 20 to 22 in. high..... 6.00 50.00  
 6 " " 22 to 24 in. high..... 8.00 60.00
- COCOS WEDDELIANA.** DOZ. HUR.  
 2 1/2 in. pots, extra fine, 5 to 6 leaves, 2.00 \$15.00  
 3 in. pots, extra fine, strong..... 2.50 20.00  
 3 in. pots, extra fine, very strong..... 3.50 25.00  
 3 1/2 in. pots, extra fine, very strong..... 4.00 selected
- KENTIA BELMOREANA.** EACH DOZ.  
 5 in. pots, extra strong, bushy, 5 to 6 leaves, 18 to 20 inches high..... \$0.75 \$8.00  
 6 in. pots, heavy, 2 to 2 1/2 ft. high..... 1.50 15.00  
 7 in. pots, heavy, 2 to 2 1/2 ft. high..... 2.00 24.00  
 8 in. pots, 20 to 40 in., decorative size, \$2.00 to \$8.00 each.
- KENTIA FORSTERIANA.** DOZ. HUR.  
 3 in. pots, 12 to 15 inches high..... 4.00 45.00  
 4 " " 15 to 18 "..... 4.50 50.00  
 5 " " 18 to 21 "..... 5.00 55.00  
 6 " " 20 to 24 "..... \$2 to \$2.50
- LATANIA BORNICONA.** EACH DOZ.  
 5 in. pots, 2 ft. specimens..... \$1.00 per doz.  
 6 in. pots, perfect specimen, 7-9 leaves, \$18.00 per doz.  
 7 in. pots, perfect specimens, 8-9 leaves, \$28.00 to \$30.00
- LIVISTONA ROTUNDFOLIA.** 4 in. pots, 10 to 12 in. high, \$1.25 each; \$15.00 per doz.  
 5 in. pots, 12 to 15 in. high, \$1.50 each; \$18.00 per doz.  
**PHEXIC REINOLATA.** 5 in. pots, 15 to 18 in. high, \$1.00 each; \$10.00 per doz.  
**DRACÆNAS (in variety).** Without doubt or exception we have the grandest lot in the country. Open for inspection.  
 4 in. pots, 15 to 18 in. high..... \$4.00 per doz.  
 (colored sand coloring)..... 6.00 "
- FICUS ELASTICA.** EACH HUR.  
 4 in. pots, fine, strong plants..... \$0.50 \$20.00  
 " " strong; 2 ft. high..... 50.00  
 " " 2 1/2 to 3 ft. high..... 75.00
- FERNS. FERNS. FERNS.** If you are going to buy it will pay you to get a sample of our grand stock.  
 5 1/2 in. pots, in 5 varieties \$5.00 per 100; \$30.00 per 1000.  
 Nephrolepis cordata compacta. The largest stock of this grand variety.  
 5 1/2 in. pots, in 2 sizes..... \$15.00 per 100  
 5 in. pots, fine specimens, 15 to 18 in. high, \$4.00 per doz.; \$35.00 per 1000.
- PERIS UMBROSA CIGANTEA.** 4 in. pots, in 2 sizes..... \$10.00 per 100, \$38.00 per 1000.  
 5 " "..... 5.00 per doz., 50.00 per 1000.  
 6 " bushy..... Each, .65

All measurements taken from top of pots.  
 WRITE, TELEGRAPH OR TELEPHONE US, and our carriage will meet you.  
 Address all communications to the Nurseries.

## SIEBRECHT & SON, NEW ROCHELLE, N. Y.

When Writing Mention Florists' Exchange

## JUST ARRIVED

- Imported Lilliums
- Auratum
- Album
- Rubrum
- and Melpomene

- We still have a Fair Assortment of Dutch and French BULBS

- Will make Special Low Prices to Close them out

## Book Your Orders Now for Vaughan's

"GET THERE" BRAND

## Xmas Holly and Bouquet Green

Our experience of over 25 years in handling these goods should be assurance to you that we know how to get the cream of this stock and place it with you at the right time. Quotations on application.

## Headquarters for Choice Sacred Lilies

One of the best selling bulbs for the retail counter. Strictly choice stock, lots of 150 at 4 1/2 cts. each. Write for price on quotations.

## Fancy Lillium Longiflorum

Japan Growth. Supply Limited.  
 7 to 9 inch.....\$5.00 per 100 \$12.00 per 1000

## Lily of the Valley

A Specialty with us. Quoties, best obtainable.

"London Market," the finest pipe in existence for early forcing. Per 100, \$1.65; per 1000, \$18.75; case of 2500, \$35.75.  
 Premiums, equal to "London Market" for late forcing. Per 100, \$1.50; 1000, \$12.25; case of 2500, \$30.00.  
 International, a first-class Hamburg Pip. Per 100, \$1.35; 1000, \$10.00; case of 2500, \$24.00.

## 84 & 86 RANDOLPH ST., VAUGHAN'S SEED STORE 14 Barclay St., CHICAGO. NEW YORK.

When Writing Mention Florists' Exchange

**TIME** compels us to again reduce our prices, and will offer for one week only:

Hyacinth, Roman White, 11 to 12 ctms.	\$3.00	\$18.00
" " " " " " " " " " " " " "	2.50	22.00
" " " " " " " " " " " " " "	2.00	24.00
" " " " " " " " " " " " " "	1.75	25.00
" " " " " " " " " " " " " "	1.25	11.00
" " " " " " " " " " " " " "	1.25	4.50
" " " " " " " " " " " " " "	75	4.75
" " " " " " " " " " " " " "	65	4.75
" " " " " " " " " " " " " "	1.25	10.00
" " " " " " " " " " " " " "	1.25	30.00
" " " " " " " " " " " " " "	1.25	30.00
" " " " " " " " " " " " " "	2.25	20.00
" " " " " " " " " " " " " "	5.00	4.00
" " " " " " " " " " " " " "	1.50	10.00
" " " " " " " " " " " " " "	2.25	20.00
" " " " " " " " " " " " " "	4.00	30.00

THIS OFFER WILL NOT APPEAR AGAIN

**WILLIAM ELLIOTT & SONS, 54 and 56 Dey St., New York.**

When Writing Mention Florists' Exchange

**BULBS**

CHAS. H. ALLEN, Floral Park, N. Y.

When Writing Mention Florists' Exchange

**BURPEE'S SEEDS**  
PHILADELPHIA

WHOLESALE PRICE LIST FOR FLORISTS AND MARKET GARDENERS

We are Headquarters and Dealers.

**GRASS SEEDS**

RED TOP, BLUE GRASS, ORCHARD GRASS, MEADOW FESCUE and SUNFLOWER.

J. CHAS. McCULLOUGH, SEEDSMAN, CINCINNATI, O.

JOBBING TRADE A SPECIALTY.

**ROMANS! ROMANS! ROMANS!**

JUST ARRIVED IN FINE CONDITION, READY FOR DELIVERY.

Special low quotations for large and small quantities. Don't wait, but speak quick, before they have gone again. This is the last shipment for this season.

Lilium Harrisii and Longiflorum, 5/7, only a few left. Dutch Hyacinths, Narcissus von Siegen, etc., are in, in the finest ever handled. A few thousand Ficus Elasticas still on hand. Azaleas. Write for prices. My stock does not need any recommendation, since it is all my own work.

F. W. O. SCHMITZ, JERSEY CITY, N. J.

When Writing Mention Florists' Exchange

**BARGAINS BULBS**

SUPPLY LIMITED. CLOSING OUT PRICES.

**LILIUM LONGIFLORUM.**

Bermuda Growth, 5 to 7 inches.....per case of 500, \$10.00; per 100, \$3.50

Japan Growth, 5 to 7 inches.....per case of 500, 10.00; per 100, 2.50.

" " " " 7 to 9 inches.....per case of 300, 10.00; per 100, 4.00

**OXALIS, BUTTERCUP.....**per 100, 85 cts; per 1000, \$7.50.

**CHINESE NARCISSUS (True).** Per 1000, \$42.00; per casket, 30 bulbs, \$1.75; per 4 caskets, 120 bulbs, \$5.00. Also in limited quantity, White Roman Hyacinth, Paper White Narcissus, Narcissus Grandiflorus, Holland Hyacinth, Tulips, Narcissus, Snowdrops, Frezias, etc., etc.

**C. H. JOOSTEN, Importer, 193 Greenwich St., New York.**

When Writing Mention Florists' Exchange

**PALM SEEDS.**

As very large Exporters of Palm and other Seeds peculiar to Australasia and the Neighbouring Islands,

We submit the following List to your notice, and shall be pleased to receive orders. The prices quoted cover packing and delivery to ship, except on orders for less than 5000 Seeds, when cost of packing will be charged.

SEEDS.	1000	10,000	50,000	100,000
Arcaea Bauerii.....	7shillings.	50s.		
" " Sapida.....	7s.	50s.		
Corypha Australis.....	7s.	50s.	200s.	350s.
Kenia Bismoreana.....	8s.4d.	15s.	250s.	450s.
" " Forsteriana.....	5s.	50s.	200s.	350s.
" " Carterburiana.....	21s.	130s.		
" " Mooreana.....	16s.	100s.		
Linnala Grandis.....	16s.	120s.		
Senotheria Elegans.....	16s.	100s.		
Pandanus Ultras.....	10s.	90s.	120s.	

The Seeds are packed in air-tight tin-lined cases, after being treated with damp powdered charcoal and sawdust, by which means they are kept in splendid condition during transit.

Terms: CASH IN SYDNEY against Bills of Lading.

**SEARL & SONS, 109 King St., Sydney, New South Wales.**

When Writing Mention Florists' Exchange

**BULB HEADQUARTERS.**

WRITE FOR TRADE CATALOGUES.

SAVE MONEY BY GETTING SPECIAL ESTIMATES IF YOU WANT IN BULBS, PLANTS, AND SEEDS, WHETHER LARGE OR SMALL.

**L VON SION NARCISUS.** Extra long bulbs. \$1.00 per 100; \$1.50 per 500.

**American Bulb Company,** SHORT HILLS, N. J.

Importers and Growers, When Writing Mention Florists' Exchange

**BUY FROM THE GROWERS DIRECT**

**ALL BULBS AND PLANTS**

For Summer and Fall Delivery, Quoted at Very Low Rates.

FREE ON BOARD CARS OR BOATS NEW YORK CITY.

**HULSEBOSCH BROS., Englewood, N. J.**

When Writing Mention Florists' Exchange

**TRADING BULBS!**

True Berlin and Hamburg Pips, All quality, and very evenly sown, at import prices, in case lots only!

J. L. SCHILLER, 404 E. 34th St., New York.

Solo Agent for F. C. Pommercke, Hamburg.

When Writing Mention Florists' Exchange

**ZIRNGEBEL'S STANDARD PANSEES**

GIANT MARKET and GIANT FANCY.

SEED IN trade pkts., at \$1 each.

Also plants of the above for sale.

**DENYS ZIRNGEBEL, Neerhann, Mass.**

When Writing Mention Florists' Exchange

**HEADQUARTERS FOR BLACK CALLAS, all sizes. CYCLAMEN, extra large bulb, \$3.00 per 100. OXALIS, choice mixed, 40 cts. per 100. LILIUM LONGIFLORUM, 5/7 per 100, \$1.50; 7/9 per 100, \$3.75; 9/10 per 100, \$5.75.**

**H. G. FAUST & CO., 61 & 66 N. Front St., Philadelphia, Pa.**

When Writing Mention Florists' Exchange

**GRAND NEW GIANT ESCHSCHOLZIA "THE GOLDEN WEST," The Most Gorgeous and Brilliant Novelty of the year.**

**MONSTER FLOWERS, measuring 4 to 6 inches in diameter. Price, 50 cts per trade packet; \$6.00 per doz; Retail packets, \$5.00 per doz.**

Send for free Trade List of Novelty and Special Prices and an description of these Grand Flowers.

**THEODOSIA B. SHEPHERD, Venture-by-the-Sea, Cal.**

When Writing Mention Florists' Exchange

**SEEDS FRESH ON HAND**

ALL SEASONABLE VARIETIES.

Prices for select seeds quoted on application.

**J. L. SCHILLER, 404 E. 34th St., NEW YORK**

When Writing Mention Florists' Exchange

**ROMANS**

Choice White Romans, 18-15; at \$2.25 per 100; \$20.00 per 1000.

**NIKOTEN, LEMON OIL, RAFFIA, MASTICA.**

A full line of DUTCH BULBS, SEEDS, ETC.

**CRIFTH & TURNER CO.**

206 to 212 N. Paco St., Baltimore, Md.

When Writing Mention Florists' Exchange

**W. & D'S "SURE MUSHROOM SPAWN"**

Mixed, 75 cts per 100; Merchants

**ALL KINDS OF BULBS.** Lilium Harrisii, Dutch Hyacinth, etc., etc.

Hyacinths, Narcissus, etc., etc.

Special prices on application.

**WEBER & DON,** and growers.

114 Chambers St., NEW YORK CITY.

When Writing Mention Florists' Exchange

**COSMOS**

**GIANT FLOWERED, EARLY BLOOMING.**

Six splendid varieties, separate, \$1.00 per ounce

Mixed, 75 cts per 100; Merchants

New Callipellis lat. crad. (Giant Flowered)

Callipellis lat. crad. \$1.00 per ounce.

Special prices on quantity.

All kinds of seeds, 100 per 100; 500 per 500; 1000 per 1000; 5000 per 5000.

Mixed, 75 cts per 100; Merchants

100 seeds; \$1.00 per 1000 seeds.

Send for Trade List of varieties, seeds, etc., etc.

Send for Trade List of varieties, seeds, etc., etc.

**MRS. THEODOSIA B. SHEPHERD**

Ventura-by-the-Sea, Cal.

When Writing Mention Florists' Exchange

**Stationery for Florists.**

Every florist in the land should have a complete supply of printed matter where-with to conduct his business in befitting style. We have the largest output in America devoted to its for horticultural printing, and we understand the wants of the trade. Below we quote two combination offers and would be pleased to supply you.

**\$5.00 Combination offer includes.....**

- 250 Noteheads, 5/6 1/2 size.
- 250 Envelopes, 4 size.
- 250 Billheads, 7 ins. wide, 5/8 ins. deep.
- 250 Business Cards, 2 1/2 x 3 1/2 ins.
- 250 Tags, size 2 1/2 x 3 1/2 ins.

Cash with order. Delivered F. O. B., N. Y.

**\$10.00 Combination offer includes.....**

- 500 Noteheads, 5/6 1/2 size.
- 500 Business Cards, 2 1/2 x 3 1/2 ins.
- 500 Billheads, 7 ins. wide, 5/8 ins. deep.
- 500 Envelopes, 4 size.
- 500 Business Cards, 2 1/2 x 3 1/2 ins.
- 500 Tags, 2 1/2 x 3 1/2 ins.

Day Book if there are not wanted One Ledger. subtract \$1.80.

Cash with order. Delivered F. O. B., N. Y.

**PLEASE READ THIS BEFORE YOU ORDER.**

Write plainly and send "copy" for each article wanted.

Noteheads will be furnished in smooth writing paper with ruled lines. Lined paper, ruled or unruled, can be had indifferently if so ordered.

Envelopes are full commercial size and of good quality.

Billheads will be furnished as above, but size 8 1/2 ins. wide and 4 1/2 ins. deep will be substituted when so ordered.

Cards are of good quality and ample proportions.

Day Book and Ledger are large enough for ordinary purposes. Ledger is indexed and will hold 800 accounts.

Special designs, trade marks, etc., engraved to order. A rose, violet, or other flower can be printed on your letterheads and billheads, plain or in color, to order.

The quality of all the above work is guaranteed.

**A. T. DE LA MARE PTC. & PUB. CO., Ltd.**

F. O. Box 1897, New York.

### SEED TRADE REPORT.

Points and information from seedmen, and all other matters of interest to the cultivator, published. Address: Editor Seed Trade, care of Florists' Exchange, P. O. Box 167, New York.

**AMERICAN SEED TRADE ASSOCIATION.**  
 J. J. BICE, Cambridge, N. Y., President; J. H. HILB, Columbus, 1st Vice-President; S. F. WILLARD, Wethersfield, Conn., Secretary and Treasurer.

**Clover Seed Duty Free.**—In answer to a question asked by Messrs. T. W. Wilson and R. H. Starnes, the assistant Secretary of the Treasury states that "paragraph 656 of the new tariff act of July 24, 1897, admits grass seeds to free entry, and the Board of General Appraisers at New York has decided in *Cynopsis 14720* that clover is a species of grass and that the seeds thereof are grass seeds."

The Onion loss of the seed trade is still a problem no one can just walk away from. It is evident to the jobber there is a marked revival in trade. Orders for nearly all kinds of seeds are coming in lively, and in many lines there is an advance in prices. The short crop of onions has caused those with large "hold-overs," not only to make sales, but to make them at a fair profit, while many were unwilling to bid at a much higher price than they sold for. As next year's foreign crop cannot be estimated until the autumn sales there may be considered home-grown seed used, and there is a difference of fully ten cents in the cost. The most of the holder of foreign grown seeds is still in prices. There is no disguising the fact of the increase in prices, and that the leading houses cannot fill their orders, and are refusing additional ones.

There is no doubt that it was, decidedly short; at the same time the seed is not scarce, as there are some tremendous quantities appearing. It is not to be bought in a wild, reckless way, as though no crop was to be grown other than this year, but it should be as generally distributed as a fair price can be obtained. We understand the government seed standard to be maintained at the old standard, and on the old plan. It seems that Secretary Wilson has no voice in the matter, and that the public seeds, as has been done the past two years, or be guilty of misbranding. But suppose the country seeds, as his predecessors have done, what will be the result? It is believed that Messrs. A. B. and D. will care to bid again in view of what has been withheld because the seeds sent out did not come up to the required standard? We think not, and what is now we do not think anyone else will. It is to be noted that the same prohibitions where there is a heavy penalty imposed unless they see some way of "fixing it up" for low-grown, understate importations have not been able to do on last year's transactions. There is not a seedman in the country who has a standard of government standard for purity and vitality was sady too high, and they will be willing to accept the government standard at the prices paid, excepting at a great loss, if these conditions were complied with. It is to be noted that the government are asking for what never has and never can be done. We do not pretend to know what the government are under favorable conditions, will stand the crucial test set up for them; but the best seed in the country will never come up to the standard, and it is to be noted that the government with seeds which are to be used in the same manner as the standard, unless at the same prices paid by their other customers. Then a few would be found in the market.

We note with considerable interest the efforts being made on Long Island to get the government to stand the crucial test of seeds. The farmers are holding meetings, the object of which is to form a company to grow the seeds, and to refuse to grow for the trade without a considerable advance on the figures now being offered. We understand these meetings were instigated by the parties for whom the farmers have, for a long time, been growing the seeds, not only being made to form a stock company on Long Island for the growing of seeds for the trade, but also to form a company which will be composed of practical seed growers, who intend adding materially to the

list now in Suffolk County. A large greenhouse plant will be included in the country.

**The Free Seed Distribution.**—Supplementing to the circular letter sent out from the Department of Agriculture, September 25, last, to its principal seed establishments asking for bids on seeds, etc., another circular has been sent out containing bids for the following seeds to a certain extent, those given in the first circular. Instead of bids to furnish seed in bulk, the bids are to be furnished in paper packets and cloth bags, and many of the plants or bulbs. The contractor is required to place the packets of seed when ready for mailing in boxes of five packets each, or more, if so directed; also to paste upon each of said packages a label, which is to be furnished by the Department. The packages are to be delivered in United States mail sacks to the nearest postoffice, properly addressed for transmission to their destinations.

Seeds were required of twenty species of flowering plants, the following quantities are as follows: Anthriscum, 62½ pounds; aquilegia (single), 62½ pounds; centaurea, 300 pounds; Celandine officinalis (mixed), 85 pounds; Centaurea cyanus (mixed), 85 pounds; dianthus (double), 125 pounds; Digitalis (double), 125 pounds; Digitalis (foxglove), 85 pounds; Lathyrus latifolius (everlasting pea), 174 pounds; Lupinus (mixed), 62½ pounds; Linum grandiflorum, 125 pounds; marigold (grandiflorum), 85 pounds; magnolia (double), 300 pounds; Malva (double), 125 pounds; Platycodon grandiflorum, 125 pounds; sweet peas (mixed), 751 pounds; Verbena (mixed), 240 pounds; thunbergia (fine mixed), 240 pounds; and zinnia, double, (mixed), 101 pounds. The following seeds were required in seven varieties put up into 886,000 packets; in the list of vegetable seeds in 1,000,000 packets; in 1,000,000 packets; 3,900 pounds of carrots in 390,000 packets; celery 800 pounds in 80,000 packets; cucumbers 400 pounds in 40,000 packets. The egg plant is not a favorite of the Department evidently, as they are only 120 pounds for "Y. Improved" to be put up into 36,450 packets. Of lettuce there were 10,000 packets; lettuce, Grand Rapids, 1,280,000 packets; muskmelon, 5,500 pounds in 550,000 packets; watermelons 2,400 bushels in 240,000 packets; 1,344,000 packets; parsnips 1,500 pounds in 150,000 packets; 20,000 pounds of potatoes in 200,000 packets; 1,280,000 packets; 5,000 pounds Improved Purple Top rutabaga in 240,000 packets; turnips, Bermuda, 1,500,000 pounds. Of turnips there were three kinds wanted, 34,000 pounds in all, to be put up in 768,000 packets; tomatoes, 6,500 pounds in 1,500,000 packets; 307,200 packets; peas, 2,400 bushels in 307,200 packets; sweet corn, 2,400 bushels in 307,200 packets.

The field seeds wanted were as follows: tobacco, 275 pounds in 83,500 packets; corn, 240 bushels in 240,000 packets; field corn, 280 bushels in 4,800 packets; cow peas, 125 bushels in 4,000 packets; clover, 125 bushels in 3,200 packets; Vicia villosa, 790 bushels in 25,280 packets; Alsike clover, 100 bushels in 3,200 packets; Bermuda, 100 bushels in 3,200 packets; lawn grass, 10,000 pounds in one-half pound packets. Alfalfa, 100 bushels in 5,333 packets; manure wuzel, 8,000 pounds in one-pound bags; kidney yetch, 8,000 pounds in one-pound bags. There were wanted 12,064,082 packets of vegetable seeds, 193,675 packets of field seeds, and 1,000,000 packets of flower seeds for free distribution.

#### European Notes.

**Nataliums.** The cool and dry climatic conditions noted last week continue, and the first fall in seed prices has been noted. We could desire. Our gardeners look almost as gray as August, and this may be due to the fact that the weather is considerably for none of our flowers looks gay; just as they stand in the garden, and the latter we propose to speak definitely next week. For by that time the color of the foliage and the later rate, will be out of danger; and the latter rate will be, at least, paring. It is to be noted that the weather is so freely that if the seed now being formed should prove to be fit for use after drying, it may help the shortage a little,

# ROSE GERMATAKSA.

## AMPELOPSIS VEITCHII.

Suitable for forcing, 8 etc. and 15 etc. each.  
 Field-grown, 2 years, extra heavy..... \$75.00 per 1000; per 100, \$8.00  
 3 years, heavy..... 60.00  
 From 3 inch pots..... 4.00  
 Struts—General, 12 to 18 inch..... 6.00  
 Our assortment, 2 6/8 feet..... 6.00

**FICUS ELASTICA**, plants for stock, 15 etc. to \$1.00, according to size.  
**300,000 CALIFORNIA PRIVET**, prices on application.  
 (See advertisement in last issue, page 897.)

### THE ELIZABETH NURSERY COMPANY, - Elizabeth, N. J.

When Writing Mention Florists' Exchange

ORDERS NOW BOOKED FOR LATE FALL AND SPRING DELIVERY.

# HARDY BARE BUDDED ROSES

In the following and other good varieties, **Alfred Colburn, Baroness Rothschild, General Jacquemont, Paul Neyron, Magna Charta, Ulrich Brunner**, and 60 other good sorts.

**TREE or STANDARD ROSES, STRONG ROOTED CLEMATIS, HARDY RHODODENDRONS and AZALEAS, HYDRANGEAS, SNOWBALLS, etc., etc.**

From the well-known **BROOKLYN NURSERY ASSOCIATION**, controlling a very extensive stock. Large buyers will find it to their interest to send me an estimate of their wants.

Address **C. H. JOOSTEN, Importer, 193 Greenwich St., N. Y.**

When Writing Mention Florists' Exchange

# F. & F. NURSERIES, SPRINGFIELD, NEW JERSEY.

Our Specialties this Season: **PEACH, Plum, Japan Walnut and Shade Trees. California PRIVET and Shrubbery.** Stock good and prices right. . . . .  
 When Writing Mention Florists' Exchange

# California Privet

3,000 superior Holland grown and transplanted Tree Roses for next shipment, rhododendrons, English or Holland grown, Azaleas, Shrubs and Nursery Stock in general.

**KELCE & FOULK, - FLUSHING, N. Y.**

When Writing Mention Florists' Exchange

# CALIFORNIA PRIVET

Good two year old plants, well branched, 24 to 30 inches, \$1.00 per 100; \$2.00 per 100; 18 to 24 inches, \$1.00 per 100; \$1.50 per 100. Light two year old plants, \$1.00 per 100. Stock guaranteed as represented. It is a plant which is wanted seed 25 cents which will be credited on account if plants are ordered.

Address **CHAS. BLACK, Hightstown, N. J.**

When Writing Mention Florists' Exchange

# AZALEA ANENA

In 3/4 and 3/8 inch pots. About 2 year and 3 year plants in open ground, from \$1.00 per 100.

**HYDRANGEA THOS. HOGG.**  
 Strong, 2 year plants, from open ground, with 9 to 6 inch branches, \$1.00 and \$1.50 per 100, according to size.

# DEUTZIA CRACILIS

**ERBERIS THUNBERGI**,  
 1 year, 3 year and 2 year plants, \$1.00 per 100.

SEND FOR TRADE PRICE LIST.

**SAMUEL C. MOON, Morrisville, N. C.**

# P. OUWERKERK,

1123 Summit Ave., Jersey City, N. J.

Just received from our Holland Nurseries:  
 RHODODENDRONS, AZALEAS, SPIREA JAPONICA, LILIUUM SPECIOSUM, PAONIES, BLEEDING HEART, POT GROWN LILACS, HYDRANGEA IN SORTS. CLEMATIS and H. P. ROSES, in the best sort.

**PROSE MODERATE.**  
 When Writing Mention Florists' Exchange

### CATALOGUES RECEIVED.

D. HAY & SON, Auckland, New Zealand.—Special List of Choice Flowering Plants.  
 J. H. H. BOVO, Caen, Tenn.—Price List of Choice Flowering Plants.  
 CLEGG & COBBINS, Co. New York.—List of Dutch, French, Bermuda and Japan Bulbs.  
 Mrs. MARD M. BRISOP, El Paso, Tex.—Illustrated Catalogue of Cacti.

## CARNATIONS.

### Supports.

It is time now the A-shaped wire netting was placed in position between the rows, or such other supports as may be used to keep the growths up.

There are a number of supports of various styles and patterns on the market, of which I have seen only one in the advertising columns of the EXCHANGE. Some of these are highly recommended by some of the best growers, and doubtless all are possessed of merit.

I have before stated that I was opposed to any support that would tend to crowd or confine a plant in a space so limited in extent as to interfere with the area of the ordinary manufactured support, and not be crowded for room. We can use such supports on a few varieties only, which are not inclined to grow large and bushy, such as Buttercup, McGowan, etc.

There is a difference in localities, however, and my ideas regarding supports may not carry much weight in some sections. This is where the test of a grower's headwork and skill comes in. If he is keenly alive to the situation, he will always be able to adopt the ideas and opinions of others and adapt them to his own uses; and what he sees to improve he will be sure to be able to duplicate or improve upon, as the case may be.

For the present, and until we advise the carnation's natural inclination to grow open and restrained, permitting the freest possible circulation of air and light. Its only bad feature lies in interfering with the growth of the rows. In this way, however, there is little to be done after the first, and if necessary, the second crop of weeds is removed, a regular stirring of the soils not advisable. As soon, then, as the weeds are all removed the netting should be placed in position before the plants become too large to handle with ease.

Aside from one or two strands of wire along the sides of the benches, we have been using no other supports. Good culture and proper ventilation will accomplish much in the way of giving good stems. We must work on this line, I believe, if we want really good stiff stems without the aid of high supports.

I would like to impress upon the minds of those who may be tempted to tempt either in using the A-shaped wire netting, or any other supports, that time and money judiciously expended will be more than repaid by the better health of the plants and the blooms that will be saved from falling before the pests and becoming damaged or ruined.

Do not forget to plow a strip of sod for your carnation soil next year. In this matter we must go to the head. Always select soil in which ordinary crows grow and mature well. Such a soil they like best, but they do not like it rather between the two. We have used all sorts of soil, ranging from heavy to light, and the medium is the best for most varieties.

H. WEBER.

### American Carnation Society.

In last week's issue we referred briefly to some important changes proposed to be made in the Society in February next. Secretary Herr draws attention to the fact that the by-laws are contained in the Proceedings of 1891-92, and every member whose dues are paid to date, can have a copy of these proceedings forwarded on application.

With the approval of the Society the following resolutions were adopted by the judges at our next exhibition in Chicago.

#### INSTRUCTIONS TO JUDGES.

A full and correct report is required. A vigorous and liberal construction of all published rules and requirements is desired, and the judges are to be judged on their merits as shown, except as otherwise especially ordered.

In case flowers of color shown from a distance have been so badly damaged by rough handling in transit as to render them unfit for an exhibition, the exhibitor, they shall not be considered, and it shall be so noted in the report.

In applying the scales of points it is to be understood that the points allowed do not indicate absolute, but only relative quality.

In judging any class under the seedling scale of points the seedlings shall be compared with the best similar varieties in commerce, whether such commercial varieties are on exhibition or not. The exhibitor who grows a better in color than the best similar commercial variety, it shall receive the full number of points allowed for color; but if the commercial variety is of better color than the seedling, the latter shall receive a proportionally less number of points. If any seedling shall have a distinctly better and desirable shade of color it shall receive the full number of points for color.

In comparing the stem, the seedling shall be compared with that variety in commerce considered by the judges to have the best stem, and so on through the scale.

In judging the scale for general competition only those varieties in competition shall be compared, the exhibit showing the best color to receive the full number of points for color, and the best stem the full number of points for stem, and so on through the scale.

(Signed) W. N. RUPP, President.

(Attst) ALBERT M. HERR, Secretary.

#### CHANGE IN METHOD OF JUDGING SEEDLINGS.

In the seedling scale, when used for final certificate, insert 10 points for "Reports of Growers," and three other points correspond (especially calyx, which is too high, as no variety can have a good form without a suitable calyx). In awarding points under this head, the exhibitor must name, not later than July 1, the variety shown (a greater number to be considered favorably by the judges in a field than in a separated parts of the country, to whom he proposes to send stock of the variety) and also the name of the grower, and report to the Secretary not later than February 8, nor earlier than February 1 following.

Reports received after the above date unless each grower nominated sends in a report, or satisfactory reasons (which the Secretary shall judge) are shown in writing) shall be given for failure to do so. The reports shall be examined by the judges after they have seen and approved the exhibits as shown, they to take into

account the character and ability of the growers reporting, as well as the nature of the soil, and the locality. If the report is not satisfactory reports to receive the full 10 points, and the others proportionately less, but they are not considered from all points) it shall appear to the judges that the variety is unworthy of the full number of points awarded, and the judges shall enter in their report "Rejected on account of unfavorable report." The name, however, shall not be taken unless the reports are distinctly and uniformly unfavorable. Reports to be considered and published shall be sent to the executive committee and approved by the Society.

Those failing to have varieties tested as above, to forfeit the whole 10 points. Failing to receive reports after the exhibitor has announced the names of those who are to make the test, unless satisfactory reasons are given in writing, the Secretary shall withdraw the variety from consideration by the judges and it shall be so announced and published in the Proceedings of the Society.

(Signed) W. N. RUPP, President.

(Attst) ALBERT M. HERR, Secretary.

#### PROPOSED AMENDMENTS TO CONSTITUTION.

Art. III. Sec. 2. After first word insert "and" as follows: ART. IV. Sec. 1. After the word "year" add "and" until their successors are elected and qualified.

Art. VI. Before the words "a meeting of the executive," etc. insert the following: "The Executive Committee may be called by the President with the consent of the Executive Committee or a majority of the members of the Society. Notice of such special meeting shall be mailed or published not less than ten days previous to the date fixed for holding the meeting, and no subjects shall be introduced or discussed as are mentioned in the call. Voting at a special meeting by authorized proxy shall be allowed."

Art. VII. Strike out word "annually" in last line, and add the following: "At the time of the meeting of the Society there is an exhibition, the President shall, after consultation with the Executive Committee, invite as many members known to be present, for judges. The meeting thereupon shall either accept or reject the nominations or call for the nomination of additional names. When nominations shall have been made by the President and accepted by the meeting, nominations shall be closed, and the meeting shall proceed to vote for three judges by ballot. The three nominees receive the highest number of votes shall be the judges. The exhibitors at the exhibition of the meeting at which they are elected and shall award all certificates and medals, and they shall give their decision of the judges shall be filed in writing with the Executive Committee promptly. In case of protest a member of this Society or an exhibitor the Executive Committee shall examine into the matter and report, and if they determine an error has been made shall report to the Society with suggestions as to its correction. If otherwise they shall advise the action of the judges. In all cases of protest no premium shall be paid or certificate delivered until the protest is confirmed by the Executive Committee or the protest has been settled by the Society as herein provided."

(Signed) H. WEBER.

#### CHANGES IN BY-LAWS.

Sec. 1. Insert after "absence," the words "or disability."

Sec. 2. Insert and substitute the following: "The Secretary shall keep a true and correct account of the proceedings of the Society, and shall see that correct records are kept. He shall have charge of its books, papers, reports and other property, except as otherwise provided in the by-laws. He shall make an annual report."

Sec. 3. Add "He shall give bond in such amount as may be determined from time to time required by the Executive Committee."

Sec. 4. Strike out words "after receiving notice."

Amend Article VII. of constitution, by adding the following: "No person shall be convicted of dishonest practices in con-

nection with any exhibition of this Society, he shall be forever debarred from exhibiting at the Society, and being from it any certificate, premium or award. If a member, he shall also be forever debarred from office." (Signed) W. N. RUPP, President.

(Attst) ALBERT M. HERR, Secretary.

## QUESTION BOX.

OPEN TO ALL. FREE TO ALL. Answers Solicited from Those Who Know.

Plants for Name.—Lophospermum, or Maurandya aetrasogramum; Gazania splendens.

(151) To Make a Cistern Water-Tight.—I would like to know if there is any way whereby I can make a cistern water-tight. It is built of stone, wall 18 inches thick; the tank is 14 feet square, 18 feet high, and 9 feet above ground on one side. The 18-foot wall is entirely out of the ground, well-plastered inside with Rosendale cement. When the tank is a little over half full it leaks. Will pitch tar be good material with which to coat the walls, and would it affect the water so as to hurt plants?—Wm. S. H.

(152) Salt on Carnations.—In the EXCHANGE for October 2, 1897, your correspondent, Mr. H. Weber, in his article "Explosion of the Soil," speaking of spraying carnations with salt water says: "The good effects they seem to derive from its use are doubtless due to the percentage of potash the salt contains." I am not aware that common salt contains any potash. Will Mr. Weber please explain.—SEWALL FISHER.

—Mr. Fisher is right, as common salt is not supposed to contain any potash, and potash would have to be considered in this light. The use of salt on carnations seems to produce the same effects as we look for in the use of potash. It was this which caused me to make the statement that "salt doubtless contained a percentage of potash." At any rate, we get good results from the use of salt.

(153) Manuring Yields.—I have just planted a solid 100x4 feet bed of M. Louise and California Violet plants on which an employe put too much fertilizer—100-125 pounds Berg's bone and potash. New soil and a good coat of

### Advertiser's Notice.

Due to an error in copy of my advertisement, the prices of Sulphur quoted in a portion of last week's edition were incorrect. See adv. in this week's issue.

H. A. STOOFFHOFF.

10 to 25 lbs., 2½ cts. per lb.  
25 to 50 " 2 " "  
50 to 100 " 1.95 " "  
BEST GRADE ONLY.

CARE MUST ACCOMPANY ORDER.

H. A. STOOFFHOFF, 315 MADISON AVE., N. Y.

# TOBACCO

They must be fresh to be good, no NICOTINE in dried KINGS; nicotine kills Aphids.

Good King, 75c. per 100 lbs.

Bales Weigh 500 lbs. each.

H. A. STOOFFHOFF, 315 MADISON AVE., N. Y.

# TOBACCO

MADE FROM STRONGEST TOBACCO LEAF KNOWN. . . .  
NATURALLY CONTAINS MORE NICOTINE THAN STEMS AND  
NICOTINE KILLS, ONE POUND EQUAL TO 50 LBS. STEMS  
When Writing Mention Florists' Exchange  
\$2.75 per case, 100 lbs., on cars N.Y.C.  
75c. per drum, 10 lbs., (by express only).  
H. A. STOOFFHOFF,  
315 Madison Ave., New York City

manure were also applied. Will the plants be likely to have a chance of doing well? How would head lettuce do?

—Bone or any artificial fertilizer used on violet benches at this season of the year is apt to have a disastrous effect upon the plants. It is seldom that any material can be safely used till well on in the Winter, and even then there is a risk.

Yes, lettuce would do well in such soil, although so much hope is not good.

(154) Analysis of Animal Manures. —The following analyses are taken chiefly from the reports in our "Experiment Station" and may be found in "Manures, How to Make and to Use Them," by F. W. Semple:

Substance.	Nitrogen.	Phosphoric Acid.	Guano.
Cattle (solid fresh excrement).....	0.29	0.10	0.37
Cattle (fresh urine).....	0.58	0.49	0.22
Horse (solid fresh excrement).....	0.44	0.28	0.21
Horse (fresh urine).....	1.55	1.29	0.22
Sheep (solid fresh excrement).....	0.61	0.15	0.33
Sheep (fresh urine).....	1.85	2.38	0.41
Manure (mixed).....	0.50	0.89	0.31
Moisture.....	73.27		

**STATES CRIPPLED AMERICAN Beauty Beds.**—What makes Beauty roses come crippled? They are, when planted in the right kind of soil, properly syringed and kept at a temperature of about 50 to 55 degrees at night and 65 to 75 in daytime? The plants were planted on the 7th of August. They have since made a good growth, but the flowers, both short and long-stemmed ones, are partially or wholly crippled.—ALBERT DORNER, Pa.

—This is one of the most perplexing questions we have to deal with at present, and I, for one, am unable to determine intelligently the cause of the trouble. This year I have had more early buds come deformed than usual and have therefore spent quite a lot of time trying to reason out the trouble. At first thought I imagined it was due to some insect pest, such as thrip or green fly; but so far my observations have almost made me positive they are not its primary cause; but that it is due to a combination of atmospheric conditions, would term the evil manifestation of the flower bud. About the only consolation one can give is that with the advent of cooler weather the trouble will generally disappear. I have noticed that the Michigan rose is affected in like manner early in the season, but it grows out of it much quicker than Beauty. II. H.

**GRALLERT & CO.**  
**FLORIST GROWERS**  
 COLMA, SAN MATEO CAL.  
 When Writing Mention Florists' Exchange

**CARNATIONS and CYCLAMEN**  
 Carnations—First-class, first-class; per rose, 1st quality, \$4.00; 2d quality, \$3.00; 3d quality, \$2.00. Cyclamen—Per 100, \$10.00.

**CYCLAMEN PERISIA GIGANTEUM**  
 From \$6.00, per 100; \$4.00, per 200; \$3.00, per 300; \$2.00, per 400.  
**J. C. BURROW, Agent, Fishkill, N. Y.**  
 When Writing Mention Florists' Exchange

**H. WEBER & SONS,**  
**CARNATIONS**  
 OAKLAND, MD.  
 When Writing Mention Florists' Exchange

**FIELD-GROWN CARNATIONS and VIOLETS,**  
 Ready September 16th.  
**JOSEPH RENARD, Unionville, Chester Pa.**  
 When Writing Mention Florists' Exchange

**BURHY FIELD-GROWN CARNATIONS**  
 With plenty of roots. Send for prices.  
**DEO HANGOCK & SON, Grand Haven, Mich.**  
 When Writing Mention Florists' Exchange  
**50,000 FIELD-GROWN CARNATION PLANTS**  
 WM SCOTT ..... \$4.00 per 100.  
 LIZZIE GILBERT ..... 3.00 ..  
 MARY ..... 4.00 ..  
 NANCY HANKS ..... 3.00 ..  
**Rogers Park Floral Co., 21 Wabash Avenue, Chicago, Ill.**  
 When Writing Mention Florists' Exchange

**MORELLO**  
 Field-Grown, at \$1.50 per dozen; \$10.00 per 100.  
**HOPP & LEMKE,**  
 Paul Post Office, EAST GRAND RAPIDS, MICH.  
 When Writing Mention Florists' Exchange

**FIELD-GROWN CARNATIONS!**  
 Kitty Clover, Lola C. Haestel, Portia, Dr. Warden, Nellie Bly, Princess Bonnie, \$4.00 per 100.  
**Faughar Violets,** strong, healthy runners that will bloom this Winter, \$1.00 per 100.  
**Begonia Rex,** 12 varieties, \$3.00 per 100.  
**WM. H. SEARCH, Avondale, Chester Co., Pa.**  
 When Writing Mention Florists' Exchange

**CARNATIONS.**  
 Elrhoda, Capt. Jack, Louisa, Lola Haestel, Portia, Helen Keller, Scott, F. Post, Thos. Carleboe, for cash \$4 per 100; \$25 per 1000.

**R. H. MURPHY, - Urbana, Ohio.**  
 When Writing Mention Florists' Exchange  
**CARNATIONS**  
**F. DORNER & SONS CO.,**  
 La Fayette, Ind.  
 When Writing Mention Florists' Exchange

**Carnations and Ferns.**  
**Scott, Portia and McGowan.**  
 1st quality, \$4.00 per 100; \$35.00 per 1000  
 2d " 3.00 " 25.00 "

**adiantum Cunctatum.**  
 Seedlings, \$1.25 per 100; \$10.00 per 1000  
 2 in. pots, 2.00 " 25.00 "  
 " 3 " 1.00 " 10.00 "

**Adiantum Pedunculatum, Pteris Onward!**  
**Pteris adiantoides.**  
 2 in. pots, \$2.00 per 100; \$25.00 per 1000

**THE BOU FLORAL CO.,**  
 THOS. N. Y.  
 When Writing Mention Florists' Exchange

**40,000 Field-Grown Carnations**  
**BREAK HEALTHY STOCK.**  

Days Clean .....	100	1000
Scott .....	1st ..... \$3.00	\$25.00
" .....	2d ..... 5.00	40.00
" .....	3d ..... 3.00	25.00
McGowan .....	2d ..... 3.00	25.00
Mrs. Fisher .....	1st ..... 5.00	40.00
Portia .....	1st ..... 5.00	40.00
Tidal Wave .....	1st ..... 5.00	40.00

**PORTIA.**  
 We have about 5000 extra fine, large PORTIA.  
**100 California Violets,**  
 \$4.00 per hundred.

**EDW. J. TAYLOR, Southport, Conn.**  
 When Writing Mention Florists' Exchange

**CUTTINGS OF Harrison's White Carnation**  
 Ready by the 1st of January, '28, at 40¢ per 1000.  
 Cash with order or by check or reference.  
**JOHN HARRISON,**  
 739 Bergen Ave., Jersey City, N. J.  
 When Writing Mention Florists' Exchange


**FIELD-GROWN CARNATIONS**  
 IN PERFECT HEALTH.  

1400 Alaska, small.....	Per 1000 \$25.00
300 Portia, good.....	40.00
300 Portia, small.....	25.00
2300 Minnie Cook, good.....	30.00
2200 Minnie Cook, small.....	25.00
10000 Fisher, good.....	30.00
300 Scott, small.....	25.00

**C. STRAUSS & CO., Washington, D.C.**  
 When Writing Mention Florists' Exchange

**GARNATION STAKE!**  
 THIS STAKE is made of one piece of wire, No. 12, galvanized neatly packed in bunches of 50, for the field or on benches. It is easily worked about, more quickly applied than anything we know of. Sample 100, \$1.50  
 Write for prices on large quantities.  
 Will exchange for cut & McGowan plants.  
**MYERS BROS.,**  
 Florists,  
 ALTDONA, PA.  
 When Writing Mention Florists' Exchange


**4 ACRES FIELD-GROWN CARNATION PLANTS, 94,000.**  
 Our Carnations are grown with the greatest care and are first-class plants, free from diseases. We pack light by our improved system of packing by which we can send them to all parts of the United States and Canada in perfect condition.  
**CRIMSON SPURT, BUTTERCUP, DELLA FOX,**  
 \$1.25 per doz.; \$8.00 per 100.  
**ALBERTINI, CHESTER PRIDE, BRIDE OF ERLES COURT, NICHOLSON**  
 \$1.00 per doz.; \$8.00 per 100.  
**SWEETBRIER, SILVER SPRAY, CHESTER PRIDE, Wm. CARNEGIE, PORTIA, Wm. SCOTT, GRACE KELLY, DELIA FOX,**  
 \$1.00 per doz.; \$8.00 per 100.

**J. L. DILLON, - BLOOMSBURG, PA.**  
 When Writing Mention Florists' Exchange  
  
**EXCELSIOR CARNATION SUPPORTS**  
 OVER ONE MILLION IN USE.  
 10, 13, 18, 20 inches high, \$8.00 per 1000; \$1.00 per 100.  
**ROSE STAKES**  
 Of Galvanized Wire, 2 ft., \$8.00 per 1000; 3 ft., \$7.00 per 1000; 4 ft., \$8.00 per 1000.  
**STEMMING WIRE.**  
 20 to 24, 55 cts. per stone; \$3 to \$4, \$1.00 per stone. 25 to 32 cut 9 or 12 inches, 75 cts. per box. Not less than \$4.00 at these prices.  
**30,000 PALMS AND FERNS.**  
 At the lowest prices.  
**NEPHROLEPIS EXALTATA BOSTONIENSIS.**  
 Grand stock from \$5 to \$20, each.  
**GROUND BONE.**  
 Guaranteed pure and fine, \$1.50 per 100; \$28.00 per ton. Sample free.  
**BULL COG HOSE.**  
 5 and 7 ply, 12 to 15 cts. per foot. Send for sample. We can ship hose from New York City, Cleveland, Chicago, San Francisco or Boston.

**FIELD-GROWN CARNATIONS**  
 Good, strong, healthy plants. Write for kind and prices. Delivery after Sept. 10th.  
**LOGAN AYF. BREEHOUSES, Danville, Ill.**  
 When Writing Mention Florists' Exchange  
**Field-Grown Carnations Plants.**  

Portia	Wm. Scott	} at \$4.00 per 100
Lizzie McGowan	Delia Fox	
Delia Fox	Alaska	
Fellow Red	Fellow Red	

**Orange Blossom, Mrs. Fisher,**  
 at \$5.00 per 100.

**GEO. B. WHITEHEAD,**  
 Cross Farms, Conn.  
 When Writing Mention Florists' Exchange  
  
**CHAS. T. SIEBERT THE RESTLESS SILENT FLORIST OF PITTSBURGH, PA. GROWS, SELLS CARNATIONS THAT PAY.**  
**30,000 CARNATIONS**  
 Field-grown, fine, bushy, healthy plants. No buds on them . . .  
**WELL-GROWN PLANTS. CHEAP FOR CASH.**  

Alaska,	Silver Spray,	Hector,
Portia,	L. McGowan,	Tidal Wave,
Mignon,	Daisy Bell,	Wm. Scott,
Jago,	Buttercup,	Minnie Cook,
Delia Fox,	Mrs. Fisher,	Helen Keller,
Fido ad,	A. Lombard,	L. L. Lamont,
Portia,	Daybreak,	

 See lists, each with order, \$5.00 per 100 2d " 3.00 "  
 Peach Blow, Emma Warner, Triumph, Delia Fox, Yellow Jacket,  
 1st size, \$7.00 per 100  
 2d " 5.00 "

I study to please customer and pack carefully in light boxes. I guarantee our satisfaction and the value for the money. We have three express companies, Adams, American and United States.  
**CHAS. T. SIEBERT, via B. Pittsburgh, Pa.**  
 When Writing Mention Florists' Exchange

Pansy Plants.

Schmidt's International Mixture of Pansees is the finest in the market... J. C. SCHMIDT & CO., Bristol, Pa.

PANSIES WORTH RAISING

Good plants, \$2.50 per 1000, or \$1.50 per 500... Large plants, \$4.00 per 1000, or \$2.50 per 500... Blooming plants, \$1.50 per 1000.

C. SOLTAU & CO., 199 Grand Avenue, - JERSEY CITY, N. J.

PANSIES!

ROEMER'S SUPERB PRIZE PANSIES. This strain includes all the leading novelties...

PETER BROWN, - Lancaster, Pa.

Pansy and Geranium Plants

PANSY-Giant flowering, transplanted, 50c. per 100; \$4.00 per 1000... GERANIUMS-Named varieties, \$3.00 per 100; \$25.00 per 1000.

VELVET PLANT 3 inch, 50 cents per dozen. A big seller.

THE MORRIS FLORAL CO., Morris, Ill.

PANSIES

150,000 The Jennings Strain

Of finest American grown Pansees now ready; they are the leading strain in the market...

MA. E. JENNINGS, Buffalo, N. Y.

WILLIAM SCOTT, Buffalo, N. Y.

CARNATIONS.

3000 TRIUMPH, the best pink in every particular I ever grew...

HERR'S PANSIES ARE THE BEST.

...HERR'S... CARNATIONS

ALBERT M. HERR, Lancaster, Pa.

GERANIUMS-Foli-crown, in flower, 3 in. pot, \$1.00 per 100; \$8.00 per 1000... SMILAX-Royal variety, 50c. per 100...

FARQUHAR VIOLETS

Large field plants, strong and healthy, \$5.00 per 100; \$50.00 per 1000...

VIOLETS! VIOLETS!

MARIE LOUISE-Finest grown, clean and healthy in every particular...

CALIFORNIA VIOLETS! FINE FIELD CLUMPS

Benj. Connell, Florist, West Grove, Pa.

VIOLETS MY SPECIALTY!

California, extra clumps from field, \$25.00 per 1000...

LILACS.

Charles K. and Marie LeVay, 3 years, grafted, good forcing plants...

A FEW THOUSAND VIOLETS

Get left. Different sets. Must sell. Need room. Also a few hundred

CARNATIONS

Left. Name quantity. Send for prices; they will surprise you.

JOS. R. FREEMAN, 616 10th WASHN., D. C.

Double Russian Violets,

Giant Carnation Daisy, 2 1/2 in. pots, 80c., rooted runners, 35c. per doz.

Etoile d'Or, Yellow Daisy, Same price.

For other stock see adv. in September numbers. CASH WITH ORDER, PLEASE.

PANSIES

Strong plants from seed of their own growing from the best strain to date...

W. J. ENGLE, Box 211, Dayton, O.

PANSIES.

600,000 plants now ready at 80c. per 100; \$4.00 per 1000...

C. A. HARRIS & CO., Cash with order. DELANSON, N. Y.

Plants ready now, at \$5.00 per 100; 75 cents per 100. A trial order solicited from every florist.

McGowan, Fortia, Keller, DeLancey, Armazinda, 5 cts. each, 2 cts. each, 2 1/2 cts. each.

Mr. Kisco, N. Y.-Bedford Flower Club, under management of Westchester County Hort.



Chrysanthemum Show Posters.

The Courier Co., Buffalo, has forwarded us samples of its chrysanthemum show posters, which seem admirably adapted for the purpose...

Secretaries of Shows will greatly oblige by forwarding to the publisher of this Exchange, their respective Exhibitions, for publication in this column.

SEASONABLE STOCK.

- Geraniums, double and single, 100 1000... 100 Packets, stock plants, 1 50 1000... 100 Packets, stock plants, 1 50 1000...

10,000 Hardy Pink

Field-grown clumps, Her Majesty and the best, \$3.00 per 100, \$20.00 per 1000... New Crimson Spruce, a Waterloo Field-grown plant, \$1.00 each, \$7.00 per 1000...

Geraniums, in 40 best sorts labeled, \$2.50 per 100; \$20.00 per 1000.

Violets, Field-grown, Swaney white, Lady Campbell and California. Strong, healthy clumps, \$4.00 per 100.

Lantana Borbonica Palm, Well grown, strong and healthy, 2 1/2 inch, \$4.00 per 100; 3 inch, \$6.00 per 100.

Pandanus Urtis, Strong, well grown, 2 1/2 inch, \$6.00 per 100; 4 inch, \$20.00 per 100.

Asparagus Sprengeri, Specimens to order, \$2.00, \$4.00, \$6.00 per 100.

Rubber Plants, Well grown, heavy set, perfect and 24 inches high, 8 inch pot, \$6.00 per dozen.

A. B. DAVIS & SON, Pottsville, Pa.

When Writing Mention Florists' Exchange

**A Plant Market for New York.**

An enthusiastic meeting of plant growers residing North Hudson County was held at H. C. Steinhoff's, West Hoboken, on Monday last, to discuss the practicality of establishing a permanent plant market, under cover, in New York City. President C. Dietz of the N. H. Florists' Club occupied the chair, J. E. Klien acting as secretary pro tem. Mr. Dietz outlined the object of the meeting and a letter was read from the Deputy Collector of Clinton market, intimating the amount of space at present available for the disposal of the plantsmen. The meeting was unanimously in favor of securing the recent visit to New York and the same could be had on reasonable terms. It was considered advisable to obtain the co-operation of the Long Island growers, in the matter, and two gentlemen from that section will be asked to serve on the committee appointed on Monday last, which will confer with the Clinton market authorities and obtain information as to terms, conditions, etc. The Jersey growers appointed on this committee by Chairman Dietz are H. C. Steinhoff, H. Baumann, and A. C. Schroeter. These gentlemen will meet on October 26, and report the result of the conference at the next regular meeting of the North Hudson Florists' Club on Tuesday evening, November 3, in urging the desirability of such a market, as regards personal comfort and otherwise. Mr. Steinhoff referred to the facilities it would afford for a prolongation of the season. He thought that just as many plants could be sold during the winter months of the spring as had been sold an effort were put forth to accomplish this, New York City was far behind those in Europe which he has alluded to as regards the selling of plants during the Fall, well as in the matter of providing suitable and comfortable market accommodations for plant cultivators.



AZALEA INDICA.

# Azalea Indica

(Fall Importation Ready Now.)

The Azaleas which we supplied last season were admitted to be the best value for the money ever received by the many florists who bought them, and we can promise as good, if not better, stock and larger plants this coming season.

We have again made special arrangements with the largest grower of Azaleas in Belgium, and take pleasure in offering for delivery about October 15th, **Indian Azaleas**, double and single, all named varieties, leading market kinds, shapely plants, well headed, at the prices quoted below. These plants will be carefully packed and can be safely sent by freight to any part of the country.

10 to 12 inch heads.....	per doz., \$5.00;	per 100, \$40.00
12 to 14 " .....	7.00;	50.00
14 to 16 " .....	9.00;	70.00
Special, 18 to 24 inch heads, extra fine, \$3.00 each.		
6 sold at doz. rate; 25 at 100 rate.		

## Special Offer of Palms.

**ARECA LUTESCENS.**

2 in. pots, \$0.75 doz.; \$5.00 per 100	" 3.00 " 25.00 "
5 " " 6.00 " 50.00 "	" 9.00 " 70.00 "
6 " " 9.00 " 70.00 "	" 12.00 " 90.00 "
7 " " 12.00 " 90.00 "	2.00 each and heavy,
8 " " "	\$2.00 each; \$20.00 per doz.

**COCOS WEDDELIANA.**

4 in. pots, \$3.00 doz.; \$50.00 per 100	" 2.50 " 20.00 "
--	------------------

**RUBBER PLANTS.**

We have a splendid stock of this useful and ornamental plant, short jointed and sturdy, sure to give satisfaction.

15 to 18 in. high, 50c. ea.; \$5.00 doz. 4 "

**LATANIA BORBONICA.**

We offer an extra fine grade of this, from 5 in. pots, 15 to 18 in. high, 5 to 7 leaves, at \$5.00 per doz.; \$40.00 per 100.

**SEAFORTHIA ELEGANS.**

A quick growing Palm and very useful for general purposes.

4 in. pots, \$3.00 per doz.; \$18 per 100	" 1.50 " 10 "
---	---------------

**KENTIA BELMOREANA.**

Plants offered here 4 to 5 leaves and are 15 to 18 in. high.

4 in. pots, \$5.00 per doz.; \$50 per 100

**KENTIA FORSTERIANA.**

3 in pots, \$1.25 per doz.; \$10 per 100

" 4.50 " 35 "	" 5.00 " 37 "
---------------	---------------



LATANIA BORBONICA.

# AZALEA INDICA

Ready for Delivery.

Write for list prices on the above; also

**DUTCH BULBS.**

L. C. BOBBINK, Rutherford, N. J.  
Branch  
The Horticultural Company, Boskok, Holland.  
When Writing Mention Florists' Exchange

## Nephrolepis Exaltata Bostoniensis.

The Handsomest Decorative Plant in Cultivation.

\$5.00 per 100; \$40.00 per 1000.

MINE IS THE GENUINE STOCK.

FRED. C. BECKER, - - - 1730 Cambridge Street, CAMBRIDGE, MASS.

When Writing Mention Florists' Exchange

# AZALEA INDICA.

Fine shapely plants, well set with buds.

10 to 12 inch crowns.....	\$38.00 per 100,
12 to 13 " " .....	50.00 "
13 to 15 " " .....	60.00 "

Order these early and have them shipped by fast freight, saving heavy express charges.

**ASPARACUS PLUMOSA.**

Strong, 2½ and 3 in. pot plants, \$7 per 100; \$65 per 1000.

**FICUS ELASTICA.**

A large stock in fine shape, 4 in. pots, \$25 per 100; 5 in. pots, \$18 per 100.

**ARAUARIA EXCELSA.**

Excellent plants in fine condition.

10 to 12 inches, high . . . . .	\$12.00 per doz.
12 to 15 " " .....	15.00 "
15 to 18 " " .....	18.00 "

**PALMS.**

A large stock in fine shape, of **Kentia Belmoreana** and **Forsteriana**, **Areca Lutescens** and **Latania**. See Special Florists' Trade List No. 5, for sizes and prices.

**FERNS.**

In fine assortment, 2½ in. pot plants,  
\$4 per 100; \$35 per 1000.

**ROSES.**

**Crimson Rambler**, \$12 per 100; strong two year plants, with 3 to 10 shoots, 3 to 5 feet long. This rose varies readily and makes splendid specimens for Easter sales. Common varieties **Climbing Roses**, strong two year plants, \$5 per 100.

**Hybrid Perpetual**, extra strong field grown, fine for potting up, \$9 per 100

**HYDRANGEAS.**

**Hortensia** and **Thomas Hogg**, 4 in. pot plants, \$6 per 100.

**HERBACEOUS PÆONIAS.** Large stock in choice varieties. Also a choice assortment of other hardy perennial plants.

When Writing Mention Florists' Exchange

# PETER HENDERSON & CO.,

35 and 37 Cortlandt Street, NEW YORK.

## DREER'S

# Special Offer

## Of

# AZALEAS

Expected to arrive early in OCTOBER. . . . .

The Quality this season will be fully equal to what we have sent out for several seasons past, which has given universal satisfaction, as is shown by the greatly increased number of orders already booked.



The Tariff which has been increased to 25 per cent on this class of stock will not affect the price, as we have been successful in making such arrangements with our Belgian growers (who are among the most successful specialists in this class of plants), which enable us to sell at the same prices as last season.

The Varieties we offer are such only as are known to us as the best suited to the American market, and all are bushy, well shaped plants, well set with buds.

Shipment can be safely made by freight to any part of the country, if orders are placed at once.

10 to 12 inch crowns, bushy and well set.....	\$35.00 per 100
10 to 12 "	40.00 "
13 to 15 " " .....	60.00 "
13 to 15 "	65.00 "
Specimen Plants, 18 to 24 inches in diameter, \$34.00, \$30.00 and \$36.00 per doz.	

# THE STORRS & HARRISON CO. Painsville, O.

When Writing Mention Florists' Exchange

# HENRY A. DREER, 714 Chestnut Street, PHILADELPHIA.

When Writing Mention Florists' Exchange

## American Institute Show.

The features of this week were chrysanthemums and double-flowered roses. The general excellence of the exhibits was a surprise to all. More than 30 varieties were on exhibit in the chrysanthemum class, of superb quality. The classes were all filled, several of them particularly so. Especially was this true in the bronze and yellow classes. For the best six white there were eight contestants and for the best white seven. Exhibitors were shown less than 10 varieties, six blooms of a kind, G. H. Hale, Belpfort, L. L., was first with 10, Weber & Sons, Oakland, second. Mr. Hale had in his lot Ivory, Valencienne, Vesuvius, Mrs. H. Robinson, and Major Bonafant. Mrs. Robinson, Mutual Field, Miss Georgene Bramhall, Marie Louise, Golden Gate, and Iora.

In the class for the best five vases A. Herrington, Madison, N. J., was first with blooms of enormous size. His varieties were W. Wright, Miss Georgene Bramhall, Major Bonafant, Mrs. H. Robinson, and an English variety, Ethel Adeline. John N. May, Summit, N. J., was second with Ethel and Nemesis. Mrs. H. Robinson, and Henry Hurrell—a nice bright lot but beaten in size.

In the class for the best six white, Mr. Herrington was again first and H. Weber & Sons second. The best six yellow blooms were from the greatest exhibitor, W. Wright, and the greatest grower, W. A. Merritt. Ernest Assmus, West Hoboken, staged a new variety which received 10 points and a bronze medal. The committee last season as a new seedling Mrs. Trainor L. Park. The blooms were hardly at all better than the others. Mr. May managed to beat six remarkably well-grown Bonafant from Mr. Herrington. The variety is a new one, and a class certificate, this being the first time that it had come before the horticultural class of the American Institute.

For the best vase of white Mrs. H. Robinson was the only one shown. Here again the competition was strong. Mr. Herrington secured first honors with blooms of enormous size. He also secured the gold flowers petals. W. A. Merritt, Evergreen, L. J., was awarded first for still class. The plants, but they lacked stems to hold them up. John N. May in this class was awarded bronze prize. His exhibitors being very chaste and well-balanced.

For the best pink, Balfourrose Bros. were first with Glory of the Pacific.

For the best any other color John N. May secured first honors with Sunrise. W. A. Merritt was second. The award prize for a group of foliage and chrysanthemum plants. This was a charming exhibit.

In carnations H. Weber & Sons, Oakland, Md., were first for the largest collection with 10 varieties. Mrs. H. Robinson, New York, and Flora Hill were among his best. Balfourrose Bros. were first for collection of six and three, their principal vases were Flora Hill, Whitcomb Riley, and Victor. The last two varieties were also awarded first class certificates, being new and valuable acquisitions.

## Roses.

The rose classes were filled better than in the previous week. The F. R. Pierce Co., Bay Ridge, N. Y., was first. Mrs. M. Noe, Madison, were again the principal contestants in the beauty class; the latter named going to the front. The new rose variety, N. J. Noe, was first for Bridesmaid and the M. R. Pierson Co. first for Meteor.

Charles & Son, Madison, N. J., exhibited the new rose, Mrs. Robert Garrett, in the form. This rose, under electric light, is a most beautiful specimen and was very generally admired. The variety was certified as a new and distinct rose; and a national medal was awarded to the exhibitor for the variety's general excellence. John H. Taylor, Bay Side, N. Y., exhibited three of the new roses. The first was certified by the American Institute one year ago, and upon this occasion received a bronze medal. On Thursday L. M. Noe exhibited some grand Beauty, not for competition of quality, but for general appearance. He also contributed the Bride and Bridesmaid.

A exquisite exhibit and one which attracted considerable attention was a collection of berries from Robert Laurie, New York, to Mr. Robert Laurie, New York, R. L. The variety which called for special notice was the one from Laurie was awarded the gold medal of the Institute for this worthy exhibit. N. Butcher, Occident, N. Y., exhibited a fine lot of cosmos and an immense quantity of antirrhinums; and A. A. Taaffe, Irving-

ton, N. Y., sent a fine lot of sweet peas, roses and carnations.

## The Cap Contest.

The earnestness of the season prevented several exhibitors who had intimated their intention of competing in this contest, from carrying out their desires. Five exhibitors were unable to appear because of their inability to complete their set. Only three exhibitors materialized—John H. Taylor, Bay Side, N. Y., and W. A. Merritt, Park (gardener, W. H. Harvey), Fort Chester, N. Y.; and A. Herrington, gardener, New York, who brought to the contest, N. J. These competitors, however, made a grand showing, considering the early date. The cup went to A. Herrington with the following varieties: Miss Georgene Bramhall, Tiviana-Jorge, Mrs. H. Robinson, and Major Bonafant, (English), Major Bonafant, and Mayflower. His blooms were generally larger and possessed more body and stem than the second prize lot, which came from Mr. May, whose flowers, though, showed remarkable chasteness and beauty; and his rose that is fresher or better held blooms are shown. His vase of Evangeline will long be remembered as one of the most exquisite exhibits of the season. His roses, Sunrise and Nemesis were his weakest vases. Mrs. Robinson also lacked the size of her blooms. She was awarded the medal of merit of the American Institute. Mr. Park came third with the following varieties: Mrs. H. Robinson, Mrs. H. Robinson, Australian Gold, W. Simpson, and Mrs. Henry Robinson. This gentleman's collection was a normal one, but failed to average up in the totals. Mr. Park received the American Institute diploma.

## Chrysanthemum Society of America.

The committees judging new seedlings will be in session October 23, and 30; November 6, and 13, respectively. Exhibitors should make their entries (for which a fee of \$2 is charged for each variety excepted) by October 15, and later than Tuesday of the week the bids are to be shown.

Bloomers for the following addresses, express prepaid, will receive the rules of the society.

Boston.—A. H. Fewkes, Horticultural Hall.

New York.—Eugene Dalliance, care of Dr. F. M. Hexamer, Madison Square Garden.

Philadelphia.—Edwin Louise, 1514 Chestnut street.

Chicago.—B. W. Witterstaetter, corner Franklin and Dearborn.

Chicago.—W. N. Rudd, room 202, 185 Dearborn street.

## Seeding Chrysanthemums.

CINCINNATI.—The first lot of seedlings was displayed before the committee on Saturday. It included, among other things, a lovely-white named Boundless Snow, of fine standard form; dwarf grower and fine foliage; and a new one, of the property of H. Yoshike, Oakland, Cal. It was a double cerise.

W. R. Ridd & Co. exhibited a bronze-yellow foliage, stem, substance, etc., that was just what was desired. The flower was large and compact, but the did not pass.

NEW YORK.—Only two varieties have been presented before the committee so far. The first was a new one, of the day last, Mrs. Arthur Carter and Ben Nevis. The first-named was sent in by Mrs. H. Robinson, and the second by a Japanese with the stem and foliage and fair size; but lacked the decision of color. These, which were viewed on Friday last, were Mrs. Arthur Carter and Ben Nevis. The first-named was sent in by Mrs. H. Robinson, and the second by a Japanese with the stem and foliage and fair size; but lacked the decision of color. These, which were viewed on Friday last, were Mrs. Arthur Carter and Ben Nevis. The first-named was sent in by Mrs. H. Robinson, and the second by a Japanese with the stem and foliage and fair size; but lacked the decision of color. These, which were viewed on Friday last, were Mrs. Arthur Carter and Ben Nevis.

Reports of Committees of Horticultural Society of America on seedlings exhibited on Saturday, October 16, 1897.

## AT NEW YORK.

Mrs. Arthur J. Caton, Exhibited by W. N. Rudd, Mt. Greenwood, Ill., Japanese; Light mahogany. Scored 55 points.

Mr. Arthur J. Caton, Exhibited by W. N. Rudd, Mt. Greenwood, Ill., Japanese; Creamy white, striped pink. Scored 80 points.

## AT CINCINNATI.

Boundless Snow, Exhibited by E. G. Hill & Co., for H. Yoshike, Oakland, Cal., Japanese White. Scored 87 points.

Mrs. Arthur J. Caton, Exhibited by W. N. Rudd, Mt. Greenwood, Ill., Japanese; Bronze. Scored 77 points.

## ELMER D. SMITH.

## AT PHILADELPHIA.

Mrs. Arthur J. Caton, Exhibited by W. N. Rudd, Mount Greenwood, Ill., Japanese; Reddish orange, reflex orange-yellow. Scored 75 points.

## AT BOSTON.

Mrs. Arthur J. Caton, Exhibited by W. N. Rudd, Mount Greenwood, Ill., Japanese; Reddish orange, reflex orange-yellow. Scored 75 points.

## Chrysanthemum Diseases.

I am glad to say that I have never been troubled very much with either of the diseases mentioned, and I must confess I do not know their names. I have heard, sometimes I get a few spots of mildew, but nothing to speak of. I have also heard of a disease called "black rot," enough to give them any serious consideration. I very seldom have what is commonly known as "black rot." I had some trouble with a small white spot which Philadelphia and Mrs. Bergman were both afflicted with. It was caused by the puncture of an insect; but this year it is not so bad, and has almost disappeared on some plants. The plants in different growing the spot. They were never troubled with mildew, but I have noticed only difference between this year's treatment and last, that last year they got about double the quantity of manure and fertilizers that they got this year.

The batch next to the Philadelphia was in fine condition with large, healthy, and dark green foliage and not the sign of spot on them; but by looking at them closely, apparently the same puncture was in the leaf. I concluded that the cause of most of the sickness and mutilation of the affected varieties caused principally by faulty growing. The most serious cause of sickness and mutilation are brought on by improper treatment to the plant, and can best be cured or prevented by growing the plants, and not to the disease; and except in the case of mildew. I try to make the plants out-grow the trouble, but fail to do this. I destroy them altogether, as I have never yet seen a successful attempt to cure diseased plants, and I have seen a commercial point of view.

Mildew is the only disease I treat directly with fungicide, and I have used it, as it seems to be easy to get at. The early stages of mildew affect only the leaves, but if it gets into the stem, in time can be killed without doing much injury to the plant. But at the same time, if it gets into the stem, it will kill the plant, and the plants must also receive improved treatment, or the same condition of the plant will be brought in. The first place will bring it on again. In fact, the application of sulphur weakens the plants, and will not do much good, and will do much to mildew than it was at first.

It is very difficult to get plants out of the disease and except in the case of mildew, and disease are caused more by the plants suffering from ill treatment on the part of the grower. Insufficient light and air are the most common causes of the disease. Plants are in a growing condition, will probably bring on mildew quicker than if they were in a dormant condition. This will weaken the constitution of the plant will make it susceptible to mildew quicker than if it were in a dormant condition of the soil. Improper use of manure, and insufficient light and air are the most common causes of the disease. Any one of or all of these may cause disease, and the most effectual remedy is to get the soil, light and air in condition. Give the plants as much light as possible, ventilate freely, and feed with sulphur, probably to the extent of so much manure.

Nothing but practical experience will tell you how to get the best results, mechanical order, as how and when to apply water, etc. The plants must be cultivated on Saturday, October 16, 1897.

ditions and requirements, which can only be done properly by the grower who is in constant attendance. The soil, of course, must be in the best condition, and prepared, and of a physical structure suitable to the habit and nature of the variety. It is very difficult to get at it, it is a very difficult matter to get plants to grow in it under any conditions, making it a very difficult matter to get at it.

A prudent grower is not liable to be troubled much with disease; but if his plants are not in the best condition, diseases can assist him very materially, especially in the case of mildew. In this case, a fungicide is as liable to increase his troubles as he is to relieve him.

The most serious trouble I had to contend with this year was with the leaf miner; a small white worm about one-quarter of an inch long, that gets into the inside of the leaf and digs it completely out, killing the part of the leaf he works on and leaving a hole in the leaf as large as much as home on a healthy plant, probably more so, than on a sick one, and he will not be troubled with it, but he will not be troubled with it. I haven't done anything yet, except to pick off the damaged part of the leaf, and to pick off the damaged part of the leaf.

Black fly and thrip will also thrive on healthy plants, and if not kept down will be profitable to the plant, except as disease.

I think that "bagworm" is of considerable value to the grower, but I do not know.

ROBT. MILLER, Assistant foreman, C. Strong & Co., Washington.

## Plant Growing.

As the art of plant growing every year advances nearer to a state of perfection, the tendency toward each grower making his plants better and better, and his plants more apparent. The standard of excellence is now placed so high, and the competition so great, that the plants who get the most out of the plant business is the one who knows just how to produce. Since the price of plants, like all other commodities, has been falling, and the demand for plants is increasing, it is more profitable, as the margin of profit on the individual plant is so small, that the grower must produce in large quantities, just as manufacturing has to be carried on on a large scale to be profitable.

A young man embarking as a grower, should first give the subject judicious and serious consideration, studying well the case, and ascertaining what is the greatest demand for in his locality at the present price, and build his plant in a way calculated to grow what he does grow as near to perfection as possible at the minimum cost. He should also establish the fact, and demonstrated to the public and to the trade that nothing, but first-class plants, can be produced, and he will not find it difficult to dispose of his product, as a superior grade of plants is always in demand. He should also have rooted cuttings, palms, or whatever his specialty happens to be, and to grow it with his own hands, in such a way as to make them feel they have received credit for their own work.

The successful money-making florist is the one whose name is synonymous with all that is good in the plant business. He has rooted cuttings, palms, or whatever his specialty happens to be, and to grow it with his own hands, in such a way as to make them feel they have received credit for their own work.

No man should undertake the management of a place without first acquiring a thorough knowledge of the business, and able him to analyze his soil, and apply and supply the needed plant food in the most judicious manner. He should also have a knowledge of, and familiarity with, the root action of his plants, much of his success will depend on his ability to analyze his soil, and apply and supply the needed plant food in the most judicious manner. He should also have a knowledge of, and familiarity with, the root action of his plants, much of his success will depend on his ability to analyze his soil, and apply and supply the needed plant food in the most judicious manner.

CORRESPONDENCE.

Insertion will be given in this column to all communications from abroad, but the opinions expressed do not necessarily reflect our own.

Washington's Florists and Public Parks.

Editor Florist's Exchange. - In reply to Mr. Oliver's article in No. 39, page 866, of the "FLORISTS' EXCHANGE" and in defence of the ordinary flower growers, I beg to state some simple facts:

There are in the city of Washington, under the control of the Commissioner of Public Buildings and Grounds, in charge of the public gardens, in all about 360 reservations or public parks. These vary in size from a few hundred feet to 82 acres. Of this number there were 64 highly improved, some years ago, with fine trees and shrubbery, partially improved, 33, and unimproved 167. This does not include the U.S. Treasury Department, the Botanical Gardens, the Agricultural Department, the new library, or White House grounds, or the large Lake Creek Park, for which separate provisions are made.

To maintain these 360 reservations, Congress established at the Monument Grounds a nursery and propagating garden, embracing nearly two acres of the best equipped greenhouses, with the distinct provision that nothing shall be grown there except for the adornment of the aforementioned reservations. Last year appropriations for the maintenance of the establishment and that of the 500 reservations amounted to a sum of \$10,000, which included \$32,000 for salaries for public gardeners, overseers, gardeners and laborers; \$17,800 for the maintenance of the reservations; \$2,000 for 400 tons of coal, and \$45,000 for additional labor.

These 300 reservations, or part of them, were planted this year with 140 thousand trees 10 to 20 feet in diameter as follows: 24 with coelebs, acyrnathes, alternantheras, variegated geraniums, and geraniums 22 with canna's, 18 with yuccas, 10 with scarlet sage, 2 to 4 each with verbenas, single and double, and geraniums, 2 with palms, calladiums, muses, etc. There are also two dozen vases and a number of flower beds. These beds are planted in Fall with chrysanthemums from pots and with bulbs.

These House, or so-called, exclusive Mansions, contain 82 acres, and thereon are eleven finely constructed conservatories 100,000 feet of glass, all for the President's exclusive use. These conservatories, under the excellent management of Mr. H. Pfister and his able assistants, are crowded to overflowing with the choicest orchids and all kinds of blooming plants, as well as excellent specimens of 1,000 decorative plants. The President of the United States is at no time wanting in the "choicest possible." At the White House alone, in a year, as usual, are planted over 80 choice flower beds all done by Mr. Pfister and his assistants.

On eight to ten days during each of the winter, the east and other rooms at the White House are decorated with the choicest plants from the Propagating Gardens, very few fresh flowers being employed, there being used instead garlands of artificial flowers around mirrors, pictures, and columns. Now, let me state right here that it is not the fault of the florists, but the pernicious, unwarranted, and unlawful giving away of flowers to private individuals, who never give anything back by a glance at these facts, that especially in our Washington climate it is impossible to grow anything to sell. To grow the bedding plants mentioned, particularly as they are grown under glass, is a plant out after the tenth or middle of May. Nor do the florists get any thing out of the Propagating Gardens, so called, are by no means empty the balance of the year, but are well supplied with plants to sell. They grow there flowers and plants of the kind that the ordinary flower grower can grow, and if they are not ever available at the Government Gardens to supply the ever-increasing demand for plants during the winter that the complaints are made about the "measly appropriations" business here 25 years, and every Spring attend the city markets. The remark, "Oh, we get this that that plant at the Government Gardens

is a common one there, and those who make it are not the common people. Besides these institutions of Uncle Sam we have the Reform and Industrial Home School greenhouse products to compete with, and, also have to help pay their expenses by taxes, etc. "No, Mr. Oliver, it is not that any of us is green with envy, which prompts us to fight this unjust competition, and enjoy the sympathy and help of our brother flower growers in this broad land. It is simple justice that we are after."

N. STRUBER.

A Rule for Chimney Capacity.

There is an old rule of thumb for chimneys, says the Boiler Maker, assigning one square foot of grate per horse-power of the boiler, and from one-tenth to one-eighth the area of the grate for the area of the chimney, varying the height to make up for required draft. A more definite system of computing chimney power is in use by engineers, by which the quantity of coal to be consumed on the grate

is not the matter of profits. While many horticulturists have become wealthy, I have yet to hear of any one connected with the horticultural press who has achieved riches in this calling, in this country, at least.

A paper is to some extent moulded into form by its conductors, and the opinion generally prevails that the editors make the papers what they are. This is a mistake. It is the public now and always that makes the paper. The writer in that will be no better or higher than in the spring from which the well draws its supplies. A newspaper, trade or general, is only a vehicle for conveying information from one to another. On the patronage it receives will depend whether it will be kept in good repair, always well edited, its driver well fed and full of vim, or whether it becomes broken down, with croaky joints, and a meek, discouraged spirit for a man in charge of the reins, and who do not care a rap whether they stop or stand still.

Regarding the matter of advertising, there are two ways of considering the value of an advertisement. One is in case

community, or class, or trade have than an honest, fearless and independent editor, but the people who make that kind of a paper possible.

OBITUARY.

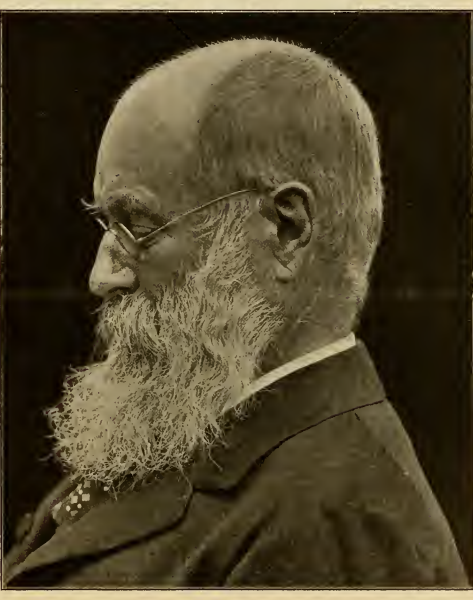
Charles Anderson Dana.

Horticulture, by the death of Charles A. Dana, the world-famed editor of the New York Sun, which occurred at his country home, Dosoris, Glen Cove, N. Y., on Sunday last, has lost an ardent admirer and warm supporter. Mr. Dana's love for the natural and artificial was lifelong, and at his charming country home, his instinctive good taste for no noble tree, fine landscape effects, and flowers was exemplified in a remarkable degree. Here was collected the choicest subjects, both native and exotic, the rarest and best of everything, and Dosoris, which became the Mecca of horticulture in America, seemed more like a museum of living plants than a gentleman's private garden. Its owner, too, knew his trees and loved them as he did children. He was familiar with their botanical as well as their common names, and he knew their geography, history, and use. He also was a connoisseur in the matter of fine fruit, and he had a special interest in bringing him into contact with most of the progressive horticulturists of all parts of the world, for he had not only been extensively visiting the public parks, arboreta, and botanical gardens of different parts of the world, but he had also endeavored to enrich his collections from these sources. There were two gardens in Europe of which Mr. Dana never lost speaking; these were Fota Island in Ireland and Castle Kennedy in Scotland, both remarkable for their magnificent collections of coniferous trees. One year the deceased editor entertained the prominent botanists and horticulturists of the country at his Long Island home. These gatherings were participated in by Judge Addison Brown, Jr., Britton, Samuel Parsons, senior and junior; Andrew Fuller, Thomas Meehan, Jr., Charles K. Smith, John Saul, George Steh. W. A. Sells, Isaac Hicks, Peter Henderson, J. C. Tracy, and many others. Several of these gentlemen have crossed the bonnie, but those who remain mourn their loss as they would a beloved brother.

We take pleasure in presenting here with a magnificent half-tone photograph of Mr. Dana. A tireless worker and a man of many parts, filling each as few men have the ability, we think of him solely as a horticulturist; his service to the common cause of gardener, amateur and commercial, can never be over-estimated; his influence, direct and indirect, was widespread. Hence the Florists' Exchange pays his memory tribute. The writer has spent some of his most happy hours in wandering over the estate of Dosoris; the study of the varied and valuable collection of trees and shrubs was a never-failing delight, while the well-kept gardens and conservatories revealed a wealth of plant life to which all strangers had free access. It is to be regretted that the profession know Dosoris only from observation; thousands from reputation; all will be glad that this conservation, which has never been allowed to fall into the hands of any one, may ever be kept up in its present glory for the benefit of horticulture, and the horticulturist. It is to be regretted that the writer has never been able to afford to lose any of the patrons of the beautiful in nature; least of all such a distinguished follower as was Mr. Charles A. Dana.

George Meek.

George E. P. Meek, died October 18 at his late residence, Covington, Ky. Mr. Meek was one of the leading retail florists of this vicinity. He had been in the florist business for 30 years. He worked in the nursery business, with S. H. G. Cobb, and started as an apprentice with the firm of C. W. Atchey and the employ of B. P. Critchfield for four years, and in 1875 he commenced his business at the corner of Covington, Ky. He was 42 years old, was married, and leaves a wife and one child. He was a member of the P. M. P. Pathias, which order had charge of the funeral services, which were held Wednesday afternoon at his late residence. The craft is extended to the widow and child. E. G. G.



The Late Charles Anderson Dana.

per hour and per square foot, with an allowance for the friction of the gases in the chimney, form the basis of the formulae for size and height of a chimney. A formula based on a consumption of five pounds of coal per square foot of grate per hour is much used, in which the horse-power required and an assumed weight of chimney are factors. Then Horse power = 3.33 X √height which must be increased by its square root N. 0.8 for the actual area to allow for friction. In this way valuable tables of sizes and heights of chimneys for a horse-power and for both brick and iron chimneys of round and square form have been made.

The Press and its Relation to Horticulture.

Extracts from Paper read before Boston Gardeners and Florists Club, Jan. 15, 1897, of New England Florist.

you have something special to sell at an announced price, and here you can easily judge of its value by the results. But by far the greater part of all advertising may be considered in the light of a sign, with your name, business and address. It answers the same purpose as the sign over your door. I am not sure, but I think it is John Danamaker who said that he would as soon think of taking his sign and asking his advertisement men out of the papers, and what John does not know about advertising, and Sunday schools and pollies, you are I haven't the time to touch him. The value of this kind of advertising can only be judged by general results. If you find your business increasing from year to year, don't take all the credit to yourself. Give the papers a little.

In conclusion, don't forget that in the matter of horticultural or any other kind of a paper you will get just what you pay for. For a year or two, possibly, you may get more, that is, with the capital and patience of the publishers are exhausted, but eventually the rule will conform to that which governs all other commodities. No greater boon can any

CENERARIAS

From 3/4 in. pots. \$1.50 per 100; \$12.00 per 1000...

E. FRYER, Berleim St. and New York St. BROOKLYN, N. Y.

GOOD STOCK

- Adiantum Christatum... 1.00 Doz. 100.00
Cyclamen glaucum... 1.00 Doz. 100.00

SEAWANNAH GREENHOUSES

OYSTER BAY, QUEENS CO., N. Y.

JUST RECEIVED

TO MAKE ROOM.

- 3000 M. Louise Violets, framed... \$2.00
1000 Carnations... 8.00

R OTED CUTTINGS.

REX BOTANIC, Mrs. Pollock Silver

PAPA B. OBCONCA.

- Very fine plants, some in bloom... \$1.00
Pines... 5.00

WILL SELL, MUST HAVE ROOM. 5,000 SMILAX...

THE FLORISTS' EXCHANGE!

CLABRA (?) and CLABRA SANDERIANA. These plants are bound to become leading decorative subjects...

Send for Circular of "FACTS AND COMMENTS." WE OFFER NICE STOCK OF BOTH VARIETIES...

FRINGED, PERPETUAL BLOOMING HOLLYHOCK, ALLEGHENY

For which the Great Yards wherever shown. The Gravel Novelty for 1898...

MADRID BLUSH. Undoubtedly the best pink CANNA yet introduced.

THE CONA-D & JONES CO., WE T GROVE, PA. When Writing Mention Florists' Exchange

PELARGONIUMS

Victor and other good types. \$1.48 per 100. J.C. SCHMIDT & CO., Bristol Pa.

Fire and Bridesmaid Roses

3 1/2 inch plants, 100 per 1000... THE NATIONAL PLANT CO., Dayton, Ohio.

ROSES

5 IN. POTS. BECK ROSEN. Bride, Bridesmaid, Perle, Meteer, Papa Gottier...

Roses and Asparagus Plumosus

500 Plumosus in 3 inch pots... LEWIS ULLRICH - Tiffin, Ohio.

CARNATIONS.

Albino, Bridesmaid, Eldorado, Crown Prince... W.P. PEACOCK, Alto, N. J.

Seasonable Stock for Florists. ALL STRONG FIELD-GROWN. Anemone Whitebird...

RSEES.

Watering and Manuring.

What I call improper watering is a dribble; such quantity applied every day only going down an inch or so and keeping the surface wet all the time...

There is another matter of equal importance just now. Where plants have made a large growth...

It is easily put out of working order if the manure water is not properly screened...

As long as you have enough hose to reach through a house the liquid can be used...

It is also essential that good hoses and washers be used...

It is the same manner as you would apply clean water by allowing the soil to become in such a condition...

These roses have been potted some time and have made a nice bushy growth...

2 YEAR OLD ROSES 2 YEAR OLD

PEPITAL BO BLOOMING ROSES. Cleopatra, Orange, Oesteritz...

ROSES

Bridesmaid, Perle, Meteer, Papa Gottier, Crown Prince...

CLIMBING ROSES.

Two year old plants in the following varieties: White Rambler, Yellow Rambler...

Two year old plants in the following varieties: Grand Clayton, Magna Charta...

The Art of Catalogue-Making.

An advertisement occasionally appears in English horticultural journals, for book numbers of trade catalogues to complete the series. The justifications are essentially evanescent, but much of the concrete is permanent worth. In the index I always have examples of all the wild species of every genus of flowering plants. I remember the original description, and also the habitat, but it is not so with cultivated plants. These catalogues with their first descriptions of new varieties? Is the trouble with the way catalogues are made, or in the nature of the business?

The systematic botanist ignores this vast literature, not because of occasional dishonesty, but because he lacks order, but because there are limits to human capacity. He draws the line between wild and cultivated plants, catalogues and descriptions of new wild species in trade catalogues. It is possible to limit the work, not with the art of catalogue-making, but with the possibilities of human nature. I have been fussing for two years with catalogues, and have a practically complete catalogue of chrysanthemums advertised for sale in American catalogues in 1897, and a similar one for dahlias in 1898. My first idea was to get a complete list of all the varieties, just as a systematic botanist feels that he must know all the wild species of a genus before publishing a revision of that group. Such a piece of work is impossible at the present time. Incidentally, I have handed every important American catalogue and many foreign ones, with their designs and valuable features which are obvious to one who knows even a little about systematic botany, to a number of my friends. It is easier to criticize than to perform. The man who knows much of the art of catalogue-making and spends \$100,000 on it every year. It is precisely because I am not a catalogue maker that I feel that all of them should be kept that I can see, and perhaps in my early days, and present conviction.

Waiting for the present the all-important question to consider is certain technical features. "An ideal catalogue," says J. H. Griffith in his interesting article in the *Florists' Exchange* for March 30, 1895, "is one that contains a list of seeds, plants, or trees arranged methodically." Method has been most nearly perfected by librarians. The lack of system in the horticultural catalogue is perhaps the most frequent complaint of the purchasing novice and the skilled librarian. It is a complaint which one may witness at the dahlia Souvenir de Mme. Moreau in twenty various catalogues, under "Souvenir de Mme. Moreau" (the name is indelibly misspelled), and even the barbarous "Mad." But suppose the purchaser wants the old-fashioned, long-topped, double pink dahlia. How can he tell that he wants Souvenir de Mme. Moreau? He may be misled by the titles? Sometimes he buys names, sometimes he wants form, color, and habit, and sometimes he wants things for cultural reasons, i. e., for commercial, market, or special purposes.

There are only three logical arrangements to meet these three wants—the alphabetical, the systematic, and the natural. These three systems of arrangement are allowed to conflict in nearly every catalogue. The chief objection to them is purely a technical matter, and in my judgment, nearly entirely free with the same limitations imposed by expense.

mentioned by name, as are the roses. Our language is rich in names of colors, but poor in names for forms of flowers. Under "white, and white shaded" are given fourteen varieties arranged in double columns with descriptions equivalent to a single line stretching across the entire page. It is how an eye matter to choose the exact shade and the desired form. The last two of the twelve pages are devoted to an alphabetical list of varieties with references to the page where the several descriptions occur. To like all other trade catalogues the one just cited is designed to sell goods, not to record things as they are (as a library catalogue does), and yet it has all the value of comparative descriptions as opposed to the enthusiastic recommendation of every article. The avoidance of repetition saves time and money, and is a wonderful gain in clearness. To be a national register of new introductions, it is (sometimes said, for example, that Johnson's Dictionary of Gardening looks statistical and unreadable. The appear-

is an excellent example, taken from the catalogue of E. G. Hill & Co. for the spring of 1897, of Hill, Mrs. E. G. This variety is grand in color when not treated to bicolor of soda. Comes 4 1/2 feet high and over. It will pay any florist to study its requirements and grow it to perfection. Use the second crown, or early one, if you are a wretched failure. Plant June 5th." The amount of unpublished knowledge of cultural conditions for special varieties cannot be conceived of by one who is not in touch with the trade. Every worker with cultivated plants is inclined to despair over the confusion resulting from the use of titles and personal names, the importation or translation of unpronounceable foreign names, the unlimited use of the words "new" and "novelty," and a dozen other evils that might be mitigated if there were a national register of new introductions of plant importations. So long as the competitive system lasts, such a bureau, even if organized purely for purposes of re-

technical improvement for convenience in handling things as they are. If a trader, or a grower, or a collector, is interested in displaying them in logical order for the comparative student, he alone is to bear the responsibilities and consequences. As a rule, only the older and larger houses, or those who have been known as an organic whole. The annual retail catalogue, the quarterly wholesale trade catalogue, the monthly magazine issued at a nominal price to meet customers often than at a profit, the monthly list of new introductions, the separate issue of botanical and cultural information in the form of encyclopedias, directories, and other books distributed as premiums, all these things come only with the catalogue business. The beginner who stumbles into the "catalogue business" rarely has a distinct idea in view, and his only publication jumbles everything into a chaotic mass. It is a costly experiment, and hundreds fail in it.

Whether seedsmen will always portray possibilities and never mention averages or point out chances of failure, is a business problem of a different sort. So, too, is the question of trade catalogues no stronger than any of its links, but it was quite common in the past to give all the goods of a trade catalogue as a "complete" account, except one or two points. In very specialized manufactures the goods are not so readily considered part of the capital, but agriculture is an art, and in every profession the success depends on the personal qualities. It is usually safer and better business policy to hide no general methods, and to show the most successful horticulturists have the fewest secret recipes.

WILHELM MILLER, Ithaca, N. Y.

Insect Injury of Violet Leaves.

Our violets have been injured this Summer by a small green worm, varying in length from one-fourth of an inch when young to about one inch when fully grown. The Entomologist of the U. S. Department of Agriculture has kindly furnished me a photograph of the insect. The picture shows the insect in its different forms—three-fourths natural size, and three times as large as full grown and the third quite young. The illustration also shows two pupae three times.

The injuries have occurred from early spring up to the present time, and in some cases up to the present time. The cause of the injury caused by the undertermined saw fly, described by Professor W. G. Haliday in the *Florists' Exchange* of August 7, 1897, p. 720, this trouble has been observed only on plants under glass. Plants growing in the most secluded parts of the houses, that is, next to the walks and under the gutters, seem to be preferred by the insect. Their attacks are not confined to the plants so situated, however, being occasionally found on plants bordering on the walks and in the most open parts of the house. The general character of the injury is on a single leaf, although several may occur on the plant. The worms feed on the under side of the leaf, and on the upper epidermis, which presents a papery, white appearance, as shown with difficulty in the photograph. In this respect the injury differs from that caused by the saw fly referred to, as they lay their eggs on the under side of the leaf. Usually the worms are surrounded by a light, thin web, and where one leaf overlies another they frequently fasten together by means of the web. The larvae move rapidly when disturbed, and are very difficult to see. They are pushed off the leaf they will be most cases they will be seen to slip off the web, and then the web is transformed from the worm or larval stage to a thin, white web, which is fastened to the web between the leaves instead in the number described or on the edge of a leaf to the web and under the gutters, which means of a web. Here the chrysalis remains until the moth emerges, which in the case of the saw fly is about ten to ten days. The moth is one of the night flyers.

The worms can be of course be picked by hand and destroyed, but the most satisfactory manner of dealing with this pest is to destroy the plants with the cyanic acid gas, as described in the *Florists' Exchange*, Vol. IX, 1897, p. 147. The cyanic acid gas is a very powerful summer will keep violet plants clear of all insects except red spider, which so far as I know, can be destroyed by the use of water. P. H. DORSETT.

Violet Leaves injured by Larvae of Phlyctena Ferrugalis. Also showing Larva, Pupae and Moths.

name is unavoidable, and it is the best English one-volume dictionary of the subject. The *Vilmoria* catalogues, however, are neat and attractive, and the present catalogues are of a similar kind. Extreme carelessness in one direction usually means reliability in all. The present catalogues are of a similar kind. It is not a question which each firm must decide for itself. On general principles it seems to me, saying in time, money and labor for producer and consumer. I have planted about 500 varieties of dahlias this year according to form and color, and 167 kinds of chrysanthemums, which will apply to the great majority of either task without having a number corresponding to each name. The chief difficulty, where varieties are described, so long as they are properly cross-referenced. Four factors have been mentioned in the alphabetical, the natural, the cultural, and the unnatural. The use of numbered entries is a matter of choice, and many prefer to give an alphabetical list of the names of the varieties and include special directions with the varietal descriptions. The chrysanthemum catalogue of Nathan Smith is one of many that can be commended in this respect. Others, again, prefer to use the numerical system as much as necessary words of description. The word "Japanica" occurs dozens of times unnecessarily in some English catalogues, and does other class names, and is not necessary in the trade. It is not quite clear what is meant by special cultural directions, the following

condition, likely to be viewed with askance by seed merchants. Nevertheless, recording the progress of horticulture is a very different thing from regulation of trade. The general public ought not to be suppressed. The recording of synonyms is a matter of bookkeeping and ought not, in reason, to prevent the sale of any plants. A name that is synonymous with the name of a good thing is itself standing by a good thing. The ethical aspects of catalogue-making are almost beyond enumeration. The general public has experienced, according to Mr. Griffith, a strong and steady reaction against the untruthfulness and gainfulness of earlier catalogues. The chorus age is past. The "half-tone" is what the people want. They like it better than wood-engraving even if the latter be more artistic, and they have not yet found out how to combine the two. The gullible element is immortal, and so long as trade is founded on competition, the unvarying will be seduced. There are two reasons, one in the nature of plants, and one in human nature, why catalogues are likely always to be blamed for untruthfulness and unjustly. The articles are not finished manufactured products, but they are possibilities of growth which the buyer consumes, as does a foster parent the education of an adopted child. The grower, who deals with plants as an entrepreneur, is not a manufacturer, and is not a manufacturer. I am not a reformer. The catalogues should be referred to as a part of the trade, and some will say, humbug of it merely wish to make suggestions of



### Exclusively a Trade Paper.

Entered at New York Post Office as Second Class Matter.

Published Every Saturday by

A. T. DE LA MARE ET AL. AND PUB. CO. LTD.,  
2, 4, 6, 8 Duane St., New York.

P. O. Box, 1697. Telephone 2154 Corliesland

REGISTERED CABLE ADDRESS  
(Commercial Cable) FLORIST, New York,  
CORNYCATHAM 34

#### SUBSCRIPTIONS:

\$1.00 per year: 10 United states, Canada and Mexico. \$2.00 per year to foreign countries in postal union. Payable in advance. New subscriptions will commence with the number after receipt unless otherwise ordered. Back numbers can be supplied when wanted. The date on address label shows when the subscription expires and is the subscriber's receipt. No other receipt is sent.

#### ADVERTISEMENTS:

Copy must reach this office not later than Thursday in order to secure insertion in issue of the following Saturday. Special positions extra. Discounts on contracts of one month or longer.

Orders from unknown parties must be accompanied by cash or satisfactory references.

### Exclusively a Trade Paper.

THE FLORISTS' EXCHANGE is published in the interests of those commercially identified with the Florist, Seed and Nursery business. New subscribers are requested to enclose business card or other proof of their connection with these trades.

### Contents.

AMERICAN CARNATION SOCIETY	968-970
AMERICAN INSTITUTE SHOW	972
CARNATIONS	972
CATALOGUE MARKING, THE ART OF	972
CATALOGUES RECEIVED	973
CLEMENS CAPACITY, A RULE FOR	973
CHRYSANTHEMUM DISEASES	972
CHRYSANTHEMUM DISEASES	972
CHRYSANTHEMUM SOCIETY OF AMERICA	972
CHRYSANTHEMUM	970
COMING EXHIBITIONS	973
CORRESPONDENCE	973
CHANG 813 BUSINESS	976
EXPERIMENT STATIONS	981
OBITUARY	974
C. A. DAD, George Meek	974
PLANT GROWING	972
PLANT MARKET FOR NEW YORK, A	961
PLANTS, THE, AND HORTICULTURE	961
QUESTION BOX	976
REFLECTIONS ON CURRENT TOPICS	978
ROSES	974
SEED TRADE IN AMERICA	987
SOCIETY OF AMERICAN FLORISTS	976
TRADE NAMES	976
NEW YORK	976
New-York Philadelphia, St. Paul	977
Cincinnati, St. Louis	978
Chicago, Fort. Wayne, Pittsburgh,	978
Richmond	978
Indianapolis, Kansas City, Providence,	981
Troy, N. Y., Philadelphia, Washington,	981
Portland, Me., St. Paul, Minn.,	981
Poughkeepsie, N. Y.	981
Baltimore, Los Angeles, Omaha	986
TOPIAL LEAVES, INSECT LEAVES	973
(Illustr.)	973

### For the Busy Man.

Business in New York City was never so dull at this season as it is the present year.

President Graham has appointed G. M. Kelly, President Hill, M. C. a member of Executive Committee's A. F. O. A. H., versus Kelly, McCullough.

The Fine Insurances Committee had a very satisfactory law discussion in New York this week. The result of their deliberations will be published in next issue.

A. Heroldton, Madison, N. J., won the silver cup of the Hayden Horticulture Society of America in the competition held Thursday last in Madison Square Garden, N. Y. There were three competitors.

### Society of American Florists.

President Graham has appointed Mr. George M. Kellogg, of Pleasant Hill, Mo., a member of the Executive Committee. The Executive Committee has also elected term of Mr. J. Charles McCullough, who has resigned, owing to business demands which prevent his devoting the necessary time to the duties of the office.

### American Carnation Society.

We ask for the subject matter contained in the circulars distributed by the Carnation Society (copies of which we print elsewhere), the careful consideration of all growers of the Divine flower. It will, we are frank, be readily conceded that only the best interests of the Society are sought to be furthered by the gentlemen with whom the proposed changes and amendments originated, and that their praiseworthy endeavors are to be highly commended.

Advertising to the "Instructions to Judges," we notice that an ideal has been set up for the guidance of the adjudicators, in addition to the scale of points governing seedling exhibits. The seedlings are to be "compared with the best specimens of the best similar varieties in commerce, whether such commercial varieties are on exhibition or not." This is certainly broad enough and gives the judge ample scope to build up from the best commercial varieties within his knowledge a high standard to represent color. The complainant must necessarily be subjected to a most crucial test. The recommendation, in our opinion, is an excellent one, and worthy of adoption.

A seedling which shall have a "distinctly new and desirable shade of color," is to receive the full number of points for color. This opens up the question, What is a desirable shade of color? How are the judges to determine this? Color, like flavor and fragrance, is an ethereal attribute; it is in no way tangible. One cannot specify for the purpose of comparison. It is until an opportunity has been given for its expression, and fashion's vagaries, in this connection, will always trim the balance. The words "and desirable," should, to our mind, be eliminated.

In the matter of the change in the method of judging seedlings, the system now sought to be inaugurated is practically what has been previously urged by us in these columns. The adoption of it would surely prove a strong safeguard, and an invaluable guide in the purchase of new seedlings placed upon the market. Any drawbacks or advantages which may attach to this system, are greatly overshadowed by the advantages that must certainly accrue from it. By all means let it become operative.

We do not think there could be devised a better way of electing judges than what is proposed in the document referred to. It is a liberal-minded proposition, and should meet with the hearty approval of all who appreciate an honest disposition to give general satisfaction.

We may be pardoned for saying, that to the discussion arising out of our editorial on the subject of "Seedlings and Certificates," can doubtless be attributed the proposed changes and amendments, showing how ungrounded were the fears of several members left the holding up of the "Certificate" as a barrier to the internal workings, should shatter the Society. A structure that has grown so rotten that it cannot stand repairing should be entirely demolished. The adoption of the suggested improvements in the Society's methods will strengthen the confidence and endow its certificates for seedlings with an unquestionable value.

### Reflections on Current Topics.

The seedling chrysanthemum season is again here, and with it, as a natural consequence, the usual augmentation to our nomenclature of the Autumn queen. "Hope for the future" is the motto of the "family christening" system will be supplanted by a common-sense and economical use of nomenclature this year. There are several good reasons why the first-named style should be abandoned. First, it is a waste of time and labor; it creates, secondly, its inanity; thirdly, the lack of originality that the application of it entails. There are also deplorable influences as well. Take, for example, the case of a rose of recent introduction which by the name of "The Retail Trade" in the metropolis, at least, more on account of its name than for its inherent qualities. This, of course, is unjustly rival; and no doubt the same spirit is abroad in relation to the products of certain chrysanthemum growers, whose persistency in creating a "family combination" as regards nomenclature has become a matter of adverse criticism and comment. Personally, I favor single word names, where practicable, as for this year, the "Retail Trade" style is easily pronounced and better lend themselves to correct and handy alphabetical arrangement. It is a pity that the suggestion they advertise cannot be the object of others. But I would not expect of them, as they are not the kind of names of that kind, that are indicative of the relationship of a family combination, but of individual characteristics. At all events, let growers give us something new and refreshing in the way of nomenclature. Chrysanthemum nomenclature has certainly been "weighed in the balance and found wanting." "Lippincott's Magazine" for October contains a bit of history associated with the trade, which, I think, might prove of interest to our readers. It is by M. Theodore Wolfe in his most instructive and entertaining article on "Some Little-known Facts and Anecdotes of the name of these the building at the corner of Nassau and Liberty streets, at one time tenanted by the firm of Messrs. Thorburn, Laurie Todd." A few doors from this stand, in his own rooms, Mr. Wolfe has a collection of plants of yellow fever, a strippling who was afterwards the inventor of what is now known as the "Yellow Fever" strippling, which he brought to the attention of the readers is the fact that on the opposite side of the street, in the building at the corner of Nassau and Liberty streets, at one time tenanted by the firm of Messrs. Thorburn, Laurie Todd, who there sold seeds and plants.

The trade has included in its ranks men of large and varied attainments, but one of our own writers, Mr. W. J. Cobbert, a self-styled author, editor, and parliamentarian. He was the author of an "English and French Grammar, respectively, a Treatise on Domestic Economy, a Treatise on Woods and Forests, one on the "Art of Gardening," and so on. In addition, besides a number of other valuable works, which met with public success, he has also published an "Invaluable record as regards intellectual quality, whatever else may be said of the Cobberts."

The wisdom of Canada has evolved a definition hitherto sought for in vain in the literature of the horticulturists, photographers, and which will render invaluable service to promoters and managers of horticultural exhibitions, who do not accept it. The directors of the Toronto Horticultural Society have decided that they will not accept of a name which does not depend on or has not depended in any way for its living on any occupation or profession, but which is a mere interpretation of this definition, however would lead us to infer that one used have a connection with the horticultural profession, and yet he may be considered an "amateur horticulturist." This to me appears to be somewhat of a paradox.

But the directors have also furnished an addendum clinching their definition: "The name of the exhibitor shall be on or on the premises of one who so depends or has depended for his living on the horticultural profession, and the name is debared from exhibiting." This embargo may have a local significance; it may be a matter of indifference to the severe. For the crime of being or having been a horticulturist, one's sisters, cousins, nephews, sons and daughters, and his mother-in-law, residing with him on the premises, are debarred from exhibiting. "Crud, stern, Canada," 1908.

### NEWS IN BUSINESS.

PARK RIDGE, N. J.—Mr. Bennett has sold his business as florist, and will reside in Fortchester, N. Y.

ASHTABULA, Ohio.—The Ashtabula Greenhouse Company, valued at \$25,000, has been incorporated by W. H. Cowdery, Hattie L. Cowdery, F. C. Ball, Vera F. Harris, and J. K. Harris.

YAFU, Cal.—Leonard Cortes has sold out his nursery business to John Ames; it will be continued under the style of Ames & Munro, the other partner being Wm. H. Munro, a practical nurseryman and florist.

WEST BROOKFIELD, Mass.—Wass & Brown are building several large greenhouses on Main street, and will branch out extensively in the raising of plants and flowers. Early vegetables will be a prominent feature in the new industry.

TRENTON, N. J.—Articles of incorporation were filed with the Secretary of State October 7, by the "Sea Girt Farm." The capital stock is \$100,000 and the main capital stock of the company will raise vegetables and furnish bonquets for Governors' balls and other social occasions. The incorporators are Samuel L. Gillin and Henry H. Yard of Belmar, Mary A. Blakey and Henry H. Blakey, of Trenton, and Edmund L. Hall of Spring Lake.

### New York.

#### Wholesale Market.

Business in every branch is in perhaps the worst condition that has existed in a long time. The market is simply dead, and the reason is not a shortage or excess of supply, but purely from lack of demand. The only apparent reason for this is the fact that the country and the City's swell thoroughfares, especially Fifth avenue, which is no doubt keeping some of the best material in the world. Plant growers are not any better off than florists, and are growing, excepting that the stock is not so plentiful as in the case of the former, congested greenhouses and nurseries. No steady figures are being for any class of plants.

#### Auction Sales.

These also are feeling the depression to a very large extent, and prices generally have tumbled low. Thursday next, the 10th inst., will see a public reserve on the premises at Union Hill, N. Y. the stock belonging to J. Thumman. This greenhous is one of the oldest established florists now in or near the city; his stock is in excellent condition and comprises a quantity of large specimen palms, also a great quantity of smaller commercial sizes.

#### Justices.

Julius Roehrs, Carlton Hill, has been appointed Justice of the Peace for two years, but is now convalescing.

#### Fire Insurance.

The Fire Insurance committee, consisting of Messrs. E. H. Michel, J. G. Esler, M. A. Patten, and W. J. C. Smith, held a meeting on Monday last at the Hotel, this city, this week. The committee formulated a policy and drew up other documents which will be presented to the policyholders which will be furnished in our next issue.

G. Friedman, brother of A. Friedman, Woodlawn, N. Y., died on Friday last of cancer of the stomach. He was a well-known foreman for his brother ever since the latter bought the Weinman business at the above place; previous to that he served for some years in the store of Henry Dutler, Ironsides. He was 28 years of age, and unmarried.

The horticultural exhibition at Madison Square Garden will be continued the whole of next week, on Monday, Tuesday, Wednesday, and Thursday, and on the same days, carnations, etc. The American Institute offers its medal of superiority to the exhibitors of the best table plants of orchids and small decorative plants combined.

#### Visitors.

W. G. Harris and R. Craig, Philadelphia, Pa., and W. G. Harris, D. C.; W. F. Gale, Springfield, Mass.

Market News.

The market continues about as last report, all kinds of flowers are very plentiful...

Chrysanthemums are becoming very plentiful and varieties more numerous...

Valley has been in good demand for wedding orders, extra per 100 is the general price...

The over supply of flowers makes the prices for carnations very low...

The meeting on Tuesday last was fairly well attended. The principal business was held in the exhibit...

The weather continues very warm and dry at this time of the year...

Trade has been quiet the past two weeks and will be until there is a change...

St. Paul.

Cool Weather Stimulates Business. With the advent of cooler weather...

Shipping trade is excellent. The improved condition of affairs in the market...

Carnations are of unusual good quality. Several new varieties have been introduced...

Reference was made last week to the new quarters of L. L. May & Co., on Broadway...

Business Cards. The warm, dry weather of late has had a depressing effect upon trade...

Decorative Plants. The floral establishment of Whittle Bros. on North Pearl street has been flourishing...

Cleveland.

The warm, dry weather of late has had a depressing effect upon trade...

Decorative Plants. The floral establishment of Whittle Bros. on North Pearl street has been flourishing...

Decorative Plants. The floral establishment of Whittle Bros. on North Pearl street has been flourishing...

simply enormous, such vigor I have seldom seen...

Albany, N. Y.

The floral establishment of Whittle Bros. on North Pearl street has been flourishing...

Two new greenhouses have been built this year, one for American Beauty roses and one for palms.

Index to Advertisers.

Table listing various businesses and their locations, including Ageratum, Aquaria Supplies, Appurages, Balsam, Bogainvillea, Bulbs and Roots, Cacti, Carnations, Cast Iron, Cereals, Christmas Trees, and more.

Table listing various businesses and their locations, including Florists, Fruit Plants, Greenhouses, and more.

BEGONIAS!

Theropsis, extra fine 35c each... 75c 100
Theropsis, extra fine 35c each... 75c 100
Ophio, extra fine 35c each... 75c 100
...
A. J. BALDWIN, Newark, Ohio.

BARGAIN. FIELD-GROWN SMILAX
FAROUHAR VIOLETS, 2 1/2 inch pots, strong plants, \$2.50 per 100. Cash with order.
RONEY BROS., Florists, West Grove, Pa.
When Writing Mention Florists' Exchange

Hydrangea Pan. Grandiflora

Finest of all hydrangea shrubs, 1 1/2 feet up, fine
hydrangea plants, at 5c. Lighter plants, nicely
branched, at 3c.

CLEMATIS TIGONIANA. - American
White, sweet scented, fine 2 year plants at
5c. Packing free.

W. H. SALTER, ROCHESTER, N. Y.
When Writing Mention Florists' Exchange.

300

ASPARAGUS PLOMOSUS NANUS

FOR SALE. - From \$4.00 per 100. Nice
plants ready to shift, at \$3.00 per 100. Cash
with price. Address:

P. O. Box 527, Greenwich, Conn.
When Writing Mention Florists' Exchange

SMILAX, as good as 4 in. pot plants, field-grown,
\$2.25 per 100; from 2 1/2 pots, \$1.25 per 100;
from 2 inch pots, \$1.00 per 100.
...
C. H. DANN & SON, Westfield, N. Y.
When Writing Mention Florists' Exchange

LOOK HERE

The following plants are in A1 condition.
Anemone Platensis, large, true climbing
variety, 2 1/2 inch pots, 10c; 2 1/2 inch pots,
15c; 2 1/2 inch pots, 20c; 2 1/2 inch pots, 25c;
...
C. MERKEL & SON, Mentor, Ohio.
When Writing Mention Florists' Exchange

SMILAX! SMILAX!

Extra 2 1/2, \$1.50 per 100; \$1.00 per 100;
\$0.75 per 100.

C. MERKEL & SON, Mentor, Ohio.
When Writing Mention Florists' Exchange

SMILAX! SMILAX!

Extra 2 1/2, \$1.50 per 100; \$1.00 per 100;
\$0.75 per 100.

BETSCHER BROS., Canal Dover, Ohio.
When Writing Mention Florists' Exchange

ASPARAGUS PLOMOSUS NANUS

(True) transplanted seedling plants, now
ready, \$3.00 per 100; \$2.50 per 100;
\$2.00 per 100.

R. ASMUS, - NEW DURHAM, N. J.
When Writing Mention Florists' Exchange

SNOW CREST DAISY

All in bud and bloom, out of
2 1/2 inch pots, fine plants, at
\$2.50 per 100; 500 for \$10.00.

HENRY NEEKER, Georgetown, N. Y.
When Writing Mention Florists' Exchange

5.00 BELLS

(DAISY) PLANTS.
Red, white and pink, 5c. per 100; \$1.50 per 100;
\$1.00 per 100.

ELDRIDGE & CO., - Wilkes Barre, Pa.
When Writing Mention Florists' Exchange

Rooted Cuttings of the New Geranium Mm. BRUANT Ready Now.

I am able to procure the wonderful and distinct
variety now by the hundred and thousand, no
other variety being so good. It is the best plant
...
FRED. SCHNEIDER, 751 Crawford Rd., Cleveland, D.
When Writing Mention Florists' Exchange

NEPHROSPERMS EXALATA BOSTONIENSIS

THE BOSTON FERN. The best house
plant yet introduced. 10,000 fine plants from
New York ready for shipment. 7 1/2 inch pots,
\$4.00 per doz. 6 in. pots, \$3.00 per doz.
...
E. G. GILLET.

plum cut introduced, 10,000 fine plants from
New York ready for shipment. 7 1/2 inch pots,
\$4.00 per doz. 6 in. pots, \$3.00 per doz.
...
E. G. GILLET.

SPECIMEN PLANTS. ALL IN FIN - SHAPE

L. H. FOSTER, 45 King St., Dorchester, Mass.
When Writing Mention Florists' Exchange

Cincinnati.

Market News.
We weather came on us again during the week, and trade simply
stopped. For four days roses poured in,
...
Carpations are improving in quality, and
the best grade letel, \$1 per 100,
wholesale. Chrysanthemums are selling
at 12c to 15c, for select; ordinary 8c to
10c. Grandiflora, yellow, in good supply,
...
C. C. Murphy met with an accident
while on his way home after market Satur-
day evening. He was thrown from his
whegon, sustaining many bruises; but,
I believe, no broken bones.

STRAWBERRY PLANTS

Brandy wine
1000 New York ready for shipment. 7 1/2 inch
pots, \$3.00 per 100; \$2.50 per 100;
...
E. C. HARCADINE, - Felton, Del.
When Writing Mention Florists' Exchange

LETTUCE PLANTS

Fine transplanted, true, Grand Rapids Lettuce
Plants, 30c per 100; \$2.50 per 1000. Cash with order.
...
A. J. BALDWIN, Newark, O.
When Writing Mention Florists' Exchange

AMPELOPSIS VITICHLI.

Large size plants, from 4 and 4 1/2
in. pots, \$5.00 per 100; \$70.00 per
1000; \$50 at 1000 rate.

S. PENNORF, Oak St., New Rochelle, N. Y.
When Writing Mention Florists' Exchange

JACKSON & PERKINS CO.

NEWARK, NEW YORK.
Have to offer for season of 1897-98 a choice
assortment of field-grown Roses, new and
...
WRITE FOR PRICE LIST.
When Writing Mention Florists' Exchange

POT-GROWN SEEDLINGS.

\$4.00 per 100.

J. KADLETZ, P. O. Box Dongan Hills, N. Y.
When Writing Mention Florists' Exchange

PEACH AND PLUM TREES

FOR FALL
DELIVERY 1897.
Reliable and clean stock at low wholesale rates.
All trees from the best fruiting stock, and
...
ALEXANDER PULLEN, Milford Nurseries, Milford, Del.
When Writing Mention Florists' Exchange

LETUCE PLANTS.

Big Bunch, Boston Market, Tennis Ball,
White Lettuce, Boston and Rochester.
...
R. VINCENT JR. & SON, White Marsh, Md.
When Writing Mention Florists' Exchange

GIANT DOUBLE ALYSSUM

from 2 1/2 pots, \$2.00 per 100.
Cash with order.

R. VINCENT JR. & SON, White Marsh, Md.
When Writing Mention Florists' Exchange

100.00 PEACH TREES

All Leading Varieties.
8,000 Plum trees, 1,000 Apricots,
...
G. L. LONGSDORF, OAK HILL NURSERY,
...
When Writing Mention Florists' Exchange

FEED-GROWN

VINCA MAJOR VARIETAS. \$5.00 per 100;
\$4.00 per 1000.
...
LOUIS C. PILAT,
Seedman and Florist, 205 KING, N. Y.
When Writing Mention Florists' Exchange

Bargains in Geraniums

Stems from open air und. 6 cts. each, fancy and
standard varieties, true, make lots of cuttings. By
order only.

JOHN H. RICHARDSON & SONS,
Genesee Hill Greenhouses, BEAVER FALLS, Pa.
When Writing Mention Florists' Exchange

2 cts. CINERARIAS, 2 cts.

We have a large stock of the choicest strain of
Dwarf and Large Flowering
Cinerarias, which we put at this
...
WHITTON & SONS, City and Grove Sts., Erie, N. Y.
When Writing Mention Florists' Exchange

WHITTON & SONS, City and Grove Sts., Erie, N. Y.

When Writing Mention Florists' Exchange

WHITTON & SONS, City and Grove Sts., Erie, N. Y.

When Writing Mention Florists' Exchange

WHITTON & SONS, City and Grove Sts., Erie, N. Y.

When Writing Mention Florists' Exchange

WHITTON & SONS, City and Grove Sts., Erie, N. Y.

When Writing Mention Florists' Exchange

WHITTON & SONS, City and Grove Sts., Erie, N. Y.

When Writing Mention Florists' Exchange

WHITTON & SONS, City and Grove Sts., Erie, N. Y.

When Writing Mention Florists' Exchange

WHITTON & SONS, City and Grove Sts., Erie, N. Y.

When Writing Mention Florists' Exchange

WHITTON & SONS, City and Grove Sts., Erie, N. Y.

When Writing Mention Florists' Exchange

WHITTON & SONS, City and Grove Sts., Erie, N. Y.

When Writing Mention Florists' Exchange

WHITTON & SONS, City and Grove Sts., Erie, N. Y.

When Writing Mention Florists' Exchange

WHITTON & SONS, City and Grove Sts., Erie, N. Y.

When Writing Mention Florists' Exchange



## SITUATIONS WANTED.

Wanted, 10 cents per line (8 words), each insertion, cash with order. References to attention wanted in advertisements and when not enclosed direct reply will be made on one and no return to cover expense for printing. For particulars apply to Editor, W. J. Care Florists' Exchange.

SITUATION WANTED: by young man, age 25, in a general floral place; has had several years' experience in business and retail florists. Address, W. J. Care Florists' Exchange.

WANTED, a position as a general greenhouse manager, also retail florist. James P. Burt, 1016 Madison, Newark, N. J.

SITUATION WANTED, by single man, as foreman or assistant in commercial plant; good experience in all branches. For further references from interested florists in Europe and America, address A. J. Care Florists' Exchange.

SITUATION WANTED: young man, German, to take care of greenhouse, roses, carnations and foliage plants. Address, 1016 Madison, Newark, N. J.

YOUNG man, age 26, married, wants a position as florist in commercial or private place; theoretical and practical knowledge of ornamentals and roses. Address, 1016 Madison, Newark, N. J.

## HELP WANTED.

## WANTED.

Resident traveler in Western territory familiar with the Plant, Bulb and Seed Trade. State particulars, experience and references.

HENRY A. DREER,

Lock Box 1018, Philadelphia, Pa.

## MISCELLANEOUS WANTS

## WANTED.

TO BUY FOR CASH, a florist's establishment in good repair, with an acre of New York City; containing from six to ten thousand feet of stock, including all the popular varieties for rose, carnation and violet culture; submit only your best figures, to:

E. Reed, 801 W. Geesey St., Syracuse, N. Y.

## BUSINESS OPPORTUNITIES

## FOR SALE.

A few shares of stock in this Company are offered for sale by parties in need of ready money. For particulars, apply to:

A. T. DE LA MARE, Pres't,  
P. O. Box 1057, New York.

## FOR SALE.

Half-interest in a greenhouse plant with rose about \$6000; a fine carnation and spray carnation Ohio; post office; two mails a day; W. R. station close by. My partner as a salesman and manager has no capital. As I am old and have three other properties to look after, confined to my family, I desire justice to all will sell for \$25.00. Address

D. M. KISSELL, Beatty, Ohio.

## FOR SALE.

Greenhouses, in one of the best cities in Wisconsin. A good investment and a money maker for a hostler. Owner no return on account of poor location. For particulars, write

ELLIS & FOLLWORTH,  
MILWAUKEE, Wis.

## FOR SALE—SECOND HAND.

## BOILERS FOR SALE!

Two No. 3, Style C, GURNEY HOT WATER DOUBLE CROWN BOILERS, complete. In use five seasons. For heating 30,000 square feet of glass for plants growing. Offering for reason best known are increasing our capacity. These boilers cost \$150.00 each. We offer for sale each, 1.0, one No. 2, 2.5, and one Locomotive Boiler, 11 ft., 3 in. fire box, 3 ft., 9 in., by 2 ft., 3 in., with 28 3 in. tubes, 6 ft., 9 in. long, has been used for steam at 30 lbs. pressure. Will sell for \$50.00. In its good order and ready for service at once.

HENRY A. DREER, 111 Chestnut Phila. Pa.

When answering an Advertisement kindly state the number of your ad.

## THE FLORISTS' EXCHANGE.

This periodical requires no payment for the future. It is printed and compiled with the view of making this paper useful to you and to secure the satisfaction of knowing where to send your orders.

## Chicago.

The recent hot weather has had its effect on the output of roses; there has been little or no marketing, excepting them from open-air. Trade also slackened as a result, and prices are not quite so firm, with inclination to dispose of surplus at reduced rates. American Beauty and President Carnot are the best selling varieties. The average price of blooms of the latter reached 85 per 100 while 84 is as high as other varieties will bring. The output of four stock is in the market some of which is mildewed; this goes at \$1 or \$2 per 100. Carnations from the States in some places are still arriving. Mrs. Fisher is very good. Inside stock is now coming in more freely. A few varieties add at \$2, but \$1.25 to \$1.50 was the general price down to 75c. per 100.

Very few flowers are already abundant the varieties including Mrs. Robinson, Yellow, William, Mrs. Kate Washburn, Lacey Queen, Glory of the Gothic, Miss Johnson, etc., and prices are dropping. Very few flowers go above \$2 per dozen, with a feeling to sell at any price. A considerable quantity has been sent in before they were really ready, which has helped to glut the market with goods. So far but little Southern-grown stock has been received, and prices are expected that prices obtained for home-grown will be low enough to cut off the former from a profitable business.

P. M. Broadbeck is sending in some good California violets that sell at \$1. The double variety of the Pacific is very good. W. E. Lynch has bouvardias in, selling at 25c. a bunch.

## Club Meeting.

At the Florists' Club meeting on Thursday, a considerable business was manifested. Messrs. Sanders, Johnson, and Reeve were appointed a committee to prepare a budget for the next year for the entire winter. The program will shortly be published, so that members may know of it and prepare themselves accordingly.

The question of fire insurance was discussed, and the members voted not to take kindly to the mutual plan as outlined by the S. A. F. The discussion finally came to a close, and was appointed to make a thorough investigation of the subject, and see if something could not be done to secure lower rates for greenhouse risks.

The president was requested to appoint a committee of three to receive the report of the reception of the American Carnation Society in February next. Amateurs were present, providing that in return the membership fee of \$2, should also pay the first six months dues, and those members who have been dropped for non-payment of dues, be returned on the same terms. The members will be acted upon at the next meeting, at which the annual election of officers will take place. Mr. George Stollery will read a paper at that meeting on Chrysantheums.

Mr. J. H. Stollery exhibited his new light bronze chrysantheum named Mrs. Arthur Cant. The color is a pleasing light bronze, and is ready to show an early bloom, it being ready on the 8th. Stem and foliage are all that can be wished.

Stollery Bros. had a vase of 500 of their new carnation Argyle, a variety which proved to be a beauty. Argyle is a bright pink. No seedlings were sent to the committee of this city on last Tuesday.

## Chrysantheums Under Covers.

H. O. Smith, Oak Park, has a space 4x78 planted to chrysantheums with a few plants in the open air under glass. An insect pest is running around in case of early severe frost. The plants are in canvas October 1. It was an experiment which with early varieties which are recommended by the Society. Mrs. E. G. Hill are good and nearly ready to cut. Other varieties, all short-cut, are ready to cut. Being well foliaged. To be a success the plants should be good ones when set out, and should be properly cared for. Being placed over them at latest on the first of September.

EDGAR SANDERS,  
Lockport, N. Y.

Thomas Mansfield is very sanguine for the future. He has a fine stock of plants active during the Summer. He is wishing planting a well-grown stock.

W. M.

## Pittsburgh.

## Trade Actrs.

Great activity was noticeable in the florists' Trade the past week, due to a number of special orders. Among the most notable was the marriage of one of Pittsburgh's belles to a son of Senator W. C. Foster, of the Post Office, in the United States. Randolph & McLennan had charge of the decorations, which were very effective.

Stock is now in good shape and equal to the increased demand. Among the numbers are coming in much better, also more variety, but prices realized for some are not so good. The market is now bringing about \$2.50. Outdoor stock is still in evidence, but the frost a few days ago has crippled it.

At the last regular meeting of the Florists' Club the holding of a flower show this fall was discussed. Much of talk was indulged in for and against the scheme. The majority seemed to favor it and it was decided to appoint a committee consisting of Messrs. E. C. Ludwig, F. Burki and T. F. Langdon, who will meet at the next meeting. It is the intention of the florists to give the show for the benefit of the increased demand. Many of the florists in that case the most prominent people would take an interest in it, thereby giving a larger number of florists who were approached and seemed very anxious to go ahead, and it looks as if a good show is assured.

A letter addressed to the writer from W. J. Veasey, of Fort Wayne, Ind., regarding the fact that the Fort Wayne Co., was read and the matter well discussed, with the prospects of several of our growers going and it was decided not very many of the large growers were present, the matter is being taken up again at the next meeting. Insurances for greenhouse structures are high with the Fort Wayne florists, and they carry no insurance at all, but with a low rate they no doubt would be willing to do so.

For the next meeting night C. Kleger was asked to give an essay on something of the kind, and was asked to give it in wire for florists use. Mr. Rieser is a skilled mechanic and has given the florists a fine number of ornate planters, artistic designs and decorations.

E. C. REINEMANN,  
Fort Wayne, Ind.

Owing to the difficulty in securing special premiums, and the probability on this account that our Society would be unable to give out premiums, the Fort Wayne flower show, to have been held November 3, 4, and 5, by the Fort Wayne Horticultural Society, has been abandoned.

J. NO. L. HANNA, Secretary.

## London, Ont.

J. Gammage & Sons find Kaiserin Augusta Victoria a good rose for winter use. It is a very good variety. Beauty is not appreciated, so will be discarded. Wootton does well and fills the market. It was a great success. Beauty is not appreciated, so will be discarded. Wootton does well and fills the market. It was a great success. Beauty is not appreciated, so will be discarded. Wootton does well and fills the market. It was a great success.

Brampton, Ont.

A splendid lot of carnations is being planted by Harry Dale. Notwithstanding the drought the growth is prodigious and the plants are doing very well. The growers. Violets have been in good health; in fact, there is but little disease in either (particularly the roses) in this section. The plants in store is a beauty, the fruit is 25x5.0 feet, facing on two main thoroughfares. It is kept well covered by the curtains, especially when lighted up. W. M.

houses of cuttings, newly imported, are doing good, but how is it these plants get the least attention and bring the most money? I noticed this

At the recent cricket match what might have been a serious accident was happily averted. The ball struck the batsman on the opposite side and not on the program. The ball struck the batsman on the opposite side and not on the program. The ball struck the batsman on the opposite side and not on the program.

Owing to a bronchial trouble, the flower of the family has left in company with the family. The family has left in company with the family. The family has left in company with the family.

W. M.

## Toronto.

John H. Dunlop undertook a big task to lower every bench in his extensive establishment. This was successfully accomplished by the following: That nothing was disturbed during the change. That the plants appreciate this move is evident by the luxuriant growths and the fine texture of the foliage. Mme. Hoste has that deep rich metallic lustre so seldom seen upon its foliage, and here are being cut; Sunset also, the Golden Gate and Carnot have a few house devoted to them. Beauty has that leathery foliage so essential to perfect this variety. Wootton and Mrs. Whitney, with the White Bonnets, are also here. The latter being indispensable for design work. This highly prolific, Niphetos are planted on side benches. Heavy crops of Brite, Bridehead, and Veré are being cut; Sunset also, the Golden Gate and Carnot have a few house devoted to them. Beauty has that leathery foliage so essential to perfect this variety. Wootton and Mrs. Whitney, with the White Bonnets, are also here.

Decorations the popular Ontario with Flora III are the chief wares. Nearly all stock is planted and has come into the market in fine condition. A part only of one house is devoted to chrysantheums this season. A north house is being cut. The house has just been completed; it is at present filled with Adiantum cuneatum in pots and ferns.

Quite a number of Cattleya labiate are in flower. A few blooms are ready and have been carried over to a design. Violets have all risen early in the house and are away ahead of this season of outdoor demand, and is very sanguine regarding the outlook for the future. Charles J. Tidy, of the firm of S. Tidy & Son endorses these sentiments; in fact, there are many who are sanguine regarding the outlook for the future. Charles J. Tidy, of the firm of S. Tidy & Son endorses these sentiments; in fact, there are many who are sanguine regarding the outlook for the future.

The usual splendid display of dahlias is usually undertaken by the florists. It is somewhat affected at the exposition where Flora was very well represented by a number of fine specimens. It is usually keen and brought out the best efforts of the craft. Great Scott of Dunfermline was a great success. It is in a highly satisfactory manner, giving a plan here and there with much tact. He is not well covered by the curtains, especially when lighted up. W. M.

Frank Dunlop has recently purchased a big lot of plants and upon which he may build, at a not very distant date, a range of houses.

Miller & Son are enthusiasts upon seedling carnations; they have several of applicants, but they are better this season than hitherto. Are not these new kinds coming in? It is a very good thing. I must not omit an item which should afford great satisfaction to the raiser of carnations. The new variety, Mrs. M. Dunlop took first prize against eleven competitors who had the best imported stock. It is a very good thing. It is a very good thing. It is a very good thing.

Miller & Son are enthusiasts upon seedling carnations; they have several of applicants, but they are better this season than hitherto. Are not these new kinds coming in? It is a very good thing. I must not omit an item which should afford great satisfaction to the raiser of carnations. The new variety, Mrs. M. Dunlop took first prize against eleven competitors who had the best imported stock. It is a very good thing. It is a very good thing. It is a very good thing.

W. M.

**Providence.**  
**The Market.**—The business shows a slight improvement, although the supply far exceeds the demand. There is a good quantity coming in better, both in quantity and quality than a week ago, and are bringing from \$2 to \$2.25 per 100. There is an increasing demand for small chrysanthemums that began to make itself felt last week. The growers have responded pretty well to that need and it, and but for the slight increase in price, there is a certain faction, most people would rather buy three flowers for 17 cents than one for \$2.50. There is no bloom, even though that bloom be an extra large one.

**Horticultural Society.**—The annual September exhibition of the Rhode Island Horticultural Society was held last week, and was essentially one of a success. The committee considered the exhibition this year the largest ever held in September.

The exhibitors were the following: Carnations, D. D. Waterman, N. D. Pierce, Jr.; orchids and cacti, Edgar Rock; dahlias, J. E. Boardman, Frank L. Gay, Sam W. Lewis; asters, William H. Tarbox, J. E. Boardman, Frank L. Gay, Sam W. Lewis; roses, William Hill, Fairbrother; Begonias, Frank Gay; tuberoses, Fairbrother & Wood, Frank L. Gay.

**Club Notes.**—Alec K. Rennie, treasurer of the Florists' and Gardeners' Club of Rhode Island, was elected to that office. On the 12th inst. he had an operation performed for an abscess in the stomach, and will be some time before he will be able to go out and about. Mr. Rennie is one of the most popular young men in Providence, and he has the best wishes of numerous friends for his speedy recovery.

A monthly meeting of the Club will be held next Friday evening.

**Bound and Aboard.**—A Sullivan's wife presented him with a bouquet, and here he past week. Con is correspondingly happy and is passing around the bouquets. E. Parker, of Attleboro, is cutting several hundred fine violets every day for this market.

Martin Renkau, of R. Bayersdorfer & Co., Philadelphia, was in town the past week cutting flowers in oak.

Fairbrother & Wood are renovating their Westminster street store and returning with flowers in oak.

Another wave of indignation is sweeping over the trade in this vicinity at the wholesale bulk sale of a department store at cut prices.

The City Council has passed a resolution appropriating \$10,000 for furnishing the new Casino building at Roger Williams Park.

George M. Parker has removed his retail store from 38 Dorrance street to 272 Westminster street.

George M. Parker is making some extensive alterations and improvements to his greenhouse at Olneyville. He furnished the plants for the big K. P. E. gathering in that town last week.

Twenty-six thousand dollars has been appropriated for the completion of improvements at Davis Park.

Thomas K. Parker is building a greenhouse, 14x16feet, at 209 Lipsett street.

John Williams has constructed a new greenhouse, 150x20feet, which is equipped with a 60 horse-power Whittien boiler, and will be ready for the chrysanthemums and later will be devoted to Easter stock.

George Macrae has just finished and planted a new carnation house, 125x30 feet, which is one of the best built houses in the city.

J. F. Parks & Co. will open their down-street store about the second week in October, and are recently built a new house, 100x20feet, re-covered two of the old houses and are re-equipping their outfit with the latest steam heating apparatus.

**Albany, N. Y.**  
 Whittle Bros. are ahead this season on chrysanthemums—fewer kinds, very well grown. John Dingwell pays close attention to carnations; Scott and Metcalf run his business very well. There is very little notice an absence of rust; 'tis a little early perhaps for developments.

**Willimansport, Pa.**  
 The stock of chrysanthemum in five and six-inch pots is larger than usual this season with Evenden Bros. who find them the most profitable sales for both market and store sales. A few of the earlier kinds are grown on benches. All kinds of six-inch plants are now nearly all planted. The large house erected this season has given entire satisfaction with four days at either end, bricked walls, 16feet to ridge, apricots and parlin D. 14 inch piping; ridge and front built up with four days at either end; nine benches, including a narrow front bench. The whole plant is painted with chrysanthemum, especially Mrs. Bergman. He may exhibit this season, in which one many contestants will have to compete. The firm is J. G. Bergman & Co. have a pretty lot of plants for retail trade. Ira G. Marvin grows the bulk of the chrysanthemum for a larger supply than usual, but expects to dispose of the whole at fair prices.

**Wilkesbarre, Pa.**  
 George Finnoter will have some very early chrysanthemums, especially Mrs. Bergman. He may exhibit this season, in which one many contestants will have to compete. The firm is J. G. Bergman & Co. have a pretty lot of plants for retail trade. Ira G. Marvin grows the bulk of the chrysanthemum for a larger supply than usual, but expects to dispose of the whole at fair prices.

**Rome, N. Y.**  
 We are having a fine fall for finishing up outside work; have not had a killing frost yet. Business is quiet here. Thomas Hughes has got the Morris R. Jones greenhouses neatly planted, and expects to do well this season. William C. Jones will confine himself to violets this year. He has nice plants. W. H. Orndorff also has his houses well stocked. J. E. Byam is putting a coil of pipe in to help out his heat.

**Kansas City, Mo.**  
 R. S. Brown & Son report a good outlook for this season. They have a larger number than usual of chrysanthemums in four and five-inch pots. These are better than the market.

Probst Floral Co. are heavy in chrysanthemums. In addition to a house of 400 plants they have a fine lot of five and six-inch pots for store trade. Just at present they are cutting up a few of the plants with Meteor on side benches, is in first-class shape. Carnations are good; three hundred each. Roses are well added. Adiantum Farleyense is well grown and largely used in design work. Mr. Murray will do work on a piece 14 feet in height by 14 1/2 feet wide. The base was filled with Adiantum Farleyense, clematis, and crotons, with a few Cutleya labiate stuck here and there; the rest of the work done in clematis on a raised standing end done in Meteor and Bride roses. Between the two words were placed a few of the best roses. The roses for the hands and pink carnations for the fingers. It was a splendid piece of work, and well worth the figure charged—\$25.

Arthur Newell does not grow much chrysanthemum, but is one of the best artists in the city. His forte is basket work; he draws upon Chicago for his plants.

The chrysanthemum show will be held in the armory as heretofore. Mr. Ripley will be in charge. It will be the appearance of the plants there will be a first-class display, with several new attractions, a number of western cuttings.

**Muncie, Ind.**  
 B. F. Wilson will issue a serial catalogue next season and do a general retail seed business.

The Muncie Floral Co. held their annual sale of cuttings of western cuttings.

George Miller has greatly improved his place last summer by general repairs, painting, etc.

**Richmond, Ind.**  
 E. G. Hill & Co. are paying close attention to several seedling chrysanthemums of their own. They have several white shows will be ready for the chrysanthemums and later will be devoted to Easter stock. It was a splendid piece of work, and well worth the figure charged—\$25.

Harvester. Also many others. The entire collection of the celebrated English raiser, Mr. G. Hill, is a very valuable variety of sufficient merit; also pumpions. Mr. Hill is of the opinion this interesting class will not be so popular as in the first cut was earlier this year than usual, a bunch of Lady Fitzgram being cleared and carried to the market. The plants of Bergman were flowered outside on canvas, owing to the favorable season. It was a very successful one.

The stock under glass is fully up to the usual standard. Several good plants were grown under glass all summer and are very thrifty and clean; in fact, the whole of this stock is in excellent condition. Mr. Hill of the advantage of carrying the plants up under glass, and that the best of the most promising of the extensive family of seedlings and worthy of especial mention is Miss Whitcomb, a most lovely pink of exquisite shade and fragrance. Flora Hill is proving itself worthy of the prize bestowed upon it. I notice elsewhere that this variety is very satisfactory.

Roses are being grown as extensively as formerly. Mr. Hill is crossing several good varieties, and will doubtless obtain fine results worth the time and trouble bestowed.

Considerable stock for catalogue trade is in excellent condition.

**Detroit, Mich.**

Evidently good times have struck the craft at Woodmead, judging by outward signs. The bank & Son recently built a handsome show house running the length of the establishment and the street. One stock finishing a dandy conservatory on the opposite side; the front is of large cobble stones and forms a series of steps in place of the old hexagonal shaped, and lofty, resting upon the stone walls some ten feet from the ground. A railing of iron work surrounds and completes this elegant and attractive house.

Charles Waznek intends to follow suit, building a new show house of the same kind. Being close to the cemetery, hosts of visitors are constantly dropping in and appreciating the improvements.

Robert Flowerday is changing several houses; in fact, the whole crowd seem to be on change.

George Leadley is finishing his store in white enamel and silver, with a ceiling of bottles and a very pretty array.

Philip Breitweiser has both mail and branch stores prepared and is making a fine display of roses in quantity this season.

Andrew Ferguson is cutting some excellent roses, the best of the Mohicans; the frost having cut down all outside stock, which will replace the hearts of many.

**Toledo, O.**

George A. Heint recently removed his plant some three miles farther out on Cherry street, and is doing a very fine one-house, built and arranged most complete. They are well supplied with an excellent stock of roses for a very long time. He has lately taken a capital store down on the west side of the location, and added a greenhouse at rear.

Mrs. Suder returned from the convention in Cleveland, and reports she is a busy lady and intends to keep in the front with good stock to please her local patronage.

**Columbus, O.**

Albert Knapp, of the Franklin Park Floral Co., reports the season as very profitable and the outlook cheering.

Underwood Bros. have a fine stock and anticipate a good season.

Mr. Underwood has had a fine plant department to their seed business; it is under the able management of Mr. Underwood, and consists of a transient trade can be done.

Mr. Evans & Son have a pretty lot of chrysanthemums of their own in the market. A medium-sized plant, at a corresponding price, takes.

**Dayton, O.**

H. H. Ritter has been kept busy with funeral flowers and decorations ever since his return from the convention, to which place he was accompanied by his father, who held the position of president of the show, but who takes a most active interest in anything pertaining to the business. He is a most reliable party in the Omaha trip, even if he "goes it alone," which is hardly likely.

**THE EXPERIMENTATIONS.**

The Soy Bean as a Fodder Crop—By Thomas A. Williams, assistant agronomist, under the direction of Professor Lemon-Schwartz, with an account of the Soy Bean as Food for Man, by Dr. C. F. Langworthy, and a report on the Soy Bean as a Fodder Crop, by John S. Beas, Department of Agriculture, U. S. Department of Agriculture. The bulletin states that "since soy beans contain no starch, they are not so palatable as other crops and suffer from indigestion. A soy bean feed is not as palatable as other crops and suffer from indigestion. It is also said that Japanese products take the place of a new substitute for coffee, and will sell under other names at an exorbitant price. Bulletin No. 93 of the North Carolina Experiment Station recommends soy beans as a palatable vegetable when prepared as follows: Boil the beans until the skins come off, and stir in water until the skins rise to the surface and then remove them. Boil the beans with bacon until soft, season with pepper, salt and butter, and serve hot. If the beans are green the preliminary soaking may be omitted. No other references to the use of soy beans for animal food in the United States have been found."

Method of Curing Tobacco.—By Milton Williams, Esq., Chief of Division of Soil, Farmer's Bulletin No. 69, Department of Agriculture, Washington.

THE SAN JOSE SCALE IN OHIO.—By Professor J. M. Venator, Bulletin No. 11, Ohio Experiment Station, Columbus. This bulletin gives very full information regarding the propagation and control of this pest. It also gives its eradication; also furnishes illustrations as aids to its identification.

**CALIFORNIA VIOLETS.**

Strong, healthy, field-grown plants, easy to give satisfaction; will close them at \$5.00 per 100 \$2.00 per 100. Cash with order.

**E. C. GODFREY, No. Norwalk, Conn.**

When Writing Mention Florists' Exchange

**A GREAT OPPORTUNITY!**  
 Having completed the raising of my chrysanthemums, I find there is a large supply of plants in the large store. These are the field-grown plants, easy to give satisfaction. They will close them at \$2.00 per 100; \$3.00 per 100. Cash with order.

**FRED'K A. TAYLOR, - - Canastota, N. Y.**

When Writing Mention Florists' Exchange

**FIELD-GROWN VIOLETS.**

Field-grown, large, entirely free from disease \$5.00 per 100; \$3.00 per 100; No. 2, \$1.50 per 100.

**SMILAX** \$1.25 per 100; \$1.00 per 1000. Cash with order. Free catalogue, 10 Cts.

Write for price on large orders.

**R. KILBURN, - Clinton, N. York.**

When Writing Mention Florists' Exchange

**WELLES**

**TO CLOSE OUT.**

We Offer Large, Field-Grown Clumps. Luscious, \$4.00 per 100; \$3.00 per 1000. Cash with order. Free catalogue, 10 Cts.

**J. C. SCHMIDT, - - BRISTOL, Pa.**

When Writing Mention Florists' Exchange

**Large Flowering Strain.**

**50 cts. per 100, prepaid.**

**\$2.50 for 1000.**

**'WELLES' Stock Plants.**

**MERRY MONARCH, MONTMART,**

**and others at \$5.00 per 100.**

**Cash with order.**

**BYER BROS., - Chambersburg, Pa.**

When Writing Mention Florists' Exchange

JOHN GONLEY & SON,

MANUFACTURERS OF

TIN FOL

2 and 4 Dominick Street, NEW YORK.

AUGUST RÖLKER & SONS, ... SUNDRIES FOR FLORISTS AND HORTICULTURISTS.

When Writing Mention Florists' Exchange DEATH TO THE INSECTS HARMLESS TO THE PLANTS.

THE KENTUCKY EXTRACT CO.'S ... Extract of Tobacco which contains the highest percentage of nicotine...

THE KENTUCKY EXTRACT CO. Columbus, O. SOLE MANUFACTURERS.

Book of Directions sent upon Application.

Elixir.. Fertilizer. A pure natural product... KUIR FERTILIZER (THE LIFE OF PLANTS) Elmir Fertilizer Co., New York.

NO ADULTERATION. Referto: Fred. Dorer & Sons Co., La Fayette, N. Y. ... GEO. S. BARTLEY, SUCCESSOR TO

When Writing Mention Florists' Exchange

Standard Flower Pots.

Send for our New Price List with extra discounts. All our Pots, from 7 1/2" and upward, have our Patent Escalator Bottom, which is a great advantage, as it insures perfect drainage.

A FULL LINE OF BULB PANS.

THE WILLIAMS POTTERY CO., 715 to 719 Wharton Street, PHILADELPHIA

BRANCH HOUSES: Jackson Ave. and Pearson St., Long Island City, N. Y.

When Writing Mention Florists' Exchange

FLOWER POT

We are manufacturing a Full Line of STANDARD FLOWER POTS and HANGING BASKETS OF THE BEST QUALITY.

Shipping Facilities First-Class, thereby Securing Lowest Freight Rates.

Our goods are well packed, and brought to you in the best way.

Address THE SYRACUSE POTTERY CO., 403 N. CALINA ST., SYRACUSE, N. Y.

When Writing Mention Florists' Exchange

FIBRE--Every plant grown in it thrives without earth.

LIQUID--The best, safest and cheapest Fertilizer sold.

U. S. Patent and Trade Mark.

THE AMERICAN JADOO CO., 811 Fairmount Avenue, PHILADELPHIA, PA.

When Writing Mention Florists' Exchange

Address THE SYRACUSE POTTERY CO., 403 N. CALINA ST., SYRACUSE, N. Y.

When Writing Mention Florists' Exchange

When Writing Mention Florists' Exchange

PEAT and LEAF MOULD, extra large barrels \$1.00 each; 6 barrels \$5.00. HARDY FERRELS and SHRUBS.

WM. E. HARRISON & CO., Lehigh Springs, N. Y. When Writing Mention Florists' Exchange

MANURE

Fresh and well rotted horse manure. Manure for sale by wagon or by truck. For shipment by Penn. R. R. P. & H. B. R. Co. and Erie R. R. Co. Write for prices. 300 and 315 Filbert Street, Philadelphia, Pa. When Writing Mention Florists' Exchange

STANDARD POTS.

We are now ready to supply a superior quality of Pots in unlimited quantities. Catalogues and price lists furnished on application.

A. H. HEWS & CO., NORTH CAMBRIDGE, - MASS. When Writing Mention Florists' Exchange

SHEEP MANURE

Cleaned and prepared especially for florists' use. Will kill the gnat or gnawer. For reference see the advertisement in this issue.

Herman Rates will be taken in exchange. G. W. B. R. Co., 1012 Ontario St., PHILA., PA. When Writing Mention Florists' Exchange

THE BLOOMING NIKOTEEN DOES NOT INJURE SENSITIVE PLANTS... Price \$1.50. ALL SEEDSMEN.

When Writing Mention Florists' Exchange

THE BEST ROSE EXTRACT OF TOBACCO

FOR SALE BY Seed Stores. For Free Pamphlet, write to LORISTEVE SEARS TRENKLE & CO., Louisville, Ky

When Writing Mention Florists' Exchange

BONE FLOW NO ACID

Referto: Geo. S. Bartley & Sons Co., La Fayette, N. Y. ... GEO. S. BARTLEY, SUCCESSOR TO

When Writing Mention Florists' Exchange

Standard Flower Pots.

Send for our New Price List with extra discounts. All our Pots, from 7 1/2" and upward, have our Patent Escalator Bottom, which is a great advantage, as it insures perfect drainage.

A FULL LINE OF BULB PANS.

THE WILLIAMS POTTERY CO., 715 to 719 Wharton Street, PHILADELPHIA

BRANCH HOUSES: Jackson Ave. and Pearson St., Long Island City, N. Y.

When Writing Mention Florists' Exchange

FLOWER POT

We are manufacturing a Full Line of STANDARD FLOWER POTS and HANGING BASKETS OF THE BEST QUALITY.

Shipping Facilities First-Class, thereby Securing Lowest Freight Rates.

Our goods are well packed, and brought to you in the best way.

Address THE SYRACUSE POTTERY CO., 403 N. CALINA ST., SYRACUSE, N. Y.

When Writing Mention Florists' Exchange

FLOWER POT

We are manufacturing a Full Line of STANDARD FLOWER POTS and HANGING BASKETS OF THE BEST QUALITY.

Shipping Facilities First-Class, thereby Securing Lowest Freight Rates.

Our goods are well packed, and brought to you in the best way.

Address THE SYRACUSE POTTERY CO., 403 N. CALINA ST., SYRACUSE, N. Y.

When Writing Mention Florists' Exchange

FIBRE--Every plant grown in it thrives without earth.

LIQUID--The best, safest and cheapest Fertilizer sold.

U. S. Patent and Trade Mark.

THE AMERICAN JADOO CO., 811 Fairmount Avenue, PHILADELPHIA, PA.

When Writing Mention Florists' Exchange

When Writing Mention Florists' Exchange

When Writing Mention Florists' Exchange

When Writing Mention Florists' Exchange

When Writing Mention Florists' Exchange

When Writing Mention Florists' Exchange

When Writing Mention Florists' Exchange

Washington. Swalesonia Alba as a Bedder.

G. H. Brown, superintendent of the Propagating Gardens, made a happy hit when he planted out a batch of the Swalesonia Alba...

When he planted out a batch of the Swalesonia Alba at the Propagating Gardens, he was very successful. The plants used were then lifted from the greenhouse benches where they had been utilized during the Winter to cut from. After planting out, in a perfectly exposed situation, the plants were quite a stocky growth and flowered very profusely.

Col. Bingham, the superintendent of public buildings and grounds, is not only making enemies in the ranks of the florists but among the large portion of the residents as well. He has caused much indignation among the people because he has distributed flowers among them...

The California Nursery, at Niles, recently introduced the Mammoth Mammoth establishment will be an immense one.

The California Nursery, at Niles, recently introduced the Mammoth Mammoth establishment will be an immense one.

The California Nursery, at Niles, recently introduced the Mammoth Mammoth establishment will be an immense one.

The California Nursery, at Niles, recently introduced the Mammoth Mammoth establishment will be an immense one.

The California Nursery, at Niles, recently introduced the Mammoth Mammoth establishment will be an immense one.

The California Nursery, at Niles, recently introduced the Mammoth Mammoth establishment will be an immense one.

The California Nursery, at Niles, recently introduced the Mammoth Mammoth establishment will be an immense one.

The California Nursery, at Niles, recently introduced the Mammoth Mammoth establishment will be an immense one.

The California Nursery, at Niles, recently introduced the Mammoth Mammoth establishment will be an immense one.

The California Nursery, at Niles, recently introduced the Mammoth Mammoth establishment will be an immense one.

The California Nursery, at Niles, recently introduced the Mammoth Mammoth establishment will be an immense one.

The California Nursery, at Niles, recently introduced the Mammoth Mammoth establishment will be an immense one.

The California Nursery, at Niles, recently introduced the Mammoth Mammoth establishment will be an immense one.

The California Nursery, at Niles, recently introduced the Mammoth Mammoth establishment will be an immense one.

The California Nursery, at Niles, recently introduced the Mammoth Mammoth establishment will be an immense one.

The California Nursery, at Niles, recently introduced the Mammoth Mammoth establishment will be an immense one.

The California Nursery, at Niles, recently introduced the Mammoth Mammoth establishment will be an immense one.

The California Nursery, at Niles, recently introduced the Mammoth Mammoth establishment will be an immense one.

The California Nursery, at Niles, recently introduced the Mammoth Mammoth establishment will be an immense one.

The California Nursery, at Niles, recently introduced the Mammoth Mammoth establishment will be an immense one.

The California Nursery, at Niles, recently introduced the Mammoth Mammoth establishment will be an immense one.

The California Nursery, at Niles, recently introduced the Mammoth Mammoth establishment will be an immense one.

The California Nursery, at Niles, recently introduced the Mammoth Mammoth establishment will be an immense one.

# GREAT CLEARANCE SALE!

## OF PALMS, FICUS, FERNS, ETC.

AT THE GREENHOUSES OF

### JOHN THUMANN, 227 FULTON STREET, UNION HILL, N. J.

#### ON WEDNESDAY, OCTOBER 27, 1897, AT 11 A. M.

The list of plants to be offered will include many fine, large specimen plants and large quantities of good commercial size. ABSOLUTELY WITHOUT RESERVE  
All cars marked Union Hill, from Barclay, Christopher, 14th, and 42nd Street Ferries pass within one block of Greenhouses. Send for Catalogue.

### CLEARY & CO., Auctioneers, 60 Vesey St., New York.

When Writing Mention Florists' Exchange

**"JADOO"**  
FIBRE and LIQUID are used and endorsed by the leading growers. Try them and be convinced.

When Writing Mention Florists' Exchange

Thanks.  
Yellow Marguerite all sold that are needed  
Thanks to the Exchange. HENRY NEENER.  
Governor, N. Y., Feb. 3, 1897.

### M. RICE & CO.,

Importers and Manufacturers of  
**FLORISTS' SUPPLIES.**

25 N. 4th St., Philadelphia, Pa.  
NEW FALL CATALOGUE NOW READY  
When Writing Mention Florists' Exchange

### GOLD FISH.

Fine Healthy Stock.

Medium to large size, \$10.00 per 100. Cash with order. No charge for shipping cases.  
Gold Fish can be shipped by Express thousands of miles with safety and are a profitable and attractive stock to handle.

Full line of Aquaria Supplies.  
**KEANAN'S SEED STORE,**  
6112 and 6114 Wentworth Ave., CHICAGO.  
When Writing Mention Florists' Exchange



TELEPHONE, 1782 18TH ST.  
When Writing Mention Florists' Exchange

HAVE YOU EVER TRIED  
THE MEYER GREEN SALT KALINE?



Price \$1.25 per lb. For sale everywhere. Fancy colors for dyeing purposes. JOHN C. MEYER & CO., 87 Summer Street, BOSTON, MASS., U. S. A.  
When Writing Mention Florists' Exchange

Cleaned Out.  
We are cleaned out of reliable stock. I thank you for your paper. We intend to procure enough stock so when we give you our advertisement again we will run it right through this year.  
EVERETT & INSALL.  
Hackensack, N. J., July, 7, '97

### Emil Steffens

SUCCESSOR TO N. STEFFENS AND STEFFENS BRO.  
Manufacturers of  
**FLORISTS WIRE DESIGNS**  
ESTABLISHED 1860  
-AND SUPPLIES-  
335 EAST 21<sup>ST</sup> STREET, NEW YORK CITY.

When Writing Mention Florists' Exchange

## GOOD TIMES ARE COMING!

HURRY THEM A BIT!

This by using the new "FLORAL ART" Catalogue to give customers ideas of Designs Cut Flowers, Prices, etc. It shows 96 Arrangements. Adapted to any business. First Edition, Samples, 20 cts. In stamps. The five editions for 60 cts. Priced circular free.

### DAN'L. B. LONG, PUBLISHER, BUFFALO, N. Y.

When Writing Mention Florists' Exchange

### ATTENTION, SECRETARIES!

## The One Thing

necessary to insure success for your coming Chrysanthemum Exhibition is the use of our

# CHRYSANTHEMUM

# LITHOGRAPHS.....

Samples and prices mailed on application. We respectfully solicit your patronage. Orders will be promptly filled.  
**THE COURIER LITHOGRAPHING CO., Buffalo, N. Y.**  
When Writing Mention Florists' Exchange

# Your 1898 Catalogue

We can illustrate and print it for you, and the work will be well done, and delivered on time. We have the experience and every facility. First come naturally best served.

A. T. De La Mare Ptg. & Pub. Co., Ltd., Nos. 2 to 8 Duane Street, New York.

J. K. ALLEN, Wholesale Commission Dealer in CUT FLOWERS, 57 W. 24th St., New York...

W. S. ALLEN, Wholesale Commission Dealer, 17 West 28th St., New York...

J. B. EZECHEL, Wholesale Florist, 42 West 28th St., New York...

FORD BROS. WHOLESALE FLORISTS, 111 West 30th Street, New York...

WM. H. GUNTHER, Wholesale Florist, VIOLETS AND CARNATIONS A SPECIALTY...

MICHAEL A. HART, Wholesale & Commission Florist, 113 W. 30th St., New York...

H. A. HOFFMANN, Wholesale Florist, 44 W. 29th St., New York...

EDWARD C. HORAN, Wholesale & Florist, No. 34 W. 29th St., New York...

J. M. KING, Wholesale Commission Florist, 49 W 29th St., New York City...

JULIUS LANG, Wholesale Florist, 53 WEST 30th ST., New York...

ERNST C. ASMUS Wholesale Florist. ROSE SPECIALTIES. Am. Beauty, Eric's, Bridalmaid, Sweetest...

K. A. Victoria VIOLETS, ORCHIDS, CHRYSANTHEMUMS AND CARNATIONS. Flower of the only VALLEY receiving a N.Y. CUT FLOWER CO. award...

A. L. VAUGHAN, CHAS. W. MCKELLAR, E. F. WINTERS. VAUGHAN, MCKELLAR & WINTERS, WHOLESALE COMMISSION JOBBERS...

Wholesale Prices of Cut Flowers

Table with columns: NAMES AND VARIETIES, NEW YORK, BOSTON, PHILADELPHIA, CHICAGO, ST. LOUIS. Lists various flower types like A. Beauty, extra, No. 1, etc.

For Prices of Fancy and Special Stock see our Correspondence Columns. Prices are for quantities of one hundred roses otherwise noted...

REINBERG BROS., Wholesale Growers of Cut Flowers. We can fill all orders on short notice with all leading varieties of ROSES and CARNATIONS...

SAMUEL S. PENNOCK, WHOLESALE FLORIST. A fine stock of Roses, Valley, Carnations, Smilax, Etc., coming in, of which we can fill orders on the shortest notice...

CITY HALL CUT FLOWER MARKET, WELCH BROS. (Long Distance Telephone 2071), Boston, Mass. New England headquarters for Choice Chrysanthemums, American Beauties...

MacDonald & McManus, Wholesale Florists and Dealers in CUT FLOWERS, 50 W. 30th St., New York...

FRANK MILLANG, Wholesale Commission Dealer... in Cut Flowers... 408 East 34th St., New York City...

THE NEW YORK CUT FLOWER CO. 119-121 West 23rd Street, New York. Consignments Solicited...

F. A. ROLKER, Wholesale Dealer in CUT FLOWERS, 53 West 28th Street, New York...

W. F. SHERIDAN, Wholesale Commission Dealer in CUT FLOWERS, 39 West 25th St., New York...

FRANK H. TREMPER, CHARLES SCHEING, TRAENDLY & SCHEING, Wholesale Florists, 38 W. 28th St. and CUT FLOWER EXCHANGE, NEW YORK...

JOHN YOUNG, Wholesale Florist, 61 WEST 28th ST., NEW YORK.

KENNICOTT BROS. COMPANY, Wholesale & Cut Flowers, 88 Wabash Avenue, CHICAGO, ILL. WIRE WORK A SPECIALTY.

ROGERS PARK FLORAL CO., Wholesale Growers of Cut Flowers, OFFICE AND GALLERY, 41 WABASH AVE., CHICAGO. Headquarters for AMERICAN BEAUTIES.

ILLINOIS CUT FLOWER CO., J. B. DEAMUD, MANAGER, Wholesale Commission Florists, 51 Wabash Ave., CHICAGO. When Writing Mention Florists' Exchange

**Wholesale Florists** **JOBBERS IN**  
 FLORISTS' SUPPLIES.  
**FLORISTS' VASES.**  
 Horticultural Architects.  
 84 HAWLEY STREET, - BOSTON.

**S. FROWERT,**  
**Wholesale Florist,**  
 17 North 13th Street,  
 PHILADELPHIA, PA.  
 Commitments Solicited. Special Attention Given  
 to Shipping Orders.

**MAX RUDOLPH,**  
**Wholesale Florist**  
 All Seasonable **CUT FLOWERS.**  
**FINE ROSES.**  
 Shipping orders a specialty. Commitments  
 solicited.  
 11 W. 12th St., - CINCINNATI, O.

**HEADQUARTERS** in Western  
 New York. Try us  
**ROSES, CARNATIONS AND**  
**ALL SEASONABLE FLOWERS.**  
**WM. F. KASTING,** Wholesale  
 498 Washington Street,  
 Buffalo, N. Y. Commission  
 Florist  
*Also Dealer in Florists' Supplies & Wire Designs*

**GEO. A. SUTHERLAND,**  
 Successor to Wm. J. Stewart.  
**CUT FLOWERS and FLORISTS' SUPPLIES**  
**WHOLESALE.**  
 67 Bromfield St., Boston, Mass.

**EDWARD REID,**  
**Wholesale Florist**  
 1526 RANSTAD STREET.  
 Bet. Market & Chestnut Sts., PHILADELPHIA.  
 All **CUT FLOWERS** in Season.  
 - Phone 2902 A.

**H. L. SUNDERBRUCH CO.,**  
**Wholesale Commission Florists,**  
 4th and Walnut Streets,  
 CINCINNATI, OHIO.  
 Commitments Solicited. Special Attention Given  
 to Shipping Orders.

**St. Louis**  
**Cut Flower Co.**  
**WHOLESALE**  
**FLORISTS,**  
 1620 Olive St.  
 ST. LOUIS, MO.

**WM. J. BAKER,**  
**Wholesale Florist**  
 1432 So. Penn Square,  
 Philadelphia, Pa.

**WM. C. SMITH,**  
**Wholesale Florist,**  
 40 S. 16TH ST.,  
 PHILADELPHIA.  
 Roses, Carnations, etc. Commitments  
 Solicited.

**C. A. KUEHN,**  
**WHOLESALE FLORIST,**  
 1122 Pine St., St. Louis, Mo.  
**A COMPLETE LINE OF WIRE DESIGNS.**

**E. G. HILL & CO.,**  
**Wholesale Florists,**  
**RICHMOND, INDIANA.**

**DUMONT & CO.,**  
**WHOLESALE FLORISTS**  
 CARNATIONS A SPECIALTY.  
 No. 1305 Filbert St., Philadelphia.

**Buffalo Cut Flower Exchange**  
**WHOLESALE COMMISSION.**  
 COMMITMENTS SOLICITED.  
 481 Washington St., BUFFALO, N. Y.  
 Telephone, Seneca, 1306.

**C. W. WORS,**  
**Wholesale Florist,**  
 913 N. LEFFINGWELL AVENUE,  
 ST. LOUIS, MO.  
**FINE ROSES**-Shipped carefully to all  
 parts of the country.

**CHOCOLATE COOLER CO.,**  
**GRAND RAPIDS, MICH.**  
 Manufacturers of  
**FLORIST'S REFRIGERATORS.**  
 Send for Circular.  
 When Writing Mention Florists' Exchange

**Poughkeepsie, N. Y.**  
 At the last meeting of the Dutchess County Horticultural Society it was announced that the following gentlemen had accepted the invitation to officiate as judges at the forthcoming Chrysanthemum Exhibition, November 3, 4, and 5: Messrs. William Scott, Buffalo; Samuel Goldring, Albany; A. D. Rose, Jersey City, and Henry Siebrecht, New York. Mr. William Russell, of Millbrook, gave an interesting address on loose-growing grown outside—grown on a wall with plant cloth protection in the Spring. Mr. Russell said he had ripened and had in good condition outside, Black Alcanthe, Black Hamburgh, and Buckland Sweet-water, having well-filled bunches weighing from one to two pounds.  
 Chrysanthemums in this locality are good where they are grown wholly inside, but where outside culture has to be followed during Summer months, the heavy rainfall this year appears to have injured the plants considerably.  
 Among the special prizes offered in the schedule of premiums a silver cup valued at \$25, which will be given for the best 250 double blue violets in bunches of 50 each, to be judged by experts. Another prize of \$25 is offered by Josephus Plants for best 100 double blue violets, in bunches of 50. Peter Henderson & Co. offer a prize of \$10 for best 12 blooms of white chrysanthemums, and Benjamin Hammon, a prize of slug shot for best chrysanthemum bloom on exhibition.  
 It is expected that a large and keen competition in the violet classes will result.  
 W. G. GOMBERALL.

**Newburgh, N. Y.**  
 George Crawshaw has started in the florist business here. He commences with two 100-bolt carnation houses and one violet house, his stock is in excellent condition. George's prospect for the first season are bright.  
 G.  
**Fish Kill, N. Y.**  
 Wood Bros. have a bench of 500 Jubilee, which they wish to sell \$5.00. No rust this year. They also have a bench of Flora Hill. This they consider, has a great future, and likely to surpass the McGowan; certainly no bench of carnations could look better or more full of promise than this one.  
 G.

**CUT CHRYSANTHEMUMS**  
 As Good as the Best. Grown and For Sale by  
**A. GUDE & BRO.,** Washington, D. C.  
 Get our prices on large or small quantities which are always lowest for good quality flowers.  
 When Writing Mention Florists' Exchange

**Galax Leaves.**  
**CHAS. H. RICKSECKER,** Linville, N. C.  
 When Writing Mention Florists' Exchange

**HEADQUARTERS**  
 ...OF...  
**PAMPAS PLUMES**  
**CALIFORNIA**  
 Tree and Shrub Seeds, Smilax, Cobaea, Grevillea robusta,  
**PALM SEEDS, Etc.**  
 Ask for Special Prices.  
**GERMAIN FRUIT CO.,** LOS ANGELES, CAL.  
 When Writing Mention Florists' Exchange

**HARDY CUT FERNS**  
 Eight million on hand, loads your Fall and Winter supplies. Fancy variety quality, 50 cents per 1000. A. B. HAYMAN Mfg. Co. quality, 50c for large bunches. Hargest Greenhouse in the United States. All orders filled quickly. All orders by mail subject to inspection. Addressed to: **THOMAS COLLINS,** P. O. BOX 311, MISSOURI, MO.  
**ASPARAGUS PLUMOSUS NANUS,**  
**W. H. ELLIOTT,** - Brighton, Mass.  
 When Writing Mention Florists' Exchange

**HARDY FERNS**  
**WARRANTED FIRST QUALITY.**  
 SPECIAL ATTENTION PAID TO SUPPLYING WHOLESALE DEALERS.  
 Write for Prices.  
 - ALSO DEALER IN -  
**BOUQUET GREEN, SPHAGNUM MOSS, CHRISTMAS TREES,**  
 Etc., Etc., Etc.  
**L. B. BRACUE,** - HINSDALE, MASS.  
**5th OLDEST, LARGEST, AND MOST REPUTABLE DEALER IN THE UNITED STATES**  
 When Writing Mention Florists' Exchange

... FINEST ...  
**GALAX LEAVES and LEUCOTHOE SPRAYS.**  
 Green Galax Leaves are now ready to ship.  
 ALWAYS WRITE THE INTRODUCERS.  
**HARLAN P. KELSEY,**  
 1123 Tremont Building, BOSTON, MASS.  
 When Writing Mention Florists' Exchange  
**ASPARAGUS ROOTS**  
 FOR FORCING.  
 Have a large stock of Asparagus Roots, 3 and 4 years strong, considered large enough for forcing in greenhouses. Cassin's, Hart's and Falkmets. Orders will be booked now for  
**XMAS HOLLY.**  
 December shipment. Price of the above on application. State quantity desired.  
**ALEXANDER PULLEN,** Milford, Del.  
 When Writing Mention Florists' Exchange

**PROVING FERN CO.**  
 FURNISHERS OF  
 Evergreen, Hardy Cut Ferns, Laurel and Princes Plus Seedlings, Bouquet Green, and all kinds, Christmas Trees, and all other plants always for first quality goods. Write for prices on all goods desired. 27 Beacon St., Boston, Mass. (From Office, Hingham, Mass.)  
 When Writing Mention Florists' Exchange

**FANCY** **DAGGER**  
**EVERGREEN**  
 FOR DECORATING PURPOSES.  
 In bulk, by the barrel or made into roping. Prices right.  
**CHARLES LUDWIG,**  
 Florist, SARATOGA SPRINGS, N. Y.  
 Greenhouses, Lincoln Avenue and Circular St., Greenidge Place.  
 When Writing Mention Florists' Exchange

**EVERGREEN**  
 FOR DECORATING PURPOSES.  
 In bulk, by the barrel or made into roping. Prices right.  
**CHARLES LUDWIG,**  
 Florist, SARATOGA SPRINGS, N. Y.  
 Greenhouses, Lincoln Avenue and Circular St., Greenidge Place.  
 When Writing Mention Florists' Exchange

# Success

engenders

# Success.

Take our advice:

Don't

Fritter Away

Your Money.

Advertise

in a

Successful

Medium



Subscribe

to a

Successful

Medium



**The Market**

Roses, carnations, and chrysanthemums are glut. Prices are low. Fine chrysanthemums are selling as low as 4c. Violets are now coming in more plentifully.

**Joilings**

Mr. Harry A. Pair, of this city, is one of our very best patrons of horticulture. His grand country place, Sherwood, so well managed by F. W. Binder, was visited by the committee for novelties in order to judge the merits of Mr. Binder's new seedling chrysanthemum. The members were beautifully entertained by Mr. and Mrs. Binder. The committee thought fit to give the following chrysanthemum our local certificate, which they well deserved, being early and above the average in growth: Lady Hattie, a beautiful shell pink, large and very strong in growth; Harry A. Pair, an extra early large white bloom in flower October 6; this is one of the finest whites; a grand commercial variety; Golden Standard, a fine early yellow, pleasing in color; Willowbrook, a beautiful lemon-yellow, sturdy grower, very full flower; Sherwood, another good early white, one that if properly grown will be a good seller over the country.

William J. Halliday had a grand decoration of the Grand Chapters of Royal Arch Masons. It was a pity that everything had to be kept in red, as many of the Beauty and Meteor roses did not show to full advantage under the glare of red incandescent lights, surrounded with so much red hunting. The general effect away by large foliage was gorgeous.

EDWIN A. SEIDEWITZ.

**Omaha.**

The florists of Omaha and Council Bluffs are not at all satisfied with the way the Trans-Mississippi Exposition people are acting in regard to the letting of bids for the plants to be used next Spring on the Exposition grounds. The committee has submitted to the trade estimates naming in all 100,000 bedding plants of the ordinary varieties, asking for the lowest possible estimate upon part or the whole of the same. The trade think this bid gives the Exposition people an advantage over the home market and too great a latitude in their arrangements, without in any way binding them to buy from local growers. The number of plants is considered to be only a fraction of that required for the consummation of the extensive bedding planned by the company.

Business is exhibiting quite a rosy complexion; let us hope it is not a transient blush. Chrysanthemums look well and promise good blooms. The major part of the groves have some flowers nearly ready to cut, but as yet none have been exhibited in the stores.

Roses are fast improving both in color and size, particularly La France, of which roses are in great quantity in groves here, the soil and climate seeming to be just adapted to its successful culture. Some Beauties are coming in; nearly double the quantity of this rose is being grown.

Carnations in the main are still poor, but there are a few growers producing good blooms. Stuart has been dropped from the list by nearly all, or where grown is only an excuse for a carnation. It never did well after its first year here and is now entirely run out.

Hess & Swoboda have built two new houses and repaired their entire place, putting in a new 60-horse power boiler. J. W. and E. E. Arnold have renovated their greenhouses, entirely replacing the interiors.

Robert Unger, who for two years has run the "Old Parker" place (a range of about 30,000 square feet of glass) has opened up a downtown store at 113 South Sixteenth street and is showing a good line of general stock.

A. Donaghue has just completed the altering of his system of steam heating, putting in large radiators, etc. A. Donaghue, Jr., was married on the 23rd of September, in Detroit, Mich., to Miss Katarina Baum. He is now at his accustomed place in his sixth street store.

**Atlantic, Ia.**

"C. G. Anderson & Co. will build another greenhouse, 72 feet in length. They will grow early vegetables.

**Baltimore.**

## Cypress Greenhouse Material.

We are the pioneers in Clear Cypress Greenhouse Material. We discovered that Cypress is better than any other wood for greenhouses from top of posts up and we introduced it, and fought for it against many prejudices, and finally succeeded in bringing it into general use.

Others have attempted to follow where we lead, others are trying to reap what we sowed, but we have the experience and are recognized as experts in greenhouse construction.

Write for Circulars or Estimates.

**Lockland Lumber Co.**

LOCKLAND, OHIO.

When Writing Mention Florists' Exchange

## GLASS! For Greenhouses, Conservatories, Graperies, Hotbeds and all other purposes, at Lowest Rates. GLASS!

**N. COWEN'S SON, 392 & 394 West Broadway, New York, Formerly 1st and 156 So. Fifth Avenue.**  
Get our Figures before buying. - Estimates Freely Given

When Writing Mention Florists' Exchange

**Los Angeles, Cal.**

An organization of the nurserymen and florists of this city and surrounding country was elected October 11, under the name of the Los Angeles Florists' Association. Captain F. Edward Gray was elected president; C. H. Packard, vice-president; Miss Fred Lord, secretary, and Fred Howard, treasurer. It was decided to hold meetings on the first Monday of each month. At the next meeting, November 1, Mr. Sharr, of South Pasadena, will present a paper on the cypress, and as he is an expert in this family, we may expect an interesting article.

The new association starts out with over twenty members and will soon have fifty, and much good is sure to follow. Chrysanthemums are now in. F. Edward Gray displays some grand specimens. The first violets of the season are being brought in. Miss Lord and E. R. Meerve having the first. Mr. Meerve brings in a few Princess of Wales from young plants—better blossoms than the California and more fragrant. This is surely the greatest violet yet.

A very busy and promising season is opening for both nurserymen and florists. F. Edward Gray has been making some changes in his store, and it is now the most tasty, convenient, and beautiful store west of the Rockies. His modern methods are doing much to tone up the business.

**Evans' Improved Challenge.**

Boiler bearing, self-oiling device, automatic wire, solid cast chains, makes the IMPROVED CHALLENGE the most perfect and popular range in the market. Write for catalogue and prices before placing your orders size.

Quaker City Machine Co., RICHMOND, IND.  
When Writing Mention Florists' Exchange

## SUMMER IN WINTER

By Using Standard Greenhouse Boilers One cent gets our Catalogue.

GIBLIN & CO., - Utica, N. Y.  
When Writing Mention Florists' Exchange



For Pipe and Tubing, VALVES and FITTINGS, VENTILATING APPARATUS.

COLDWELL-WILCOX CO., Newburgh, N. Y.  
SEND FOR CATALOGUE  
Mention paper.  
When Writing Mention Florists' Exchange

**WON SENT**

WILL BRING YOU 50 DIFFERENT HARMONIOUS KOLOR COMBINATIONS FOR EXTERIOR DECORATIONS OF HOUSES AN HOMES. JOHN LUCAS & CO. PHILA. & N.Y.

When Writing Mention Florists' Exchange

**CYPRESS GREENHOUSE MATERIAL**  
OF ANY DESCRIPTION.

SEND FOR CATALOGUE. When Writing Mention Florists' Exchange

**IF YOU WANT A GOOD SASH LIFT**  
For a Very Little Money Get



THE "NEW DEPARTURE" VENTILATING APPLIANCE.

For Descriptive Catalogue Send to J. D. CARMODY, Evanville, Ind. When Writing Mention Florists' Exchange

**CYPRESS IS MUCH MORE DURABLE THAN PINE.**

**CYPRESS SASH BARS**  
UP TO 12 FEET LENGTH ON LONGER.  
**GREENHOUSE**  
AND OTHER BUILDING MATERIAL.  
Send for our Illustrated Book "CYPRESS LUMBER AND ITS USES" - Best for Special Greenhouse Builders.  
THE A. T. STEARNS Lumber Co., Neponset, Boston, Mass.

When Writing Mention Florists' Exchange

**LORD & BURNHAM CO.,**

Horticultural Architects and Builders Steam and Hot Water Heating Engineers.

(Established 1856.)

Plans and estimates furnished on application for Greenhouses, Conservatories, and all kinds of Horticultural Buildings, erected complete with our patent Iron Conservatory; or for material only, ready for erection.



Largest Builders of Greenhouse Structures. Plans and construction embrace latest improvements. Six highest awards at the World's Fair, . . . . .  
Send four cents postage to New York office for latest catalogue.

NEW YORK OFFICE: GENERAL OFFICE AND WORKS, IRVINGTON-ON-HUONSON, N. Y.  
160 FIFTH AVE., COR. 21ST ST.

When Writing Mention Florists' Exchange

**GLASS**

FOR GREENHOUSES, CONSERVATORIES, ORAPERIES, HOTBEDS AND FLORISTS' USE GENERALLY, AT LOWEST RATES.

L. HARRIS & SON.

457 W. BROADWAY, NEW YORK, 89 LIBERTY ST., NEW YORK

But, Kenies and Blemish Free.

When Writing Mention Florists' Exchange


**CALIFORNIA RED CEDAR**  
Never Decays.  
A. DIETSCH & CO. 819 Sheffield Avenue, CHICAGO.  
MANUFACTURERS OF  
RED CEDAR AND CYPRESS GREENHOUSE MATERIAL.  
When Writing Mention Florists' Exchange

**DON'T SYRINGE WITH COLD WATER**

And so lower the vitality of your Stock, Inviting Mildew, Black Spot, and other Disease, but write for particulars of our Tempering Apparatus.

**HENRY W. GIBBONS,** HEATING ENGINEER AND GREENHOUSE BUILDER  
136 LIBERTY STREET, NEW YORK.  
When Writing Mention Florists' Exchange

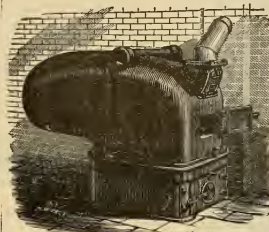
SEND FOR OUR NEW CATALOGUE, WHICH SHOWS  
**The New Automatic Cable Ventilator**  
As it is put up in the bones complete. We also give you prices with a guarantee that each machine sent out will operate your houses successfully. Still machines now made in two sizes.  
**A. Q. WOLF & BRO., Dayton, Ohio.**  
When Writing Mention Florists' Exchange

**STANDARD VENTILATING MACHINE.**  
NONE EQUAL IT IN Strength AND Durability  
Send for Catalogue.  
  
Nothing Flimsy OR Complicated about it.  
E. HIPPARD, YOUNGSTOWN, OHIO.  
When Writing Mention Florists' Exchange

**TRADE GREENHOUSES.**  
THE BEST MADE.

"Florists" Get Your Plans and Estimate from  
**PLENTY'S HORTICULTURAL WORKS,**  
148-156 Randolph Ave., JERSEY CITY, N. J.  
When Writing Mention Florists' Exchange

**GREENHOUSE HEATING AND VENTILATING,**  
Horticultural Architecture and Building.



**Hitchings & Co**  
ESTABLISHED 1844.

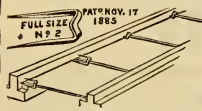
233 Mercer Street, NEW YORK.

FIVE PATTERNS OF BOILERS. NINETEEN SIZES.

Perfect Sash Raising Apparatus. Roachhouses, Greenhouses, Etc., of Iron Frame Constructed erected complete or the Structural Iron Work shipped ready for erection.

Iron Frame Frames with the "Perfect Drainage Bench Tile" or Slate Tops.

SEND 4c. POSTAGE FOR ILLUSTRATED CATALOGUE.  
When Writing Mention Florists' Exchange



**THE VAN REYPER PERFECT GLAZIERS' POINTS**

No rights or lefts. Price per box of 1000, 60c. by mail, 75c.; in lots of 5000 by ex., \$50.00 per 1000

HENRY A. DREER, 714 Chestnut St., Phila., Pa.

When Writing Mention Florists' Exchange

**FURMAN BOILERS**  
specially adapted to  
**Greenhouse Heating.**  
200 Styles and Sizes. Steam and Hot Water. SAFE, SUBSTANTIAL, SIMPLE, ECONOMICAL. Portable or Brick Set.  
**GREAT COAL SAVER.**  
Send for catalogue. Estimation Free.  
**THE HEREDENE MFG. CO.,**  
Home Office: 13 Fay St., Geneva, N. Y.  
BRANCH OFFICES:  
Boston, 54 Oliver St.; Philadelphia, 109 Betz Bld'g; New York, 39 Cortlandt St.; Milwaukee, 155 2d St.  
When Writing Mention Florists' Exchange

**MASTICA**

FOR GLAZING GREENHOUSES. SUPERIOR TO PUTTY IN EVERY WAY.  
Is not hardened by the extreme heat or cold that a greenhouse is constantly subjected to both inside and out. Mastic is adhesive and remains permanently elastic so that it is not forced out of place by expansion and contraction of the woodwork. Houses glazed with Mastic do not need re-glazing, thus saving time and expense. With Mastic can "bed-in" or use on the outside, but with a machine only.  
Mastic and Mastic Glazing Machine was given  
**HIGHEST AWARD OF SOCIETY OF AMERICAN FLORISTS AT PITTSBURG, 1895.**  
Put up in gallon, \$1.00. Half gallon, 60 cts. Quarter gallon, 35 cts.  
Mastic Glazing Machines, \$1.00 each.  
Send for full descriptive circular and testimonials. Agents in all the principal cities.

**F. O. PIERCE CO., Sole Manufacturers, 170 Fulton St., New York.**  
When Writing Mention Florists' Exchange



**The Scollay Boiler**  
—FOR—  
**GREENHOUSE HEATING, ETC.**  
Hot Water or Steam.

"FARMINGTON, Conn., March 9, 1896.  
"The Invincible Boiler you placed in my Carriage house has given great satisfaction. I did not have to run the boiler hard even when the thermometer stood 18 deg. below zero. It has proved "Invincible" in every respect."  
H. C. CROSBY, Florist.

Send Stamp for Catalogue and Price List. Estimates Cheerfully Given.

**JOHN A. SCOLLAY,**  
74 and 76 Myrtle Ave., Brooklyn,

231 Water St., New York.  
"INVINCIBLE."  
When Writing Mention Florists' Exchange



CHINESE SACRED NARCISSUS.

# CHINESE SACRED NARCISSUS

(Lily of the Gods or Jess Flower.) Chinese Grown.

We have just had turned over to us for sale an exceedingly fine lot of these bulbs, in splendid condition, all showing growth, consisting of

**150 CASES of 300 BULBS Each,**

Which we can offer until sold, at

**\$10.00 PER CASE.**

Also a Grand Lot of

**DUTCH, FRENCH, BERMUDA and JAPAN BULBS,**  
At Similar Low Prices.

**CLUCAS & BODDINGTON CO.**

IMPORTERS, EXPORTERS AND GROWERS' AGENTS OF SEEDS, BULBS AND PLANTS,

Telephone Call 403 18th St. 501-503 W. 13th St., N. Y. CITY.

**CLEMATIS** Large flowering varieties, one year old plants, from 4 in. pots, \$2.00 per doz.; \$15.00 per 100. **CLEMATIS PANICULATA**, from 3 in. pots, \$1.00 per 100.

**California Violets**, Field-Grown, \$1.00 per 100.

C. EISELE, 11th & Jefferson Sts., Philadelphia, Pa. When Writing Mention Florists' Exchange

**STOCK PLANTS of the Earliest of all Chrysanthemums**

## MADAM CASTELLIER

3.00 per doz. Also Yellow Minnie Rob. \$4.00 per doz. White Monarch, Marquis, Harcourt, Westport, Madame de Nemours, Glory of Pacific, J. E. Lager, \$1.00 per doz. A. D. ROSE, 200 West Side Ave., Jersey City, N. J.

**FERNS BY THE THOUSANDS**  
IN TWENTY VARIETIES.

From 2 1/2 inch pots, \$1.75 per 100; from 2 inch pots \$2.00 per 100; 3 inch pots, \$2.00 per 100. **FERN SPERM** in many varieties, 35c per doz.; \$ for \$1.00.

All good value for cash, with order. EDWARD D. DROWN, - - Weldon, Pa. When Writing Mention Florists' Exchange

# SAVE 50% DUTY

**ON METAL FLORAL DESIGNS** By Buying of the Manufacturer. Also on Largest Stock, Best Goods, Lowest Prices.

**PREPARED CYCAS PALM LEAVES**

ALL FLORISTS' SUPPLIES SECOND TO NONE. WRITE FOR CATALOGUE.

**A. HERRMANN.** 404, 406, 408, 410, 412 East 34th Street, NEW YORK CITY.

Manufacturer of METAL FLORAL DESIGNS, Importer and Dealer in FLORISTS' SUPPLIES.

**AMERICAN BEAUTY,** BRIDESMAID, PERLE, METEOR, BRIDE KAISERIN, HERMET, LA FRANCE and RENEE. Also extra fine lot of plants, Begonia etc. special Low Prices including delivery in Phila. or New York promptly quoted.

When Writing Mention Florists' Exchange

# Florists' Supplies.

Largest Stock in the Country.

All goods up to date, and of superior quality. Write us for prices and other information.

**H. BAYERSDORFER & CO.,**  
86 N. FOURTH STREET, PHILADELPHIA, PA.

# Success

waits on all who Subscribe to

An Illustrated Journal of Gardening and Fruit Growing



Record of Current Events

In Horticulture.

Estab. 51 Years.

"Intensive Cultivation is the Key to Success."

Every Saturday...

16 \*

W. F. Gale  
331 Main  
\$3.00

...\$1.00 per Year

Complete Practical Guide to every phase of Plant Culture, in the Open and under Glass, and the Development of Land and Home Surroundings.

# The Soil's Productiveness Increased.

Send \$1.00 for a year; it will earn you \$100 before the twelve months are up. *Our 1898 six sheet Art Calendar Free to Every Subscriber.*

Publishers American Gardening, P. O. Box 1697, New York.



**TIME** compels us to  
again reduce our  
prices, and will offer for one week only:



Hyacinths, Roman White, 11 to 12 cims.	\$2 00	\$18 00
" 12 to 15 "	2 50	22 00
" Dutch, single, separate colors	2 50	24 00
" double	2 75	25 00
Tulips, Artus, scarlet	75	4 50
" Chrysolora, yellow	1 25	11 00
" Crinaceo King	45	4 25
" Duc van Thol, scarlet	75	4 75
" Queen Victoria	85	4 50
Narcissus, Paper White Grandiflorum	25	20 00
" Chinese Scorch per mat. (150 bulbs)	6 00	50 00
" Von Sloo, mammoth bulbs	2 50	20 00
Iris, Spanish Mixed	1 00	10 00
Oxalis, Bermuda Buttercup	2 50	20 00
Lilium Longiflorum, 5 to 7, Japan grown	2 50	20 00
Spreng Japonica	4 00	20 00

THIS OFFER WILL NOT APPEAR AGAIN

**WILLIAM ELLIOTT & SONS, 54 and 56 Dey St., New York.**  
When Writing Mention Florists' Exchange

**We Print Catalogues...**

and Print Them Well.

Would like to furnish you figures on yours.

A. T. De La Mare Pig. and Pub. Co., Ltd, 2 Duane Street, New York.

**GRASS SEEDS**  
We are Headquarters and Replenishers.  
**RED TOP BLUE GRASS, ORCHARD GRASS, MEADOW FESCUE and SNOWFLOWER.**  
F. W. O. SCHMITZ, JERSEY CITY, N. J.  
J. CHAS. McCULLOUGH, SEEDSMAN, CINCINNATI, O.  
JOBBER TRADE A SPECIALTY.

**JAPAN BILBS** LONGIFLORUM, AURATUM, SPECIOSUM RUBRUM and ALBUM.  
Orders sent before **NOVEMBER 10th**, will receive discount of 5 per cent. from Catalogue prices. Good for Price List.  
Also "CALIFORNIA GROWN SEEDS" SWEET PEA, and all other FAVORITE FLOWER SEEDS.  
Address **H. H. BERGER & CO.**, St. Paul's Building, 220 Broadway, New York.  
When Writing Mention Florists' Exchange

**ROMANS! ROMANS! ROMANS!**  
JUST ARRIVED IN FINE CONDITION. READY FOR DELIVERY.  
Special low quotations for large and small quantities. Don't wait, but speak quick, before they have gone again. This is the last shipment for this season.  
**Lilium Harriett** and **L. longiflorum**, 5x7, only a few left. **Dutch Hyacinths**, **Narcissus von Sloo**, etc., are in; the finest ever handled. A few thousand **Ficus Elastica** still on hand. **Azaleas**. Write for prices. My stock does not need any recommendation, same does its own work.  
F. W. O. SCHMITZ, JERSEY CITY, N. J.  
When Writing Mention Florists' Exchange

**PALM SEEDS.**  
As very large Exporters of Palm and other Seeds peculiar to Australasia and the Neighbouring Islands,  
We submit the following List to your notice, and shall be pleased to receive orders. The price quoted cover packing and delivery to ship, except on orders for less than 10,000 Seeds, when cost of packing will be charged.

SEEDS.	1000	10,000	50,000	100,000
Arca Baueri	75	750	3 00	5 00
Sapida	75	750	3 00	5 00
Corypha Australis	75	750	3 00	5 00
Kenia Belmexana	80-85	800	3 20	5 50
Forsteriana	75	750	3 00	5 00
Canterburyana	215	2 100	8 50	15 00
Mooreaana	125	1 250	5 00	8 00
Licuala Grandis	125	1 250	5 00	8 00
Scortchiana Elegans	105	1 050	4 20	7 00
Pandanus Utilis	105	1 050	4 20	7 00

The Seeds are packed in air-tight tin-lined cases, after being mixed with damp powdered charcoal and sawdust, by which means they are kept in splendid condition during transit.

Terms: **CASH IN SYDNEY** against Bills of Lading.  
**SEARL & SONS, 109 King St., Sydney, New South Wales.**  
When Writing Mention Florists' Exchange

**BULBS**

**SPECIALS: Named Hyacinths.** Strictly FIRST SIZE, guaranteed. \$5.00 per 100. **Tulips.** Single separate mixed. Equal quantities of each color! Best assortment for forcing. \$5.00 per 100. **Narcissus.** Von Sloo, extra large bulbs. \$1.00 to \$1.50 per 100. **Narcissus.** Easter Lilies cheap. Write for Special List.  
**AMERICAN BULB COMPANY, Short Hills, N. J.**  
When Writing Mention Florists' Exchange

**SEEDS** MAIN AND MARKET. **KENTUCKY BLUE GRASS (POA PRATENSIS).** CHAS. E. PRUNTY, SAINT LOUIS.  
When Writing Mention Florists' Exchange

**COSMOS** GIANT FLOWERED, EARLY BLOOMING. Six splendid varieties, separate \$1.00 per bunch. **New Callipho** lili. grandis. (1st) Flowed. **Callipho** lili. grandis. (2nd) Flowed. Special prices on quantity. **Apple Cakes** var. Frank. 1.00 per 1000 seeds; 75.00 per 10000 seeds. **New** **Roese** or **Abraham's Banana**. 75 cts. per 100 seeds; 8.00 per 1000 seeds. **Snow** for the **Exchange**. After October 1st. 40 cts. per 100; \$3.00 per 1000 seeds. **Callis Lily** bulbs. Prices on application. Send for Trade List of Narcissus, Seeds, Plants, Bulbs and Cakes.  
**MRS. THEODOSIA B. SHEPHERD** Ventura-by-the-Sea, Cal.  
When Writing Mention Florists' Exchange

**CANNAS** Austrian and John White, outdoor growing, 10c. each by ex. **PAINTY SEEDS** best in the market at low prices. **FANAL** send your order for Verbena, Asters, etc. **H. BEAULIEU**, Woodhaven, N. Y.  
When Writing Mention Florists' Exchange

**CYCLAMEN BULBS** CYCLAMEN PERISCIUM GRANDIFLORUM, Prize Strain Stock. From seed grown by one of the most celebrated growers in Holland. Excellent for Florists. Price per 100, \$5.00.

**STUMPP & WALTER CO.** 50 Barclay Street, New York.  
When Writing Mention Florists' Exchange

**PALM** Seed. FRESH ON HAND. ALL SELECTION VARIETIES. Prices for select seeds quoted on application. J. L. SCHILLER, 404 E. 34th St., NEW YORK. When Writing Mention Florists' Exchange

**ROMANS** Choice White Romans, 13-15 at \$2.25 per 100; \$20.00 per 1000.

**NIKOTEEN, RAFFIA, MASTICA.** A full line of DUTCH BULBS, SEEDS, ETC.  
**GRIFFITH & TURNER CO.** 206 1/2 213 N. Paca St., Baltimore, Md.  
When Writing Mention Florists' Exchange

**CHEESE SACRED LILIES.** One of the best selling bulbs for the retail trade. Strictly Choice Stock, 100 & 1475; 1000 \$43.00. Write for prices on quantities.

We have a few Choice Japan grown **Lilium Longiflorum** left. Write for prices.  
**VAUGHAN'S SEED STORE** 84 & 86 Randolph St., Chicago, 14 Barclay Street, New York.  
When Writing Mention Florists' Exchange

**BARGAINS IN BULBS**  
Hyacinths. Roman 11-12 cims. Per 1000 \$15 00  
" 12-15 " " " " 17 50  
Single Dutch bedding, separate colors 20 00  
" " " " " " " " " " 20 00  
" Named forcing, in pots, 25 size 30 00  
" Double Van Slon, 20 size 30 00  
Single Tulips, Joht van Dort, 4 size 4 50  
" " " " " " " " " " 4 50  
" Cardinal's Hat " " " " " " " " " " 4 00  
" 4 00  
Lilium Longiflorum, 5 to 7, Japan grown 18 00  
Narcissus Trumpet Von Slon, 7-9 35 00  
Trumpet Princess " " " " " " " " " " 7 00  
Double Van Slon, 20 size 30 00  
Single Tulips, finest mixed 3 50  
Dutch Tulips, All Lily of the Valley, out of cold storage " " " " " " " " " " 10 00  
CASH WITH ORDER.

**HULSEBOSCH BROS.** Englewood, N. J.  
When Writing Mention Florists' Exchange

We have just received another splendid lot of Dutch Hyacinths, Tulips, Narcissus, etc. No cheap grades, only the largest and finest. Price List on application.

**W. & D'S. CROP MUSHROOM SPAWN** Special quotation to large buyers.  
**ALL KINDS OF BULBS.** Freesia, Roman Hyacinths, Narcissus, etc., 10000 varieties.  
**WEBER & DON,** Seed Merchants and Growers, 114 Chambers St., NEW YORK CITY.  
When Writing Mention Florists' Exchange

**WALLEYS!** True Berlin and Hamburg Pips, A1 quality, and very cheap assortment for forcing, in quantities.  
**J. L. SCHILLER, 404 E. 34th St., New York.**  
When Writing Mention Florists' Exchange

**=BULBS=**  
CHAS. H. ALLEN, Floral Park, N. Y.  
When Writing Mention Florists' Exchange

**PHILADELPHIA SEEDS** WHOLESALE PRICE LIST FOR FLORISTS AND GROWERS. **MONSTER FLOWERS** measuring 4 to 6 inches in diameter. Price, 50 cts. per trade packet; \$5.00 per doz. Retail pack 45c. \$5.00 per doz. Send for new Trade List of Novelties and Specialties and see description of these Grand Flowers.  
**H. G. FAUST & CO.** 61 & 68 N. Front St. Phila.  
When Writing Mention Florists' Exchange

**HEADQUARTERS FOR BLACK CALLAS**, all sizes. **CYCLAMEN**, extra large bulbs \$3.00 per 100. **OXALIS**, extra choice mixed, 40 cts. per 100. **HYACINTHS**, 50 cts. per 100. **TRUMPET**, 7-9 per 100. \$3.75; 9-10 per 100, \$5.75.  
**H. G. FAUST & CO.** 61 & 68 N. Front St. Phila.  
When Writing Mention Florists' Exchange

**GRAND NEW GIANT ESCHSCHOLZIA "THE GOLDEN WEST."** The Most Gorgeous and Brilliant Novelty of the year. **MONSTER FLOWERS** measuring 4 to 6 inches in diameter. Price, 50 cts. per trade packet; \$5.00 per doz. Retail pack 45c. \$5.00 per doz. Send for new Trade List of Novelties and Specialties and see description of these Grand Flowers.  
**THEODOSIA B. SHEPHERD**, Ventura-by-the-Sea, Cal.  
When Writing Mention Florists' Exchange

**Potential Factor.** THE FLORISTS' EXCHANGE is the most potential factor in the florist business. **W. L. DURTEA.** Mattituck, L. I., June 8, '97.

SEED TRADE REPORT.

Points and information from seedsmen, and all interested in this column, solicited. Address Editor Seed Trade Report, Florists' Exchange, 200 N. La Salle St., Chicago, Ill.

AMERICAN SEED TRADE ASSOCIATION. J. P. BUCK, Cambridge, N. Y., President; E. R. CLARK, Milford, Conn., 1st. Vice-President; S. E. WILLARD, Melrosefield, Conn., Secretary and Treasurer.

New York—H. G. Faust, of Philadelphia, was in the city this week.

RICKFORD, Ill.—Invitations have been issued for the marriage of John P. Rickford, member of the biggest seed firm of that name in this city, to Miss Florence Williams of Lansing, Mich., daughter of a prominent family. The marriage will take place Tuesday evening, November 2, and Gov. Progre and other Michigan state officials will be present.—Chicago Journal.

The Government Free Seed Distribution for 1897 for planting seed to the Department of Agriculture for redistribution were received at the office of the Secretary, Friday, October 15, but owing to the absence of Mr. Wilson from the city, the bids were not opened till the 20th. The Government Seed Co., of Toledo, Ohio, has been awarded the contract; as the law directs that it shall be given to the lowest bidder. The following is a partial list of firms with the figures at which they proposed to furnish each:

Table listing seed suppliers and their prices per bushel. Includes Cameron Seed Co., Robert Buist Co., Hardin Seed Co., C. W. Ebeling, Madison Seed Co., Western Seed Co., D. Landreth & Son, A. J. Brown, J. C. Vaughan, J. Brock & Sons, Huntington & Pape, L. Hancock Seed Co., H. M. May & Co., R. Henderson & Co., Northrup & King, Brown Bag Seed Co., J. T. Wood & Sons, Jerome B. Rice & Co., J. M. Thornburg & Co., Henry Phillips Seed Co.

The Canna Disease.

A writer in a recent bulletin of the Trinidad Botanic Gardens reports that one of the new strains of canna imported for the gardens has been badly attacked by a yellow rust known as 'redo canna,' described as a parasite on canna from Brazil. Botanic mixture seems to have no effect in checking the disease which soon destroys the plant. The fungus appears to thrive best in dry weather immediately following a wet season. We believe that the disease in the United States, but its virulence and the danger of its introduction emphasizes the necessity of preventing the introduction of fungous diseases on imported nursery and greenhouses. H. H. H. Division of Botany, Washington.

CATALOGUES RECEIVED.

ROBERTS MACHINE CO., Collegeville, Pa.—Catalogue of Steam and Hot Water Boilers.

SUNSET SEED AND PLANT CO., San Francisco, Cal.—Catalogue of Beans, Seeds, Plants, Trees and Palms.

AMERICAN GARDEN CO., Tarrytown, N. Y.—Catalogue of Halls, Hardy Shrubs, Trees, Roses, etc., for Fall planting.

JOHN R. & W. FARLEY, Parry, N. Y.—Catalogue of Pomona Nurseries, out bearing and ornamental trees a specialty.

J. W. BRIDGEMAN, East Walpole, Mass. (New York Agents—A. Rulker & Sons)—out little pamphlet gotten up in imitation of the one in New York.—The Notorious Flower Pot—containing prices, etc.

ATGER, BOLKER & SONS, 52 Dey St., New York.—General Illustrated Catalogue Florists' Supplies, Decorative Goods, Baskets, Vases, Etc.—Also a very complete catalogue well printed and profusely illustrated.

BOOKS RECEIVED.

THE NEWBURY AND SEEN TRADE POSTAL AND TELEGRAPHIC ADDRESS LIST, 1897.—This book contains an alphabetical list of the nurseries, florists, flower dealers, dealers in horticultural sundries, wholesale florists and commission salesmen of the United States. It will be found of considerable service to all desiring to establish a trade connection with those on the "other side." Price, postpaid, 50c.

OBITUARY.

J. N. Hauser.

John N. Hauser, one of the oldest florists in New York, died on Sunday afternoon at his home, 1012 Third avenue. He was born in Bavaria in 1816, and after an education in Leipzig, Vienna, and Paris, returned to his home. Before he was 25 his reputation as a horticulturist was such that the post of landscape gardener at the Imperial Palace at Paris was offered to him. This post he held until 1844, when he came to America, and in partnership with Eugene Ball, a former Parisian and an old friend, started a greenhouse business on what was then the old Bloomingdale road, at a place which is now Fifth street and Broadway. Five years later the firm was dissolved and Mr. Hauser went out to business at Twenty-eighth street and Third avenue. At that time he was famous for his carnations, which were the fashionable flowers of the day, and to the time of his death he always declared that as a decorative flower the cannella was not inferior to rose, orchid, or any other. When the city expanded Mr. Hauser moved up town and took up quarters at Third avenue and Sixth street. He belonged to the New York Historical Society and the American Institute. The funeral was held on Wednesday from the Sixty-first street E. M. Church. Mr. Hauser leaves a widow, three sons, and two daughters; the sons have been in the business for some time.

CHESTER, Pa.—Robert Hanna has built greenhouse and will cultivate flowers for profit.

HYPARRGEA OTAKSA.

Suitable for forcing, 8 cts. and 15 cts. each.

AMPELOPSIS VEITCHII.

Field-grown, 2 years, extra heavy.....\$75.00 per 1000; per 100, \$5.00. From 3 inch plants, 1 year, lighter..... " 6.00. Strugs—General assortment..... " 4.00. FIGUS ELASTICA, plants for stock, 15 cts to \$1.00, according to size.

300,000 CALIFORNIA PRIVET, prices on application. (See advertisement for last issue, page 97.)

THE ELIZABETH NURSERY COMPANY, - Elizabeth, N. J. When Writing Mention Florists' Exchange

600 AZALEA INDICA

JUST RECEIVED FROM ANTWERP PER S. S. SOUTHWARK.

Plants in fine condition. Small, medium and large size, in best known trade varieties, put up in cases of 25, 50 and 100 plants. Call at or address

G. H. JOOSTEN, Importer, 193 Greenwich St., New York. When Writing Mention Florists' Exchange

HENDERSON'S BULB CULTURE.

THIS is a large twenty-four page book, with Special Culture directions for over 200 varieties of bulbs. It has been compiled with great care, and its information is accurate, reliable and up to the latest date. This book should be in the hands of every Florist.

POST-PAID FOR 25 cts.

THE FLORISTS' EXCHANGE P. O. BOX, 1697, NEW YORK.

AZALEAS, PALMS. . . . .

ARAUCARIAS, BAY TREES, BEGONIA and GLOXINIA BULBS in any quantity.

SANDER, BRUGES, BELGIUM.

A. D'IMMOCK, Agent, 60 Vesey St., N. Y. When Writing Mention Florists' Exchange

LOOK HERE

The following plants are in AI condition. Asparagus Platanus Nanus, true climbing variety, 2 1/2 inch pots, \$7.00 per 100. Adiantum Cognatum, 2 inch, \$3.00 per 100; 2 1/2 inch, \$4.00 per 100. Mixed Ferns, for terraries, \$2.00 per 100. N. Y. Sain Germaine, 2 inch pots, \$2.50 per 100. TERMS CASH G. R. O. D.

C. MERKEL & SON, Mentor, Ohio. When Writing Mention Florists' Exchange

SMILAX! SMILAX!

Extra 2 in., \$1.50 per 100; \$10.00 per 1000; \$25.00 per 3000.

GLADIOLI BULBS May, White and Light Yellow, Fine Mixed.

Now Ready.

BETSCHER BROS., Canal Dover, Ohio. When Writing Mention Florists' Exchange

ASPARAGUS PLUMOSUS NANUS

[True] transplanted seedling plants now ready, \$3.00 per 100; \$25.00 per 1000; 500 at thousand rates. SEEDS of same, \$10.00 per 1000. Cash with order from unknown correspondents. R. ASMUS, - NEW DURHAM, N. J. When Writing Mention Florists' Exchange

10,000 HARDY PINKS

Field-grown alums, Her Majesty and the New Crimson Sprig, A. Waterloo, 2 1/2 inch pots, \$3.00 per 100. Fuchsias, in variety, labeled, 2 1/2 inch pots, \$2.00 per 100. Geraniums, in 40 best sorts labeled, \$2.50 per 100; 8 inch, \$4.00 per 100. Lantana Borbonica Palm, Well grown, strong and strong, 2 1/2 inch, \$4.00 per 100; 3 inch, \$4.00 per 100. Pandanus Urtis, Strong, well grown, 2 1/2 inch, \$2.00 per 100; 3 inch, \$3.00 per 100; 4 inch, \$3.00 per 100. Asparagus Sprengeri. Specimens in 4 inch pots, \$0.90 per dozen. Rubber Plants, Well grown, heavy set, perfect plants, 2 1/2 inches high, 6 inch pots, \$0.50 per dozen. Surfition-Guaranteed.

A. B. DAVIS & SON, (New York, N. Y.) When Writing Mention Florists' Exchange

SALE OF PALMS! ON THURSDAY, NOV 4, at 11 A. M.

WILL OFFER AT THEIR SALESROOMS, 60 ESEY STREET, NEW YORK, A FINE COLLECTION OF PALMS, RUBBERS AND OTHER DECORATIVE PLANTS, FROM WM. K. HARRIS AND ROBT. CRAIG, Phila., Pa.

The list of plants to be sold on this date is too large to be enumerated here but a descriptive catalogue will be mailed on application.

It embraces many large specimen Arcas, Latanias, Kenias, Scaforthias, Pandanus, etc., etc., as well as thousands of smaller sizes for commercial purposes. Cocos Weddiana in any size, Nephrolepis, all varieties, Crotons, Asparagus, Orange Trees in fruit, etc., etc. It is unnecessary to speak of the stock, the growers' reputations for growth wide and speed for shipment.

Make special note of the date, THURSDAY, NOVEMBER 4th, and do not overlook this, the last Philadelphia sale of the current season.

CLEARLY & CO. Auctioneers, 60 Vesey St., New York. When Writing Mention Florists' Exchange

# BOUQUINNEAS!

## CLABRA (?) and CLABRA SANDERIANA.

These plants are found to become leading florists' favorites. The beauty and durability of their bracts, combined with their protracted flowering season, make them especially valuable for florists' use for pot plants or for "cutting" purposes. In past seasons our plants have flowered almost continuously from Christmas to July, entire bouquets being available for June decorations. This season the 5 inch stock size promise of Christmas Broom. Both varieties are not only rapidly growing, very easily handled, but subject to any insect pests, and not at all particular as to temperature.

For best results, they should be occasionally watered, not trouble watered to flower them, and can be held for four to six weeks, if necessary.

Send for Circular of "FACTS AND COMMENTS."

WE OFFER NICE STOCK OF BOTH VARIETIES, FROM 5 INCH POTS.

Price, \$50.00 per 100; 5 Plants at 100 Cts. We mail 4 nice bracted plants of either variety, from 2½ in. pots, for \$1.00, or 12 for \$15.00.

CASH WITH ORDER. THEO. F. BECKERT, Glenfield, Pa. NEVILLE HENDELL, 5 miles below Pittsburg, Pa. When Writing Mention Florists' Exchange

# FRINGED, PERPETUAL BLOOMING HOLLYHOCK, ALLEGHENY

For which Highest Awards were given whenever shown. The Greatest Novelty for 1898. Get your seed now and have plants ready to bring, as in the reading Standard will catalogue this Novelty now and you will consequently have the finest plants from seed. From 2½ inch pots of each size. All of which develop in rosette. The purest and clearest color equal to the most color of the rose. All over better than in Hollyhock. Price 4 or 5 plants at 25¢ from seed. Ask and a trade off from applicant. See Exchange Oct. 16 for list. A. E. Wohler, Altoona, Pa. When Writing Mention Florists' Exchange

# COOLWAS

Philadelphia, best red. Malden's Bush, best pink. Alsace, best white.

Fine plant, SPIRE, ALBETHON WATERER LOGANBERRY TIPS. Ask for prices.

THE CONRAD & JONES CO., WEST GROVE, PA. When Writing Mention Florists' Exchange

# ROSE BUDS FOR NOVEMBER

NOV. 9th to 13th, Inclusive.

INTERNATIONAL COMPETITION IN CHRYSANTHEMUMS.

56 Premiums of \$5.00 each for best 12 Blooms, 12 vases; 1 from each State, Territory and Canadian Province.

\$50.00 SPECIAL PREMIUM FOR BEST 12 BLOOMS

To be Competed for by the Blooms Winning Above Prizes.

PREMIUM LISTS ON APPLICATION.

THE HORTICULTURAL SOCIETY OF CHICAGO, R 202, 185 DEARBORN ST., CHICAGO. When Writing Mention Florists' Exchange

# MIDWINTER STOCK PLANTS

Merry Monarch, Marlow Henderson, Mrs. H. Robinson, 50 cts. per doz.

RIDGLELAND AVENUE GREENHOUSES, 622 64th Avenue, Ost Park, Ill. When Writing Mention Florists' Exchange

# GLOBE STOCK PLANTS FOR DEC.

	Doz. 100
Aldennium Cuneatum. 4 in. pot. \$1.00 \$5.00	
Chrysanthemum Frutescens Hatteriana.....	1.00 8.00
Cyclamen Gigantum.....	6.00 50.00
to color.....	6.00 50.00
mixed.....	3.00 25.00
to color.....	3.00 25.00
mixed.....	2.50 20.00
to color.....	2.50 20.00
Drepana Draco, flowers, 12 in. high.....	2.50 20.00
buds.....	75 6.00
Maranta Bicolor.....	75 6.00
Nephrolepis Exaltata.....	75 6.00
to color.....	3.00 25.00
Rubber Plant.....	3.00 25.00
5 in. pots, 15-21 in. pots, 12 in. high. 250 \$5.00	
"      "      "      "      "      "      "      "      "      "      "      "      "      "      "      "      "	
"      "      "      "      "      "      "      "      "      "      "      "      "      "      "	
"      "      "      "      "      "      "      "      "      "      "      "      "      "	
"      "      "      "      "      "      "      "      "      "      "      "      "      "	
"      "      "      "      "      "      "      "      "      "      "      "      "      "	
"      "      "      "      "      "      "      "      "      "      "      "      "      "	
Cash with order from above catalogue, orders amounting to \$5 and over F. O. B. N. Y. C.	

SEAWANAKA GREENHOUSES, OYSTER BAR, QUEENS CO., N. Y. Jas. C. LARKE, Supl. P. O. Box 54. W. L. SWAN, Prop. When Writing Mention Florists' Exchange

# INDOOR CARNATIONS.

## Indoor Culture.

Indoor culture has been tried at different times by growers in various parts of the country, but, so far, the reports have been unsatisfactory until within the last year or two, when there has been a great change, and in some instances very encouraging results were obtained. Indeed, so well pleased have we been with the present culture, that they warrant the prediction that in a few years hence the majority of carnations will be raised hereafter as stated by me in this column earlier in the season, we have this year experimented in a small way in growing carnations under glass. We had for a number of years been growing buttercup in this way with much better success than when we planted it out in the field; as many of them will grow in the same way can testify.

At first no further thought was given to indoor culture, but, in 1897, we were in Buttercup beyond believing that indoor culture suited it best. The idea that many other carnations, and possibly all others, would do equally as well, or better, was hardly thought of. The carnation has been described and classified essentially an outdoor plant; and the idea that growing it entirely under glass was quite new to me. It is a carnation quite fixed in the minds of growers generally, that it is little wonder that indoor culture has made but very little progress.

Now let us examine the difference of the two situations: first, out in the field and second, under glass. In the former we have only two advantages which we do not enjoy to the fullest extent in the house: these are room and an unrestricted circulation of atmosphere, thus insuring a tougher and sturdier plant, cooler than we could expect under glass. If there are no extremes of drought or moisture the plant will be much sturdier, make a sturdier and larger growth in the field than they would in the house; but if there are extremes of either, they will die. Perhaps not more than once in four years. And if we do not have one very hard one during the winter, it will be ourselves very fortunate indeed. Thus if we average the four years up, we can expect most excellent results. While a certain proportion will die and others remain small or become distorted or crippled. I have not tried to dry the plants darker than it really is, but believe that I have only at times dried them too really, and I feel sure that the majority of growers will bear me out in this particular.

Now let us look at the situation of things as we will find them in the house. Suppose we plant our carnations during June 1 or a little earlier, or later, as convenience may dictate. There is nothing to hinder in fact, excepting the weather good as our knowledge of preparing it can make it. In this respect we stand on an equal footing with the carnations in all other respects, we have decided advantages when we resort to indoor culture, and that is, in the planting, we can make a great deal of growth during the hot portion of the season, but neither will we suffer in cold weather, for the conditions are such as to promote a rapid substantial growth outside, the season will be the same in the house.

But while they may not make much growth during the first part of the season, which is generally the best season, they will during all this time, be establishing themselves in the soil, thus getting ready to start growing when favorable conditions present themselves. A rapid growth during the first part of the season, which is generally the best season, will be the same in the house. But while they may not make much growth during the first part of the season, which is generally the best season, they will during all this time, be establishing themselves in the soil, thus getting ready to start growing when favorable conditions present themselves. A rapid growth during the first part of the season, which is generally the best season, will be the same in the house.

The advantages of indoor culture briefly summed up are: first, having the plants under glass during the winter, thus giving opportunity to note their changes, and taking plants when and which may demand attention; second, the ability to keep the soil in the best condition, and to exercise direct control of the allotment of water for each plant, thus keeping the soil in the best condition to produce the most uniform and best quality of carnations; and third (which is perhaps the most important of all), the almost perfect control of the weather and atmosphere.

ROOFTED CUTTINGS.  
**Rex Begonia, Mrs. Pollock Silver** 2500 Vines, strong 25¢ each pot. 1000 Vines, strong 25¢ each pot.  
**Lemon Verbenas, Vluch, Var.** \$1.50 per 1000.  
Terms Cash or C. O. D.  
**GREENE & UNDERHILL, Watertown, N. Y.**  
When Writing Mention Florists' Exchange

There are responsible to a very large extent for all the fungous diseases to which the carnation is subject. Since it is our worst diseases we have to deal with in the culture of the carnation, are the result of indoor atmospheric conditions, can be seen at a glance that the almost perfect control of the atmosphere in the house, under glass, at once makes it possible for the carnation to exhibit such vigor of health and thrive if the surrounding atmosphere is kept at such a level.

It is due to this fact that plants which have been raised under glass and given proper treatment, will almost invariably exhibit bright, clean foliage, entirely free from any disease, and are equally suitable for the carnation to exhibit such vigor of health and thrive if the surrounding atmosphere is kept at such a level. The plants which indoor culture do not make as heavy or sturdy growth as those raised in the field, have to have the atmosphere circulate as freely as out-of-door air. However, it is not necessary so strong enough to support the flower.

I believe that we must look to perfect ventilation and control of the atmosphere if we would improve very much over the present system of growing carnations. A house having a continuous ventilator at the ridge might be termed a fairly well ventilated house. It is no means perfect when we attempt to grow the carnation. This plant, above all others, cannot stand a change in the atmosphere; for this reason we never find it flourishing where there are large numbers of other plants, which may be doing finely.

For perfect carnation culture under glass, a bellows ventilator is of absolute necessity, and that it should come directly over the plants. I have before recommended a continuous ventilator, but after the past Summer's experience with side ventilation, I give it the preference, because it comes directly in contact with the plants, which is the object we are aiming for in the carnation culture.

We propose to remodel all of our carnation houses to the extent of adding a bellows ventilator on each end of the house, either side, deep enough to take up the space between the top of the benches and the roof. These ventilators will, I believe, thus be fitted with ventilating appliances so they can be easily and readily changed to suit the weather and all weather will be the only times these ventilators will be used, and while they will be used only in the winter, the heavy enough, the results derived from the increased light and air will, I am sure, more than make up for the loss.

In our experiment we have tried some twenty varieties. Those named "Monte Carlo," "Duchess," "Duchess" and have made the best growth. Among them are Victor, Emma, Ruby, and the variety from Duxbury and Baltimore. All of these are in excellent condition and look better than plants of the same variety when the latter are in the field. Some do not show as bright, clean foliage as those

"Not having room earlier the majority of our plants are planted in the field, notwithstanding the lateness of the season, they are almost, without exception, more sturdy than those of Harry's White, Triumph, and Armistead look particularly well.

Plants which have a tendency to grow weak and those which seem to be subject to stem rot are probably the most numerous. The same may be said of many of the varieties. In Helen Keller not a plant in fifty has died, but all are healthy and strong. The same may be said of Dazzle, which is usually much subject to stem rot, but in about forty per cent of the plants raised, we have shown signs of the disease yet.

We have not been able to give as satisfactory a test as we would like, and we believe a further test under more favorable circumstances will produce even better results.

"With indoor culture watering becomes a very nice operation. The small plants are not watered so much as those in the field to moisten the soil in the immediate vicinity of the plants. The plants which are raised under glass, and as the roots develop and the plant attains size, water is given freely, and in the same way the water is given throughout the Summer is beneficial, but it should be discontinued so soon as the plants are well established, and we could advocate early planting, and believe that this system of culture will suit us to a better method of growing carnations.

The disposition of the old plants will be the nature of a drawback to indoor culture, as a majority of these still pay a

profit until the Summer is well along. There are very few places, however, which could not arrange to dispense with about one-third or one-half of their stock to make room for the young plants, leaving the rest of the houses to be filled with bold-grown plants.

As an experiment, I would not advise any one to plant more than one house, and not to condemn the system without first giving it a fair trial. H. WEBER.

**GRALLERT & CO.**  
**CARNATION GROWERS**  
 COLMA, SAN MATEO CAL.  
 When Writing Mention Florists' Exchange

**H. WEBER & SONS,**  
**CARNATIONS**  
 OAKLAND, MD.  
 When Writing Mention Florists' Exchange

**MODEL CARNATION SUPPORT**  
 Affords perfect support, admits plenty of light and free circulation of air. Dumbbells lightness, strength and durability, easily raised gradually as the plant grows. Pa. Enclosed packed in small space. A third circle can be supplied for extra tall plants.



GREENS, N. Y. Feb. 18, '97.  
 Mr. Theron Parker, Brook-  
 lyn, N. Y. Dear Sir:—I have  
 tested your latest model of  
 carnation support, and am free  
 to say I consider it the best  
 wire carnation support that I  
 have ever seen. It is quickly  
 and easily applied and will  
 prove very durable, and  
 will give the grower great  
 credit for the invention.  
 Very truly yours,  
 C. W. WARO.

FLAUBERT, BROOKLYN, N. Y.  
 Feb. 18, '97.  
 Mr. Theron Parker, Brook-  
 lyn, N. Y. Dear Sir:—I have  
 tested your latest model of  
 carnation support, and am free  
 to say I consider it the best  
 wire carnation support that I  
 have ever seen. It is quickly  
 and easily applied and will  
 prove very durable, and  
 will give the grower great  
 credit for the invention.  
 Very truly yours,  
 C. W. WARO.

W. HOOPER, N. Y. Feb. 18, '97.  
 Mr. Theron Parker, Brook-  
 lyn, N. Y. Dear Sir:—I have  
 tested your latest model of  
 carnation support, and am free  
 to say I consider it the best  
 wire carnation support that I  
 have ever seen. It is quickly  
 and easily applied and will  
 prove very durable, and  
 will give the grower great  
 credit for the invention.  
 Very truly yours,  
 C. W. WARO.

W. HOOPER, N. Y. Feb. 18, '97.  
 Mr. Theron Parker, Brook-  
 lyn, N. Y. Dear Sir:—I have  
 tested your latest model of  
 carnation support, and am free  
 to say I consider it the best  
 wire carnation support that I  
 have ever seen. It is quickly  
 and easily applied and will  
 prove very durable, and  
 will give the grower great  
 credit for the invention.  
 Very truly yours,  
 C. W. WARO.

W. HOOPER, N. Y. Feb. 18, '97.  
 Mr. Theron Parker, Brook-  
 lyn, N. Y. Dear Sir:—I have  
 tested your latest model of  
 carnation support, and am free  
 to say I consider it the best  
 wire carnation support that I  
 have ever seen. It is quickly  
 and easily applied and will  
 prove very durable, and  
 will give the grower great  
 credit for the invention.  
 Very truly yours,  
 C. W. WARO.

W. HOOPER, N. Y. Feb. 18, '97.  
 Mr. Theron Parker, Brook-  
 lyn, N. Y. Dear Sir:—I have  
 tested your latest model of  
 carnation support, and am free  
 to say I consider it the best  
 wire carnation support that I  
 have ever seen. It is quickly  
 and easily applied and will  
 prove very durable, and  
 will give the grower great  
 credit for the invention.  
 Very truly yours,  
 C. W. WARO.

W. HOOPER, N. Y. Feb. 18, '97.  
 Mr. Theron Parker, Brook-  
 lyn, N. Y. Dear Sir:—I have  
 tested your latest model of  
 carnation support, and am free  
 to say I consider it the best  
 wire carnation support that I  
 have ever seen. It is quickly  
 and easily applied and will  
 prove very durable, and  
 will give the grower great  
 credit for the invention.  
 Very truly yours,  
 C. W. WARO.

W. HOOPER, N. Y. Feb. 18, '97.  
 Mr. Theron Parker, Brook-  
 lyn, N. Y. Dear Sir:—I have  
 tested your latest model of  
 carnation support, and am free  
 to say I consider it the best  
 wire carnation support that I  
 have ever seen. It is quickly  
 and easily applied and will  
 prove very durable, and  
 will give the grower great  
 credit for the invention.  
 Very truly yours,  
 C. W. WARO.

W. HOOPER, N. Y. Feb. 18, '97.  
 Mr. Theron Parker, Brook-  
 lyn, N. Y. Dear Sir:—I have  
 tested your latest model of  
 carnation support, and am free  
 to say I consider it the best  
 wire carnation support that I  
 have ever seen. It is quickly  
 and easily applied and will  
 prove very durable, and  
 will give the grower great  
 credit for the invention.  
 Very truly yours,  
 C. W. WARO.

W. HOOPER, N. Y. Feb. 18, '97.  
 Mr. Theron Parker, Brook-  
 lyn, N. Y. Dear Sir:—I have  
 tested your latest model of  
 carnation support, and am free  
 to say I consider it the best  
 wire carnation support that I  
 have ever seen. It is quickly  
 and easily applied and will  
 prove very durable, and  
 will give the grower great  
 credit for the invention.  
 Very truly yours,  
 C. W. WARO.

W. HOOPER, N. Y. Feb. 18, '97.  
 Mr. Theron Parker, Brook-  
 lyn, N. Y. Dear Sir:—I have  
 tested your latest model of  
 carnation support, and am free  
 to say I consider it the best  
 wire carnation support that I  
 have ever seen. It is quickly  
 and easily applied and will  
 prove very durable, and  
 will give the grower great  
 credit for the invention.  
 Very truly yours,  
 C. W. WARO.

W. HOOPER, N. Y. Feb. 18, '97.  
 Mr. Theron Parker, Brook-  
 lyn, N. Y. Dear Sir:—I have  
 tested your latest model of  
 carnation support, and am free  
 to say I consider it the best  
 wire carnation support that I  
 have ever seen. It is quickly  
 and easily applied and will  
 prove very durable, and  
 will give the grower great  
 credit for the invention.  
 Very truly yours,  
 C. W. WARO.

W. HOOPER, N. Y. Feb. 18, '97.  
 Mr. Theron Parker, Brook-  
 lyn, N. Y. Dear Sir:—I have  
 tested your latest model of  
 carnation support, and am free  
 to say I consider it the best  
 wire carnation support that I  
 have ever seen. It is quickly  
 and easily applied and will  
 prove very durable, and  
 will give the grower great  
 credit for the invention.  
 Very truly yours,  
 C. W. WARO.

W. HOOPER, N. Y. Feb. 18, '97.  
 Mr. Theron Parker, Brook-  
 lyn, N. Y. Dear Sir:—I have  
 tested your latest model of  
 carnation support, and am free  
 to say I consider it the best  
 wire carnation support that I  
 have ever seen. It is quickly  
 and easily applied and will  
 prove very durable, and  
 will give the grower great  
 credit for the invention.  
 Very truly yours,  
 C. W. WARO.

W. HOOPER, N. Y. Feb. 18, '97.  
 Mr. Theron Parker, Brook-  
 lyn, N. Y. Dear Sir:—I have  
 tested your latest model of  
 carnation support, and am free  
 to say I consider it the best  
 wire carnation support that I  
 have ever seen. It is quickly  
 and easily applied and will  
 prove very durable, and  
 will give the grower great  
 credit for the invention.  
 Very truly yours,  
 C. W. WARO.

W. HOOPER, N. Y. Feb. 18, '97.  
 Mr. Theron Parker, Brook-  
 lyn, N. Y. Dear Sir:—I have  
 tested your latest model of  
 carnation support, and am free  
 to say I consider it the best  
 wire carnation support that I  
 have ever seen. It is quickly  
 and easily applied and will  
 prove very durable, and  
 will give the grower great  
 credit for the invention.  
 Very truly yours,  
 C. W. WARO.

W. HOOPER, N. Y. Feb. 18, '97.  
 Mr. Theron Parker, Brook-  
 lyn, N. Y. Dear Sir:—I have  
 tested your latest model of  
 carnation support, and am free  
 to say I consider it the best  
 wire carnation support that I  
 have ever seen. It is quickly  
 and easily applied and will  
 prove very durable, and  
 will give the grower great  
 credit for the invention.  
 Very truly yours,  
 C. W. WARO.

**GARNATION STAKE!**

THIS STAKE is made of one piece of wire, No. 12 galvanized neatly packed in bunches of 50, for the field or on benches. It is easily worked about, more quickly applied than anything we know of. Sample 10c. 4c Write for prices on large quantities.

Will exchange for Scott & McGowan plants.

**MYERS BROS.,**  
 Florists,  
 ALTONA, PA.

When Writing Mention Florists' Exchange

**CARNATIONS.**

Eldorado, Capt. Jack, Louisa, Loe Haetzel, Portia, Helen Keller, North P. Fish, Thos. Cartledge, for cash. \$4 per 100; \$25 per 1000.

R. H. MURPHY, - Urbana, Ohio.  
 When Writing Mention Florists' Exchange

**CARNATIONS**

F. DORNER & SONS CO.,  
 La Fayette, Ind.

When Writing Mention Florists' Exchange

**CARNATIONS and CYCLAMEN**

CARNATION - First-class field-grown; no mat. Scott, Alaska, Meteor, 40 per 100; 400 per 1000. Albertini, Birdsmat, 47 per 100; 400 per 1000.

J. C. BURROW, Agent, Fishkill, N. Y.  
 When Writing Mention Florists' Exchange

**Field-Grown Carnations Plants.**

Portia, Wm. Scott, Lizzie McGowan, Haystack, Alaska, Fallow Red, Orange Blossom, Mrs. Fisher, at \$4.00 per 100, at \$3.00 per 100.

CEO. B. WHITEHEAD,  
 Lock Box 16. Greens Farms, Conn.  
 When Writing Mention Florists' Exchange

**Carnations and Ferns.**

Scott, Portia and McGowan. 1st quality, \$4.00 per 100; \$35.00 per 1000. 2d " " " " 3.00 " " 25.00 " "

Adiantum Cucumet. Seedlings, \$1.25 per 100; \$10.00 per 1000. 3 in. pots, 6.00 " 50.00 " " 10.00 " " 50.00 " "

Adiantum Pubescens, Pteris Ovaroid, Pteris Adiantoides, 2 in. pots, \$3.00 per 100; \$25.00 per 1000

THE BOOL FLORAL CO.,  
 ITHACA, N. Y.  
 When Writing Mention Florists' Exchange

**FINE PLANTS**  
**ARE THE BEST.**  
**ALBERT M. HERR, - - Lancaster, Pa.**  
 When Writing Mention Florists' Exchange

**4 ACRES FIELD-GROWN CARNATION PLANTS, 94,000.**  
 Our Carnations are grown with the greatest care and are first-class plants, free from diseases. We pack light by our improved system of packing by which we send them to all parts of the United States and Canada in perfect condition.

**CRIMSON SPORT. BUTTERCUP. DELLA FOX. ALBERTINI. CHESTER PRIDE. BRIDE OF ERLESWORTH. NICHOLSON.**  
 \$1.25 per doz.; \$6.00 per 100.

**SWEETBRIER. CHESTER PRIDE. MRS. CARNIGIE. SILVER SPRAY. WM. SCOTT. L. L. AMBROSIO. GRACE WILDER. RONALD.**  
 \$1.00 per doz.; \$5.00 per 100; \$45.00 per 1000.

**J. L. DILLON, - - BLOOMSBURG, PA.**  
 When Writing Mention Florists' Exchange

**EXCELSIOR CARNATION SUPPORTS**

OVER ONE MILLION IN USE.  
 10, 13, 18, 20 inches high, \$8.00 per 1000; \$1.00 per 100.

ROSE STAKES of Galvanized Wire, 2 ft., \$5.00 per 1000; 3ft., \$7.00 per 1000; 4 ft., \$8.00 per 1000.

STEMMING WIRE 20 to 24, 55 cts. per stone; \$3 to 36, \$1.50 per stone. 21-23 cut 9 or 12 inches, 75 cts. per box. Not less than 4 lbs. at this price.

GERANIUMS S. A. Nutt, Beante Pollewie, La Favorita, rooted cuttings, \$2.00 per 100; \$15.00 per 1000.

GROUND BONE Guaranteed pure and fine, \$1.00 per 100; \$20.00 per 1000. Sample free.

BULL DOG HOSE 5 and 7 ply, 12 to 15 cts. per foot. Send for sample. We use ship hose from New York City, Cleveland, Chicago, San Francisco or Boston.

**H. F. LITTLEFIELD, Worcester, Mass.**  
 When Writing Mention Florists' Exchange

**CARNATIONS**

To close out, we offer the following Carnations in strong field-grown plants, that were lifted and potted up into five inch pots about the middle of September, and are now stored in cold frames at unusually low prices.

Being established in pots, this stock will stand transportation much better than plants shipped direct from the open ground.

150 Armandy, white, \$5.00 per 100 125 Eldorado, yellow, \$5.00 per 100  
 75 Annie R. Lunadea, white, 5.00 " 25 Helen Keller, striped, 5.00 " " 200 Alaska, white, 5.00 " 275 Opheia, pink, 5.00 " " 200 Annie Webb, crimson, 5.00 " 850 Paris, scarlet, 5.00 " " 200 Buttercup, yellow, 5.00 " 150 Stanley, vermillion, 5.00 " " 100 Birdsmat, pink, 5.00 " 250 Thos. Cartledge, carnine, 5.00 " " 1500 William Scott, pink, 5.00 per 100.

**VIOLETS.** We have still a fine lot of strong, field-grown clumps of Luzenoan Violet at \$8.00 per 100.

**HERMOSA ROSES EXTRA HEAVY TWO YEAR OLD.** We have nearly two acres growing of this best of all market Roses, and offer selected plants, suitable for 6 and 7 inch pots. \$1.50 per doz.; \$12.00 per 100; \$110.00 per 1000. Strong plants for 5 and 6 inch pots, \$1.25 per doz.; \$8.00 per 100; \$70.00 per 1000.

**DEUTZIA GRACILIS FOR FORCING.** A fine lot of shapely plants suitable for 7 inch pots. \$8.00 per 100; \$75.00 per 1000.

**POT-GROWN LILACS FOR FORCING.** A grand lot of pot-grown plants of Charles X. and Marie Legraye. \$6.00 per doz.; \$50.00 per 100.

**HENRY A. DREER, 714 Chestnut St., PHILADELPHIA, PA.**  
 When Writing Mention Florists' Exchange

**HERON PARKER, 82 South Sixth St., Brooklyn, N. Y.**  
 When Writing Mention Florists' Exchange

**MORELLO**

Field-Grown, at \$1.00 per dozen; \$10.00 per 100.

**HOPP & LEMKE,**  
 Paul Post Office. EAST GRAND RAPIDS, MICH  
 When Writing Mention Florists' Exchange

**40,000 Field-Grown Carnations**

CLEAN, HEALTHY STOCK.  
**DAYBREAK ALL SOLD.**

Scott	100	\$2.00	\$20.00
McGowan	100	\$2.50	\$25.00
Mrs. Fisher	100	\$3.00	\$30.00
Portia	100	\$5.00	\$50.00
Tidal Wave	100	\$5.00	\$50.00

**PORTIA.**

We have about 5000 extra fine, large PORTIA.  
**EDW. J. TAYLOR, Southport, Conn.**  
 When Writing Mention Florists' Exchange

**30,000 CARNATIONS**

Field-grown, fine, bushy, healthy plants. No buds on them.

**WELL-GROWN PLANTS. CHEAP FOR CASH.**  
 Alaska, Silver Spray, Hector, Tidal Wave, Meteor, Daisy Bell, Wm. Scott, Iaco, Buttercup, Minnie Cook, T. Cartledge, Mrs. Fisher, Helen Keller, Eldo ado, A. Lonsdale, L. L. Lamborn, Portia, Debutante.

1st size, cash with order, \$5.00 per 100 2d " " " " 3.00 " "

Peach Blow, Emma Wacher, Triumph, Della Fox, Yellow Jacket, 1st size, \$7.00 per 100 2d " " " " 5.00 " "

I study to please every patron and pack carelessly in light boxes. I guarantee every satisfaction and big value for the money. We have three express companies, Adams, American and United States.  
**CHAS. T. SIEBERT, Nos 8 Pittsburg, Pa.**  
 When Writing Mention Florists' Exchange



## By-Laws of Florists' Mutual Fire Insurance Association

ARTICLE I.  
The name of this Association is the Florists' Mutual Fire Insurance Association.

### ARTICLE II.

The objects of this Association are the protection of its members and the florists' trade by insuring their greenhouses and buildings therewith used or connected therewith against loss by Fire and Lightning.

### ARTICLE III.

Sec. 1. The officers of this Association shall be a President, Vice-President, a Secretary, a Treasurer, and a Board of fifteen (15) Directors.

Sec. 2. The Board of Directors and the Secretary shall be elected by the members of the Association at its annual meeting.

Sec. 3. Within twenty (20) days after each annual election the new Board of Directors shall elect a President, a Vice-President and a Treasurer.

### ARTICLE IV.

#### DUTIES OF OFFICERS.

Sec. 1. The President shall be the presiding and executive officer of the Association. He shall have the authority to be signed to all policies and contracts executed by the Association. He shall appoint all warranted agents, and he shall supervise and direct the Secretary in the discharge of the business of the Association. No contract signed by the President shall be deemed executed until the same is filed in the home office and countersigned.

Sec. 2. The Vice-President shall perform all the duties of the President in his absence or during his absence in the case of the death of the President shall succeed him as President.

Sec. 3. It shall be the duty of the Treasurer to safely keep the moneys and securities of the Association, and to pay out its money as directed by warrants drawn upon him by the Secretary, countersigned by the President. He shall not receive any of the securities except upon a warrant from the Secretary, approved by the President. The Treasurer shall, by a majority of its Board of Directors, All moneys of the Association shall be deposited in the name of the Association by him as Treasurer and be paid out on check numbers with like number as warrants drawn on it. He shall report to the Directors and members annually.

Sec. 4. The Secretary shall be the managing officer of the Association, and by contract of the Association shall be deemed executed or binding on the Association until countersigned by him and sealed with the seal of the Association. He shall keep the records of all meetings of the Association and of the Directors and Committees. He shall draw all orders of the Treasurer and present the same to the President to be countersigned. He shall draw all policies of insurance and all contracts for the Association and countersign the same. He shall keep such books and records as the Board of Directors or the business may require. He shall collect and receive all moneys of the Association and take the same over to the Treasurer or other party as directed by the hands and take the Treasurer's receipt therefor. He shall adjust or cause to be adjusted all losses by the supervision of the President. He shall give all the notices required to be given by the Association or its officers. He shall be the only person authorized to approve risks or solicit insurance policies for the Association and shall perform all other things necessary and proper to be done in the conduct of its business not otherwise required.

Sec. 5. All officers of the Association shall carry such bonds with such security as the Board of Directors may require and at the expiration of the respective terms of office shall turn over to their successors all books, papers, and papers which may come into their hands.

### ARTICLE V.

#### INSURANCE POLICIES.

Sec. 1. Policies of Insurance will be issued by this Association insuring its members against loss by Fire and Lightning.

Sec. 2. Such policies will be written

only upon property owned by the insured, and used by him in the growing of plants under glass and in sheds, stables, barns, and dwellings, used in connection therewith.

Sec. 3. For the purpose of fixing the rates to be charged for such insurance the following classification of greenhouses is adopted.

#### CLASSIFICATIONS.

Class I. Greenhouses in good condition, heated by steam, hot air, or both, where boilers, flues, and pipes are properly insulated, with water under pressure. The insured shall be located within the limits of a city or other corporation having a paid fire department. The insured shall be insured on the premises whenever they are heated.

Class 2. Add for no watchman 25 per cent. to rate of premium.

Class 3. Add for no paid fire department 25 per cent. to rate of premium.

Class 4. Add for no water under pressure 25 per cent. to rate of premium.

Class 5. Houses heated by flues to be excluded from insurance.

Kindling wood or other inflammable material, such as shavings, sawdust, steam pipes, or iron flues in contact with woodwork of any description, to entailed obligation of company in case of loss.

Sec. 4. For the same purpose the following classification is adopted for stables, sheds, and dwellings is adopted:

Class A. All brick buildings with slate or metal roofs.

Class B. All brick buildings with shingle roofs.

Class C. All frame buildings with no exposure to other buildings within 50 feet.

Class D. All other buildings.

Sec. 5. The rate of insurance to be charged for all policy holders for the first year they are as follows:

Class A. 35 cents per \$100.  
Class B. 40 " " " "  
Class C. 45 " " " "  
Class D. 50 " " " "

On greenhouses and attached sheds the first year \$11 upon each \$100, on each acre of which sum not less shall be carried to the next year.

After the first year such proportionate amount shall be charged as will produce a net gain of 25 per cent. of the total income to the insured. Should the amount of premium so charged be less than the loss and expenses of the Association, the insured shall pay an assessment not exceeding a full year's premium on such property.

Before the Directors shall make an assessment on its members for alleged non-payment of premium, a majority of the Directors shall make a statement verified by their oaths, exhibiting the amount and nature of the losses sustained, of cash moneys and premium notes on hand, and the gross amount of the assessments to be levied thereon. Such assessment shall be payable within 30 days from the time a notice thereof is given to the Secretary to the policy holder, addressed to the address stated in the application for the insurance.

Sec. 6. Before any policy shall be issued the applicant for insurance shall file with the Secretary a written application duly signed, giving a full description of the property upon which insurance is desired, and the amount of premium as may be required by the blank application submitted for that purpose, or by the Secretary, and the same shall be approved, at once notify the applicant of the amount to be paid, and pay an advanced assessment on such application. Upon receipt of such advanced assessment the policy shall be prepared and forwarded to the applicant, which insurance shall be in force so long as the premium is deposited in the mail by the Secretary.

Sec. 7. The President, Treasurer, and Secretary shall make it their duty to warn the Secretary shall refer all doubtful applications before approving the same. Should the insured's rates upon all risks either less or more

hazardous than those especially described in these by-laws.

Sec. 10. All policies issued by the Association shall be in form adopted by the Board of Directors and shall insure the assured against loss by Fire or Lightning, and shall be subject to the same policy thereof unless sooner terminated under the by-laws of the Association. After the expiration of said seven years said policy may be renewed for a second year of endorsement thereon by the Secretary.

Sec. 11. Each policy issued for a period of seven years shall be subject to assessment at such time or times as the needs of the Association requires herein provided, that the insured shall have notified the Secretary shall at once notify by mail all persons liable to pay the same within 30 days from the mailing of such notice. Should such assessment not be paid within said 30 days by any person, his policy shall thereby be suspended, and while such assessment so remains unpaid the Association shall not be liable thereon. If said assessment is paid, the policy shall be reinstated without liability on the part of the Association for the amount of the assessment so assessed and paid. If said assessment remains unpaid for a period of 90 days from the mailing of such notice, the insured shall be notified and cannot be reinstated, but a new policy may be issued.

Sec. 12. No assessment of \$5,000 or insurance shall be taken upon any building or other structure entirely detached from each other.

Sec. 13. No member of this Association shall have any obligation to any other member thereof to be liable for any amount or insured or insuring therein, except for the payment of assessments held while in arrears.

### ARTICLE VI.

#### ELECTIONS.

Sec. 1. Upon all elections and questions that come before the Association each member of the Association shall be entitled to one vote by having \$1,000 of insurance held by him or fraction thereof over \$500, provided further that no person shall be entitled to cast more than one vote. But members may vote by proxy by filing their written proxy or a copy thereof with the Secretary 10 days before the meeting at which the stock is voted.

Sec. 2. All elections of officers shall be held in the state of Indiana, but it is desirable that the meetings may be held in other states, the Trustees are hereby authorized to call meetings of the members at any place of the Union, preferably at the meetings of the A. O. U. A preliminary election is desired to be held at such meeting the members shall, instead of balloting in the usual form, give the Secretary their written ballot or proxy, and shall indicate the ballot for the persons of their choice for the various offices, and the Secretary shall on ten days thereafter, call and vote said proxies as so directed, and no proxy not voted at said meeting shall be counted in said Secretary shall vote said proxies.

Sec. 3. The Secretary shall give notice of all meetings to be held by the members by publication in the florists' trade papers in the two weekly issues thereof preceding such election.

### ARTICLE VII.

#### COMPENSATION OF OFFICERS.

The officers and the members of committees shall not receive any compensation as may be fixed by the Board of Directors from time to time.

### ARTICLE VIII.

This Association shall have no agent except the Secretary.

### ARTICLE IX.

#### ADJUSTERS.

The President shall file with the Secretary a list of the names of the proposed adjusters for the Association in their various localities. When a loss occurs on the part of the insured, the insured shall convene an adjuster who shall attend and adjust the loss if required, and shall have the same service as the Board of Directors may fix.

### ARTICLE X.

Twenty-five per cent. of all premiums paid shall be credited to the reserve fund, and the same shall be subject to the will of the Board of Directors with the approval of the Board of Direc-

tors, and all the interest and profits earned shall be added to said reserve fund. This reserve fund shall not be called upon until the amount of such reserve is insufficient to meet claims for losses and expenses.

### ARTICLE XI.

#### RULES AND REGULATIONS.

Sec. 1. The Board of Directors may from time to time adopt such forms and regulations as may be deemed necessary for the conduct of the business of the Association as they may find necessary, not in conflict with the by-laws of the Association, and so adopted they shall have the force of by-laws until repealed by the Directors or members of the Association.

### ARTICLE XII.

Sec. 1. These by-laws may be amended at any annual meeting of the members of the Association or at any special meeting of the members thereof, of which special meeting 30 days' notice shall be given of the time and place of the meeting and the substance of the proposed change.

### American Institute Show.

The Chrysanthemum Show at the American Institute Fair, Madison Square, New York, was held on Saturday, and the sanguine expectations of those interested. The exhibition demonstrated beyond any doubt the superiority of the plants, and that it is no longer necessary to wait mail far on into November to receive the plants, but that the plants, blooms, for many of those staged on the day mentioned were equal to the best.

The competition in the various classes was more keenly contested than in the previous year, and the result was a secured first in each class in which he competed. For the best five vases, six (6) in all, the first prize was awarded to Vivian-Mordel, Frank Hardy, Miss Georgienne Braunhall, and Mrs. Henry Bellonius, and the second prize to Mrs. L. Park and the smaller Robinsons, than those in the first prize lot. On the other hand, the first prize was awarded to Mrs. Sanderbruech were wonderful; their vase of Dorothy Spaulding being also good as well as the vase of Mrs. D. Willis James. In this class John N. May also staged some fine blooms. For the best three varieties of the class, Mrs. D. Willis James, Mrs. L. Park and Mrs. Herrington was strong with Vivian-Mordel.

For the best yellow, Ernest Assame, West Hoboken, staged Mrs. Trainor L. Park and Mr. Herrington Major Bonnaton. Both were excellent flowers, but the age of the plants was a disadvantage, and Mrs. Bonnaton would have been a better aspirant. In the judging bed deferred to the next day, Mrs. L. Sanderbruech would have been a better aspirant. In the judging bed deferred to the next day, Mrs. L. Sanderbruech would have been a better aspirant. In the judging bed deferred to the next day, Mrs. L. Sanderbruech would have been a better aspirant.

Dalleidouze Bros. were first for pink with six grand blooms of Glory of the West.

Mr. Herrington was again first for white with excellent blooms of Mrs. Trainor L. Park and Mr. Herrington Major Bonnaton. For any other color, Robert Larrig, gardener to Cornelius Vanderbill, Esq., staged a fine white flower, Mrs. Kay, staging the same blooms that had been exhibited on Saturday, but despite their age they were first in the class in perfect condition; G. Hale, Bellport, L. I., was second; he also exhibited the same pink with white variegated flowers. He had a number of blooms, not for competition, for which he was awarded the medal of excellence.

A. D. Rose, 200 West Side Avenue, Jersey City, was first for pom-pom and hardy flowers with a fine variety of the same. In the rose class E. R. Pierson Co., Ferrytown, again secured first honors for the best variety of the same, Mrs. Bonnaton, consecutive times, beating L. M. Noe, Madison, N. J. The first named firm also secured first honors for the best number of blooms on Meteor.

John H. Taylor and E. H. Bredman, John N. May and L. M. Noe being second in the various classes, the first prize for the President Carnot. J. H. Taylor exhibited a charming lot of his new rose, the Carnot.

In carnations Dalleidouze Bros. were

first in classes for six and three, with blooms of wonderful quality considering the early date. Their best flowers were Whitecap, Riley, McGowan, Flora Hill and Mianle Cook. H. Weber & Son, Oakland, Md., were by no means a poor second in the two classes. Their blooms of Mrs. G. Braid and Flora Hill were grand.

Joseph Hilbert, Nyack, N. Y., was awarded a diploma for an exhibit of Scabrousus, including his new lavender colored sport, which for its distinctiveness was also awarded a certificate. It is said to be a sport from the white form; and in addition to its distinct lavender color it is much dwarfier in its habit and is admirably adapted for pot culture.

M. J. Moore, Highlands, N. Y., was awarded a diploma for two bunches of Marie Louise violets. These were of superb quality and were marvells in regard to budding. G. Smith, Orange, N. J., was awarded a cultural certificate for a group of carnations. A similar award also went to C. Beschi, Mineola, L. I., for a display of his carnation Mrs. Janet.

A first-class certificate was awarded to a new hybrid cypripedium named Anna Savage, the cross being C. Curtisii, with Charles Canham, George Savage, Rochester, exhibited this.

For the best table of orchids and ferns, A. Herrington secured the Society's medal of superiority, for what was one of the grandest exhibits of the entire season. His Cattleya labinata were splendid. Other good pieces were Odontoglossum grand, Oncidium ornithobium, and Cypripedium luridum purpuratum.

In foliage plants, Julius Roehrs, Carlton Hill, N. J., put up a superb group on the stage, covering 400 square feet. For general display of stock and arrangement this was a grand lot and well deserved the premier award and medal of superiority. John Scott, Keap street greenhouse, Brooklyn, exhibited a group covering 250 square feet. This was composed of a fine line of general commercial stock in fine condition. He was awarded the medal of excellence and a diploma for Aranea compacta and pandanus. The F. R. Pierson Co. also continued their groups of foliage and coniferous plants.

### Seedling Chrysanthemums

CHICAGO.—There were five exhibits before this committee on October 23. E. G. Hill & Co., Richmond, Ind., sent Australian Gold, incurred light yellow, six to seven inches in diameter, with stout stem, the flower being held up well; R. W. Emerson, of very similar type and size to the foregoing, with a deeper golden center fading out to a lighter shade on the outer edge of the flower; Solar Queen, color a deeper yellow than that of Australian Gold, something of the



Mrs. Henry Robinson.

Viviani-Morel.

Miss Georgienne Bramhall.

Winners of Silver Cup of Chrysanthemum Society of America, at Madison Square Garden, New York, Oct. 21, 1897.

shade of Yellow Queen, as exhibited of somewhat flat shape at the crown, better petalage than either of the two others, hence not so likely to drop its petals as those of the Mrs. Robinson type appear to do; leaves very broad, and well up to the flower, neck short, holding up the seven-inch flower perfectly; H. W. Longfellow, flower similar in type, petals, rather narrower, rather small o'clock-like, but abundant, and well up to the flower; stem stout, and if there is any place for a dull ivory white as against the purer color, it may find a place, as the incurved flower is of good size, with plenty of petalage.

Mrs. O. P. Bassett, from Bassett & Washburn, is a yellow sport of Mrs. Robinson, with all the characteristics of its parent, save color, which is a light primrose-yellow. Ess.

NEW YORK.—Five new kinds were presented before the committee on Saturday, October 23. Three of these came from E. G. Hill & Co., Richmond, Ind.; W. Hillebrecht, Union, N. J., and Robert Laurie, Newport, R. I., contributing the

remaining two. Mr. Hill's set arrived in grand condition, especially his Solar Queen. This is an attractive yellow incurving Japanese, of good size and substance, first-class stem and foliage. His European variety, Australian Gold, also scored well. Judging from those and other blooms of this variety seen on exhibition it is likely to be a grand exhibition bloom, its only fault being a rather long and bare neck. The type is Japanese. H. W. Longfellow is an incurving white and having Robinson as a guide it fails to come anywhere near the standard required; its only favorable point over the variety named would be its grand stem and foliage.

Mr. Hillebrecht's Miss Clara Sevin is a white, bisect variety, but too small to be recognized.

Mr. Laurie's Peter Kay is indeed large enough for all purposes. The variety is a buff-yellow, much after the style of Jeanne Falconer. In fact, it resembles very closely that variety in all points. Its behavior in the exhibition later proves it to be an elegant show bloom, its keeping qualities being remarkable.

The committee will meet for the future at 2 P. M. in the salesrooms of the New York Cut Flower Co., 121 West 23d street.

### Chrysanthemum Society of America.

The committees judging new seedlings will be in session October 30; November 6, 13, 20, and 27.

Exhibitors should make their entries (for which a fee of \$2 is charged for each variety exhibited) to the secretary, not later than Tuesday of the week the blooms are to be shown.

Blooms forwarded to any of the following addresses, express prepaid, will receive careful consideration:

Boston.—A. H. Fewkes, Horticultural Hall.

New York.—Engene Dailledonze, care of New York Cut Flower Co., 121 W. 23d Street.

Philadelphia.—Edwin Lonsdale, 1534 Chestnut street.

Cincinnati.—B. Witterstaetter, corner Fourth and Walnut streets.

Chicago.—W. E. Tadd, room 202, 185 Dearborn street.

### Secretary's Official Report.

Below I give reports of chrysanthemum committees' work for the 23d inst., as far as recorded:

#### CHICAGO.

Miss Clara Sevin, Exhibited by Wm. Hillebrecht, Union, N. J., Japanese Reflexed, white. Scored 72 points.

Peter Kay, Exhibited by Robert Laurie, Newport, R. I., Japanese, amber-yellow. Scored 87 points.

Solar Queen, Exhibited by E. G. Hill & Co., Richmond, Ind., Japanese, yellow. Scored 84 points.

H. W. Longfellow, Exhibited by E. G. Hill & Co., Japanese Incurved, light yellow. Scored 82 points.

Australian Gold, (Importation), Exhibited by E. G. Hill & Co., Japanese, light yellow. Scored 91 points.

#### NEW YORK.

W. H. Longfellow, Exhibited by E. G. Hill & Co., Japanese Incurved, white, pink shadings on lower petals. Scored 85 points.

E. W. Emerson, Exhibited by E. G. Hill & Co., Japanese, white, shading to yellow at center. Scored 80 points.

Australian Gold, Exhibited by E. G. Hill & Co., Japanese Incurved, light yellow. Scored 77 points.

Solar Queen, Exhibited by E. G. Hill & Co., Japanese Incurved, light yellow. Scored 88 points.

Mrs. O. P. Bassett, Exhibited by Bassett & Washburn, H. H. Hinkle, Ill., sport from Mrs. H. Robinson, light yellow. Scored 85 points.

No blooms were presented at Philadelphia and we have no report from Boston or Cincinnati.

ELMER D. SMITH, Secretary.



Maydover.

Ethel Addison.

Major Bonaffon.

Winners of Silver Cup of Chrysanthemum Society of America, at Madison Square Garden, New York, Oct. 21, 1897.

FOR THE FALL SEASON!! PALMS FLOWERING PLANTS

See A. SCHULTHEIS, Collage Point, N.Y. P. O. Box 75, Telephone Call 51 F. Take North Side Division L. J. R. R. or Trolley...

Cyperus Alternifolius.

2 1/2 in. pots, 40 cts. per doz.; \$2.50 per 100. ORVILLEA ROBUSTA, 2 1/2 in. pots, 40 cts. per doz.; \$3.00 per 100. ASPARAGUS TENNISIENSIS, 3 in. pots, 40 cts. per doz.; \$3.00 per 100.

CALIFORNIA VIOLETS, field-grown, \$4.00 per 100. GARNATIONS, Mapledeale (new), \$4.00 per 100. Medium sized plants of the following standard varieties, \$4.00 per 100. Fortia, Wm. Scott, Delta Fox, The Stuart and Tidal Wave...

QUESTION BOX.

OPEN TO ALL . . . FREE TO ALL Answers Solicited from Those Who Know.

(156) Diseased Carnation and Violet Foliage. R.—The violet leaves are attacked by the common fungus disease known as spot. This can only be held in check by picking off the newly diseased leaves and avoiding wetting of the foliage, except under conditions when it will dry off very quickly. Spot is often brought on by the foliage being injured in any way, as by excessive fumigation with tobacco, which injures leaf leaves greatly. Fumigation with tobacco should therefore be avoided and hydrocyanic acid substituted. For directions for using this gas see the EXCHANGER for October 9 and other numbers referred to there. Spot is also briefly discussed in the same number. The carnation leaves sent in by the same party are affected with the disease known as bacteriosis. This particular case was produced by the punctures of aphids. Full discussion of this disease will be found in the EXCHANGER for October 9.

Nephrolepis Exaltata Bostoniensis. The Handsomest Decorative Plant in Cultivation.

\$5.00 per 100; \$40.00 per 1000. MINE IS THE GENUINE STOCK. FRED. C. BECKER, - - - 1730 Cambridge Street, CAMBRIDGE, MASS. When Writing Mention Florists' Exchange

TALIA...

A large stock of ARECA LUTESCENS, LANATA BORBONICA, COCOS WEDDELIANA, Etc., from 10 ins. to 6 feet high. Hardy home-grown bushy fine plants at moderate prices. Send for price list.

FERNS.

In fine assortment, from 2 1/2 in. pots, \$4.00 per 100; \$3.50 per 1000. CHAS. T. DARLING, Stony Brook, L. I. N. Y. When Writing Mention Florists' Exchange

LEMUEL BALL, Wissinoming, Phila., Pa. When Writing Mention Florists' Exchange

PALMS!

Send for Price List. JOSEPH HEACOCK, Wyncote, Pa. When Writing Mention Florists' Exchange

Established 1857. GEO. WITTBOLD, Grower and Importer of TROPICAL PLANTS, 1708 NORTH HALSTED STREET, Corner Aldine Avenue, CHICAGO, ILL.

AZALEA INDOCA

Ready for Delivery. Write us for prices on these; also DUTCH BULBS.

Largest stock of Tropical Plants in the West. The following is a list of our stock. It is in excellent condition, and we are confident that we can please you, both as to quality and value.

L. C. BOBBINK, Rutherford, N. J. The Horticultural Company, Boskew, Holland. When Writing Mention Florists' Exchange

PALMS.

Table with columns: Varieties, Size, Height, Character, Each, Doz., 100. Includes Arcua Lutescens, Corypha Australis, Kentia Belmoreana, Forsteriana, Latania Borbonica, Phoenix Reclutata, and Canariensis.

SWORD FERNS.

Table with columns: Varieties, Size, 1 in., 10 in., 16 in. Includes Nephrolepis exaltata, Nephrolepis acrostichum, and Nephrolepis maculata.

FERNS.

Table with columns: Varieties, Price. Includes Adiantum Cucurbitum, Nephrolepis Exaltata, Nephrolepis acrostichum, Nephrolepis maculata, and Nephrolepis japonicum.

Send for Wholesale and Retail ALMS, etc. W. J. HESSER, Palm Plattsmouth, Neb. When Writing Mention Florists' Exchange

JULIUS ROEHR'S, Palms and Decorative Plants.

RUTHERFORD, N. J. P. O. Address, Carlton Hill, N. J. When Writing Mention Florists' Exchange

100,000 CHOICE FERNS AT ONE CENT.

A great bargain! All 2 or 3 in. pots at once and worth 5 cts. in a week or two; fine little barely planted ferns, including Pteris, Adiantum, Asplenium, Polka, Lonomia, Giza, Nephrolepis Cristatum, Oxyechium Aratum, Pteris Adiantum, Pteris Tremula, Pteris Credita, Alpa, Pteris Argens, Pteris Longifolia, and many numbers of other ferns. \$1.00 per 1000 by express. Sample 100 by mail for \$1.25 in advance. Grow in many sorts, large and full all \$3.50 and many other sorts, \$2.00 per 100; \$25.00 per 1000. Carefully packed. Write for name and address.

MISCELLANEOUS PLANTS.

Asparagus Plumosa Nanaus, from 2 inch pots, Per 100, \$5.00. Cyperus Alternifolius, 4 inch pots, Per doz., 3.00. Pandanus Ullis, 4 inch pots, Per doz., 3.00.

JOHN H. LEY, Code Hope, D. C. When Writing Mention Florists' Exchange

Gloxinias. I thought I had the finest strain of gloxinias to be seen anywhere until I saw a collection last Summer at Montreal, belonging to T. J. Gorman, of Montreal, which broke up my belief in less than 10 minutes. I had seen 2000 gloxinias in that collection were four to five inches across. Probably there was a greater diversity in the color of the blooms in that collection were four to five inches across. I have been sticking to that strain of mine for the past twelve years, and I have been sticking to that theory. I have been sticking to that theory, in saving my collection from what I thought were the best blooms. The doctor's selection did not vary very often you try it, but it has worked this time. Twelve years ago the flowers were much smaller than what they are now, besides, there is a greater diversity of color than there was then. What prompted me to write about gloxinias at the present time is the way my seedlings have behaved this Summer in that new "grow all" called Jaxony. Some people say it will grow anything from a bachelor's button to a Drumhead cabbage. I am not so sure about that yet, but so far I am inclined to the belief that it is a useful article for some things. In the case of gloxinias was sown the surface of the soil in a box containing palm seeds which didn't come up to my expectations. The seeds were sown about the beginning of August, and as soon as large enough to handle the seedlings were placed into tubs, which were about three fourths screened Jaxo to one-third sand. At the present time there are leaves on them three inches across. I have seen several of them are in flower, two and three flowers to a pot. The idea is to let them grow as long as they will, and then pinch them and then gradually dry them off. Some of them now have tubers one inch in diameter.

At first sight the plants look badly in need of a shift; on closer examination, however, the pots are not very full, the roots, and I intend letting them take their chances for the balance of the time they will be left in the tubs. Hitherto my plan of wintering them after they have gone to rest has been to take them out of the pots, wash and put a dozen or so of them into a large flat of coarse-grained sand, standing in a shallow tub, in a cold room house. When wanted for starting, one or more flats can be taken out and the tubs filled into activity by giving them a little water and a position in a warm house where they will remain until ready to start. As soon as they push their growth above the sand they are potted up. Next year the plants will be ready to start. As soon as they push their growth above the sand they are potted up. Next year the plants will be ready to start.

By the way, water on the leaves of gloxinias don't hurt them so much as is generally supposed, that is, if they are not allowed to stand in water. I have done mine through a rose and the leaves get their share of it. Manure water, however, is not so good, because of its tendency to the hairy surface retaining it. It is difficult to wash off thoroughly. For this reason, if you are to use the seed sand should be sown in the Spring. A large seed pan or box should be used so that you can get the bottom of the surface getting suddenly dry.

For perpetuating ferns with extra well shaded or semi shaded cuttings will be the most satisfactory. A full-sized leaf should make about four cuttings. Make them the same shape of a V, the lower part to consist of at least an inch of the midrib with parts of the leaf attached to it on both sides of the margin. Treat them similarly to leaf cuttings of rex begonias. Another method is to lay the cuttings in the bottom of the sand of the propagating bed, having previously made several incisions on the upper part of the midrib. Tubers will form on both cuttings and leaves if properly cared for. No shoots will make their appearance until the tubers have gone through formation.

As soon as the plants in the leaf show signs of growth, they should be entirely withheld; shortly after this the tubers can be extracted and the cuttings placed in the seedling tubs. As the roots of the gloxinia are rather hair-like, they will start very dry. It should be in a condition neither too wet nor too dry. Plenty of drainage and porous material to grow in is also necessary for the result. A shaded, moist, warm house suits them best. Three or four medium-sized tubs will be needed to grow a large quantity. Stay longer in flower, than specimens in single pots. G. W. O.





Boston.

Weather and Trade. This beautiful Indian Summer which for perfection of weather is unequalled in the memory of the oldest inhabitant, has had a most demoralizing effect on the market for trade cut flowers in all the standard lines are coming in to the market in abundance and the dealers are selling at a price far below the demand, unfortunately, is light and the fairs are enjoying an unusually early season. The market for cut flowers is good, while carnations are fully up to the average for October flowers. Chrysanthemums are being sold at a price well above the average. Violets are in sufficient quantity to meet all calls, but the market is still inferior to that of the best and do not bring over 50 cents per 100.

White, of Holbrook, brought in some narcissi on October 23.

W. W. Rawson & Co. are in their new quarters occupying the whole building, Nos. 12 and 13 Faneuil Hall Square. A formal opening to the trade will be announced later.

William Roper, of Tewksbury, is officiating at the Flower Market considerable quantities of plants and flowers which are very promising. One is a large pink flower much resembling the Mrs. N. S. ... to be announced in a few days, the honor of being sponsor having been tendered to a ... is a delicate pink flower, the outer petals being of light lighter shade, the flower very centrally placed and the style ... Emma Wocher.

The New England Florist Co. will hold four exhibitions in this Winter, the first occurring on ... will be new late chrysanthemums, carnations, violets, and geraniums.

Luchs Foster reports an active demand from all sections of the country for ... bostonensis. He has already disposed of his stock from several houses which ... still offers the fern in large or small sizes and in large or small quantities.

A. Galvin, formerly with F. McCarthy & Co., and J. M. Fisher have opened a wholesale florists' and supply store ... 349 Washington street. Tim Waters, ... McCarthy & Co. and Welch Bros., is also connected with the new concern. They ... neat and attractive.

Manager Kennedy of the Flower Market paid a flying visit to his old home in Philadelphia last week.

A delegation representing the Massachusetts Horticultural Society, and a few other invited guests visited the establishment of W. Pearce & Son ... Saturday. The fifteen greenhouse comprising their range were inspected and a lecture on ... pleasant afternoon enjoyed by all the participants. C. J. Dawson is established ... the Boston Park Department, of which J. A. Pettigrew is superintendent. Mr. ... has headquarters at Franklin Park.

The annual Chrysanthemum Show of the Massachusetts Horticultural Society occurs next week Tuesday, Wednesday, Thursday, and Friday. This and the ... the only one of the exhibitions in the year to which the Society demands an admission fee, and the small ... any one who is interested from attending.

The November meeting of the Boston Gardeners and Florists' Club will occur next Tuesday evening. Mr. A. W. Ward ... as a substitute for Potash," but Tuesday is Election Day, and the lecture is ... it, so it is doubtful whether he will be able to be with the Club on that evening.

W. K. W.

Cambridge, Mass.

It would seem that made-up palms had come to stay. The latest is made up ... Doyle's in 9-inch pots that were immense. Mr. Murphy says he has orders for such for certain places. Orchids are

quite a feature here. Some fine spikes of Oncidium, Arctostemum and Dendrobium Schroeders were noted; the plants are well cared for.

St. Paul. Trade on the increase. Chrysanthemums are coming in good quantity and are eagerly sought after; in fact, the supply is not yet equal to the demand, but it is expected that the crop will be largely expanded. The best flowers retail at \$3 to \$4 per dozen. There are some very fine specimens of this season that we can hardly name at the best.

A Rose Trade. Hansen is having trouble with his roses. A sort of stem rot has attacked them. Whether this is due to overwatering, or is some new malady is hard to determine.

H. E. Mills, of the State Nursery Co. of Helena, Mont., was a recent caller.

Philadelphia.

Business on the whole has been much better, but there is such a large quantity of large events are not left. Beauty of extra grade find ready sale, other grades are selling slowly, as are most of the low. Chrysanthemums are coming in in quantity, but the demand is not good and \$3 per dozen is the top figure for the choicest flowers. Pot plants are selling at \$3 per dozen for

Carnations are very plentiful; the choicest flowers are selling at \$7.50 per dozen, the average being \$5 to \$7. Violets are very plentiful and improved. In fact, a few extra large are being sold at 75c. per 100. A Loxanne also being sold at 75c. per 100. Some are being sold at 25c. and 30c. per 100 and not going last at those prices.

Edwin Lonsdale is sending in some good eppyrhimids which sell at \$2.50 per dozen. Some are being sold at \$3.00, but there are also some Charlesworth, Lawrencebaum, and Spiranthes.

Retail stores have been doing better business. Wedding orders have mostly ... cut down to the lowest point. In general, work the Fisher funeral on Tuesday ... view, that we have had for a long time, there being eight carriages full of flowers. Most of this work went to the up-town stores, and was widely distributed. Will Wyatt had fourteen large designs, all ... has started up much better this week. High traham has been very busy with a ... decorations for the cotton manufacturers; he has also had a few large wedding orders, but he is waiting for a lot of work in the decorating line, so it looks as if business were starting up.

Cleveland.

Trade with the retail florists continues bright and much general and decorative work is being done.

The retail trade is bright, and is looking toward an increase.

The chrysanthemum is the flower of the day and is being sold in large quantities, but outside it. Large quantities of excellent stock are on hand.

Some of the down town stores held a ... good stock was offered at 25c. per dozen.

Some of the down town stores held a ... good stock was offered at 25c. per dozen.

Some of the down town stores held a ... good stock was offered at 25c. per dozen.

Some of the down town stores held a ... good stock was offered at 25c. per dozen.

Some of the down town stores held a ... good stock was offered at 25c. per dozen.

Some of the down town stores held a ... good stock was offered at 25c. per dozen.

Some of the down town stores held a ... good stock was offered at 25c. per dozen.

Some of the down town stores held a ... good stock was offered at 25c. per dozen.

Some of the down town stores held a ... good stock was offered at 25c. per dozen.

Some of the down town stores held a ... good stock was offered at 25c. per dozen.

Some of the down town stores held a ... good stock was offered at 25c. per dozen.

Some of the down town stores held a ... good stock was offered at 25c. per dozen.

Some of the down town stores held a ... good stock was offered at 25c. per dozen.

Some of the down town stores held a ... good stock was offered at 25c. per dozen.

Some of the down town stores held a ... good stock was offered at 25c. per dozen.

Some of the down town stores held a ... good stock was offered at 25c. per dozen.

Some of the down town stores held a ... good stock was offered at 25c. per dozen.

Some of the down town stores held a ... good stock was offered at 25c. per dozen.

Some of the down town stores held a ... good stock was offered at 25c. per dozen.

Some of the down town stores held a ... good stock was offered at 25c. per dozen.

Some of the down town stores held a ... good stock was offered at 25c. per dozen.

Some of the down town stores held a ... good stock was offered at 25c. per dozen.

Some of the down town stores held a ... good stock was offered at 25c. per dozen.

Some of the down town stores held a ... good stock was offered at 25c. per dozen.

Some of the down town stores held a ... good stock was offered at 25c. per dozen.

Some of the down town stores held a ... good stock was offered at 25c. per dozen.

Some of the down town stores held a ... good stock was offered at 25c. per dozen.

Some of the down town stores held a ... good stock was offered at 25c. per dozen.

Some of the down town stores held a ... good stock was offered at 25c. per dozen.

Some of the down town stores held a ... good stock was offered at 25c. per dozen.

Some of the down town stores held a ... good stock was offered at 25c. per dozen.

Some of the down town stores held a ... good stock was offered at 25c. per dozen.

Chrysanthemum show is fast approaching and the committees in charge of the various departments are busy arranging the flower assigned to them. The show will be given under the direction of the Executive Committee of the Florists' Club. This committee was recently appointed and consists of the following: President, William Wilson, chairman, James Eadie, Gordon Gray, William Shide, E. J. Frolick, William ...

New Greenhouses. James Wilson, formerly of the Williams-Wilson Co., this city, recently erected the ...

Index to Advertisers.

Table listing names and addresses of advertisers, including Allyn, Allyn & Co., and various florists.

Index to Advertisers.

Table listing names and addresses of advertisers, including Allyn, Allyn & Co., and various florists.

Index to Advertisers.

Table listing names and addresses of advertisers, including Allyn, Allyn & Co., and various florists.

Index to Advertisers.

Table listing names and addresses of advertisers, including Allyn, Allyn & Co., and various florists.

Index to Advertisers.

Table listing names and addresses of advertisers, including Allyn, Allyn & Co., and various florists.

Index to Advertisers.

Table listing names and addresses of advertisers, including Allyn, Allyn & Co., and various florists.

Index to Advertisers.

Table listing names and addresses of advertisers, including Allyn, Allyn & Co., and various florists.

Index to Advertisers.

Table listing names and addresses of advertisers, including Allyn, Allyn & Co., and various florists.

Table listing names and addresses of advertisers, including Allyn, Allyn & Co., and various florists.

Index to Advertisers.

Table listing names and addresses of advertisers, including Allyn, Allyn & Co., and various florists.

Index to Advertisers.

Table listing names and addresses of advertisers, including Allyn, Allyn & Co., and various florists.

Index to Advertisers.

Table listing names and addresses of advertisers, including Allyn, Allyn & Co., and various florists.

Index to Advertisers.

Table listing names and addresses of advertisers, including Allyn, Allyn & Co., and various florists.

Index to Advertisers.

Table listing names and addresses of advertisers, including Allyn, Allyn & Co., and various florists.

Index to Advertisers.

Table listing names and addresses of advertisers, including Allyn, Allyn & Co., and various florists.

Index to Advertisers.

Table listing names and addresses of advertisers, including Allyn, Allyn & Co., and various florists.

Index to Advertisers.

Table listing names and addresses of advertisers, including Allyn, Allyn & Co., and various florists.

PANSIES Strong plants from seed of my own growing from the best strains to date. \$4.00 per 100; 50 cts. per 100 in pots. W. J. ENGLE, Box 211, Dayton, O. When Writing Mention Florists' Exchange

PANSIES WORTH RAISING

Good plants, \$2.50 per 100, or \$1.50 per 50. Large plants, \$1.00 per 100, or \$2.50 per 50. Blooming plants, \$1.50 per 100. Seed as usual. Cash with order. F. O. T. Express.

C. SOLTAU & CO., 159 Grant Avenue, JERSEY CITY, N. J. When Writing Mention Florists' Exchange

PANSIES!

ROEMER'S SUPERB PRIZE PANSIES.

This strain includes all the leading novelties, strong bushy plants, 6 cts. each, or \$2.50 per 100; \$2.00 per 50; 75 cts. per 100; \$4.00 per 100; \$1.00 per 50, by express. Seed, 14 cents, 1 1/2; packet of 500 seed, \$1.00. CASH WITH ORDER.

PETER BROWN, - Lancaster, Pa. When Writing Mention Florists' Exchange

Pansy and Geranium Plants

PANSY—Giant flowering, transplanted, 50c. per 100; \$4.00 per 1000.

6000 2 in. GERANIUM—Named varieties, \$2.00 per 100; \$25.00 per 1000. Try some.

VELVET PLANT 3 inch, 50 cents per dozen. A bigger size.

THE MORRIS FLORAL CO., Morris, Ill. When Writing Mention Florists' Exchange

Large Flowering Strain.

50 cts. per 100, prepaid; \$2.50 per 1000.

MERRY MONARCH, MONTMORT, and others at \$5.00 per 100.

Cash with order.

BYER BROS., - Chambersburg, Pa. When Writing Mention Florists' Exchange

PANSIES

\$500,000 The Jennings Strain

Of finest American grown Pansies now ready; they are the leading strain in the market and first-class in every respect.

The following letter is but one of many received every day: "RECEIVED, N. Y. J. J. Jones, 200 1/2 St. Paul, Minn. I have just received the finest lot of Pansies I have ever seen. Seed of above strain, \$1.00 per pkt.; \$5.00 per doz.; \$3.00 per 1/2 doz."

Finest mixed, per 100 by mail, postpaid, 75c. per 100; by express, \$4.00; 500; for \$18. State 1000 plants, \$20.00; 5000, \$30.00.

FINE STOCK OF LEADING LARKS AT \$4.00 PER 100. Cash with order.

E. B. JENNINGS, - Southport, Conn. CROWNER OF THE FINEST PANSIES. When Writing Mention Florists' Exchange

Elmira, N. Y.

The Advertiser of this city, contains a very interesting article relative to Mr. Rawson's work among chrysanthemums.

"A visit to his greenhouses these days is very interesting. Mr. Rawson shows us a choice selection, gives their history and explains the various points of superiority, etc. Among his new seedlings is one which we just bloomed for the first time. It is a very large, rose-to-shaped flower, pure white, and the richest of that color yet produced. To this he has given the name "Primo," and it made its first public appearance at the recent Elmer Horticultural Society. Another which is sure to make a sensation among chrysanthemum specialists, is one just in bloom which he has named Pride, because, as he says, it is so puffed up. The color is an ivory white and the bloom is large, full, and deep. It will unquestionably become very popular. Among the seedlings he produced last season were Mr. Rawson named W. H. Chadwick, in honor of the president of the Chicago Horticultural Society. It will make its first public appearance at the annual chrysanthemum exhibition in Chicago next month. It is an immense, waxy white flower, tinted pink, and a brilliant career for it is confidently predicted. Mr. Rawson will give his first sale November 9 to 11. He will also act as judge at Syracuse, on the occasion of the exhibition of the Central New York Horticultural Society.

Providence.

The Market.

Business has been fair during the past week with quite an increasing activity in funeral work. Chrysanthemums are now in profusion. The demand equals the supply at the prices of yesterday. Pink chrysanthemums have been scarce. A few small plants are just coming in and find it an immense, waxy white flower, tinted pink, and a brilliant career for it is confidently predicted.

Business has been fair during the past week with quite an increasing activity in funeral work. Chrysanthemums are now in profusion. The demand equals the supply at the prices of yesterday. Pink chrysanthemums have been scarce. A few small plants are just coming in and find it an immense, waxy white flower, tinted pink, and a brilliant career for it is confidently predicted. Mr. Rawson will give his first sale November 9 to 11. He will also act as judge at Syracuse, on the occasion of the exhibition of the Central New York Horticultural Society.

Carnations are fairly good at \$16.00 per 100 or wholesale, retailing at 25c. and 35c. per dozen. Quite a number of our largest carnation growers are shipping their stock to Boston this season. They find this of great advantage to themselves, chiefly from the fact that at the Hub there is a graded scale of prices where merit counts for something, while here a carnation is a carnation, be it good, bad or indifferent, and is expected to bring all one price.

Round and About.

On the 31st, the Rhode Island Greenhouse, Kilmorland, proprietor, will open a branch store at 2435 Main street, Pawtucket.

James Nisbet, of Pawtucket street, Pawtucket, is having a big run on ferns for home decoration.

Mr. Kinckman, of Schiller & Co., New York, was a visitor in town the past week.

A. M. Rennie, who was reported in my last letter as being on the sick list, is improving.

O. H. Nye, of Warren, is offering his entire plant for sale. It consists of five greenhouses and cottage, heated with hot water; 10 acres of land, and a young orchard. W. H. M.

Moberly, Mo. The fortieth annual meeting of the Missouri State Horticultural Society will be held here December 7, 8, and 9, in the Court House. A good program is in preparation.

Pansy Plants.

Schmidt's International Mixture of Pansies is the best in the market. It is a mixture of blooming, strong stocky plants, 50c. per 100, by mail; \$2.00 per 1000, by express.

J. C. SCHMIDT & CO., Bristol, Pa. Wholesale Pansy Growers. When Writing Mention Florists' Exchange

AMERICAN BEAUTY.

WILLIAM, transplanted delivery by Special Train, including delivery to Philadelphia, or New York promptly when ordered.

PANSIES.

60000 plants now ready at 50c. per 100; \$4.00 per 1000, prepaid.

GERANIUMS. Will have 100,000 rooted cut-geraniums. Must ready about Nov. 15.

YELLOW DAISIES, Etoile d'Or, Rooted Cuttings, \$3.00 per doz. C. A. HARRIS & CO., Cash with order. DELANSON, N. Y. When Writing Mention Florists' Exchange

CALIFORNIA VIOLETS.

Strong healthy, 9 in. crown plants, ears to give satisfaction; will grow them out at \$2.50 per 100 \$3.00 per 1000. Cash with order. E. C. GODFREY, So. Newark, Conn. When Writing Mention Florists' Exchange

VIOLETS AND BEGONIAS.

FRANZINI, strong, healthy runners, \$1.00 per 100 in pots.

REGENCY Begonias, 15 varieties, \$3.00 per 100. W. H. SEARCH, Avondale, Chester Co., Pa. When Writing Mention Florists' Exchange

VIOLETS! VIOLETS!

MARIE LOUISE. Per grown, clean and healthy in every particular, \$5.00 per 100; \$45.00 per 1000. Sample plant, 10c. Cash with order.

W. M. J. CHANNICK, Trenton, N. J. When Writing Mention Florists' Exchange

CALIFORNIA VIOLETS! FINE FIELD CLUMPS.

W. L. H. Campbell, Wrentham, Mass. See ad. price. Also extra No. 25 in. Stranley \$3 per 100.

BENJ. CONNELL, Florida, West Grove, Pa. When Writing Mention Florists' Exchange

RED SPIDER ON VIOLETS SCALE AND MEALY BUG ON PALMS

Can be removed by using our Oil of sweetgum, diluted with water, 1/2 gal. 25c; 1 qt. 40c; 1 qt. 75c; 3/4 gal. \$1.25; 1/2 gal. \$1.00; 1/4 gal. 50c. \$10.00 per doz. \$17.50. Send on receipt of price.

CHAS. C. GARRETT & Co., 113 S. Gay St., Baltimore, Md. When Writing Mention Florists' Exchange

DOWN THEY GO TO CLOSE OUT.

MARIE LOUISE VIOLETS entirely free from insects, 100 plants for \$10.00 in bulk, \$20.00 per 100; \$25.00 per 1000.

SMILAX 1 1/2 per 50; \$10.00 per 1000. Cash or order, \$1.00 per 100. 10 cts. Write for special price on large lots.

K. KILBOURN, - Clinton, New York. When Writing Mention Florists' Exchange

VIOLETS MY SPECIALTY!

California, extra clumps from field, \$25.00 per 100. Special price for large quantity. Other varieties all sold for the present.

ITALIANS.

Charles J. De Lannoy, 3 years, graded, good forcing plants, delivered October 1st, 50 per 100. When Writing Mention Florists' Exchange

A FEW THOUSAND VIOLETS

Yet left. Different sizes. Must sell. Send room. Also a few hundred

CARNATIONS

Left. Name quantity. Send for prices; they will answer you. J. S. FREEMAN, 612 1/2 WASH'N' D. C. When Writing Mention Florists' Exchange

Double Hardy Russian Violets,

Lar e clumps, 75c. rooted runners, 25c. per doz.

Giant California Daisies,

2 1/2 in. pots, 60c., rooted runners, 35c. per doz.

Etoile d'Or, Yellow Daisy,

Same price. For other stock see adv. in September number. CASH WITH ORDER, PLEASE. A. & G. ROSBACH, Pemberton, N. J. When Writing Mention Florists' Exchange

BRIDESMAID, PERLE, METEOR, BRIDE RAISIN, BERMUT, LA FRANCE and UNSET. America's best for plants, \$3.00 in pot. Call for Catalogue. W. A. S. MACBRIEN, Lakewood, New Jersey.

PANSIES. VIOLETS

TO CLOSE OUT. We Offer Large, Flat-topped Clumps. Luxurious, \$4.00 per 100; \$35.00 per 1000. Call for Catalogue. SWEETLEY WHITE, \$3.50 per 100; \$30.00 per 1000. The other varieties all sold

J. C. SCHMIDT & CO., BRISTOL, PA. When Writing Mention Florists' Exchange

ROSES

4 IN. POT. BENCH GROWN BRIDE, BRIDESMAID, PERLE, METEOR, Papa Goutier, Wootton, \$5.00 per 100. Pres. Carnot, \$1.00 per 100.

R. H. MURPHEY, Urbana, Ohio. When Writing Mention Florists' Exchange

ROSES

Leading varieties. Write for prices. MAIRIE VIOLETS. Fine clumps, \$5.50 per 100.

CHARC CUT ROSES, \$5.00 per 100. THE NATIONAL PLANT CO., Dayton, Ohio. When Writing Mention Florists' Exchange

ROSES

Bridesmaid, Bride, Perle, Meteor, Mrs. E. A. Wood, La France, Marnet, Papa Goutier, 100 per 100; \$25.00 per 1000. Price, from 1 inch pots, 50c 75.00 40.00

CARNATIONS.

Albertin, Bridesmaid, Eldorado, Dean Hoop, Trenton d'Or, Ivory Queen, Mrs. E. A. Wood, Storm King, T. Cartledge, Rose Queen, Wm. Scott, Florian, 100 per 100; \$60.00 per 1000.

Alaska, Lizzie Gilbert, L. McGowan, Pearl, 1st, 2nd, \$5.00 per 100; \$50.00 per 1000. \$4.00 G. M. Bradt, Price, \$12.00 per 100.

CYCLAMEN

Persalum pignatum, from 3/8 in. pots \$10.00 per 100; 5/8 in. pots \$10.00 per 100.

SMILAX.

Strong plants from 3/4 in. pots, \$2.50 per 100; \$20.00 per 1000. New Trade List on Application. WOOD BROS., Fishkill, N. Y. When Writing Mention Florists' Exchange

2 YEAR OLD ROSES 2 YEAR OLD

These Roses have been potted some time and have made a nice bushy growth. I offer them while they last at \$3.00 per rose.

PERPETUAL BLOOMING ROSES.

Clothilde Soupert, Leonie Osterich, Mme. DeWatteville, Princess de Sagan, Etoile de France, Mrs. DeWatteville, Madame Weisbe, Cassiana Kruger, Malmaison, Christine de France, Duchesse de Bordeaux, Ruyter, Belle Rainbow, Pink Souper, Bride, Meteor, Prince de Sagan, Mrs. DeWatteville, Mrs. Stanley, Marie Lambert, Marie Guillot, Pierre Guillot, Yellow Souper, Bridesmaid, Perle, Chas. Legrandy, Mme. Desgras, Marie Van Houste, Madame Cocher, Louis Richard. The above list in 1 1/2 inch pots at \$2.50 per 100; \$30.00 per 1000.

CLIMBING ROSES.

Two year old plants in following varieties, \$1.00 per plant; \$8.00 per 100. White Rambler, Yellow Rambler, Pink Rambler, Climbing Meteor. The above list in 1 1/2 inch pots at \$3.50 per 100; \$30.00 per 1000.

CLIMBING ROSES.

Two year old plants in following varieties, per doz., 75c; per 100, \$5.00. Crimson Rambler, Empress of China, Golden Rambler, Rose de Waltham, Climbing Rose, Mary Washington, M. Niel. The above list in 1 1/2 inch pots at \$3.50 per 100; \$30.00 per 1000.

HYBRID PERPETUAL ROSES.

Two year old plants in the following varieties, per doz., 75c; \$6.00 per 100. Mrs. A. M. McCutcheon, Mrs. Magna Charta, Vick's Caprice, Ball of Snow. The above list in 1 1/2 inch pots at \$3.00 per 100; \$25.00 per 1000.

JOHN A. DOYLE, Springfield, Ohio. When Writing Mention Florists' Exchange

EVERY FLORIST OUGHT TO ENJOY HIS CLASS AGAINST HAIL.

For particulars address JOHN G. SUTHER, 5627, Madole River, N. J. When Writing Mention Florists' Exchange

MANURE. Fresh and well rotted horse manure. Standard for Mushroom growing a specialty. Excellent for all purposes. Price per ton \$1.50. Wm. Abernethy, Room 401, 10th Street, Philadelphia, Pa.

When Writing Mention Florists' Exchange

PEAT AND LEAF MOULD, extra large barrels \$1.00 each; 6 barrels, \$5.00. HARDY PERENNIALS and SHRUBS.

W. L. HARRISON & SONS, Lobenz Springs, N. Y. When Writing Mention Florists' Exchange

HOLLAND PEAT AND LEAF MOULD COMPOST.

Rich in fertilizing power, \$1.00 per bush, or \$4.00. Delivered free on Penna., D. C. & W. or Central Railroad at Newark. Cash with order.

A. R. ROBERTSON, Office and Yards South St. & Penn. Rail, Newark, N. J. When Writing Mention Florists' Exchange

SAVE THE BLOOMS! NIKOTINE DOES NOT INJURE SENSITIVE PLANTS USED FOR FUMIGATION OR SPRAYING, INDOORS OR OUT. 200 POUNDS PACKED IN ONE PINE WOODEN PRICE \$1.50. ALL SEEDSMEN.

When Writing Mention Florists' Exchange

THE BEST FOR ALL Florists. ROSE LEAF EXTRACT OF TOBACCO INSECTICIDE. FOR SALE BY Seed Stores. For Free Pamphlet, write to Lecturers SPRATT (Care) Toronto Co. Louisville, Ky.

When Writing Mention Florists' Exchange

SHEEP MANURE

Cleaned and prepared expressly for florists' use. You will find it the best on price. For reference see below description by Henry F. Michel, U.S. Market Street, Phila., Pa. Trial bag of 50 lbs. for 50c per bush. \$4.00 for 100 lbs. Cash with order.

Hermosa River will be taken in exchange. GODFREY ASCHMANN, 1012 Ontario St., PHILA., Pa. When Writing Mention Florists' Exchange

BEFORE BUYING A FUMIGATOR

SEE THE ONE WITH WATER TANK. ALL SEEDSMEN SELL THE PERFECTION. When Writing Mention Florists' Exchange

..Elixir.. Fertilizer. It is a pure natural product and the most nutritious food for plants. We invite to comparison with other FERTILIZERS and will stand by you. FREE LIBERAL SAMPLE TO PROVE IT. (THE LIFE OF PLANTS) Send your address to Elixir Fertilizer Co., Dept. B, Wichita, Kas., New York. When Writing Mention Florists' Exchange

Cincinnati.

Market Notes.

Chrysanthemums are now with us in good form, and are selling comparatively well at wholesale houses. In the market, on Saturday, prices were cut all to pieces. Carnations are getting good and are selling liberally, with, considering chrysanthemum time is here. Much has been priced out of the market, but the flower market if the growers were not overly anxious to dispose of their cuts. Lily of the valley in the market is first-class and sells at 4c. Beauty, good, bring \$2 per dozen; other roses, 2c. to 4c. according to quality. Prices for chrysanthemums range from 6c. to 15c. according to quality; and we also have for sale the following list of floral work at \$2 to \$3 per 100.

Chrysanthemum Jottings. Saturday morning chrysanthemum committee had nothing to do but roll tea; not a seedling made its appearance.

Fred. Wutz has a lemon-yellow sport from Mrs. Henry Robinson, but I see from the trade papers that Fred. is not alone in this; many others have the same thing. I do not think it is any improvement over the parent, if quite as good.

John Fries and Son at Newport, Ky., has splendidly tinted pink chrysanthemum, a seedling they have had for several years; they named it Mrs. George Robinson. It is an early pink with as many good qualities as Mrs. Henry Robinson.

Here and There. Austin Shaw, representing Sleberth & Son, New York, was a caller Thursday. Mr. Shaw seemed well pleased with his Western trip and reports trade very good.

General retail business is ahead of last year. M. Rice, of Philadelphia, was a caller Saturday. Frank Snyder, of Gallipolis, was also in the city. E. G. ULLETT.

Pittsburgh.

Trade Still Satisfactory. Trade in cut flowers is still satisfactory; but stock is coming in too heavy just now, particularly carnations and chrysanthemums. In the latter variety, Philadelphia, Mrs. Robinson, Ma'or Bonnalton, Golden Gate, W. Simpson, and Yellow Queen are among the best this week, selling at prices from 2c. to about 12c. apiece at wholesale; and at retail from 7c. to \$2 per dozen. Carnations sell at \$1 per 100 up; stock is good. Cosmos is now plentiful, but not in great demand. The first paper-white narcissus of the season grown by John Rader are quite good, and a few Harriall lilies are seen occasionally. Violets are not in much demand yet.

Jottings. J. M. Gasser, of Cleveland, O., was in the city last week. O. A. Ochsauer, who has been engaged by Mr. Gasser for his store in Cleveland, left for that city last Monday. Mr. Ochsauer was formerly secretary of our Florists' Club and was employed by E. C. Ludwig in the Allegheny market where he is well known. The weather is remarkably fine at present, not too warm, but rain is badly needed, since the first of the month no rain of any consequence has fallen and some weeks before that was dry. The chrysanthemum shows in the park conservatories in the two cities are very fine, this fall and are being viewed by the public, particularly on Sundays. E. C. KEENEMAN.

Rochester, N. Y.

Ellwanger & Barry have just received notice that six valuable medals have been awarded them for their exhibit of fruit at the International Horticultural Exposition held in Hamburg, Germany. Two of these medals are gold, two silver, and two bronze, in all worth about \$100.

Peabody, Mass.

I noted a capital hint at J. M. Ward's lecture upon iron cactus, excellent for Mary to manipulate when weeping or dusting. Large plants can be handled much easier. A water cactus would be an improvement upon the iron one. W. M.

Salem, Mass.

McGee, Geary & Co. are very busy and feel the loss by sickness of Mr. Geary, who it is hoped will speedily recover from what has been a long spell. W. M.

GREEN-HOUSE CONSTRUCTION. This has been a specialty with us for many years and to us is due the credit for many of the great improvements that have been made in the construction of wooden green-houses. To those that buy our Clear Cypress Building Material we furnish, free of cost, complete detail drawings from which any intelligent workman can put up the material correctly. We have plenty of time to write letters ABOUT OUR BUSINESS, and we will be glad to hear from those contemplating building. Write for Circulars or Estimates. LOCKLAND LUMBER CO. LOCKLAND, OHIO. When Writing Mention Florists' Exchange

STANDARD FLOWER POTS

In any quantity, and of the best quality. Get my price list before ordering elsewhere. W. H. ERNEST, 1225 N. E. WASHINGTON, D. C. When Writing Mention Florists' Exchange

NO ADULTERATION. BONE FLOUR NO ACID. Refer to: Fred. Dornier & Sons Co., La Fayette, Ind. A. W. Livingston's Sons, Columbus, O. J. M. H. Taylor, Dayville, L. I., N. Y. L. L. John & Co., St. Paul, Minn.

GEO. S. BARTLETT, SUCCESSOR TO 1225 N. E. WASHINGTON, CINCINNATI, O. When Writing Mention Florists' Exchange

Standard Flower Pots.

Send for our New Price List with extra discounts. All our Pots from 7 in. and upwards, have Flat Bottom & color Bottom, which is a great advantage, as it insures perfect drainage. A FULL LINE OF BULB PANS. THE WHILLDIN POTTERY CO., 715 to 719 Wharton Street, PHILADELPHIA. BRANCH HOUSES: } Coventry and Wagoner Aves., Jersey City, N. J. } Jackson Ave. and Pearson St., Long Island City, N. Y. When Writing Mention Florists' Exchange

FLOWER POTS

We are Manufacturing a Full Line of STANDARD FLOWER POTS and HANGING BASKETS OF THE BEST QUALITY.

Shipping Facilities First-Class, thereby Securing Lowest Freight Rates. Our goods are well packed, and breakage is nominal. Give us a trial. Send for Price List. Address: THE SYRACUSE POTTERY CO., 403 N. SALINA ST., SYRACUSE, N. Y. When Writing Mention Florists' Exchange

JADDOO FIBRE--Every plant grown in it thrives without earth. LIQUID--The best, safest and cheapest Fertilizer sold. THE AMERICAN JADDOO CO., U. S. Patent and Trade Mark. 811 Fairmount Avenue, PHILADELPHIA, PA. When Writing Mention Florists' Exchange

ATTENTION, SECRETARIES!

The One Thing CHRYSAANTHEMUM LITHOGRAPHS..... necessary to insure success for your coming Chrysanthemum Exhibition is the use of our.....

Samples and prices mailed on application. We respectfully solicit your patronage. Orders will be promptly filled. THE COURIER LITHOGRAPHING CO., Buffalo, N. Y. When Writing Mention Florists' Exchange



In watering your cut flower houses be careful to do it early in the morning, as soon as the sun has warmed them, so that they may dry up well before evening. As the weather has been warm enough to carry the houses through the night without fire heat, up to the present, October 25, I have only closed up my houses twice. On all other nights I have had a little air on during the night and the flowers have fared well by it.

Pot plants need to be looked over in the afternoon again, as they are apt to dry out too much before night; but do the watering with the sun.

By the time these notes are before my readers, we will all be busy preparing for the shows. In this district, the Indianapolis show begins November 2, so this is the last week in which to get plants and flowers ready if you want to exhibit. Pot plants, with me, will hardly be far enough in bloom, but the cut flowers will be out in full force.

There is no doubt that the 1897 sets contain some very fine varieties among them, and the man fortunate enough first spring to invest a few dollars in novelties will be well repaid for his trouble.

My next letter will be devoted to a review of the novelties, what I know and think about them.

Now, one word to the men who intend making a display at the different shows. Don't take your temper along with you; leave that at home. It may happen that you won't get the premiums you expect, and worse than that, perhaps, you may get none at all. Always remember that the other fellow is there too, and in many instances he will be just as mean enough to slatter your hopes. When that happens, it is always best to be mild tempered, and swallow your pill even if it should be bitter.

I hope I will be able to shake hands with a good many friends in Indianapolis next week.

THEO. ROCK.

## COMING EXHIBITIONS.

Secretaries of shows will greatly oblige by furnishing us with particulars of their respective exhibitions, for notification in this column.

**ANDOVER, MASS.**—Florists and Gardeners' Club, Town Hall, November 5 and 6; J. D. Fairhurst, Secretary.

**BOSTON**—Massachusetts Horticultural Society, Horticultural Hall, November 25-26 inclusive. Robert Manning, secretary.

**CHICAGO**—Horticultural Society, Army, Lake Front, November 9-13 inclusive. W. N. and J. C. Stearns, Secretaries and Managers.

**CLEVELAND, OHIO**—Florists' Club, November 16-18 inclusive. G. A. Tilton, 85-87 Woodland Avenue, Secretary.

**GERMANTOWN, PA.**—Horticultural Society, Association Hall, November 3 and 4; George Reder, Jr., 307 Water St., Secretary.

**GRAND RAPIDS, MICH.**—Florists' Club, Raneland Building, November 10-12 inclusive. N. B. Stover, Grandville, Mich., secretary.

**INDIANAPOLIS, IND.**—Indiana Horticultural Association, Tomlinson Hall, November 2-6 inclusive. R. A. McKeon, Gardier Park, Secretary.

**KANSAS CITY, MO.**—Florists' Club, Home Prospect Show Building, 121 and 123 Main Street, November 11-13 inclusive. J. C. Barnes, 3814 street and Euclid avenue, secretary.

**LOUISVILLE, KY.**—Kentucky Society of Florists, November 10-13 inclusive. F. C. Hays, 24 W. Third Street, Secretary.

**MILWAUKEE, WIS.**—Florists' Club, Lincoln Hall, November 25 inclusive. A. Klotzner manager.

**MONTREAL**—Gardeners and Florists' Club, Windsor Hotel, November 8-11 inclusive. Fred Bennett, 12 Brandon avenue, secretary.

**MORRISTOWN, N. J.**—Morris County Gardeners' Association, Westchester County Horticultural Society, Opera House, November 9-13 inclusive. H. Spavin, Box 55, secretary.

**NEW BEDFORD, MASS.**—Gardeners and Florists' Club, November 15-16 inclusive. A. J. Fish, secretary.

**NEW YORK**—American Institute Horticultural Section, Madison Square Garden, September 27 to October 30 inclusive. James W. Wilbers, Box 1897, superintendent.

**PHILADELPHIA**—Pennsylvania Horticultural Society, Hibernia Hall, Broad street, November 9-13 inclusive. David Rust, secretary.

**PONCE DE LEON, N. Y.**—The Westchester County Gardeners' Association, Febr's Opera House, November 5 and 6; A. Grierson, Rye, N. Y., secretary.

**PONDICHERRE, N. Y.**—Dutchess County Horticultural Society, Opera, November 3, 4 and 5. J. C. Gormley, Fishkill-on-Hudson, N. Y., secretary.

**PROVIDENCE, R. I.**—Rhode Island Horticultural Society, Music Hall, November 11-13 inclusive. Charles W. Smith, 41 Westminster street, secretary.

**SAN FRANCISCO, CAL.**—California State Floral Society, November. Emory E. Smith, manager.

**ST. JOHN, N. B.**—Horticultural Association, Institute Assembly Rooms, November 4 and 5.

**SPRINGFIELD, MASS.**—Hampden County Horticultural Society, International Chrysanthemum Exhibition, November 10-15 inclusive. William F. Gale, 331 Main street, manager of exhibition.

**SYRACUSE, N. Y.**—Central New York Horticultural Society, Albana, November 9-11 inclusive. D. Campbell, secretary.

**TORONTO, ONT.**—Gardeners and Florists' Association, The Exchange, November 10-13 inclusive. E. H. Carter, 329 Gerrard street, East, secretary.

**WACO, TEX.**—Waco Floral Society, November 10-12 inclusive. Mrs. M. B. Davis, secretary.

**WONDERSE, MASS.**—Worcester County Horticultural Society, November 8-11 inclusive. Athin A. Hixon, Worcester, Mass., secretary.

## The "Yellow Flower" Contest.

The Central New York Horticultural Society held a special meeting in the Chamber of Commerce rooms in this city Saturday night, and at the urgent request of E. C. Stearns, the committee to admit cut blooms in the competition for chrysanthemums decided to change the terms of the contest now stand the prize is offered for a new yellow seedling not previously shown, and the committee will award a flower which will be showy and attractive, and at the same time hardy and resistant to the various diseases which from the contestants by the Society's judge, and a representative of the firm of E. C. Stearns & Co. is to select the flower. The prize flower is to be known for all time as "The Yellow Flower," and this shall be so stipulated by the grower. E. C. Stearns & Co. agree to forward the interests of the flower in every possible way. The show is to be held in the big Albana, Syracuse, November 9, 10, 11. The hall is the finest in the state for such a purpose, and previous flower shows which have been held here have been very successful. Applications for entry blanks should be sent to the secretary of the Central New York Horticultural Society, Mr. D. Campbell, Syracuse.

## CORRESPONDENCE.

Insertion will be given in this column to all communications free from animus but the editor will not be obliged to accept or to reply to those expressed to not necessary reflect our own.

## Chrysanthemum Society's Work.

Editor Florists' Exchange.

I have always been under the impression that the various chrysanthemum societies existed not only for improving the methods of cultivating these popular flowers, and correcting all mistakes in nomenclature, but also for the encouragement of the raising of new and novel varieties from seed or otherwise.

With the last-named Society its object is to improve the methods of raising the varieties brought before its committees, whether an award is made or not; with no mention of a discount on large quantities. This is very poor encouragement indeed to seedling raisers, after all the work entailed, and the only inducement actually being a certificate of merit and seedling chance to secure the necessary 85 points.

And the scale for the highest type adopted by the C. S. A. scale D. "for commercial purposes," foliage does not count. The said scale is the one adopted for seedlings, and is printed in the schedule of the Massachusetts Horticultural Society.

## Newport, R. I.

### Horticultural Society.

A most enthusiastic meeting of the Newport Horticultural Society was held at Westwood on October 27, and twenty-one new members were elected.

Among the exhibitors were some Robert Laurie seedlings from C. Vanderbilt, Esq., sample bloom of new chrysanthemum Peter Kay, varieties from Isionia semper-flora and Isionia giganteum.

From Andrew S. Meikle, gardener for W. E. Allen, came a splendid variety of long-stemmed gardenias, and from John Allan, "Caswell's" collection of chrysanthemums were some fine buds of merit; to Robert Laurie for new chrysanthemum Peter Kay, a bronze medallist; for various chrysanthemums, some of which drew S. Meikle, for vase of gardenias, a bronze medallist for superior culture; John Allan, a bronze medallist for cut blooms, honorable mention; to Thomas Beattie a similar award for strawberry, four seasons in fruit. At the next meeting, November 10, Arthur Griffin, gardener for J. J. Van Allen,

Esq., will read a paper on chrysanthemums.

The enthusiasm noted above is some of the fruits of the S. A. F. convention.

By the way, I have had a good many inquiries regarding a group of cuttings taken by Frank H. Childs of this city; it will save me much time if you will kindly say that the picture is very good, and that copies can still be had if ordered at once by addressing Mr. Childs. The price is \$2 a copy. W. C.

## Toronto.

### Trade Improving.

Business is steadily improving here. There are a great many chrysanthemums being raised, and the selling well, the wholesale price being from \$1.50 to \$2.50 per 100; nice blooms of Ivory and Lager sold on Saturday last at \$8 to \$10.

Roses are improving, but slowly, and are not selling quite so well as they did before chrysanthemums came in. Tidy is showing some nice Bride and Bridemaid, and Dunlop some very nice Beauty. The latter appear to sell well.

Gardenias are getting more plentiful and the flowers are better in quality. Some very nice Daybreak are around which bring from \$1 to \$2.50 per 100; only the very fancy got the latter price.

Violets are still poor; the hot dry weather of the past few weeks has been too much for them.

Dunlop and Tidy are each showing some nice blooms of Carthusia, labata. Most of our florists are putting up nice window displays.

There are still a few dahlias around, but the frost has nearly done for them. Geraniums are still looking and blooming well in most of the city gardens, but in the city the early ones are nearly all gone.

They are all done. In one or two places in the city there are some fine beds of Anemone japonica, in variety, in full bloom. They look very well and are useful. Clematis is another very useful thing that is still blooming well in sheltered places.

### The News.

They will soon move a short distance up King street, where he will have a more convenient store and a nice corner at the back of it. This will be a great improvement, as there is nothing of the sort down town.

Arrangements for the Chrysanthemum Show are about completed. Some advertising has been already done, and as we are holding our exhibition at the old work in November instead of waiting for Thanksgiving day, there is no doubt we will have a first class show and plenty of competition for the prizes.

THOS. MASTON.

## SULPHUR

10 to 25 lbs., 2 1/2 cts. per lb.

25 to 50 " 2 " "

Bbl. 250 " \$1.95 " 100.

BEST GRADE ONLY.

CASH MUST ACCOMPANY ORDER.

H. A. STOOFFHOFF, 315 MADISON AVE., N. Y.

## PRICE CUT LOW

## TOBACCO TO KILL GREENE

MADE FROM STRONGEST TOBACCO LEAF KNOWN . . .  
NATURALLY CONTAINS MORE NICOTINE THAN STEMS AND  
NICOTINE KILLS, ONE POUND  
EQUAL TO 50 LBS. STEMS

IT IS POSITIVELY SAFE, IT WILL NOT BLAZE; IT NEEDS NO FUMIGATOR.

\$2.75 per case, 100 lbs., on car N.Y.C.  
75c. per drum, 10 lbs., (by express only).

H. A. STOOFFHOFF,

315 Madison Ave., New York City.

When Writing Mention Florists' Exchange.

## STEMS



**JOHN CONLEY & SON,**  
MANUFACTURERS OF  
**TIN FOL**  
2 and 4 Dominick Street,  
NEW YORK.

**M. RICE & CO.,**  
Importers and Manufacturers of  
**FLORISTS' SUPPLIES.**

25 N. 4th St., Philadelphia, Pa.  
NEW FALL CATALOGUE NOW READY

**"JADOO"**  
FIBRE and LIQUID are used and  
endorsed by the leading growers.  
Try them and be convinced.



TELEPHONE, 1782 18TH ST.  
When Writing Mention Florists' Exchange

**GOLD FISH.**  
Fine Healthy Stock.

Medium to large size, \$10.00 per 100. Cash with order. No charges for shipping cases. Gold fish can be shipped by Express thousands of miles with no loss and are a profitable and attractive stock to handle.

Full line of Aquaria Supplies.  
**KEENAN'S SEED STORE,**  
6112 and 6114 Wentworth Ave., CHICAGO.  
When Writing Mention Florists' Exchange

HAVE YOU EVER TRIED  
**THE MEYER GREEN SILKALINE?**



Price \$1.35 per lb. For sale everywhere. Fancy colors for tying purposes. JOHN C. MEYER & CO., 27 Broadway Street, New York, N. Y.  
When Writing Mention Florists' Exchange

**Boston Florist Letter Co.**



This weapon has been tested and verified, \$15.00 with order. No charges for shipping letter, gives away first order of 500 letters.  
Box Letter, 1 lb. 2 1/2 inch, per 100, \$2.00  
Box Letters, \$4.00  
Faster with each letter  
Can be used by sending them everywhere and for sale by all florists and supply houses.  
**N. F. MCCARTHY, Treas. & Manager.**  
125 N. BOSTON, MASS.  
When Writing Mention Florists' Exchange

**Seventy-Five Per Cent.**  
Please stop my advertisement for the present as I have sold out. Thanks to the Exchange. I will ship three-fourths of the orders come through your paper.  
DENNIS ZIRNGIBEL.  
Newham, Mass., Oct. 21, '97.

**Baltimore.**

**The Market**  
Owing to the long-continued stretch of warm weather, outdoor stock is plentiful and there is no chance that indoor grown flowers will meet with any advance in price as long as this condition obtains. Chrysanthemums are abundant, and bring very poor figures compared with the outdoor stock.

Violets are coming in regularly and did fairly good sales. Carnations are doing very nicely now. Good roses are not over abundant, owing to the dull, dark weather.

William Binder's seedling chrysanthemums are grand and he has some really very fine stock. He paid a flying visit to Philadelphia the other day to show the flowers to some of the chrysanthemum experts there who were very much pleased with them. He has had good offers for the stock.

George W. Kaib chrysanthemum will displace Bergmann, Fisher & Ekas may well feel proud of this seedling which was certified last year. All those who invested in it have not been disappointed.

Mr. McNall, of Baltimore Co., formerly the credit, has political aspirations; he has been placed on the Republican ticket for the Legislature.

**Chicago.**

**State of Trade.**  
The cooler weather so far has not helped business. All advances previously noted in the prices of roses and carnations are being slowly but steadily receding. American Beauty that heretofore has held its own well; \$2 to \$2.50 is a top figure now, with \$4 for teas, except for a few extra long Kaiser that bring \$5 to \$6.

Carnations, although getting better in quality all the time, are hard to clear off. A few ladies may bring \$2; but standards realize from \$1 to \$1.25 down to 50c. and 75c. for common.

Chrysanthemums are bringing \$2, where the same quality of year ago fetched \$3 and over; and really good flowers go at \$1 to \$1.50 per dozen with very few exceptions. The outdoor stock, that brings 50c. to 75c. a dozen. Southern stock is considered to be doing well. It pays extra to buy and we don't see how prices for stock shipped from other states can be very satisfactory to the shippers. One thing is certain; there is a larger number of growers here this year who are raising fancy stock, thus creating a great competition in extra good flowers than was the case in former years. Pink chrysanthemums are scarce; the first of Vinand-Morel came in on October 25, not in first-class condition, and sold at \$1.75.

In green stock sunlax and asparagus have good demand; bouquet greens are coming in in carload lots. Galax leaves are being sold at 25c. per 100.

Chrysanthemum plants are plentiful and selling fairly well.  
The funeral of George M. Pullman caused quite a demand for fancy flowers. The quantity used being very large. The Central Floral Co. utilized a large quantity of violets and 800 carnations. Others were heard of who had carnations, such as: J. C. Sillman, E. Weinbocker, W. J. Smyth, C. J. Schubert, C. Fiske, Henry H. Smith, and others.

The Illinois Cut Flower Co. has moved into its new store, 51 and 53 Wabash avenue. A cold storage room 30x15 feet under the sidewalk, is a very useful acquisition.  
**Bowling.**  
On October 24 a team of seven bowlers representing the St. Louis Club and consisting of C. A. Kutz, captain; J. J. Bettske, Fred. Weber, Al Bauer, Carl Beyer, Mr. Kutz (with Jordan Floral Co.), and Emil Schrey, came all the way to Chicago to play a friendly game of bowls. About a dozen of the Chicagoans were present and entertained the visitors. The following six players were selected by the home club: J. S. Wilson, captain; Chas. W. Kutz, G. J. Grant, Charles Held, P. J. Hauswirth, and John Zack. Fred. Weber acted as umpire. W. V. Thompson was umpire. Five games were played, the score being as follows:

First Game.....	768	739
Second ".....	829	829
Third ".....	816	681
Fourth ".....	686	704
Fifth ".....	713	704
.....	869	357

being a victory by 482 pins for the Chicago boys. EDGAR SANDERS.

Carl Koebel committed suicide on October 19. Suicide upon a bench was placed at the rear of his home. Koebel attached a wire nose attached to a rafter, and he was in a chair. The contents of an ounce bottle of carbolic acid, drew the blade of a razor across his throat, and he was in a chair. Koebel's widow, in consequence of the death of his father in Germany is said to have been the cause of the rash act. Koebel came to this country about 20 years ago and for five years had been a resident of the neighborhood in which he died. He was in a fairly prosperous condition financially and conducted a florist business on a moderately large scale. He leaves a widow and five children, the eldest being 15, and the youngest 3 years of age. In a note he asked that his remains be cremated and buried in his home. He was to be placed in the same tomb with those of his father. His request will be carried out by his widow.

**San Diego, Cal.**

Miss Sessions has enlarged her flower store, and put in a plant glass front, which gives her some much needed room. The contract for furnishing a number of large plant glass fronts has just been awarded to this lady.

Chrysanthemums are making quite a show now, and during the past week a few violets have appeared at the stores, but these are rather small as yet.

The Country Horticultural convention met at the Chamber of Commerce rooms on October 10. Horticultural Commissioner Hall presided. The subjects discussed were "Good Roads," "Small Fruits," and "Lemons." Mr. Hall gave a report on the progress in regard to the yield of lemons on the "Bonita" ranch. This ranch contains 65 acres of lemon trees, which were planted in 1881. It is owned by a Boston company, and is managed by R. C. Allen, a graduate of Harvard who in 1905 was worth 225,214 pounds; in 1896, 454,856 pounds; in 1897, 102,929 pounds. Average price during this time 13c. cents.

Harvey Stiles, our park superintendent, is rejoicing over the advent of a son. A local collector reports that the demand for Lilium Parryi is steadily increasing. This beautiful lily is native of southern California, growing in the high mountains of Riverside and San Bernardino.

**Grant's Improved Challenge.**  
Bottle of this challenge is guaranteed to contain 5000 seeds of the best quality. LEMMA the most perfect apple write for catalogue and prices before placing your order here.  
Quaker City Machine Co., RICHMOND, IND.  
When Writing Mention Florists' Exchange

IF YOU WANT  
**A GOOD SASH LIFT**  
For a Very Little Money Get

THE "NEW DEPARTMENT" VENTILATING APPLIANCE.

For Descriptive Catalogue Send to  
**J. D. CARMODY, Evansville, Ind.**  
When Writing Mention Florists' Exchange

**SCOLLAY'S IMPROVED PUTTY BULB**  
For Glazing Sash, Etc.,  
—ALSO THE—  
PATENT PLANT SPRINKLER

For sale by your Seedsmen or sent, postpaid, for \$1.00  
**JOHN A. SCOLLAY,**  
74 & 76 Myrtle Ave.,  
BROOKLYN, N. Y.  
SEND STAMP FOR CATALOGUE.  
When Writing Mention Florists' Exchange

**Hot-Bed Sash**

Tenone white-lensed. Corners secured with iron dovetails. Every detail of construction perfect. Made of Clear Cypress Lumber.

**Quick Shipments.**  
We have in stock and can ship immediately:  
3 ft. x 6 ft., 3 rows 10 in. glass.  
3 ft. 3 in. x 6 ft., 4 " 8 in.  
4 ft. x 6 ft., 5 " 8 in. "  
Not glazed, 1 1/2 in. thick.

**Delivered Prices**  
Quoted on application. State size and quantity wanted. No order too small to receive careful attention and none too large for our facilities.  
**LOCKLAND LUMBER CO.,**  
Lockland, Ohio.

When Writing Mention Florists' Exchange

**VALVES and FITTINGS**  
For Pipe and Tubing.  
**VENTILATING APPARATUS.**  
COLDWELL WILCOX CO.,  
Newburgh, N. Y.  
SEND FOR CATALOGUE  
Mention pipe.

When Writing Mention Florists' Exchange

**CYPRESS**  
IS MUCH MORE DURABLE THAN PINE.  
**CYPRESS SASH BARS**  
UP TO 2 1/2 FEET IN LENGTH OR LONGER.  
**GREENHOUSE**  
AND OTHER BUILDING MATERIAL.  
Send for our illustrated book "CYPRESS LUMBER AND ITS USES." Send for our Special Greenhouse Circular.  
**THE T. STEARNS LUMBER CO.,**  
Newport, Boston, Mass.

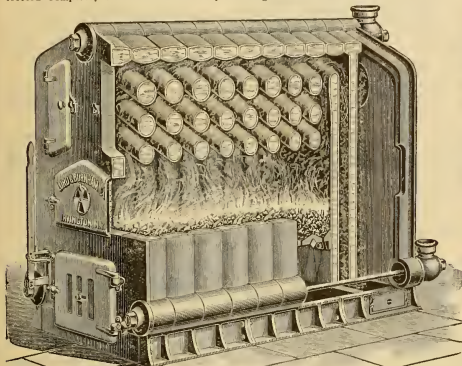
When Writing Mention Florists' Exchange

**CYPRESS GREENHOUSE MATERIAL OF ANY DESCRIPTION.**  
**JOHN C. MONINGER**  
CO.  
412 to 422 HAWTHORNE AV. CHICAGO, ILL.

When Writing Mention Florists' Exchange

**LORD & BURNHAM CO.,**  
Horticultural Architects and Builders and Manufacturers of Heating and Ventilating Apparatus.

(Established 1846.)  
Plans and estimates furnished on application for Heating and Ventilating Apparatus erected complete, or for material only. Highest Awards at the World's fairs.



NEW SECTIONAL HOT WATER HEATER.

Specially adapted to large ranges. Will heat up to 16,500 feet of glass. Highest economy. Moderate cost. Also heaters for smaller work. Send six cents postage to New York office for latest catalogue of Heating and Ventilating Apparatus.

NEW YORK OFFICE: GENERAL OFFICE AND WORKS:  
160 FIFTH AVE., COR. 21ST ST. IRVINGTON-ON-HUDSON, N. Y.  
When Writing Mention Florists' Exchange

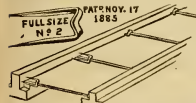
**MYERS & CO.,** **SUMMER IN WINTER**  
**Greenhouse Builders,** By Using **Standard Greenhouse Boilers**  
Steam and Hot Water Engineers, One cent goes our Catalogue.  
1614-1620 S. Ninth St., Philadelphia. **GIBLIN & CO.,** - Utica, N. Y.

**PIPE VALVES**  
Wrought Iron Pipe, Valves, Cocks, Fittings, also, for Steam and Hot Water; Rubber Hoses, Pumps and Wall Pipes.  
**WM. H. KAY, 42 Day St., New York.**

**LUCAS "HELPS."** SEND FOR THEM. THEY TELL ALL ABOUT GLASS.  
**JOHN LUCAS & CO., Phila., Pa.**  
When Writing Mention Florists' Exchange

**GLASS** FOR GREENHOUSES, CONSERVATORIES, GRAPERIES, HOTBEDS AND FLORISTS' USE GENERALLY, AT LOWEST RATES.  
**L. HARRIS & SON,**  
487 W. BROADWAY, NEW YORK, 80 LIBERTY ST., NEW YORK  
Bld. Houses and Glass Co. Bld. Greenhouses and Glass Co.  
When Writing Mention Florists' Exchange

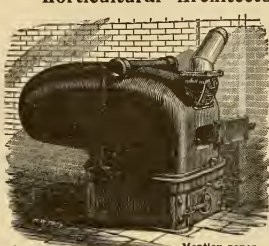
**GLASS!** For Greenhouses, Conservatories, Graperies, Hotbeds and all other purposes, at Lowest Rates.  
**N. COWEN'S SON, 392 & 394 West Broadway, New York.**  
Formerly 184 and 156 So. Fifth Avenue.  
Get our Figures before buying Glass. - Estimates Freely Given  
When Writing Mention Florists' Exchange



**THE VAN REXPER**  
**PERFECT GLAZIERS' POINTS**  
No rights or lefts. Price per box of 1000, 60c; by mail, 70c; in lots of 5000 by etc., 55c per 1000  
**HENRY A. DEER, 714 Chestnut St., Phila., Pa.**  
When Writing Mention Florists' Exchange

**CALIFORNIA RED CEDAR**  
Never Decays.  
**A. DIETSCH & CO., 619 Sheffield Avenue, CHICAGO.**  
MANUFACTURERS OF  
RED CEDAR AND CYPRESS GREENHOUSE MATERIAL.  
When Writing Mention Florists' Exchange

**GREENHOUSE HEATING AND VENTILATING,**  
Horticultural Architecture and Building.



**Hitchings & Co**

ESTABLISHED 1844.  
233 Mercer Street, NEW YORK.  
FIVE PATTERNS OF BOILERS, NINETEEN SIZES, Perfect Sash Raising Apparatus, Rosehouses, Greenhouses, Etc., or Iron Frame Construction erected complete or the Structural Iron Work shipped ready for erection.  
Iron Frame Benches with the "Perfect Drainage Bench Tile" or Slate Tops.

SEND 4c. POSTAGE FOR ILLUSTRATED CATALOGUE.  
When Writing Mention Florists' Exchange

**HAVE RICH MELLOW LAND.** That condition is sure to follow through draining with **JACKSON'S Round and Square Drain Tile**. For 20 years we have been making them and know Pipe, Road and Fire Brick, Green Fire Chimney and Fire Lining and from **Jersey City, N. J.** the **Samuel Moore's Clay Products Company** & Write for prices. **John H. Jackson, 11 3rd Av. Albany, N. Y.**  
When Writing Mention Florists' Exchange

**DON'T SYRINGE WITH COLD WATER**  
It lowers the vitality of your Stock, but write for particulars of my Tempering Apparatus.  
**HENRY W. GIBBONS, 134 LIBERTY STREET, NEW YORK.**  
When Writing Mention Florists' Exchange

SEND FOR OUR NEW CATALOGUE, WHICH SHOWS  
**The New Automatic Cable Ventilator**  
As it is put up in the house complete. We also give you price with a guarantee that each machine sent out will operate your house successfully. Sell machines now made in two sizes.  
**A. Q. WOLF & BRO., Dayton, Ohio.**

**TRADE GREENHOUSES.**

**THE BEST MADE.**  
"Florists" Get Your Plans and Estimate from  
**PLENTY'S HORTICULTURAL WORKS,**  
148-156 Randolph Ave., JERSEY CITY, N. J.  
When Writing Mention Florists' Exchange

**STANDARD VENTILATING MACHINE.**  
EQUAL IT IN Strength AND Durability. NONE IN NOTHING Flimsy OR Complicated about it.  
**E. HIPPARD, YOUNGSTOWN, OHIO**  
Send for Catalogue.  
When Writing Mention Florists' Exchange



**MASTICA**

FOR GLAZING GREENHOUSES. SUPERIOR TO PUTTY IN EVERY WAY.  
Is not hardened by the extreme heat or cold that a greenhouse is constantly subjected to both inside and out. Mastica is adhesive and remains permanently plastic so that it is not forced out of place by expansion and contraction of the wood-work. Shows a glass of 1 1/2 inches do not need re-glazing thus saving time and expense. With Mastica can "bed in" or use on the outside, but with a machine only.  
**Mastica and Mastica Glazing Machine were given HIGHEST AWARD OF SOCIETY OF AMERICAN FLORISTS AT PHILADELPHIA, 1876.**  
Put up in gallons, \$1.00. Half gallons, 60 cents. Quarter gallons, 36 cents.  
**Mastica Glazing Machines, \$1.00 each.**  
Send for full descriptive circular and testimonials. Agents in all the principal cities.  
**F. O. PIERCE CO., Sole Manufacturers, 170 Fulton St., New York.**  
When Writing Mention Florists' Exchange

**J. K. ALLEN,**  
Wholesale Commission Dealer in  
**CUT FLOWERS,**  
57 W. 28th St., New York.  
Orders by mail or catalogue promptly attended to.  
Tel. Telephone Call, 352 24th St.  
**ROSES AND VIOLETS SPECIALTIES.**

**W. S. ALLEN,**  
17 West 28th St., New York.  
  
Correspondence Solicited.

**J. B. EZEHEL,**  
Wholesale Florist,  
42 West 28th St., NEW YORK.  
Telephone 2723-18th.  
Asparagus, Valley, Carnations, Specialties,  Consignments Solicited.

**FORD BROS.**  
**WHOLESALE FLORISTS,**  
111 West 30th Street,  
NEW YORK.  
Consignments Solicited. Telephone 222 35th St.

**WM. H. CUNTER,**  
**Wholesale Florist**  
VIOLETS AND CARNATIONS A SPECIALTY.  
Consignments Solicited.  
30 West 29th St., New York.  
Telephone, 203-28th Street.

**MICHAEL A. HART,**  
**Wholesale & Commission Florist,**  
113 W. 30th St., New York.  
Telephone Call, 1307 88th St.  
All kinds of Roses, Violets and Carnations a Specialty.  
**ORDERS PROMPTLY ATTENDED TO.**

**H. A. HOFFMANN,**  
**Wholesale Florist**  
44 W. 29th St., New York.  
Telephone Call, 1658 88th St.  
American Beauties, White Violets, Adiantums, Specialties. CONSIGNMENTS SOLICITED.

**EDWARD C. HORAN,**  
**WHOLESALE FLORIST,**  
No. 34 W. 29th St., New York.  
The Bride, Helms and American Beauty, Specialties.

**J. M. KING,**  
**Wholesale Commission Florist,**  
49 W. 29th St., NEW YORK CITY.  
Wishes to inform growers and others, that he has enlarged his place to three times its former size, and is now able to handle a much larger quantity of stock than before.  
CONSIGNMENTS SOLICITED.  
Telephone 1672-35.

**JULIUS LANG,**  
**Wholesale Florist**  
53 WEST 30TH ST.  
Consignments Solicited. NEW YORK.  
When Writing Mention Florists' Exchange

**ERST G. ASMUS** Wholesale Florist.  
ROSE SPECIALTIES: Am. Beauty, Bride, Heraclesmum, Testout  
PRES. CARNOT, MORGAN, CHAMBERS, METEOR  
K. A. VICTORIA  
VIOLETS, ORCHIDS, CHRYSANTHEMUMS AND GARNATIONS.  
Grower of the only VALLEY receiving a World's Fair Medal.  
Special attention given to shipping orders.  
When Writing Mention Florists' Exchange  
TELEPHONE CALL, 733 10th St.  
A. L. VAUGHAN. CHAS. W. MCKELLAR. E. F. WINTERSON.

**VAUGHAN, MCKELLAR & WINTSON,**  
**WHOLESALE COMMISSION JOBBERS**  
In Cut Flowers, Plants, Bulbs, Seeds, Xmas Holly, Bouquet Green, and all Florists' Supplies. Manufacturers of Wire-work.  
45, 47, 49 WABASH AVENUE, CHICAGO, ILL.  
When Writing Mention Florists' Exchange

\* Wholesale Prices of Cut Flowers \*

NAME AND VARIETY.	NEW YORK	BOSTON	PHILADELPHIA	CHICAGO	ST. LOUIS
	Oct. 22 1897.	Oct. 25, 1897	Oct. 27, 1897.	Oct. 27, 1897.	Sept. 14 1897
A. Beauty, fancy and special	15.00 to 20.00	12.00 to 25.00	15.00 to 25.00	15.00 to 20.00	0.00 to . . .
" extra	8.00 to 10.00	6.00 to 10.00	10.00 to 15.00	10.00 to 15.00	5.00 to . . .
" No. 1	9.00 to 12.00	7.00 to 10.00	11.00 to 14.00	11.00 to 14.00	7.00 to . . .
" Culls and ordinary	.40 to .60	1.00 to 1.50	3.00 to 4.00	3.00 to 5.00	5.00 to . . .
Bonnet, Dutch	25.00 to 40.00	1.00 to . . .	2.00 to . . .	6.00 to 20.00	4.00 to 3.00
Bride	25.00 to 40.00	1.00 to . . .	2.00 to . . .	6.00 to 20.00	4.00 to 3.00
Bridemaid	25.00 to 40.00	1.00 to . . .	2.00 to . . .	6.00 to 20.00	4.00 to 3.00
E. A. Victoria	10.00 to 15.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00
F. Franco	10.00 to 15.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00
Marcel	10.00 to 15.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00
Mme. Testout	10.00 to 15.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00
Metor	10.00 to 15.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00
Mrs. E. Morgan	10.00 to 15.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00
Niphetos, Hohe	10.00 to 15.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00
Papa Gontier	10.00 to 15.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00
Perle	10.00 to 15.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00
Sony de Woodton	10.00 to 15.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00
Ulrich Branner	10.00 to 15.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00
Waterloo	10.00 to 15.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00
ADAPTIVE	10.00 to 15.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00
ASPARAGUS	10.00 to 15.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00
ARTIC	10.00 to 15.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00
CHRYSANTHEMUM	10.00 to 15.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00
Specials	10.00 to 15.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00
All colors, interior grades	10.00 to 15.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00
White	10.00 to 15.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00
STANDARD	10.00 to 15.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00
VARIETIES Bed	10.00 to 15.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00
Viel & Vase	10.00 to 15.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00
CARNATIONS	10.00 to 15.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00
" FANCY " White	10.00 to 15.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00
grades of Royal Bed	10.00 to 15.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00
" Yel. & Vase	10.00 to 15.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00
Novelties (Yel. & Vase)	10.00 to 15.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00
NOVELTIES (Yel. & Vase)	10.00 to 15.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00
CATTLEYS	10.00 to 15.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00
CYPRIPEDIUM	10.00 to 15.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00
GALAXIES	10.00 to 15.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00
LILIES-AMERICAN	10.00 to 15.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00
Longform	10.00 to 15.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00
LILY FINE VALLEY	10.00 to 15.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00
MILK	10.00 to 15.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00
SMILAX	10.00 to 15.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00
TUBEROSES	10.00 to 15.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00
VIOLETS	10.00 to 15.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00	2.00 to 5.00

For Prices of Fancy and Special Stock see our Correspondence Columns.  
Prices are for quantities of one hundred unless otherwise noted.  
Prices quoted above are given only after very careful inquiry, and while we do not guarantee their accuracy, they will be found practically correct up to the date mentioned.

**RENBERG BROS.,** Wholesale Growers of Cut Flowers. . . 500,000 Feet of Glass. . .  
We can fill all orders on short notice with all leading varieties of ROSES and CARNATIONS. We are headquarters for fine AMERICAN BEAUTIES. Give us a trial, and convince yourself.  
SALESROOM 511 Wabash Avenue, CHICAGO, Ill.  
When Writing Mention Florists' Exchange

**SAMUEL S. PENNOCK,** Wholesale Florist.  
A fine stock of Roses, Valley, Carnations, Smilax, Etc., coming in, of which we can fill orders on the shortest notice.  
EXTRA FINE STOCK OF BEAUTIES.  
A choice assortment of CYPRIPEDIUMS, \$2.50 per dozen.  
1612-1614 Barker St. Bet. Chestnut & Market St. Philadelphia, Pa.  
Local and Long Distance 'Phone 5210. Open until 8 P. M.  
When Writing Mention Florists' Exchange

**CITY HALL CUT FLOWER MARKET**  
15 Province St. and 9 Chapman Place,  
**WELCH BROS.,** (Long Distance Telephone 2071), Boston, Mass.  
New England headquarters for Choice Chrysanthemums, American Beauties, and other varieties of Roses, Carnations, Violets, etc. Orders can be filled promptly from the produce of sixty-five growers, and will telegraph.  
Hardy Ferns, Southern Smilax, Galax Leaves, always on hand.  
When Writing Mention Florists' Exchange

**MacDonald & McManus,**  
**Wholesale Florists**  
AND DEALERS IN  
**CUT FLOWERS,**  
50 W. 30th St., NEW YORK.  
3 High shipments of Cut Flowers on Commission. Best market prices guaranteed.  
Telephone, 2775-28th Street.

**FRANK MILLANG,**  
**Wholesale Commission Dealer**  
....in Cut Flowers....  
409 East 34th St., New York City.  
Cut Flower Exchange. Telephone Call, 164-34th.

**THE NEW YORK CUT FLOWER CO.**  
119-121 West 23d Street,  
112-114 West 24th Street,  
Telephone 733-182. NEW YORK.  
CONSIGNMENTS SOLICITED.  
Special Attention Given to Shipping Orders.

**F. A. ROLKER,**  
WHOLESALE DEALER IN  
**CUT FLOWERS**  
53 West 28th Street,  
Telephone 2379 38th St. NEW YORK.

**W. F. SHERIDAN**  
Wholesale Commission Dealer in  
**CUT FLOWERS**  
39 West 28th St., New York.  
Telephone, 214-28th St.  
PRICE LIST SENT ON APPLICATION.

FRANK H. TRAUBEL, CHARLES SCHENCK,  
**TRAENDLY & SCHENCK,**  
Wholesale Florists,  
38 W. 28th St. and CUT FLOWER EXCHANGE,  
NEW YORK.  
Telephone 981-28th St.  
Consignments Solicited

**JOHN YOUNG,**  
**Wholesale Florist,**  
61 WEST 28TH ST.,  
NEW YORK.

**KENNICOTT BROS. COMPANY,**  
**Wholesale Cut Flowers,**  
88 Wabash Avenue,  
CHICAGO, ILL.  
WIRE WORK A SPECIALTY.

**ROGERS PARK FLORAL CO.,**  
**Wholesale Growers of Cut Flowers**  
OFFICE AND SALESROOM,  
41 WABASH AVE., CHICAGO.  
Headquarters for AMERICAN BEAUTIES.

**ILLINOIS CUT FLOWER CO.,**  
J. B. DEAMUD, MANAGER.  
Wholesale Commission Florists,  
51 Wabash Ave., - CHICAGO.  
When Writing Mention Florists' Exchange

**Wholesale Florists**  
 JOBBERS IN  
 FLORIST'S  
 SUPPLIES.  
 FLORISTS' VASES.  
 Horticultural Acetone,  
 84 HAWLEY STREET, - BOSTON.

**S. FROWERT,**  
**Wholesale Florist,**  
 17 North 13th Street,  
 PHILADELPHIA, PA.  
 Consignments Solicited. Special Attention Given  
 to Shipping Orders.

**MAX RUDOLPH,**  
**Wholesale Florist**  
 All Seasonable CUT FLOWERS.  
 FINE ROSES.  
 Shipping orders a specialty. Consignments  
 solicited.  
 11 W. 13th St. - CINCINNATI, O.

**HEADQUARTERS** in Western  
 New York. Try us  
 ROSES, GARNATIONS AND  
 ALL SEASONABLE FLOWERS.  
**WM. F. KASTING,** Wholesale  
 498 Washington Street, Commission  
 BUFFALO, N. Y. Florist  
 Also Dealer in Florists' Supplies & Wire Designs

**GEO. A. SUTHERLAND,**  
 SUCCESSOR TO WM. J. STEWART,  
**CUT FLOWERS AND FLORISTS' SUPPLIES**  
**WHOLESALE.**  
 67 Bromfield St., Boston, Mass.

**EDWARD REID,**  
**Wholesale Florist**  
 1526 RANSTEAD STREET,  
 Bet. Market & Chestnut Sts., PHILADELPHIA.  
 All CUT FLOWERS in Season.  
 - Phone 386 A. -

**H. L. SUNDERBRUCH CO.,**  
**Wholesale Commission Florists,**  
 4th and Walnut Streets,  
 CINCINNATI, OHIO.  
 Consignments Solicited. Special Attention Given  
 to Shipping Orders.

**St. Louis**  
**Cut Flower Co.**  
 WHOLESALE  
 FLORISTS,  
 1620 Olive St.  
 ST. LOUIS, MO.

**WM. J. BAKER,**  
**Wholesale Florist**  
 1432 So. Penn Square,  
 Philadelphia, Pa.

**WM. C. SMITH,**  
**Wholesale Florist,**  
 40 S. 16TH ST.,  
 PHILADELPHIA.  
 Roses, Carnations, etc. Consignments  
 Solicited.

**C. A. KUEHN,**  
**WHOLESALE FLORIST,**  
 1122 Pine St., St. Louis, Mo.  
 A COMPLETE LINE OF WIRE DESIGNS.

**E. G. HILL & CO.,**  
**Wholesale Florists,**  
 RICHMOND, INDIANA.

**DUMONT & CO.,**  
**WHOLESALE FLORISTS**  
 GARNATIONS A SPECIALTY.  
 No. 1305 Filbert St., Philadelphia.

**Buffalo Cut Flower Exchange**  
**WHOLESALE COMMISSION.**  
 CONSIGNMENTS SOLICITED.  
 481 Washington St., BUFFALO, N. Y.  
 Telephone, Seneca, 1265.

**C. W. WORS,**  
**Wholesale Florist,**  
 913 N. LEFFINGWELL AVENUE,  
 ST. LOUIS, MO.  
 FINE ROSES—Shipped carefully to all  
 parts of the country.

**CHOCOLATE COOLER CO.,**  
 GRAND RAPIDS, MICH.  
 Manufacturers of  
**FLORIST'S REFRIGERATORS.**  
 Send for Circular.  
 When Writing Mention Florists' Exchange

**Trade Notes.**  
**Buffalo.**  
 The cut flower trade inclines to moderate, but with a recent fair call for flowers for funerals, occasions, and some minor festive affairs.  
 The supply of flowers is good. Chrysanthemums are now in good stock, good assortment, and in quality rather improved over past recent years. At Kasting's, some blooms of moderate size but the quality are received regularly from David Scott, of Fredonia, while those of George E. Fancourt, of Wilkesbarre and John Bishop, of this city, are also noticeable. Prices range from \$5 to \$15, this last being about the top measure of value.  
 The finest violets seen here just now are undoubtedly those from Wise Bros., East Aurora. The flowers find ready place at \$1 per 100.  
 Roses are quite plentiful, with carnations improving and going at \$1 to \$1.50 per 100 for good stock.  
 The Buffalo Cut Flower Exchange this week shows an improved stock of blooms, both in quality and quantity.

**Lebanon, Ind.**  
 William A. Bilger, the florist, has brought suit against the Indiana Natural and Illuminating Gas Company for \$4,500 damages. He asserts that in October, 1905, when he had his greenhouse well filled with choice flowers, it became necessary to make some changes in the position of the benches. He notified the gas company, and they shut off the gas. When the change had been made the inspector turned on the gas, took in the pipes allowed the gas to pass through into the greenhouse, killing all his flowers and ruining the specially prepared soil in which the flowers were planted.

**CUT CHRYSANTHEMUMS**  
 As Good as the Best. Grown and For Sale by  
**A. CUDE & BRO.,** Washington, D. C.  
 Get our prices on large or small quantities which are always  
 lowest for good quality flowers.  
 When Writing Mention Florists' Exchange

... FINEST ...  
**GALAX LEAVES AND**  
**LEUCOTHOE SPRAYS.**  
 Green Galax Leaves are now ready to ship.  
 ALWAYS WRITE THE INTRODUCERS,  
**HARLAN P. KELSEY,**  
 1123 Tremont Building, BOSTON, MASS  
 When Writing Mention Florists' Exchange

**Galax Leaves.**  
 CHAS. H. RICKSECKER, Linville, N. C.  
 When Writing Mention Florists' Exchange  
**ASPARAGUS ROOTS**  
 FOR FORCING.  
 Have a large stock of Asparagus Roots, and 4 years strong; considered large enough for forcing in greenhouses. Conveyer's, Hart's and Mammetto. Orders will be looked out for.  
**KNAS HOLY,**  
 December shipment. Prices of the above on application. State quantity desired.  
**ALEXANDER PULLEN, Milford, Del.**  
 When Writing Mention Florists' Exchange

**HEADQUARTERS**  
 ...OF...  
**PAMPAS PLUMES**  
**CALIFORNIA**  
 Tree and Shrub Seeds, Smitax,  
 Cobea, Grevillea robusta,  
**PALM SEEDS, Etc.**  
 Ask for Special Prices.  
**GERMAIN FRUIT CO.,** LOS ANGELES  
 CAL.
   
 Cut Strigs, 10 to 12 feet long  
 50 cts. each.  
 Shipped to any part of the  
 country.  
 - Brighton, Mass.

**Jottings.**  
 Some of our boys aim at something other than clay pigeons. Phillip Scott several days ago showed a good bagful of feathered and footed game laid low in local groves and meadows; while S. A. Anderson is talking about in similar quest in Orleans Co.  
 Eliza Denton, of Fredonia, N. Y., a grower of seed specialties and the Risley Fries smilax, planting stock, in a call on Saturday last reported weather conditions in their vicinity this fall most favorable to the successful cropping of the Exchange strawberry, quantities that run into hundreds of quarts having been harvested and naturally selling at good prices. She also stated that the vast bulk or extent of the Chautauque grape crop, even at the extreme low selling prices, tended to help swell the growers' totals. So individually that class is now feeling quite encouraged with existing conditions.  
 Charles Keitsch recently welcomed the addition of a girl friend to his family, and Mr. and Mrs. J. H. Rehstock last week were gladdened by a male new-  
 born.  
 Charles Huescott, of Wheeling, W. Va., recently spent several days in town as the guest of W. F. Kasting. YIELD.

**HARDY CUT FERNS**  
 High quality on hand  
 long, short, tall and winter  
 long, 20¢ per 100, 50¢ per  
 100, 75¢ per 100, 1.00 per  
 100, 1.25 per 100, 1.50 per  
 100, 2.00 per 100, 2.50 per  
 100, 3.00 per 100, 3.50 per  
 100, 4.00 per 100, 4.50 per  
 100, 5.00 per 100, 5.50 per  
 100, 6.00 per 100, 6.50 per  
 100, 7.00 per 100, 7.50 per  
 100, 8.00 per 100, 8.50 per  
 100, 9.00 per 100, 9.50 per  
 100, 10.00 per 100.  
 Cash with order.  
 When Writing Mention Florists' Exchange  
 Purnishers of  
 Evergreen, Hardy Cut Ferns, Laurel  
 and Process Pine Planting, Jowers, Wreaths of  
 all kinds, Christmas Trees, Etc. Lowest Prices  
 Always for First Quality Goods. Write for prices  
 on all goods desired. 27 Beacon St., Boston, Mass.  
 Home Office, Milington, Mass.  
 When Writing Mention Florists' Exchange  
**One Man's Experience.**  
 I have sold nearly 20,000 carnation plants and all  
 my violets from all in Exchange.  
 Southport, Conn., Oct. 27, '97. E. J. TAYLOR.

**ASPARAGUS PLUMOSUS NANUS,**  
**W. H. ELLIOTT,** - Brighton, Mass.  
 When Writing Mention Florists' Exchange

**HARDY FERNS**  
 WARRANTED FIRST QUALITY.  
 SPECIAL ATTENTION PAID TO SUPPLYING  
 WHOLESALE DEALERS.  
 Write for Prices.  
**BOUQUET GREEN, SPAGNUM MOSS, CHRISTMAS TREES,**  
 Etc., Etc., Etc.  
**L. B. BRACUE, - HINSDALE, MASS.**  
 \*OLDEST, LARGEST, AND MOST RELIABLE DEALER IN THE UNITED STATES  
 When Writing Mention Florists' Exchange

SAVE 50% DITY

ON METAL FLORAL DESIGNS By Buying of the Mass factory. Also... PREPARED CYCNS PALM LEAVES... ALL FLORISTS' SUPPLIES SECOND TO NONE... A. HERRMANN. 404, 406, 408, 410, 412 East 34th Street, NEW YORK CITY.

Florists' Supplies.

H. BAYERSDORFER & CO., 66 N. FOURTH STREET, PHILADELPHIA, PA. Largest Stock in the Country. All goods up to date, and of superior quality.

NEW LIST Just issued and mailed free to applicants in the trade. Contains a full of Horticultural and Florists' SUPPLIES... 52 DUY ST. NEW YORK.

CINERARIAS Fine strain of dwarf hybrid from 2 1/2 in. pots, \$1.50 per 100... English Dahlia, 30 cts. per 100... Geraniums, strong plants, 2 1/2 in. pots, double flowering standard varieties, \$1.00 per 100.

E. FRYER, Berriman St. and W 7th St. N. Y. When Writing Mention Florists' Exchange THE NEW PURE YELLOW DAHLIA,

Daffodil W. Boston

And all the leading new and old Dahlias are now in full bloom on our Dahlia farm at Atco, N. J. All interested are cordially invited to visit us and inspect them; also to visit the American Institute Show, Madison Square Garden, New York.

W. P. PEACOCK, Atco, N. J. When Writing Mention Florists' Exchange

PRIMULAS

- Very fine plants, some to bloom, \$5.00 per 100... Begonia Rex, 10 vars., 8 in. fine, 5.00... Begonia, Regener, Double Rex, new, the best Begonia out, 2.50... Geraniums, 25 choice varieties, \$1.50... 5,000 SMILAX, strong and lustrous, 2 in. pots, \$1.00 per 100...

GEORGE J. HUGHES, Berlin, N. J. When Writing Mention Florists' Exchange

LETTUCE PLANTS.

Fine transplanted, true, Grand Rapids Lettuce Plants, 50c. per 100, \$5.00 per 1000. A. J. BALDWIN, Newark, O. When Writing Mention Florists' Exchange

Small Fruits... Grape Vines... Extra fine stock of CEBRANTS, including the new and unrivalled WELLS... FITZGERALD PEACH

The finest quality yellow peach in tendency ripening mid season... California Violets, Field-grown, \$4.00 per 100.

Field-GROWN VINGA MAJOR VARIEGATA, 45.00 per 100... LOUIS C. PILAT, Seedman and Florist, SING SING, N. Y.

15,000 BEES (DAISY) PLANTS. Red, white and pink, 20c. per 100; \$1.50 per 1000. ELDRIDGE & CO., Wilkes Bars, Pa.

Ampeleopsis Veitchii. POT-GROWN SEEDLINGS, \$4.00 per 100.

J. KADLETZ, P. O. Box Dongan Hills, N. Y. When Writing Mention Florists' Exchange

PEACH AND PLUM TREES FOR PALE... Reliable and clean stock at lower prices than elsewhere... PEACHES AND PLUM TREES all on plum roots, one and two years. Buds can be supplied of these also, either from trees or grafted trees.

F. & F. NURSERY, SPRINGFIELD, NEW JERSEY. Our Specialties this Season: PEACH, Plum, Japan Walnut and Shade Trees.

AFTER THE "MILK" Isley Flats Smilax. Stock which is now ready gives a fine growth fit to cut in 60 days from planting, and so will come right after Christmas, when good Smilax inclines to be scarce.

'Twill Pay! Try It! DAN'L B. LONG, Growers' Agent, - BUFFALO, N. Y. When Writing Mention Florists' Exchange

LETTUCE PLANTS.

Big Boston, Burton Market, Tonnies Ball, White Head, Grand Rapids, etc. with extra. For mailing, 15 cts. per 10; \$1.00 per 100. If by mail add 10 cts. per 10.

GIANT DOUBLE ALYSIUM from 2 in. pots, \$2.00 per 100. Cash with order.

100,000 PEACH TREES All Leading Varieties, 8,000 Plum trees, 1,000 Apricots, 10,000 Apple trees, 3 years, 8 to 9 in. and York Imperial.

10,000 Norway Maple, 10,000 seedlings, 1000 Silver Maple, 10 to 14 ft., 200 Sugar Maple, 10 to 12 ft., 200 American Sweet Chestnut, 5 to 7 ft., 100 Ridgely Chestnut, 5 to 7 ft., 100 American Elm, 5 to 7 ft., 1,000 Norway Spruce, 2 to 3 ft., 1,000 American Arborvitae, 2 to 3 ft., 200 Oak Leaf Birch, 7 to 9 ft.

AZALEA AMENA In 24 and 3 1/2 inch pots. Also 2 year and 3 year plants in open ground, from \$2.00 to \$5.00 per 100.

HYDRANGEA THOS. HOGG. Strong 2 year plants, from open ground, with 9 to 12 strong shoots, from \$2.00 to \$5.00 per 100. DEUTZIA GRACILIS AND ERBERIA THUNBERGI, 1 year, 2 years and 3 years, \$1.50 to \$15.00 per 100. SEND FOR PRICE LIST.

SAMUEL C. MOON, Harrisville, Pa. When Writing Mention Florists' Exchange

P. OUWERKERK, 1123 Summit Ave., Jersey City, N. J. Just received from our Holland Nurseries:

- RHOODENDRONS, AZALEAS, SPIRAEA JAPONICA, LILIUUM SPECIOSUM, PÆONIES, BLEEDING HEART, POT-GROWN LILACS, HYDRANGEA IN SORTS. CLEMATIS and H. P. ROSES, in the best sorts. PRICES MODERATE.

F. & F. NURSERY, SPRINGFIELD, NEW JERSEY.



We are a straight shoot and aim to grow into a vigorous plant.

A WEEKLY MEDIUM OF INTERCHANGE FOR FLORISTS, NURSEYMEN, SEEDSMEN AND THE TRADE IN GENERAL.

VOL. IX, NO. 45.

NEW YORK, NOVEMBER 6, 1897.

One Dollar Per Year.

### HERE IS A CHANCE!

## DAMMANN'S NEW ORCHID FLOWERING CANNAS.

Best Cannas, suitable for pot culture and Christmas flowering. Large, dormant, field-grown roots with many eyes, for immediate delivery.

**AUSTRIA**, clear yellow, \$5.00 per 100; \$45.00 per 1000.

**ITALIA**, scarlet, with yellow edge, \$10.00 per 100; \$90.00 per 1000. 250 at 1000 rates.

Surplus of Hyacinth, Tulip, Narcissus and Hartzell Lily Bulbs. Will close out below cost. Write for prices, etc.

## CLUCAS & BODDINGTON CO.

IMPORTERS, EXPORTERS AND GROWERS' AGENTS OF SEEDS, BULBS AND PLANTS,

Telephone Call 403 18th St.

501-503 W. 13th St., N. Y. CITY.

When Writing Mention Florists' Exchange

## RETAIL FLORISTS WHO WANT No. 1 HOLLY

FRESH FROM THE WOODS

SHOULD WRITE AT ONCE FOR SQUIRE'S HOLLY CIRCULAR AND PRICE LIST.

A Few Testimonials Taken From Squire's Holly Circular.

Thanks for the case of Holly you sent. It gave perfect satisfaction.  
HENRY A. BESTER, Hagenstown, Md.  
The Holly was very fine, and came in very good condition. Do not think I ever saw finer Holly.

The Holly was exceedingly satisfactory. We will know where to get Holly next year, with many thanks. Truly yours,  
FOOTE & CO., Huxart, N. Y.  
The Holly was exceptionally fine, and sold well.  
JOHN A. BECK, Milton, Pa.

## P. C. SQUIRES, - - - BERLIN, MD.

When Writing Mention Florists' Exchange

WE OFFER A LARGE STOCK OF

## FINEST NAMED TULIPS,

Almost as cheap as common mixed varieties are usually sold. We have a very large stock of these fine holding and forcing varieties, and offer them as long as in stock at remarkably low prices. Prices of Tulips are now so low that it should result in a largely increased use of these showy flowers. We offer the following sorts, viz:

- SINGLE.** Bizar Verdiet, Cardinal's Hat, Crimson King, Eleonora, L'Inmaculee, Arms of Leiden, Duc Van Thol, La Reine, 75 cts. per 100; \$6.00 per 1000.
- Double Mixed Single Varieties,** 60 cts. per 100; \$4.50 per 1000.
- DOUBLE.** Rose Blanche, Blanc Borde Pourpee, Gloria Solis, Tithian, 75 cts. per 100; \$6.00 per 1000.
- Pony Red, Queen Victoria,** \$1.00 per 100; \$7.00 per 1000.
- Finest Mixed Double Varieties,** 75 cts. per 100; \$6.00 per 1000.

For complete list of varieties, see our Wholesale List, sent free on application.

- We also offer an extra fine lot of
- DOUBLE VON SION NARCISSUS** Double Yellow Daffodi.
  - These are extra selected mammoth bulbs, ranging from 2 in. in diam. up, and, under favorable conditions, should produce about two flowers to the bulb.
  - Full case lot of 2000 bulbs, \$8.00 per 1000.
  - In less quantities: \$15.00 per 100; \$10.00 per 100.
- |  |                 |                  |
|--|-----------------|------------------|
| Paper White Narcissus Grandiflora..... | \$1.25 per 100; | \$10.00 per 1000 |
| Narcissus Princps.....                 | 1.50 "          | 13.00 "          |
| Trumpet Major.....                     | 1.50 "          | 12.00 "          |

## HYACINTHS.

- |   |      |       |
|---|------|-------|
| Named Hyacinths for Forcing or Bedding, best sorts only.....                  | 1.00 | 10.00 |
| Hyacinths in Separate Colors.....   | 3.50 | 30.00 |
| Dutch Romans, finest named sorts, much better than mixtures usually sold..... | 3.00 | 25.00 |
| Small named Hyacinths (pink, white and blue).....                             | 1.50 | 12.00 |
| White Roman Hyacinths, extra quality bulbs.....                               | 2.00 | 20.00 |
| Pink Roman Hyacinths, extra quality bulbs.....                                | 2.00 | 20.00 |

For complete list of bulbs, see our Full Wholesale List, sent free on application.

## F. R. PIERSON CO., TARRYTOWN-ON-HUDSON, NEW YORK.

When Writing Mention Florists' Exchange

## ROSE HILL NURSERIES.

The Largest and Finest Stock in America.

### ARECA LUTESCENS.

- |   |           |                |
|---|-----------|----------------|
| 3 1/2 in. pots, bushy, 12 to 15 in. high..... | DOZ. HEN. | \$3.00 \$20.00 |
| 4 " " " 18 to 20 in. high.....                | DOZ.      | 4.00 30.00     |
| 4 " " " 20 to 25 in. high.....                | DOZ.      | 5.00 40.00     |
| 8-9 " " " 3 to 5 ft., \$4, \$5 and \$8 each   |           |                |

### COCOS WEDDELIANA.

- |  |           |                |
|--|-----------|----------------|
| 2 1/2 in. pots, extra fine, 5 to 6 leaves.....         | DOZ. HEN. | \$3.00 \$15.00 |
| 3 in. pots, extra fine, strong.....                    | DOZ.      | 2.50 20.00     |
| 3 in. pots, extra fine, very strong.....               | DOZ.      | 3.00 25.00     |
| selected.....  |           | 3.50 25.00     |
| 3 1/2 in. pots, extra fine, very strong, selected..... |           | 4.00           |

### KENTIA BELMOREANA.

- |   |           |               |
|---|-----------|---------------|
| 5 in. pots, extra strong, bushy, 5 to 6 leaves, 12 to 20 inches high..... | EACH DOZ. | \$0.75 \$8.00 |
| 6 in. pots, heavy, 2 to 2 1/2 ft. high.....                               |           | 1.50 18.00    |
| 7 in. pots, heavy, 2 to 2 1/2 ft. high.....                               |           | 2.00 24.00    |
| 8 in. pots, \$6 to 40 in., decorative size, \$3.50 to \$2.00 each.        |           |               |

### KENTIA FORSTERIANA.

- |   |           |                |
|---|-----------|----------------|
| 3 in. pots, 12 to 15 inches high.....         | DOZ. HEN. | \$2.00 \$15.00 |
| 4 " " " 15 to 18 ".....                       | DOZ.      | 4.50 35.00     |
| 6 " " " 2 to 2 1/2 ft. high, \$1 25 each..... |           |                |
| 7 " " " 2 to 2 1/2 " \$2 to \$2 50 "          |           |                |

### LATANIA BORBONICA.

- |   |  |                  |
|---|--|------------------|
| 5 in. pots, 2 ft. specimens.....                                  |  | \$15.00 per doz. |
| 6 in. pots, perfect specimens, 2 1/2 leaves.....                  |  | \$18.00 per doz. |
| 7 in. pots, perfect specimens, 8-9 leaves, \$2.00 to \$2.50 each. |  |                  |

All measurements taken from top of pots. WRITE TELEGRAPHICALLY OR TELEPHONE US, and our carriage will meet you.

## SIEBRECHT & SON, NEW ROCHELLE, N. Y.

When Writing Mention Florists' Exchange

## JUST ARRIVED

- Imported Lilliums
- Auratum
- Album
- Rubrum
- and Melpomene

- We still have a Fair Assortment of Dutch and French BULBS
- Will make Special Low Prices to Close them out

84 & 86 RANDOLPH ST., CHICAGO.

## Book Your Orders Now for Vaughan's

"GET THERE" BRAND

## Xmas Holly and Bouquet Green

Our experience of over 20 years in handling these goods should be assurance to you that we know how to get the cream of this stock and place it with you at the right time. Quotations on application.

Headquarters for

## Chinese Sacred Lilies

One of the best selling bulbs for the retail counter. Strictly choice stock, lots of 125 at 45¢ each. Write for price on quantities.

## Fancy Liliom Longiflorum

Japan Grown. Supply Limited.

- |                  |                |                  |
|------------------|----------------|------------------|
| 7 to 9 inch..... | \$3.00 per 100 | \$42.50 per 1000 |
|------------------|----------------|------------------|

## Lily of the Valley

A Specialty with us. Qualities, best obtainable.

"London Market," the first pair in existence for early forcing. Per 100, \$1.45; per 1000, \$15.75; case of 250, \$37.75.

Premiums, equal to "London Market" for late forcing. Per 100, \$1.50; 1000, \$12.25; case of 250, \$30.00.  
International, a first-class Hamburg Pip. Per 100, \$1.35; 1000, \$13.00; case of 250, \$24.50.  
VAUGHAN'S SEED STORE, 14 Barclay St., NEW YORK.

When Writing Mention Florists' Exchange

TIME compels us to again reduce our prices, and will offer for one week only:

Table listing various flower varieties such as Hyacinths, Narcissus, Tulips, and others with their respective prices.

THIS OFFER WILL NOT APPEAR AGAIN

WILLIAM ELLIOTT & SONS, 54 and 56 Dey St., New York.

When Writing Mention Florists' Exchange

COSMOS GIANT FLOWERED, EARLY BLOOMING.

Six splendid varieties, separate, \$1.00 per bunch. Mixed, 75 cts. per ounce.

New California Imp. Grand, Giant Flowered California 'submarina', \$1.00 per ounce.

Apple Cereanthe, fresh, 100 per 100 seeds; \$1.00 per 100 seeds.

Mrs. THEODOSIA B. SHEPHERD, Ventura-by-the-Sea, Cal.

SNAPS IN BULBS

We offer the following list, until stock is sold, at the extremely low prices named. Bulbs all in perfect order.

Table listing various bulb varieties like Narcissus, Hyacinths, and others with prices.

Order at once before stock is sold.

THE PAGE SEED CO., GREENE, Chenango Co., N. Y.

When Writing Mention Florists' Exchange

SEEDS

KENTUCKY BLUE GRASS (POA PRATENSIS).

CHAS. E. PRUNTY, MAIN AND MARKET, SAINT LOUIS.

When Writing Mention Florists' Exchange

SEEDS

RED TOP BLUE GRASS, ORCHARD GRASS, MEADOW FESCUE and SUNFLOWER.

J. CHAS. McCULLOUGH, SEEDSMAN, CINCINNATI, O.

JOBBING TRADE A SPECIALTY.

JAPANESE BULBS

Orders sent before NOVEMBER 10th, will receive discount of 5 per cent from Catalogue price.

Also "CALIFORNIA GROWN SEEDS" SWEET PEA, and all other FAVORITE FLOWER SEEDS.

Address H. H. BERGER & CO., St. Paul's Building, 220 Broadway, New York.

When Writing Mention Florists' Exchange

ROMANS! ROMANS! ROMANS!

JUST ARRIVED IN FINE CONDITION, READY FOR DELIVERY.

Special low quotations for large and small quantities. Don't wait, but speak quick, before they have gone again. This is the last shipment for this season!

Lilium Harristall and Longiflorum, 57, only a few left. Dutch Hyacinths, Narcissus, and other bulbs, are in the finest ever handled. A few thousand Ficus elastica still on hand. Azaleas. Write for prices. My stock does not need any recommendation, it speaks for itself.

F. W. O. SCHMITZ, JERSEY CITY, N. J. When Writing Mention Florists' Exchange

BARGAIN LIST OF BULBS

TO CLOSE OUT SURPLUSES.

OFFER HIGHER GOOD UNTIL ALL ARE SOLD. COMPARE PRICES.

Table listing various bulb varieties like Hyacinths, Narcissus, Tulips, and others with prices.

American Bulb Company, SHORT HILLS, N. J.

Importers and Growers, When Writing Mention Florists' Exchange

ASPARAGUS SPRENGERI

Five stock, 2 1/2 inch pots, at \$7.00 per 100; 2 1/2 inch, \$12.00; 3 inch, \$16.00. Seed, \$1.00 per 100; \$1.00 per 100.

Philadelphia, 404 E. 34th St., New York. Sole Agent for F. C. Pommeroy, Hamburg.

When Writing Mention Florists' Exchange

SEED TRADE REPORT.

Points and information from seedsmen, and all interested in this column, solicited. Address: Editor SEED TRADE, care of FLORISTS' EXCHANGE, P. O. Box 167, New York.

JEROME B. RICE, Cambridge, Mass. J. C. MILLER, Philadelphia, Pa. (Consult Vice-President: S. F. WILLARD, Wethersfield, Conn., Secretary and Treasurer.)

European Notes.

Beas. Very little change has taken place since the last notes were printed, except...

A shortage of these would be very acceptable still now, particularly so if...

W. & D'S. SURE MUSHROOM SPAWN. Special quotations to large buyers.

ALL KINDS OF BULBS, Lilium, Haristall, etc.

WEEBER & DON, Seed Merchants, 114 Chambers St., NEW YORK CITY.

When Writing Mention Florists' Exchange

BURPEES SEEDS

WHOLESALE PRICELIST FOR FLORISTS AND MARKET GARDENERS.

When Writing Mention Florists' Exchange

HEADQUARTERS FOR

BLACK CALLAS, all sizes, CYCLAMEN, etc.

H. B. FAUST & CO., Philadelphia, Pa. When Writing Mention Florists' Exchange

ALMA

Seed FRESH ON HAND

ALL SEASONABLE VARIETIES. Prices for select seeds quoted on application.

J. L. SCHILLER, 404 E. 34th St., NEW YORK

When Writing Mention Florists' Exchange

One Man's Experience. I have sown nearly 30,000 exhibition plants and all by title from the 'ALMA'.

Southport, Conn., Oct. 27, '97. E. J. TAYLOR.

While we are waiting for the startling novelties which are possibly "up the sleeve" of the vendors of these seeds...

of last year's introductions which did not meet with the attention of the nurserymen...

named Poppadour. For a long time we have been producing in great profusion blooms as large and perfectly formed as any we have ever seen...

the Marguerite Aster. The Galathea-like stamens or Marguerite aster has hardly come up to our expectations.

of the making our autumnal selections is thus rendered very easy, while all the necessary "roughing cut" will be very thoroughly done.

One of the most striking features of the situation at present prevailing of cabbage, broccoli, broccolini and Brussels sprouts that we have seen in our 150 years of experience...

A careful examination of most extensive trials of cabbage pieces Burpee's will only be.





**HERR'S BABIES**  
FINE PLANTS  
75c. per 100  
ARE THE BEST. \$5 per 1000  
**ALBERT M. HERR,**  
When Writing Mention Florists' Exchange

**..CARNATIONS.**  
My experiences with the old and the new will be ready November 15th, and mailed for the asking.  
- - - Lancaster, Pa.  
When Writing Mention Florists' Exchange

**CARNATIONS.**  
A great deal of dark weather may be expected for some time, and it is needless to say that unusual care must be exercised during periods of cloudy weather in regard to watering. It is during dark, mild weather, that most of the injury is done by improper watering, and many are inclined to save fuel and so keep their houses closed, or nearly so, thinking that so long as the proper temperature is maintained, all is well. This has often been pointed out as a mistake, and it is one of the most grievous errors that can be committed. It is better to make burnings a time, more than any other, the ventilators should be open sufficiently to allow for perfect circulation. We know that the state or condition of the atmosphere is all important to the health of the flower, and that it is not an attempt to economize too much on fuel at the expense of the plants, but rather to give them the best substitute for a naturally light atmosphere, such as we derive from continued bright weather, by keeping the fires going. It is far better to have the steam (or other heat is used) going day and night, and to keep the ventilators partially open. In this way we can have a constant amount of air, and its circulation will aid the plants to take up more nourishment, and at the same time prevent the appearance of stiffness, a structure so much desired and needed in the carnation, than they could do in a close atmosphere, be the temperature what it may. During dark weather less water is required, and the experienced grower often makes the mistake of watering his plants when they do not require it. Do not water the leaves, do not water them yesterday or the day before, they must be watered to-day, but examine the soil, and see whether or not it requires water. It is far better to keep the plants on the dry side during wet weather, than to water them too liberally, and instead of your plants falling flat and limp at the first appearance of the sun, a pleasing one will be the case.

**GRALLERT & CO.**  
**CARNATION GROWERS,**  
**COLMA, SAN MATEO CAL.**  
When Writing Mention Florists' Exchange

**CUTTINGS OF**  
**Warrison's White Carnation**  
Ready by the 1st of January, '98, at \$4 per 1000. Cash with order or satisfactory reference.

**JOHN HARRISON,**  
729 Bergen Ave. Jersey City, N. J.  
When Writing Mention Florists' Exchange

**H. WEBER & SONS,**  
**CARNATIONS**  
**OAKLAND, MD.**  
When Writing Mention Florists' Exchange

**Field-Grow Carnations**  
5000 WM. SCOTT . . . \$20.00 per 100.  
1000 PORTIA . . . \$3.00 per 100.  
3000 FISHER . . . \$3.00 per 1000.  
1500 MCGOWAN . . . 500 at 100 rate.  
500 TIDAL WAVE . . .  
The above named plants are fair size and are clean stock. We ship all of our plants upright and packed in moss.

**EDW J. TAYLOR, Carnation Grower,**  
SOUTHPORT, CONN.  
When Writing Mention Florists' Exchange

**EXCELSIOR**  
**Carnation Supports**  
Not an experiment, as they have been in practical use for four years, over one million in use. Endorsed by prominent growers. Made of galvanized wire, will last a lifetime. Cheapest, most easily adjusted of any on the market.  
LENGTH—10, 12, 15, 18 and 20 inches.  
PRICES—per 10, \$1.00; per 100, \$8.00; per 500, \$37.50; per 1000, \$75.00.  
GERANIUMS & C. Note: Benate Potting, \$2.00 per 100; \$15.00 per 1000.  
CARNATION FERTILIZER—Containing 6 per cent. potash; one half as much as of sheep manure and get double the results; \$2 per 100 lb.

**GROUND HONE**—The best sand paper, \$1.50 per 100; \$5.00 per 1000. Sample free, post-paid.

**H. F. LITTLEFIELD, Worcester, Mass.**  
When Writing Mention Florists' Exchange

**BUSHY FIELD-GROWN CARNATIONS**  
With plenty of roots. Send for prices.  
**GEORGE HANCOCK & SON, Grand Haven, Mich.**  
When Writing Mention Florists' Exchange

**FIELD-GROWN CARNATIONS**  
Good, strong, healthy plants. Write for kinds and prices. Delivery after Sept. 10th.  
**LOGAN AVE. GREENHOUSES, Danville, Ill.**  
When Writing Mention Florists' Exchange

**Field-Grown Carnations Plants.**  
Portia, Wm. Scott, Lizzie McGowan, Daybreak, Alaska, Fillov Red, } at \$4.00 per 100.  
Orange Blossom, Mrs. Fisher, } at \$3.00 per 100.  
**GEORGE B. WHITEHEAD,**  
Lock Box 116 Greens Farms, Conn.  
When Writing Mention Florists' Exchange

**Carnations and Ferns.**  
**Scott, Portia and McGowan.**  
1st quality, \$4 00 per 100; \$45.00 per 1000  
2d " " " " 25.00  
**Adiantum Cuneatum.**  
Seedlings, \$1 25 per 100; \$10.00 per 1000  
2 in. pots, 3.00 " 25.00 " 100  
6.00 " 50.00 " 100  
8.00 " 80.00 " 100  
**Adiantum Pubescens, Pteris Onwardii, Pteris Adiantoides,**  
2 in. pots, \$3.00 per 100; \$25.00 per 1000  
**THE BLOOM FLOWER CO.,**  
ITHACA, N. Y.  
When Writing Mention Florists' Exchange

**CARNATIONS**  
After the early Chrysanthemums are thrown out, many florists plant carnations. We have a few thousand plants bred in, in the cold houses, suitable for this purpose; they are first-class plants, the best of \$4.00 net out in the spring.  
800 Grace Wilder 200 Scott  
2000 Silver Spray 600 Ericsson  
2000 Portland 500 Rosalind  
800 Dean Hole 100 Armistead  
1500 Fortia 100 Mrs. Carnegie  
**\$4.00 per 100.**

**J. L. DILLON, - Bloomsburg, Pa.**  
When Writing Mention Florists' Exchange

**CARNATIONS**  
To close out, we offer the following Carnations in strong field-grown plants, that were lifted and potted up into five inch pots about the middle of September, and are now stored in cold frames, at unusually low prices.  
Being established in pots, this stock will stand transportation much better than plants shipped direct from the open ground.  
50 Annie H. Lonsdale, white, \$5.00 per 100  
250 Bridemaid, pink, " " " " 5.00 " 100  
175 Ophelia, pink, " " " " 5.00 " 100  
500 Thimble Top, white, \$3.00 " 100  
500 William Scott, pink, " " " " 3.00 per 100.

**VIOLETS.** We have still a fine lot of strong, field-grown clumps of Luxonne Violet at \$8.00 per 100.

**HERMOSA ROSES** EXTRA HEAVY TWO YEAR OLD. We have nearly two dozen growing of this best of all market Roses, and offer selected plants, suitable for 6 and 7 inch pots. \$1.50 per doz.; \$12.00 per 100; \$110.00 per 1000. Strong plants for 5 and 6 inch pots. \$1.25 per doz.; \$5.00 per 100; \$70.00 per 1000.

**DEUTZIA GRACILIS** FOR FORCING. A fine lot of shapely plants suitable for 7 inch pots. \$8.00 per 100; \$75.00 per 1000.

**POT-GROWN LILACS** FOR FORCING. A grand lot of pot-grown plants of Charles X. and Marlo Legraye. \$6.00 per doz.; \$50.00 per 100.

**HENRY A. DREER, 714 Chestnut St., PHILADELPHIA, PA.**  
When Writing Mention Florists' Exchange

**CHAS. T. SIEBERT** THE RESTLESS, SLEEPLESS FLORIST OF PITTSBURGH, PA. GROWS & SELLS CARNATIONS THAT PAY.

**30,000 CARNATIONS**  
Field-grown, fine, bushy, healthy plants. No buds on them . . .

**WELL-GROWN PLANTS. CHEAP FOR CASH.**  
Alaska, Silver Spray, Hector,  
Portia, L. McGowan, T. Ward,  
Metour, Daisy Hill, Wm. Scott,  
Juno, Buttercup, M. C. C. C.,  
T. Cartledge, Mrs. Fisher, Helen Keller,  
Bismark, A. Lonsdale, L. L. Lamborn,  
Portland, Daybreak.  
1st size, cash with order, \$5.00 per 100  
2d " " " " 3.00 " " " "

Peach Blow, Emma Washer, Trimpsh,  
Della Fox, Yellow Jacket,  
1st size, \$7.00 per 100  
2d " " " " 5.00 " " " "

I study to please every patron and pack carefully in light boxes. I guarantee entire satisfaction and big value for the money. We have three express companies, Adams, American and United States.

**CHAS. T. SIEBERT, Sta B. Pittsburgh, Pa.**  
When Writing Mention Florists' Exchange

**CARNATIONS**  
**F. DORNER & SONS CO.,**  
La Fayette, Ind.  
When Writing Mention Florists' Exchange

**MORELLO**  
Field-grown, at \$1.50 per dozen; \$10.00 per 100.  
**HOPP & LEMKE,**  
Post Office EAST GRAND RAPIDS, MICH  
When Writing Mention Florists' Exchange

**FIELD GROWN CARNATIONS**  
**and VIOLETS,**  
Ready September 15th.

**JOSEPH RENARD, Unionville, Chester Pa.**  
When Writing Mention Florists' Exchange

**WHO WANTS THIS STOCK?**  
200 Portia Carnations. . . . \$2.00  
100 Golden Gate Carnations. . . 4.00  
200 McGowan Carnations. . . . 2.00  
200 S. White Violets. . . . . 2.00  
For the lot, \$10.00  
Cash with order, please.

**HENRY HULICK, Florist, Eatontown, N. J.**  
When Writing Mention Florists' Exchange

## POUGHKEEPSIE, N. Y., SHOW.

The Dutchess County (N. Y.) Horticultural Society held its annual exhibition in the Armory, November 3, 4, 5. The success which has been noted from season to season was again repeated. Taken as a whole, this season's show was fully equal, and in some points superior, to previous exhibitions. The general arrangement of the exhibition was a decided improvement. Trade displays were more numerous, as also were foliage plants, groups of the same, ferns, etc., cut roses and carnations. Carnations, in particular, were also more abundant than last year, and many of the classes were well filled, there being often five or six contestants. The general average of the flowers was excellent, many of them being of the varieties Mrs. Henry Robinson-Viviani-Morel, Mutual Friend, and Mrs. Peabody.

One great incentive to such a good showing of fine material was the large special awards offered, and it was in such classes that the best kinds were shown.

One of the keenest contests of the day was for the Henderson prize calling for violets. J. L. Bates, Mrs. C. W. Russell, Mrs. Robinson, and A. Herrington, Frank Hardy. The latter were fine and showed contrast on their own grounds in the foliage. On the other hand, Mr. Powell's Mrs. Robinson were heavier and more uniform in color, they were 12 marvelous blooms.

Cut blooms on boards is always a feature, and this year was especially so. Generally used, The Butterfield prize for 24 blooms brought out six exhibitors, and was in this category that the very best flowers were found. Mr. Blair may be rightfully complimented upon his 24 blooms, for they were excellent and rarely are they equalled.

Violets, naturally, are one of the leading crops of the exhibition, and this year exhibitors were encouraged by some very liberal special prizes in addition to the Society's regular ones. But owing to the earliness of the season and the violet crop being late (we heard that the violet crop was not in at least three weeks late, but will be finer than usual after that date), the display was smaller than that of last year, and was a slight falling off in quality as compared with other years.

Charles Emerson, gardener to the estate of W. B. Dinmore, Esq., made a circular group of orchids, particularly attractive. The centerpiece was a grand plant of Cattleya Bowringiana, bearing seven spikes. The flowers were of pale C. labiata, all special types and very fine. C. maxima Backhouseana, with eleven flowers, was surely a conspicuous plant; other cattleyas were C. gigas and C. speciosissima. Dendrobium phalaenopsis Schlegeliana was very fine. Cyclopiums were well represented, among them being C. spectabilem and C. maculatum. The latter was particularly fine. For the best table of decorative plants, Mr. Emerson was again first with a group of crotons, some of which were colored, and for the main part in four-inch pots. There were also several choice groups of dracaenas, some of which were through the group and the whole was edged with Selaginella Emihana.

For the best fern garden to the Hon. Levi P. Morton, was second with a very fine lot.

For the best six foliage plants the awards again went to the same exhibitors in same order.

For the best group of ferns, Mrs. Rogers, Esq., Hyde Park, was the only exhibitor for three specimens. This was the best group shown. Mr. Emerson was first and F. Newbold second. Both lots contained some very fine ferns. The award was first for the pair of Adiantum emarginatum. In the open class for decorative plants, Mrs. Emerson was first and F. H. Rose, Co., Tarrytown, was the only exhibitor. Nevertheless the group would have had been a very close one had there been any competition. In the class calling for a group of chrysanthemum plants, Mrs. Emerson, Agar, gardener to Fred Vanderbilt, Esq., was the only exhibitor, and it is questionable whether or not she had any single-stem plants have ever been seen in this country. The grouping also was unusual. The work was improved and plants, and the foliage emerged down

to the pots. The growing and arranging was done by an assistant named James Bell.

C. W. Russell, gardener to C. F. Dietrich, of Albany, secured first prize for best bush plant, with Ivory, and the Allen prize with a monster plant of the variety, Mrs. C. W. Russell. He also secured the premier award in his class with a magnificent plant of the variety, Mrs. C. W. Russell. He put up six grand plants grown to single stem; his varieties were Mrs. C. W. Russell, Mrs. Peabody, Viviani-Morel, Mutual Friend, and Philadelphia.

For twelve white blooms there were three competitors. A. Herrington was first with Mayflower; W. C. Russell, second with Mrs. C. W. Russell. For twelve yellow, A. Herrington was first with extra fine Miss Georgiane Fremont.

In class for twelve pink there were also three competitors, W. C. Russell was first with Viviani-Morel of superb color. Mr. Herrington being second with blooms of greater size and stem, but lacking the color and freshness of the former.

For twelve crimson the first prize was given to Mrs. G. W. Childs and the second to L. L. Powell with the same variety.

For twelve blooms to a vase arranged for effect with other foliage, open to private gardeners, there were four in the class. The best was by Mrs. Blair with fine blending of Japan maples and mixed yellow varieties. In the same class Mrs. C. W. Russell, Mrs. J. H. Grigg, gardener to Charles De Rham, Esq., Cold Spring, N. Y., with the same variety was second.

For cut blooms on boards, best twenty-four, first prize went to E. Grigg, second to W. H. Porter, heavy, second to W. H. Porter, light. Esq. The last named exhibitor also secured the first premium for best bloom.

The Sherman prize for twelve blooms on a board, open to all exhibitors, and developed the keenest and best competition of the show. Mr. Blair captured the prize with heavy, second to Mrs. G. W. Childs, third to Mrs. C. W. Pullman, Viviani-Morel, Miss C. H. Bates, Mrs. Robinson, Mrs. James W. C. Russell, Mrs. Peabody, Mrs. C. W. Philadelphia, Lady Playfair, and Major Bonafant. Mr. Blair also secured the prize for twelve blooms on a board with a grand lot. In this set was a bloom of Mrs. Peabody ten inches in diameter, and another of twelve inches pink went to Mr. Russell.

For six yellow, first went to Hamilton Scott, Hillbrook, second to A. Herrington. Bonafant was the variety exhibitor.

For six white, first to A. Herrington with Frank Hardy; second to W. Turner.

For best 100 violets, first, Stanton Rockefeller, Ethelbeck; second, F. R. Newbold; third, J. W. Feeter, Highland.

The Society's silver cup for the best 250 blooms went to C. F. Bahret, Poughkeepsie.

For the Platy prize, \$25, for the best 100 blooms, there were eight entries, Mrs. F. R. Newbold being the only competitor. For best 100 single Paul Gindra was first, Sloan Bros, staged the second, and the third to Mrs. C. W. very fine. G. Salford, Ethelbeck, exhibited the pin violet, Mrs. J. J. Astor.

For the best carnation class, first prize for 25 white, went to W. Turner, with heavy blooms of Flora Hill, second to W. Turner, second to W. Turner. For 25 pink, first to Owen G. Owen, Monroe, with Triumph; second to W. Turner, with Mrs. C. W. Owen. W. Turner was again first with a grand lot of Jubilee. This exhibitor was also first in the class for 25 white and pink. Herman Asher was first for 12 pink. W. Turner secured the first for a collection of 25 yellow, first to W. Turner, the Mill's prize for the best 12 white.

Among trade exhibitors F. R. Pierson Co. of New York, took the first prize for the ball, and in front of the band stand some fine specimen neprolepis ferns.

John N. May, Summit, N. J., sent a vase of his charming chrysanthemum variety, Mrs. C. W. Russell, to the rear of the ball sections of their greenhouse construction, one showing iron frame, one showing wood frame, and a third a regular iron frame, even-span commercial house. A feature of the work was improved and watered by the same is heated from within, and

the water also is carried into the house. They also showed the Mitchell heater which is well-spoken of as an economical and efficient heater.

The judges were W. Scott, Buffalo, N. Y.; A. D. Rose, Jersey City, Sam. Goldstein, New York; C. F. Dietrich, New York. Among the visitors at the show were Peter Crowe, 1, Madison, N. Y.; C. B. Wood, Esq., New York; and E. B. Sutton, Babylon, L. I.

## BOSTON FLOWER SHOW.

It has been chrysanthemum week in Boston with the gorgeous given in full possession of the town. Tuesday, Wednesday, Thursday, and Friday were devoted to the annual chrysanthemum exhibition of the Massachusetts Horticultural Society, which is the event of the year for the worshippers at the shrine of the chrysanthemum.

The show was an excellent one and worthy of New England and its chief horticultural section. It has been claimed, as a whole, to have excelled its immediate predecessor of 1896, and in many respects it has. The exhibitions of the past two or three years would make a more than favorable comparison with the present one. These exhibitions have formed a continual evolution since their inception, each year showing a decided improvement over the preceding one, until the present exhibition, so it is thought by some that perhaps a further evolution in the future may be possible, has been reached, while others contend that the march of improvement will continue through the time and that the present halt in the procession is merely temporary.

As in the case of the show of last year, and the fact that two of the principal exhibitors of past years, James C. Wood and J. H. Grigg, were absent (plants and blooms) were not competitors this year may in part account for the fact that the quality which has been reached. On the other hand there were several new exhibitors who made entries in the show, and among them were A. Herrington, Madison, N. J., gardener to H. McKay Twombly, Esq., and J. H. Grigg, gardener to Cornelius Vanderbilt, Esq., while Alex. McKay, gardener to David Nevins, Esq., and C. S. Sandford, gardener, and E. M. Wood & Co., competed with their super-produces in many classes.

The day of the chrysanthemum as a "fad" has gone by, if the dozen years since that glorious show may be taken as a criterion. Eight, ten, or a dozen years ago both halls were crowded with the afternoon and evening throughout the season, a feature which is now noticeable only on the last week.

The arrangement of the halls this year was identical with the former, the lower hall being devoted to the cut bloom classes and the upper hall to the plants and foliage. The exhibitors were William J. Martin, gardener to N. T. Kidder, Esq., John Barr, gardener to J. H. Grigg, Esq., George C. Donald, gardener to Jason S. Bailey, Esq., among whom the prizes in the various classes were divided. The cut bloom classes calling for plants grown to one stem and bloom, the honors were divided between Mrs. C. W. Russell, George Green, gardener to James L. Little; C. F. Roy, gardener to Hon. E. S. Converse; and Mrs. C. W. Russell, George Green, G. Weld, and C. Sandford, gardener to H. H. Southar, Esq.

For cut blooms groups of chrysanthemums arranged for effect, limited to 100 square feet and edged with ferns or low-growing plants, the honors were again won by Messrs. A. W. Blake, Jr., C. G. Weld, John L. Gardner (William Moore, Esq., and J. H. Grigg, Esq., E. S. Converse, and awarded in the above order.

The competition on the cut blooms was perhaps as close as ever before, and the quality of exhibits was very high. In the class for twelve white blooms in the hall; in fact for several years flowers other than of the first grade have been shown in this class. Exhibitors, E. M. Wood & Co., Joseph H. White, Esq., (James Wheeler, gardener), C. S. Sandford, Esq., Alex. McKay, Esq., (C. S. Sandford, Esq., gardener), N. T. Kidder, Esq., Mrs. C. F. Cheney, James C. Wood, Esq., C. G. Weld, C. S. Sandford, Esq., Mrs. E. B. Wood, Cornelius Vanderbilt, Esq., H. McKay, Esq., J. H. Grigg, Esq., John L. Gardner, Esq., (John Jaffray, gardener), Mrs. E. B. Clarke (John Ash, gardener), and W. N.

Craig, were the principal contributors, and all may well feel proud of their share in getting together such a magnificent collection of superior specimens.

High Graham's new chrysanthemum Pennsylvania attracted much attention. It was awarded a first-class certificate of merit, and the vase of Frank Hardy, which received first prize for first grade flowers, was exhibited by W. Herrington, was especially admired.

Other features of the show were fine collections of carnations, from Peter Fisher and William Nicholson. Some of the carnations Mrs. Thos. W. Lawson, which was exhibited last year as No. 29, A. A. Kops, Esq., secured a certificate of merit for new carnation, Mayor Quincy, and Joseph Hill, Nyack, N. Y., the same variety as the one secured by W. Herrington, N. Y. (Arthur Griffin, gardener), received a silver medal for hybrid double ranunculopsis. James Comley and Mrs. E. M. Gill made good displays of cut flowers. W. P. Winsor showed fine cypripedium insigne; F. E. Palmer, a fine plant of Neprolepis exaltata; J. S. Bailey, some beautiful orchids and a fine collection of ferns, one of which he was awarded first-class certificate of merit. W. K. W.

## Newport, R. I.

New Box for Carrying Cut Chrysanthemum.

Robert Laurie of this city has planned a box for carrying cut blooms of chrysanthemum. He used it for the first time in taking flowers to the Massachusetts Horticultural Society's show. The dimensions of the box are length, 18 1/2 inches; width, 2 feet 6 inches; height, 3 feet 6 inches; capacity, 40 blooms. A feature being that the flowers are stood upright. A tin pan, 3 1/2 inches deep, is fitted inside the box and is held in place by a wire which is fastened a piece of wire netting. Cleats are also fastened inside, six inches apart, giving 7 inches from end to end, and 8 inches S on each side. Two holes are made in each, into which are placed the ends of the stakes. These are light and are sprung into position. The ends of the stems are pushed down into the holes, and the stems are held in the stakes, the upper stake coming just over the flower. So as to get the last row of flowers to make the end has been hinged in the middle, and is let down until all the flowers are in place. I believe that it is a first-class box for shipping choice blooms.

The Caswell Greenhouses tried a house of bench chrysanthemum this season as an experiment. All have been sold at fair but not fancy prices. John Allan who is manager here, is most successful with carnations.

## Florists in Politics.

Thomas J. Gibson has been elected to the City Council. Mr. Gibson is the senior member of the florists of this season. Bros. Andrew K. McMahon, ex-president of the Horticultural Society and president of the Florist and Gardeners' Club during its short life, has been elected to the Common Council. Mr. McMahon is a florist. Frank Bradley, the present president of the Newport Horticultural Society has been elected to a place on the Select Committee.

They must be fresh to be good in quality; Nicotina kills Aphids;

Good kind, 75c. per 100 lbs.

Bales weigh 500 lbs.

H. A. BROTHOP, 13 MADISON AVE., N. Y.

**HEAVY FIELD-GROWN VINCA VARIEGATA.**  
Strong and healthy will divide up and make 5 or 6 good plants for \$1.00 in the Spring. \$3 per 100. Cash.  
WM. E. JONES, Florist, Rome, N. Y.  
When Writing Mention Florists' Exchange

**CYCLAMEN GIGANTEUM** 5 in. pots in bud and in bloom, \$3.00 per doz.  
2 1/2 inch in bud, \$1.25 per doz. 4 in. pot, \$2 in. pot, 75¢ per doz. 40 per 100. **WILKINSON'S EXCHANGE FOR FERNS.**  
J. NO. E. DE WALT, Box No. 2, Carlisle, Pa.  
When Writing Mention Florists' Exchange

# FREE DELIVERY

Of plants offered me in Florists' Exchange of October 9, page 82, if cash accompanies any order of such date, \$5.00, before the 20th of this month, all for a distance of 100 miles from Washington, D.C. All the stock in first-class condition, not forced, as I grow most every thing at a low temperature to barren plants.  
Especially fine are the 10,000 *Latanias* in 4 and 5 in. pots, 5000 each of the *Kentias*, *Arca*, *Lantanas*, and *Pandanus* *Ullius*, heavy fruited *Osageas*, *Oranges*, splendid *Ferns* and *Dracaenas*, etc.

**N. STUDER, Wholesale Grower,**  
ANACOSTIA, D. C.  
When Writing Mention Florists' Exchange

## 10,000 HARDY PINKS

Field-grown clump. Her Majesty and the rest, \$3.50 per doz.; \$30.00 per 100.  
**New Crimson Sprites**, A. Waterer. Field-grown plants, \$1.00 per doz., \$7.00 per 100.  
**Fuchsias**, in variety, labeled, 2 1/2 inch pots, \$2.00 per 100.  
**Ceraniums**, in 40 best sorts labeled, \$2.50 per 100; \$20.00 per 1000.  
**Latania Borbonica Palm**, Well grown, strong and clean, 2 1/2 inch, \$4.00 per 100; 3 inch, \$6.00 per 100.  
**Pandanus Ullius**, Strong, well grown, 2 1/2 inch, \$6.00 per 100; 3 inch, \$8.00 per 100; 4 inch, \$20.00 per 100.  
**Asparagus sprengeri**, Specimens in 4 inch pots, \$6.00 per dozen.  
**Rubber Plants**, Well grown, heavy set, perfect plants, 2 1/2 inches high, 5 inch pots, \$6.00 per dozen. Satisfaction Guaranteed.  
**A. B. DAVIS & SON,** (Near Washington, D. C.)  
When Writing Mention Florists' Exchange

**STOCK "MUMS."**  
Yellow Monarch, M. de Montmor, Merry Monarch, Lager, Mrs. Robinson, Mme. Bergmann, Mrs. Perrin, Philadelphia, Mrs. J. T. Anthony. . . .  
**\$1.00 PER DOZ. CASH WITH ORDER.**  
**GEO. E. CAMPBELL, Germantown Ave. and Venango St., Phila., Pa.**  
When Writing Mention Florists' Exchange

**CHRYSANTHEMUMS.**  
Fine stock plants of White and Pink Ivory, Marion Henderson, Gloriosa, John E. Laver, Glory of Pacific, Marquis de Montmor, Mrs. Henry Robinson and Yellow Queen.  
**\$3.00 PER 100.**  
**JOHN HOAC, SING SING, N. Y.**  
When Writing Mention Florists' Exchange

**PRIMROSES.**  
From choice imported seeds (Mott's) fine large plants, budling, 4 in. pots, at \$1.00 per 100. 3 and 2 1/2 in. pots, at \$1.00 per 100. 2 1/2 in. pots, strong, at \$1.00 per 100. All are ready for larger pots.  
**500 BEGONIA ARGENTEA CUTTARS.**  
2 1/2 in. pot, at \$2.00 per 100; or the lot for \$3.00.  
10 & 15 in. best sorts, \$25.00 stock plants.  
**Mrs. M. CAVERAUGH, Millers Corner, N. Y.**  
When Writing Mention Florists' Exchange

# Your 1898 Catalogue

We can illustrate and print it for you, and the work will be well done, and delivered on time. We have the experience and every facility. First come naturally best served

**A. T. De La Mare Ptg. & Pub. Co. Ltd., Nos. 2 to 8 Duane St., New York.**

**LINDSAY! HINSCALE!**  
X-mas Trees for sale here. **Bonsais** Green for sale here. All supplies for the holidays. **Bonsais** Green Rooting first quality. **Leaves** of good hand made and well put together. All orders by mail and dispatch apply throughout. **THE W. A. S. COLLINS, Newark, N. J.**  
When Writing Mention Florists' Exchange

**HONEY SUCKLES.**  
Hall's Evergreen, very large, 3 to 4 feet, \$5.00 per 100.  
Hall's Evergreen, 2 1/2 feet, \$3.00 per 100.  
**HONEY SUCKLES, HOLLIGUES,** large plants, \$3.00 per 100.  
Above plants all good-grown and will cut. Cash with order or by note for Marie Louise Violets.  
**WYLLIS S. CLARK, 515 12th St., N. W., Washng., D. C.**  
When Writing Mention Florists' Exchange

**SPECIAL OFFER OF AZALEA INDICA**  
Just Arrived and Ready for Shipment.  
These Azaleas are packed in cases of 50, 100 and 1000. In only the best market sorts, such as **Duchesse de Perle, Versailles, Madame de la Fayette, Herminette, A. M. Empress of China, Duch. Marie, etc.**  
10 cases, each containing 25 plants of 10-12 inch and 25 plants of 12-14 inch, per case, \$15.00.  
10 cases, each containing 50 plants of 10-12 inch and 50 plants of 12-14 inch, per case, \$16.00.  
2 cases each, containing 100 plants of 12-14 inch, \$20.00 per case.  
2 cases each, containing 100 plants of 12-15 inch, \$22.00 per case.  
2 cases each, containing 150 plants of 10-11 inch, \$18.00 per case.  
Above prices F. O. B. care Rutherford, N. J. Order quick before they are sold, first come, first served.

**L. C. BOBBINK, Rutherford, N. J.,** branch of The Horticultural Company, Beskoop, Holland.  
When Writing Mention Florists' Exchange

10 BOXES  
PHONE  
1273  
**ELLIS & POLLWORTH,**  
H. ELLIS  
C. C. POLLWORTH

**BULBS.**  
**Lilium Auratum, Rubrum, Album,**  
READY NOW.  
**Romans, Dutch Hyacinths, Tulips, &c.**  
**ASPARAGUS FLOWERS.**

'Mums, Violets, Roses,  
Valley, Carnations, &c. &c.  
FINE STOCK. WE KNOW HOW TO PACK.  
CONSIGNMENTS OF FIRST-CLASS STOCK WANTED.

**PALMS! FERNS!**  
SEND FOR LIST.  
**HOLLY AND GREEN FOR CHRISTMAS.**  
ORDER NOW.

**GREENHOUSES FOR SALE.**  
We Have the Following Places For Sale. Bargains all of Them.  
One place as follows: Amount of ground 255 ft. front, 222 ft. deep; containing Rose House, 100x24 ft.; Carnation House, 82x20 ft.; 'Mum House or Show House in Spring, 50x18; Violet Frame, 60x6; Office, 15x18; Boiler Shed and Potting Room, 17x15, all connected; Barn, 26x20. Within 5 minutes walk of Depot and Opera House, in city of 18,000, in State of Indiana.

We also have for sale a place of 4 houses in State of Iowa; 3 acres of land, within 3 blocks of street car line.  
In addition to above we have Greenhouse for sale in one of the best cities in Wisconsin.  
**WRITE FOR PARTICULARS IF INTERESTED.**

**ELLIS & POLLWORTH, 137 Oneida Street, MILWAUKEE, WIS.**  
When Writing Mention Florists' Exchange

**POINT SYSTEM COMPETITION**

I am in favor of the point system of judging at flower shows and contests for seedling certificates for the following reasons:

1. It is the most expable of uniformity.  
2. In the case of cut flowers it places all one variety on the same footing.  
3. It prevents the judge from using his own preconceived ideas (if he have any) as to the merits of any particular shade of color, or peculiarity of form in the variety being judged.

It is a rational system.

Now to elaborate the above claims:  
1. It is my opinion that a system of judging the merits of any particular flower, or any variety of that flower must be cast-in-form in its nature. There must be no room for error, and no room for additions. The good qualities of the flower number 100, and every one contesting must have that number to perfect; have they less they are below the standard in their proportion to their ratio to perfection; this makes this system uniform and gives no competitor a chance to claim that any other competitor had better points in this system than he. It gives a definite and set standard, to which all can aspire, and by which all will be alike judged.

2. In judging cut flowers it places all of one variety on the same footing, because the judges have a typical flower (or should have) which represents to them the highest type, or 100 per cent., by which all others of this variety are judged, not on their own points, but as they compare with the points of the typical flower. For instance, in judging sweet peas we use points; form, size, color, and substance. We have the typical flower which represents the highest type known to date. With this we compare the competing flower, allowing it as many per cent. of the total number of points, as its relation to the typical flower entitles it.

3. It prevents the judge from using (perhaps unconsciously) his own preconceived ideas or sympathies as to the merits of any particular shade of color, or peculiarity of form, because it is not left by this system to the judge, *per se*, but to judge it in its relation to the type of its class. The flower being judged is as such as he would give room to in his garden; it may be one that he particularly dislikes; it may be a variety of a class which he has discarded for some other variety which he considers better, but that cannot affect his decision on the point system, as he must stick to the points as the flower before him shows them, and render his decision accordingly. Of course, the judge understands, as well as any other system, must be expert in his speciality, and know a "point" when he sees it!

4. It is a rational system, because it is based on the decimal system of notation, in which perfection being for 100, which has from the beginning been the most convenient system, as every point and every cent of points being a definite and easily understood ratio to it. Let us illustrate by the five qualities enumerated above, the way in which we will take form, to represent twenty-five one-hundredths, or one hundredth of the total color, fifteen one-hundredths substance, twenty one-hundredths, and stem, twenty one-hundredths. We will take good qualities of the flower. If we judge that the competing flower shows a form which is less than the standard, we will grade it "form, 20," and so on with the other classifications, the totals making the judgment on their own merits. The decision will be accordingly. This is perfectly rational, as all flowers bear some such ratio to perfection, and are judged more especially to a typical one. In this system it is customary not to take account of less than five points, but the time coming when single points will have to be taken account of in judging some of our higher priced and highly specialized flowers, as the points of difference will soon grade down that line between competing flowers of the same variety.

I will admit that there is one occasion in which the point system is of no value whatever. It is in judging between the merits of two or more varieties of the same flower, as between H. P. and tea roses, cactus, ampelous, and pompadour dahlias; dwarf and tall sweet peas, as in such judgments the likes and dislikes of the judges will have full play, as every one of the above represents 100 per cent. and it has no standards of comparison with its allied neighbor. But in the judging together of the variety, the "point" system of judging is perfect, for it knows no fear, favor, sympathy, predilection, educational, or sectional bias, or personal equation.

SAM. A. HAMILTON.

The judging by points of horticultural exhibits facilitates close decisions. This is its chief application; but even here judges differ, as it is seldom that two can agree as to the number of points an exhibit scores.

I deem the qualification of the judge or jury of more importance than any mere scale or system of judging.

Primarily the judging of horticultural exhibits requires not only excellent judgment and foresight on the part of the judge, but a wide experience and thorough knowledge of the subject in hand. Not everyone is naturally qualified to assume the responsibility. Commanded by the judge of strict integrity and earnestness of purpose—doubtful, however, if he would always be considered as a "jolly good fellow." Some disappointed exhibitor or other might be inclined to "cuss him down the banks." Howbeit, a good judge is alike indifferent to either praise or blame.

Snip judgment is greatly to be deplored, and the mistakes of mal-judgment are prolific among horticultural life and permanent losses towards educational exhibits.

Primarily the varieties of chrysanthemums and carnations receive awards that are self-

(2nd) *Blooming Plants.*

Quality.....	4
Variety.....	2
Form.....	4
Substance.....	4
Stem.....	10

Quality is always the first essential, which with good form, equally important, and variety give character to the display.

(3d) *Chrysanthemum Bush Plants.*

Form.....	4
Flower.....	3
Foliage.....	3
Stem.....	10

If the plant has been well grown it will be in good form with an equality of flowers and foliage.

(4th) *Chrysanthemums Grown to Single Stem.*

Flower.....	4
Compost.....	3
Foliage.....	3
Stem.....	10

A good flower is of the first importance, with compact growth and perfect foliage requisite towards completeness.

important from an exhibition point of view; size and distinctness score higher.

(8th) *CARNATIONS—CUT BLOOMS.*

(1st) *Commercial Standard.*

Color.....	3
Form.....	3
Substance.....	2
Stem.....	10

(2nd) *Exhibition Standard.*

Color.....	1
Size.....	3
Substance.....	3
Stem.....	10

Where carnations and chrysanthemums are judged for certificates eight points should be required. In judging new varieties healthy growth and freedom of flowering are unknown quantities. Nor can their fragrance be properly judged where flowers are put up for exhibition.

Any other classes can be judged by ten points more expeditiously than by the usual standard, the greatest difference of judgment was with as criticism would be the number of points ascribed to individual characteristics.

GEORGE P. RAWSON.

There is to my mind no question that the system of judging by points can be so perfected that it will meet the case of any flower at hand. The defective application of the system, as it has stood, is no excuse for the statement that it is useless; it is simply not perfected enough. I will try to explain how it can be made more serviceable than it is at present.

The judging of chrysanthemums, as done in 1885, was according to the following points: Color, 25; form, 25; foliage, 15; stem, 10; petals, 10; size, 10. I think the most important point in a flower is good balance, that is, all the different points in the make up of a bloom should harmonize well, and make a handsome *tout ensemble*. Let us take for example Golden Wedding. It is a large flower, with a large stem, and a large leaf, carry the flower, with line dark foliage, well proportioned to flower and stem, and we take Ivory, with a small flower, but, again, with a stem sufficiently strong to carry that flower, and with small foliage, and a stem well with flower and stem. I would put the scale of points as follows:

Color.....	30	POINTS.
Form.....	15	"
Substance.....	15	"
Foliage.....	15	"
Stem.....	10	"

100

The next thing is to give instructions as to the different items above listed, so as to make the scale comprehensive enough for any judge to handle this system expeditiously. I would give a balanced flower, take Ivory, Golden Wedding, Niveus, and Major Bonafant. For standard foliage, take Modesto, take Modesto, the Queen, and Mme. Felix Perrin.

For standard in size, take Mayflower, Eugene Duillecouze, and Vivand-Morel.

For standard foliage, take the Queen, the Queen, and Helen Boudouin.

For standard form, take Kioto, Niveus, and Mrs. S. T. Jones.

For standard foliage, take Harry Hurrend and Mrs. Jerome Jones.

In giving the above standards he will be able to compare the new kind with the variety entitled to the full points, and an easily detected discrepancy case it does not come up to the standard.

I think any judge can see the difference in size between a Mayflower and an Ivory, or in color between a Queen and a Mayflower, or in fullness, between a Queen and a Henry Boudouin, in a well-balanced flower, between a Kioto and a Golden Wedding.

Would this system work? Take Ivory. It would carry 30 points for balance; it would lose some in color, some in petals, and some in size; it would lose much in size; it would lose some in fullness; it would carry well in form, but would lose in foliage in not being equal to our standard, Mrs. Jerome Jones.

Now let us take Eugene Duillecouze. It would lose in the points for balance; the stem is not quite strong enough for the flower, and the foliage is decidedly small for such a large bloom; in color it could come well up, but would not score full points, being not quite up to our standard, Modesto; in size it would go to

Chrysanthemum Mrs. Trainor L. Park (Yellow.)

(5th) *Florists' Made-Up Work.*

Quality.....	3
Color Harmony.....	3
Finish.....	2
Adaptation.....	2
Stem.....	10

Good design work depends not only upon the quality of the stock used, but the harmonious blending of color, which together with fine finish illustrates the skill of the designer. All design work should be gracefully adapted to its desired use.

(6th) *Roses—Cut Blooms.*

Color.....	2
Form.....	2
Substance.....	1
Stem.....	1
Foliage.....	1
Stem.....	10

(7th) *CHRYSANTHEMUMS—CUT BLOOMS.*

(1st) *Commercial Standard.*

Color.....	3
Form.....	3
Substance.....	1
Stem.....	1
Foliage.....	1
Stem.....	10

(2nd) *Exhibition Standard.*

Color.....	1
Size.....	3
Substance.....	1
Stem.....	1
Foliage.....	1
Stem.....	10

You cannot have an effective arrangement without quality—you will depend upon the skill of arrangement.

While the color of a commercial variety is of primary consideration, it is not so

(1st) *Decorative Plants arranged for Effect.*

Quality.....	4
Color.....	4
Arrangement.....	4
Stem.....	10

the top, 15 points; in fullness it would carry well, but does not reach the standard; in form it is behind in not being high enough in the center; the foliage would get fair points, being too small, nor which it suffered in the balance; otherwise the foliage is not bad.

For the next let us take Mrs. Henry Robinson which will carry high for balance; this variety is well proportioned; in color it would also score high; in size it would get a good percentage, but it does not come up to our standard. Mayflower; for fullness it would stand close to the standard; Henry Riman; for form it would be very high in being sometimes perfect in that respect; the foliage ought to be much more substance, and be a little glossier to make it perfect.

This same principle would hold good in judging carnations, only the scale should be so arranged as to meet the different points in that flower. Say we make the scale for carnations as follows:

PERFECTION.	
Best Balanced Flower.....	30 points
Color.....	15
Size.....	15
Fullness.....	15
Form.....	15
Fragnance.....	10

The Society to indicate the standards for the different sections to be used for comparison, say for porta, Cortia, Uncle Sam, Emma Wheeler, for size, Mrs. Pratt, Justice, Flora Hill, and so on.

I take these notes that the judges ought to be appointed in the growing of the flowers; and as far as seedlings are concerned, expressed by the officers of the Society to give them a stimulus, and for doing so; they should also send in a report on growth and floriferousness. This examination should be made without notice having been given to the owner, and at such a season as directed by the secretary of the Society.

TRIO, BOCK, Hamilton, Ohio.

**CRYSANTHEMUMS**

**Review of New Varieties.**

In reviewing the new varieties sent out last Spring and varieties imported during the past year or thereabouts, I will include a few of the older kinds of extra merit.

In white we have as the finest of the year, Exemplum, a close headed variety of flower of great size, with fine stem and fair foliage, an easy grower and a splendid specimen of the garden. Barcha, a large incurved variety of milk-white color, of good size, good stem and foliage—a grand commercial variety. Maud Child, Weeks, a most beautiful white English variety; flower very deep and full, with good stem and fine foliage; it makes a fine pot plant in 8 to 12-inch pots. A grand commercial variety. Maud Child, Pratt, a nice incurved white. J. H. Woodford, pure white. It should be seedling according to description. Baron A. de Rothschild is a handsome reflexed white. Lady Northote a reflexed white with good foliage, petals very open. Bonifidus Snow, new Japanese variety, fine early reflexed, ready to October 10. Mandarin, Henry, a large incurved white, shading towards the center to yellow. Mrs. J. Penbody, a large fine stem, reflexed white foliage, tall grower. White Swan, a splendid hybrid variety, of grand form and finish, and an easy grower. Fine commercial variety.

In yellows I place first Golden Trophy, an incurved solid flower, sulphur. It is the best variety of the year. Next in size is Harry Hurrell, a fine solid chrome-yellow in the style of H. W. Riman, dwarf variety. It is a fine variety for pots and an excellent commercial variety. Mrs. J. C. Gibson is a fine canary, with large, good foliage, and fine flowers; the form is very irregular, petals being very pointed. Yellow Sun, a fine solid almost chrome-yellow, with a light touch of orange; form in the style of Gretchen Bunch, but with a yellow center, and a low, reflexed, of great size. Solar Queen, canary-yellow, deepening towards the

center. Australian Gold, in the style of Georgianna Bramhall. Miss Phyllis Fowler, a light yellow, style of Eugene Baile-douze. Mrs. L. P. Doughless, a fine incurved yellow. T. B. Morse, another handsome incurved yellow. Instability, a light yellow seedling of Baile-douze; good solid incurved, petalage very thin. Golden Ace, stout stem and foliage; the flower heads to be more massive on that stout foundation.

Mogullon Prince is a very pretty incurved bronze, extra good for collections. Pride of Exmouth is a flashy flower, capable of combination of white and yellow, penciled with purple; stem is weak. Platinum Glory, a rich salmon-rose, reflexed; fine size and a distinct color. Wm. L. Rosseau, a bluish-pink, beautiful, fair. Thanksgiving, a very good reflexed

will take up the work and push our Queen of Autumn well to the front. Our standard of excellence is getting higher from year to year, but I am of the opinion that we will never see the end of improvement in the chrysanthemum.

TRIO, BOCK.

**QUESTION BOX.**

OPEN TO ALL . . . . . FREE TO ALL.

Answers Solicited from Those Who Know.  
(157) Maggots on Violet plants.—A. G. COVILL.—The small white maggots which are injuring your violets are

only so that the plants may dry off before rotting. The best remedy is to be kept too high and the plants should be bright days—P. H. DORSETT.

**American Institute Show.**  
C. W. Ward, Queens, L. I., made a splendid showing of carnations on Friday and Saturday at the American Institute Flower and Vegetable Show. In all there were fifteen kinds, all of which were new, many of them being exhibited for the first time. They were awarded a lot of well-merited the award—medal of excellence which they received. Several varieties were also given medals of merit certificate. Among these were Gold Nugget, a rich yellow of great excellence; Mrs. James Dean, a delightful soft pink; Charles A. Dana, another pink of the same character, and New York, a cerise of fine parts. Other excellent kinds were No. 6, '96, bloom and color somewhat resembling New York; Maceo, very rich, dark violet color; John Young, a fine white; White Cloud, Glacier also a white. Flora Hill and Mrs. G. M. Bradt were also very fine.

**COMING EXHIBITIONS.**

Secretaries of Shows will greatly oblige by furnishing us with particulars of their coming exhibitions, for notification in this column.

**CHICAGO**—183 Dearborn Society, Amory, Duke Pratt, November 9-13 inclusive. W. N. Rudd, Room 323, 183 Dearborn street, manager.

**CLEVELAND, Ohio**—Florists' Club, November 16-19 inclusive. G. A. Tilton, 68-7 Woodland avenue, secretary.

**GRAND RAPIDS, Mich.**—Florists' Club, Handel Building, November 10-12 inclusive. N. B. Stockard, secretary.

**LOUISVILLE, Ky.**—Kentucky Society of Florists, November 10-13 inclusive. F. C. Haupt, 241 W. Jefferson street, secretary.

**MADISON, N. J.**—Rose Growers' Club, Eagan's Hall, November 16-18 inclusive. James J. Ryan, secretary.

**MONTREAL**—Gardeners and Florists' Club, Bonnet Hall, November 9-11 inclusive. Fred. Bennett, 12 Grande Rue, secretary.

**Mr. Kisco, N. Y.**—Bedford Flower Club, under management of Westchester County Horticultural Society, 100 Westchester Avenue, 9-13 inclusive. H. Spavins, Box 35, secretary.

**NEW YORK**—Gardeners' Society, Hotel Astor, 34th street and Fifth avenue, November 12 and 13. J. H. Trip, 36 Fifth avenue, manager.

**PHILADELPHIA**—Pennsylvania Horticultural Society, Horticulturist Hall, Broad street, November 9-13 inclusive. David Rust, secretary.

**PROVIDENCE, R. I.**—Rhode Island Horticultural Society, Mason Hall, Broad street, inclusive. Charles W. Smith, 61 Westminster street, secretary.

**SPRINGFIELD, MASS.**—Hampden County Horticultural Society, International Chrysanthemum Society, 100 Main street, manager. William F. Galt, 311 Main street, manager of exhibitions.

**St. Louis**—Florists' Club, November 30-14 inclusive. J. H. Schray, 610 Pennsylvania street, secretary.

**SYRACUSE, N. Y.**—Central New York Horticultural Society, 100 Broadway, November 9-11 inclusive. D. Campbell, secretary.

**TORONTO, ONT.**—Gardeners and Florists' Association, The Pavilion, November 10-12 inclusive. E. C. Carter, 280 Gerrard street, East, secretary.

**WACO, TEX.**—Waco Florists' Society, November 10-12 inclusive. Mrs. M. B. Davis, secretary.

**WORCESTER, MASS.**—Worcester County Horticultural Society, November 9-11 inclusive. Adin A. Hixon, Worcester, secretary.

**Chrysanthemum Midge.**

My illustration is from a photograph forwarded by G. C. Knott, St. John, N. B. It shows a very young plant grown up by me at the Horticultural Association of Gardeners, Lady Lyle. The plants were forwarded to us 18 days before the November 7's, with dark, close foliage; matured October 10; color pure white; stem sturdy. When necessary to be cut, as the flowers are much larger and just as early.

**Chrysanthemum Midge (White.)**

blush-pink. Lawn Tennis, mauve, reflexed, of a very symmetrical form. Cassio, an exceptionally fine colored flower—a deep rich wine-red, dwarf grower, good foliage, and an N. I. novelty. Doeder, dark maroon, in the style of George W. Child; form somewhat irregular. Dorolus, Spaulding, in the style of Maud Dean, a fine incurved flower dwarf grower, and splendid for pots; coming in that respect close to Free and Glad.

I will now name a few poisons, which I think could be grown with profit, say five or six inches in diameter. William Kennedy, dark crimson; Model of Perfection, a beautiful pink; Black Douglas, petals white, center yellow; Surprise, light pink of great size.

I took some notes at E. G. Hill's place, and will here mention some very fine newcomers to dissemination next year. No. 1, a fine dark yellow with a touch of orange in it; incurved, good size; fine dwarf grower with good glossy foliage. This will prove a commercial variety of merit. Quite a deep rose-colored incurved flower, a good dwarf grower; will also prove a splendid commercial variety. Washington, white, with a tinge of flush when done, incurved, dwarf grower, and another valuable variety. Monitor, seedling of this year, which shows up well. These notes don't include the late ones which were not in bloom.

With this I finish my letters and hope that for another season some other man

produced from eggs which are deposited by a gall fly, probably closely related to the Hessian fly, in the folds of the young, violet leaflets. The fly is very small, being little if any larger than the ordinary black gnat. The writer feels confident they would not be noticed in a greenhouse, at least he has never observed them. The trouble was noticed around Washington last Fall and Winter. A short description and a figure showing the injury was given in the EXCHANGE of December 19, 1896, page 1132. So far as known, there is no way to kill the maggots on violets without injuring the plants. The flies, however, can be killed by fumigating with hydrocyanic acid gas. A note relative to this matter, by Mr. W. G. Saltford, appeared in the EXCHANGE of September 11, 1897, page 118.—P. H. DORSETT.

(158) Violet Disease.—J. E. JACKSON.—The violets are suffering from an attack of a fungous disease known as violet spot, or more commonly perhaps as spot. Under favorable conditions, this disease spreads very rapidly, frequently destroying an entire crop in a comparatively short time. There is no known remedy for the spot, but it can be often checked and sometimes entirely stopped by removing all badly affected plants and picking off the diseased leaves from those slightly affected and destroy- ing same. The foliage should be kept as dry as possible. When necessary to spray for red spider it should be done early in the morning on bright days.



Exclusively a Trade Paper.

Entered at New York Post Office as Second Class Matter

Published Every Saturday by

A. T. DE LA MARC PUBLISHING AND PUB. CO. LTD.,

2, 4, 6, 8 Duane St., New York.

P. O. Box 1697, Telephone 2154 Cortlandt

REGISTERED CABLE ADDRESS  
(Commercial Cable) Flores, New York.

#### SUBSCRIPTIONS:

\$4.00 per year to United States, Canada and Mexico. \$6.00 per year to foreign countries, postage in postal union. Payable in advance. New subscriptions will commence with the first number after receipt unless otherwise ordered. Back numbers can be supplied when wanted.

The date on address label shows when the subscription expires and is the subscriber's receipt. No other receipt is sent.

#### ADVERTISEMENTS:

Copy must reach this office not later than Thursday in order to secure insertion in issue of following Saturday.  
Rate, \$1.00 per line. Special positions at 50% discount on contracts of one month or longer.  
Orders from unknown parties must be accompanied by cash or satisfactory references.

### Contents.

AMERICAN INSTITUTE SHOW	1017
ANTIPODEAN DISCONTENT	1018
CARICATURES	1019
CHRYSANTHEMUM CULTURE	1022
CHRYSANTHEMUM MIDGE (Illus.)	1023
CHRYSANTHEMUM MRS. TRAINOR L. PARK (Illus.)	1026
CHRYSANTHEMUM SEEDLINGS	1026
CHRYSANTHEMUM SOCIETY OF AMERICA	1027
CHRYSANTHEMUMS	1027
CHRYSANTHEMUM EXHIBITIONS	1027
FLOWER SHOWS	1028
Morrisatown, N. J.	1024
Boston, Pennsylvania, N. Y.	1024
POINT SYSTEM COMPETITION	1028, 1027
QUESTION BOX	1027
REFERENCES ON CURRENT TOPICS	1027
SEED TRADE REPORT	1028
TRADE NOTES	1024
Newport, R. I.	1024
New York, Philadelphia	1028
Beacon, St. Louis	1019
Chicago, Providence	1024
Chicago, Pittsburgh, Toronto, Wash- ington	1023
Buffalo, Orange, Syracuse	1024
Elgin, Ill.	1027

### For the Busy Man.

Several of the florists of New York, R. I., were actual candidates for political office at the recent election.

Superintendent William Falconer, of Schenectady Park, Pittsburgh, is getting together a fine collection on economic plants.

A movement is on foot to establish a Canadian Florists and Nurserymen's Society, of London, Ont., is taking an active part in the project.

Canadian florists are not satisfied with the state of the floriculture in their country; they want orchards and azaleas planted on the Free Isles.

There were eight new seedlings submitted to the Chrysanthemum Society Committee at New York on Saturday last, but none of the varieties secured a certificate.

There will be a chrysanthemum competition at New York, Florists' Club meeting on Monday next. The Club's silver medal will be given for best 25 blooms of not less than five varieties.

An embargo has been placed on the wild smiltax trade, owing to the prevalence of yellow fever in the States. It is causing great inconvenience to decorators in northern Ontario. Autumn foliage is being used as a substitute for the greenery.

### Erratum.

In advertisement of Messrs. Green & Underhill in issue of Oct. 23 and 30, read "City of London, Victoria and Yucca var. \$1.50 per 100, not per 1000."

### Advertiser's Notice.

The price of Cyprus 4, lib. pots, in my last advertisement should have been \$1.00 per line. Instead of \$2.00 as printed. Chicago, Ill. GEO. WITTEBOLD.

### Antipodean Discontent.

There appears to be a wave of discontent sweeping over the Antipodes relative to the results arising from business transactions of certain American florist and nursery firms with those in the trade located in Australia, as witness the subjoined criticism which appeared in a recent issue of the Australian Agriculturalist:

"I wish to add my testimony to a paragraph in your last issue entitling your readers about some of the catalogues issued by certain American nurserymen. 'Windbags' I call them. The firm you refer to, in— 'I think I could 'guess' in this case, but there are other 'windbags' such as the one in the 'blowing line.'"

The above forms the introduction to a complaint addressed to the editor of the journal in question, in regard to a transaction in roses, which evidently did not end to the liking of the complainant, who closes his communication with this sweeping assertion: "I have never had anything satisfactory from America yet."

In the same issue of the Agriculturalist we find a specific charge of unbusinesslike methods made against an American nurseryman. The result, as has resulted in a termination to the dealings of an Australian firm with that concern.

While it is not our purpose to condone practices which show a lack of the fundamental principles upon which all successful business structures are reared—viz., square dealing—we are constrained to add that such practices are not confined to America. They are prevalent in a greater or less measure all over the world, and doubtless Australia has its quota; and we venture to assert, that regarding the same, the Antipodes here will compare very favorably as regards liability with those in other parts of the globe.

The sequence of the transaction in question, thus publicly announced by the agriculturalist, will not be forgotten, however, and may thus ultimately be of benefit to all concerned.

Referring to the so-called propensity of the American nurseryman to "blow," which has tempted our friend in the home of the kangaroo to do his other catalogues "windbags," we do not believe that Americans hold a mortgage on this attainment. We think we can detect, if we may, be gentle zephyrs in the catalogues, hailing from the Antipodes. But after all, it is a falling of human nature, and we think it will be understood and uneventful. What would become of the many art of self defence, say, were there no Fitzsimmons or Corbett to perpetuate it, by means of their "windbags."

The main point on which one Australian gentleman's complaint is grounded has apparently resulted from bad packing.

The fact that similar plants have arrived in the Antipodes in good condition is conclusive proof, that with proper care exercised in this important work, plants may be carried safely to their destination, and live with endurance and uneventful. What would become of the many art of self defence, say, were there no Fitzsimmons or Corbett to perpetuate it, by means of their "windbags."

The special requirements for foreign export, and see to it that the packing is properly performed in every instance.

But our Australian brethren must not run away with the idea that the unbusinesslike method complained of permeates America. American growers, therefore, ought to seek advice and guidance before placing their orders. "Yes, they can do all this with a flourish and are proud to state that the vast majority of our American florist and nursery companies, who are engaged in foreign trade, will execute such orders, as they ought to be executed, in a straightforward and businesslike manner."

A Japanese paper in describing the new gowna color of the process of the Wales, states the color was of mauve satin, the shade of a "cattleyard orchid."

### Reflections on Current Topics.

Said a marketman to me the other day: "The establishment of a permanent plant market in New York City will prove one of the grandest blessings that could be enjoyed by the plant trade. For years we have labored under many disadvantages and personal discomforts, all of which are now being gradually developed out of our industry. These, in later years, have been aggravated through the inconvenience attendant upon the necessity of going to distant places, not wholly the outcome of necessity either. But with the facilities afforded by the proposed market, looking to the benefits that naturally result from concentration, I think I am sure that the old-fashioned and sectional rivalry which has heretofore existed will be completely eliminated, and under one roof will be found working for the common good."

Naturally enough the implicity of this market may be attended by some drawbacks, but these in course of time will surely be dissipated; and the present prospect, when the proposed market management it demands, must prove to be but the initiatory step toward the foundation of a much needed plant market in the metropolis—a general plant and cut flower market, centrally located. It appears to me that it is not only to be begun to consider, in a practical manner, the abolition of the existing segregation of our market, but also to have the subject at the forthcoming meeting which bear that its bearings was thoroughly discussed. Great results, it is felt, could be accomplished by the plant and cut flower traders working hand in hand; but the question is, how to do it. If we are to see that "consumption so devoutly to be wished" materialize.

It has never been just quite clear to me why howling was selected by the florists as their national game, and I am still in the habit of making a special note of it, regarding one of our best bowlers, the game, as now played, owes its origin in this country to the Germans, from whom it still receives its greatest stimulus; they being the biggest patrons of the bowling alley, and the most successful bowlers.

According to one of our best bowlers, the game, as now played, owes its origin in this country to the Germans, from whom it still receives its greatest stimulus; they being the biggest patrons of the bowling alley, and the most successful bowlers. The origin of the annual contest at the florists' conventions with that national game, however, was originally introduced at Buffalo, the majority of the then contestants hailing from the "tight little island" of Long Island. For a long time an explanation in that direction all of the more perplexing. I had a solution of the problem, in a general way, in the form of a song rendered by a Philadelphian at an annual supper wherein he states howling "is a game that will out play." Probably the apparent simplicity of the pastime has been a great factor in its popularity. The game, as well as the unabated enthusiasm which accompanies it. Matters of this nature are not to be despised, and it is to be regretted that the game has assumed such material significance in connection with the annual meetings of the florists, and that it is likely to retain—as a subject of historical import, its origin as affecting the trade might be worthy of chronicling, to our enlighten me?

News comes from London to the effect that Lilium Harrisii bulbs are being grown on a large scale in Natal, South Africa, whence an experimental importation was received in April last, and sold by auction. They are said to have been equal in size and quality to the best samples obtained in England. The bulbs were secured for Kew, and were planted in pots and placed on a cheder bed in the open air; they grew and flowered perfectly in the autumn and September, owing from the enthusiasm on the subject of growing this bulb in America, which Mr. Allen a paper read before the previous convention, has created. I expect to hear shortly of large cargoes being placed in the hands of the florists, and from California and other sections tend to justify this prediction. It is a great pity that the Natal "bulb" is becoming a successful competitor with Harrisii, on a small scale, as American trade is concerned. But indications point to the fact that success in this direction is being secured by Bermuda along these lines. Job.

### New York.

Wholesale Market.

Despite the fact that in the early part of the week considerable extra work was done by the florists, and the Astoria opening, etc., the demand has in no way caught up with the supply, and the market is expected to continue without abatement. Prices are absolutely firm, and it is difficult to purchase them as to dictate his own terms.

Chrysanthemums are in excellent quality, but realize little money. Good blooms only command \$c to 12c, each, and the average of the season is about 25c. In lower grades the price varies from \$1 to \$8 per 100, and among these the quality is of a fancy grade.

Roses remain about the same—\$3 per 100 for No. 1 grade of general kinds is considered a fancy grade. Prices below that vary from 50c. to \$2 per 100, the highest for special beauty being only \$2.50, but the majority fails to approach anything like that figure.

Extra carnations are considered well sold in New York; more realize only 75c. Lilies bring \$1.50 per dozen; white orchids 40c. each. Valley varieties are at \$1.40 per 100.

#### Retail Trade.

There was an enormous quantity of flowers used for the funeral of the late Mrs. Wm. J. Pease, of New York. The work was well distributed over the city. Florists on the East side caught considerable business, and the demand for chrysanthemums at the rate of 1,000 per day. The various rooms form quite a few flowers in the city.

A new store is being opened at 355 Fifth Avenue, between Thirty-fourth and Thirty-fifth streets, with the title, "Wehman, Florist."

Reed, 122 West Twenty-fifth Street, has now added to their already large wire business another floor, which has now been reached the city.

The florists have been largely used in recent decorations, more so than usual, owing to the fact, that Southern visitors have been invited to attend the embargo on the same through the prevalence of yellow fever in Southern States. The decorations were of considerable inconvenience among decorators has been largely used.

Wm. J. Pease has removed his establishment from 615 to 698 Lexington Avenue, New York.

The receiver's sale of the balance of the effects of the E. E. McAllister Co., held in liquidation, was held on Saturday, a satisfactory one, many of the articles offered bringing more than their actual value. The principal buyers in the trade included the Stump & Walter Co., Wm. Elliott & Sons, Weaver & Deane, Philman & Co., J. Crook & Co., Nellis and others. J. Pease & Co. were the auctioneers.

Florists' Club meets on Monday evening next. At this meeting will occur the nomination of officers, and the election of the Club's silver medal for 25 chrysanthemum blooms of not less than five varieties. The contest will again be submitted for the consideration of the membership.

The show of the New York Gardeners Society will be held in the Hotel Astoria, on Monday, October 11, 12 and 13. The competition in the majority of the classes is confined to the city. The show will be open to all, among them for groups of ferns, crotons, orange trees, and candelabra plants, and also for groups of cactaceae, violets, chrysanthemums, and lily of the valley. The exhibition will be held in the city, and will be held under the patronage of the society ladies of the city. J. H. Troy, the Rosary, is manager.

### Philadelphia.

Market Notes.

There has been a noticeable increase in business, and the stores the past week, but all kinds of flowers are so plentiful that the wholesale market remains about the same. There is no change in prices. Flowers here are selling fairly well, and those who are going to the city are well supplied to be doing a large business, as the weather remains so open and favorable.

New York. Sam. V. Smith, Rising Sun, has just completed a new wagon of a novel pat-



**BOUCAINVILLE!**

Send for Circular of "FACTS AND COMMENTS." WE OFFER NEW STOCK OF **CLABRA (?)** and **CLABRA SANDERIANA.** FROM 5 INCH POTS. Price, \$5.00 per 100; 75 Plants at 100 Rates. We mail a nice branched plants of either variety, in 2 1/2 in. pots, for \$1.00, or 12 for \$2.50.

**CHRYSANTHEMUM STOCK**

Strong, clean stock plants in quantity, of novelties and standard varieties. **ORDER NOW** for best quality and lowest prices. **CASH WITH ORDER.** THEO. F. BECKER, Glenfield, Pa. NEWVILLE HOLLAND, 5 miles below Philadelphia, Pa. When Writing Mention Florists' Exchange

**FRINGED, PERPETUAL BLOOMING HOLLYHOCK, BLOOMING ALLEGHENY**

Which Highest Awards were given wherever shown. The Greatest Novelty for 1898. Get your seed now and have plants ready for Spring, as all the leading Seedsmen will catalogue the Novelty and you will consequently have a demand for stock. **Remainders first year from seed, from 1 1/2 to 2 inch pots, all of each kind, all which develop in rotation. The purest and clearest color, equal to the best colors of the race, later every before seen in Hollyhock.** From 1 1/2 to 2 inch pots, all of each kind, all which develop in rotation. The purest and clearest color, equal to the best colors of the race, later every before seen in Hollyhock. **A. E. Wohler, Altoona, Pa.** Price, a trade pkt. from originator. See Exchange Oct. 16 for lists. When Writing Mention Florists' Exchange

**AFTER THE "MUMS"**

What best to follow? is now a leading question. The gap may be readily filled, and profitably.

**Risley Flats Smilax**

Stock which is now ready gives a fine growth fit to put in 60 days from planting, and so will come right after Christmas, when good Smilax inclines to be scarce.

'Twill Pay! Try It! Price, \$3.00 per 100; \$27.50 per 1000; by Adv. Express from Fredonia, N.Y. Samples free by Express, applicant paying charges.

**DAN'L B. LONG, Growers' Agent, - - BUFFALO, N. Y.** When Writing Mention Florists' Exchange

**GERANIUMS 14 DAYS GERANIUMS**



Fine, stocky plants, rooted August, of the finest bedding and fancy to date, only named, 2 1/2 inch \$2.00 per 100; 4 1/2 inch per 100; J. D. Cabot, Mellow, Contesse de Harcourt, Dr. Henry, Bambolina, J. Richmond, Mrs. Hoar, Mrs. G. Henry, Nancy, E. Roland, Le Rituel, J. Saller, Mme. Brant, Fort Potteville, Dr. Hothers, Dr. Ernest Raymond, Olivine, Snowdrop, Benjamin Schroder, Dr. Bianchi, Double Gavines, Mrs. J. M. Gier, Le Favorite, Farnum, Getzyberg, S. A. Nutt, Aurora Borealis, Beate Potteville, W. P. Simmons, Miss, de Solters, Peter Vliestor, Solitaire, Mrs. A. Bland, Mrs. E. G. Hill and 46 more choice varieties. We have also old standard leaders not named, mixed, at 2 1/2 inch, \$1.50 per 100; \$10.00 per 1000, strong, fine plants.

**PANSY PLANTS.** Giant Flowering, transplanted, bushy plants, \$4.00 per 100; \$10.00 per 3000.

**NEW VELVET PLANT,** color of purple velvet. Habit like a Geranium, and just as hardy. Sells at night, 50c a doz.; \$4.50 a 100.

**200,000 CARNATION CUTTINGS,** ready February 15, all the new and standard varieties. Write for estimate. We will surprise you.

**THE MORRIS FLORAL CO., Morris, Ill.** When Writing Mention Florists' Exchange

**Providence.**

The Market. Trade fell off slightly the past week, owing to the several days of continuous rain. There is an abundance of all kinds of flowers and prices are low. Chrysanthemums are moving fairly well. The demand for these is somewhat on the increase, accelerated by the fact that an approaching annual exhibition. Pink Ivory is said by growers in this vicinity to be inclined to revert to the original color; those grown this season showing very nearly white. During the week signs of frost are displayed in several of the store windows announcing choice prices for 40 and 50 cents per dozen. California violets are very plentiful.

**Notes.** The monthly meeting of the Florists and Gardeners' Club was held last Friday evening with a good attendance. President Macrae in the chair. In the absence of the secretary, William E. Clapp served as secretary. There was but little business and the members indulged in a general discussion of crops, conditions and prospects. It was voted to hold a ladies' night in January, and a committee was appointed to make the necessary arrangements.

Treasurer Renaie is still on the sick list, confined to his room, but is slowly improving.

**Road and about.** Walter Mott was a visitor in town the past week. The representative of Siebrecht & Son, New York, was also a visitor.

J. Parks & Co. have opened the downtown store at the same place as last year. Miss Carter is in charge. William Hay is rejoicing over the recent arrival of a son.

**Cincinnati.** Trade has been very spasmodic, and is a long way from being settled. Chrysanthemums have sold better although they have not brought any fancy figures; so far, no stock to speak of has been entered, but not they have been thin when we were obliged to sell very low in order to clean up. The same can be said of roses and carnations, except Beauty and Carmot, which have found a good market. Mrs. Henry Robinson and Lady Fitzwygram have been the best selling chrysanthemum so far. Golden Trophy sells well, but the quantity has been very limited. Bonafino is just coming in, as also is Queen. Pinks have been and are very scarce. A few Mme. F. Perrin, Pres. Smith and Virand Morel have been received, but in no large quantity.

In roses Bride, Friedesand, and Meteor have been a drug on the market for some time, and we cannot expect much else until the chrysanthemum steps out, and out.

John Frises & Son, of Newport, Ky., were the only exhibitors of seedlings on Saturday last. These flowers, however, were not shown before the committee. This firm has three good ones, and are much better than some which have already been disseminated. They embrace the three leading colors—white and yellow, and pink. The white one was certified in 1896, sealing at that time over 85 plants, both in this city and Chicago, and is the writer's namesake, being a large creamy white, and a splendidly built flower, following Mrs. Henry Robinson. The yellow is named after Mr. Frise's wife and is early, globular in shape, splendid foliage and stem, and a medium grower. The pink I have already described in these columns. Carnations are doing nicely, and we shall have many choice ones in the city a little later. Many of the new varieties are showing up all. R. Rittermeister's Evelyn is in grand form now, and will be exhibited at the Indianaapolis show by the way. Richard is the judge there again this year.

As a party of florists attended the show at Indianaapolis, got over in a body on Thursday. E. G. GILBERT.

**VENETIA BELLEVERA.** I have a small surplus of fine plants, 12 to 18 in. high above the 3 in. pot. Price, \$3.00 per 100. Also a few fine plants of **PANDANUS VEITCHII** in 4 1/2, 6 and 7 in. pots. **W. T. BELL, - - Franklin, Pa.** When Writing Mention Florists' Exchange

**Selenia Emilia, 2 in., \$2.10, \$3 per 100.**  
**Lucas Felthorpe, 3 in., 50c per doz.**  
**Cyperus Alternifolius, 3 in., \$3 per 100.**  
**Water-flowering Myosotis, Blue Perfection, 2 1/2 in., \$2 per 100.**  
**Adiantum Canestum and cap. venosum, 3 in., \$4 per 100.**  
 Cash with order.

**JOHN G. EISELE, 20th & Centre Sts., Phila. Pa.** When Writing Mention Florists' Exchange

**AZALEAS, PALMS. . . . .**

**ARAUCARIAS, BAY TREES, BEGONIA AND GLOXINIA CULTURE** to any quantity.

**SANDER, BRUGES, BELGIUM.**  
**A. DIMMOCK, Agent, 60 Vesey St., N. Y.** When Writing Mention Florists' Exchange

**WILLOWMEAD GARDENS, (J. M. W. KITCHEN, Proprietor)**

**PLANTS ORCHIDS BLOOMS**

Most complete commercial collection in America. Show collection for retail florists a specialty. \$2.50 and up to the trade. Catalogue sent free. **Willowmead Gardens, 61 Prospect St., East Orange, N. J.** When Writing Mention Florists' Exchange

**FERNES.**

In fine assortment, from 2 1/2 in. pots, \$4.00 per 100; \$35.00 per 1000. . . . .

**GHAS. T. DARLING, Stony Brook, L. I. N. Y.** When Writing Mention Florists' Exchange

**FERN PTERIS TREMULA**

**NOW READY.** In excellent condition, from 2 1/2 in. pots to 12 in., all ready to ship to \$2.50 per 100; \$30.00 per 1000.

**R. WITTESTERKATTER, Sedamsville, Ohio.** When Writing Mention Florists' Exchange

**10,000 AZALEA INDICA**

**ALL VARIETIES.** Just arrived, including double and single plants, of which we make this special offer for cash: 10 to 12 inch crown, \$80.00 per 100; 14 to 16 " " " " " " 60.00

**WHITTON & SONS, Wholesale Florists, City and Green Sts., - - - - - UTICA, N. Y.** When Writing Mention Florists' Exchange

**FINE STOCK OF PALMS**

	Each	Doz.
Areca Lutensens, 4 in. pots, . . . . .	\$5.25	\$2 75
Latania Borbonica, 4 in. pots, . . . . .	20	2 00
" " " " " " " " " " " " " " " "	5	1 50
" " " " " " " " " " " " " " " "	strom	75
7 to 8 leaves, . . . . .	1 00	
Kenia Foresteriana, 4 in. pots, . . . . .	30	3 00
" " " " " " " " " " " " " " " "	5	1 00
" " " " " " " " " " " " " " " "	Belmorran	4 00
" " " " " " " " " " " " " " " "	5	75

**Ficus Elastica** good stock, from 20c. to 1 1/2 inch. Ferns, well grown, assorted stock, 2 1/2 in. pots, \$3.50 per 100.

☞ Cash or satisfactory reference.

**JOHN DABER, Allegheny City, Pa.** When Writing Mention Florists' Exchange

**NEPHROLEPIS EXALATA**

**BOSTONIENSIS,** \$20.00 per 1000.

**Nephrolepis Exaltata,**

for next 30 days only; all extra fine plants.

Send for list of winter-blooming Cereus, etc., almost every kind away. **B. M. WIGHERS & CO., San Antonio, Fla.** When Writing Mention Florists' Exchange



## SITUATIONS WANTED.

**Rate, 10 cents per line (6 words), each insertion.** Cash with order. This rate applies only to situations wanted by florists and is not to be sold without display. Where letters are addressed in care of florists, 10 cents extra per copy must be added.

**SITUATION WANTED**, by competent young man, as assistant in commercial place; best of references. Please send names. Address: S. C. care Florists' Exchange.

**A YOUNG man wishes employment** in store of floriculture; understands all branches; can furnish good references. Address N. W., care of Florists' Exchange.

**SITUATION WANTED**, by young man; thoroughly understands growing of roses and all kinds of plants; good references. Address: J. care Florists' Exchange.

**SITUATION WANTED** as rose grower or foreman; good grower of cut flowers and general floriculture; good references. Address: J. care Florists' Exchange.

**SITUATION WANTED**, by young man, single, born S. Hollander; 15 years' experience about 2 years in this country; good hand in design work; best of references. Address H. Brinkgreve, Breile, N. J.

**WANTED**, position to florist's store, by young lady, as book-keeper; willing to assist in all matters; knowledge of stenography and book-keeping. Apply Miss Marie Smith, care of J. Florist, Milwaukee, Wis.

**CADRENER florist**, single, 18 years' experience in all branches, desires situation as foreman or assistant in commercial place; good references; the leading nurseries in Europe and America. Address: N. C., care Florists' Exchange.

**GOOD**, all around man. English, warm situation, good grower of cut flowers and general floriculture; will work in palm, ferns, orchids, etc.; will work abroad. H. V., Box 81 Knoxville, Tenn.

## WANTED.

A position; by a young man, American, single, good character, and executive ability; good machinery; knowledge of all branches of trade; was salesman, buyer and maker-up of one of leading stores in New York City; also served 10 years selling to the trade; fully capable of managing a store of commercial place. Please state salary and chances of advancement; permanent place desired. Address: Hustler, Florists' Exchange.

## HELP WANTED.

**First-class German gardener**, unmarried, either as assistant to buy plants, with knowledge of all stock; small capital needed; trip permitted. Address: K. 3, Florists' Exchange.

## WANTED.

**Two experienced plant packers** at once. Send references. Also wanted 6 plantmen for fern and palm dept. Communicate at once. Rose Hill Nurseries, Siebrecht & Son, New Rochelle, N. Y.

## WANTED.

A good all-round greenhouse man; single; a careful and rapid worker and of steady hand in good plants, etc. Address: H. B. N. care Florists' Exchange.

## WANTED.

A young man of pleasing address in a flower store; should be a good designer and competent at arranging wedding and other floral decorations with plant trade and willing to make himself available as greenhouse man; good references; dress, steady experience and salary excepted. C. F. Fairlie, Springfield, Mass.

## WANTED.

Prices on Holly, Lycopodium, Mistletoe and Laurel. Also Cyma Revolver. WILL LABRETT, New 150 No. Del. St., Indianapolis, Ind.

## WANTED.

Stock of *Latinia Borbonica* from plants of 1 inch pots, also 2 1/2 inch. Quote lowest cash price and state quantity for sale.

## WANTED.

"a Florist," care Florists' Exchange.

## Chrysanthemum Society of America.

The committees judging new seedlings will be in session November 6, 13, 20, 27.

Exhibitors should make their entries (for which a fee of \$2 is charged for each variety exhibited) by the first of October, or later than Tuesday of the week the blooms are to be shown.

Entries should be made in one of the following addresses, express prepaid, will receive careful consideration: Boston, 237 North St., Horticultural Hall.

New York—Eugene Dallouzeau, care of New York Cut Flower Co., 121 W. 23d St.

Philadelphia—Edwin Lonsdale, 1514 Centre Street.

Cincinnati—B. Witterstaedt, corner Fourth and Walnut streets.

Chicago—W. N. Ridd, room 202, 185 Dearborn St.

## Secretary's Official Report.

Seedling chrysanthemums submitted to the committees October 30, '97, are as follows:

## NEW YORK.

**Matherhorn**, Exhibited by Peter Henderson & Co., New York, Japanese reflexed, white; scored, exhibition scale, 75 points.

**Klonkie**, Exhibited by Peter Henderson & Co., New York, Japanese reflexed, pink yellow; scored, exhibition scale, 68 points.

**Mrs. C. F. Diehm**, Exhibited by Peter Henderson & Co., New York, Japanese reflexed, white, with lilac-pink suffusion and suffusion; scored, exhibition scale, 56 points.

**Florence Turner**, Exhibited by Peter Henderson & Co., New York, Japanese reflexed, amber; scored, exhibition scale, 55 points.

**Miss W. M. Case**, Exhibited by Peter Henderson & Co., New York, Japanese reflexed, rose pink; scored, commercial scale, 81, exhibition scale, 70 points.

**J. R. McDonald**, Exhibited by John Marshall, Purchase, N. Y., incurred sunny yellow; scored, exhibition scale, 81 points.

**Sea Foam**, Exhibited by D. Wm. Brainard, Thompsonville, Conn. Japanese reflexed, cream; scored, exhibition scale, 81 points.

**Col. Appleton**, Exhibited by J. R. McDonald, Riverdale, N. Y., Japanese incurred, yellow; scored, commercial scale, 80 points.

No blooms were submitted at Chicago and Cincinnati.

## MEMBER D. SMITH, Secretary.

## Seedling Chrysanthemums.

New York.—Eight seedlings were presented for inspection of the committee Saturday, October 30; and while the number was the largest of this season, the quality was certainly the least desirable; not one of the best and the necessary number of points to secure a certificate. The nearest approach to it was a variety named "Donna," which was exhibited by John Marshall, Purchase, N. Y. This is a high-colored yellow, with a good form and appearance and form. The variety was shown last season and then lost a certificate by only a few points; after that it was the flowers losing their petals while being exhibited. The same trouble occurred again on Saturday.

Col. D. Appleton, a fine large, bold, intense yellow, exhibited by J. R. McDonald Riverdale, made a good impression, but lacked finish or uniformity; several blooms being of great size and of a very good appearance. This was unfortunate to exhibit the blooms in this condition; for the variety must possess considerable merit, as we were told that the plant from which these were cut was carrying 30 such flowers.

Sea Foam is a cream, made a good impression, but lacked finish or uniformity; several blooms being of great size and of a very good appearance. This was unfortunate to exhibit the blooms in this condition; for the variety must possess considerable merit, as we were told that the plant from which these were cut was carrying 30 such flowers.

Peter Henderson & Co., New York, exhibited two entries, one for exhibition purposes, all of a neat, bright appearance, but lacking enough strength to pull them through. Yet, in all appearances, they seemed capable of more being made of them than they received. One of the best was Mrs. W. M. Case's, a delightful rose pink. It is a variety of great commercial exhibition purposes. This promises well to be a valuable variety.

Matherhorn is the name given to a white

reflexed of the "ullingrudi" type, a neat and charming bloom in its class. Several varieties from this firm were Florence Turner, amber, Japanese reflexed, with frequent lilac suffusion and marking, Japanese reflexed, white with frequent lilac suffusion and marking, Japanese reflexed, yellow, with frequent lilac suffusion, Japanese reflexed, a handsome chrysanthemum, but lacking in size.

## Chrysanthemum Culture.

*Paper read before the Chicago Florists' Club, October 23, by Mr. G. Stolley.*

I think the best place to start the subject of growing chrysanthemums is from the beginning, and that is, from the year previous. Our method is to select good stock plants of the varieties we wish to grow, keeping them on the dry side, our object being to keep them dormant as much as possible till we wish to begin propagating. I may mention here that last year we put some out in frames and outside without any protection, and some of them were killed; but on top of them till along in January, and we were very well satisfied with the result. In the spring we cut them down, sold, but after thawing out they started finely, and we got some good strong cuttings. I think that we have got them a rest that would be impossible in a greenhouse of the temperature before mentioned.

Our time for propagation depends on what size we want our plants to be when we start to grow them. In the north, slow growers we start about the end of January, good growers considerably later. We like all of our plants to be rooted in 3-inch pots for planting with the exception of a few varieties. Vivand, 3 1/2 inch pots, and some varieties in 2 1/2 or 4-inch pots, as it always produces in a young state, and we find the plants are much stronger than those which they will produce later when in a hard state. As soon as planted in the soil, we water them very freely. Next we select two of the strongest, cutting out the original plants.

In making out our books detailing these little peculiarities of different varieties, our notes are very extensive. It is our teacher one can have, and anyone having a love for his work will soon find that the more he knows the more he can clear our houses ready for planting, hoisting our benches over and giving a thorough cleaning to the benches. The bottom of the benches we put about one inch of well-rotted cow manure, after which we put a layer of soil about 1 1/2 inches deep. For soil we use that which comes from the river west of Bowmanville. The best experience I have had is to place a layer of soil about 1 1/2 inches deep. For soil we use that which comes from the river west of Bowmanville.

In the next season's work, I have had a chance to pulverize it, using very little manure, about three loads of cow manure, and using it very sparingly. We place in the center of the heap and when the pile is turned it gets mixed all through. In preparing the soil from the banks of the Chicago river we do not need as much manure as we would if we were to grow in a house. For its extracts, some of which are undoubtedly left on its banks.

As we grow our benches over we are ready for planting. As to the distance apart, we are guided by the variety to plant. As we grow our benches over we are ready for planting. As to the distance apart, we are guided by the variety to plant.

As we grow our benches over we are ready for planting. As to the distance apart, we are guided by the variety to plant. As we grow our benches over we are ready for planting. As to the distance apart, we are guided by the variety to plant.

As we grow our benches over we are ready for planting. As to the distance apart, we are guided by the variety to plant. As we grow our benches over we are ready for planting. As to the distance apart, we are guided by the variety to plant.

As we grow our benches over we are ready for planting. As to the distance apart, we are guided by the variety to plant. As we grow our benches over we are ready for planting. As to the distance apart, we are guided by the variety to plant.

As we grow our benches over we are ready for planting. As to the distance apart, we are guided by the variety to plant. As we grow our benches over we are ready for planting. As to the distance apart, we are guided by the variety to plant.

that is by running wires lengthwise of the bench, as many wires as there are rows, one wire just above the soil, another below it. Japanese reflexed, with frequent lilac suffusion and marking, Japanese reflexed, white with frequent lilac suffusion and marking, Japanese reflexed, yellow, with frequent lilac suffusion and marking, Japanese reflexed, a handsome chrysanthemum, but lacking in size.

growth of the variety to be tied up, and then running strings between the wires, one wire just above the soil, another below it. Japanese reflexed, with frequent lilac suffusion and marking, Japanese reflexed, white with frequent lilac suffusion and marking, Japanese reflexed, yellow, with frequent lilac suffusion and marking, Japanese reflexed, a handsome chrysanthemum, but lacking in size.

one wire just above the soil, another below it. Japanese reflexed, with frequent lilac suffusion and marking, Japanese reflexed, white with frequent lilac suffusion and marking, Japanese reflexed, yellow, with frequent lilac suffusion and marking, Japanese reflexed, a handsome chrysanthemum, but lacking in size.

one wire just above the soil, another below it. Japanese reflexed, with frequent lilac suffusion and marking, Japanese reflexed, white with frequent lilac suffusion and marking, Japanese reflexed, yellow, with frequent lilac suffusion and marking, Japanese reflexed, a handsome chrysanthemum, but lacking in size.

one wire just above the soil, another below it. Japanese reflexed, with frequent lilac suffusion and marking, Japanese reflexed, white with frequent lilac suffusion and marking, Japanese reflexed, yellow, with frequent lilac suffusion and marking, Japanese reflexed, a handsome chrysanthemum, but lacking in size.

one wire just above the soil, another below it. Japanese reflexed, with frequent lilac suffusion and marking, Japanese reflexed, white with frequent lilac suffusion and marking, Japanese reflexed, yellow, with frequent lilac suffusion and marking, Japanese reflexed, a handsome chrysanthemum, but lacking in size.

one wire just above the soil, another below it. Japanese reflexed, with frequent lilac suffusion and marking, Japanese reflexed, white with frequent lilac suffusion and marking, Japanese reflexed, yellow, with frequent lilac suffusion and marking, Japanese reflexed, a handsome chrysanthemum, but lacking in size.

one wire just above the soil, another below it. Japanese reflexed, with frequent lilac suffusion and marking, Japanese reflexed, white with frequent lilac suffusion and marking, Japanese reflexed, yellow, with frequent lilac suffusion and marking, Japanese reflexed, a handsome chrysanthemum, but lacking in size.

one wire just above the soil, another below it. Japanese reflexed, with frequent lilac suffusion and marking, Japanese reflexed, white with frequent lilac suffusion and marking, Japanese reflexed, yellow, with frequent lilac suffusion and marking, Japanese reflexed, a handsome chrysanthemum, but lacking in size.

one wire just above the soil, another below it. Japanese reflexed, with frequent lilac suffusion and marking, Japanese reflexed, white with frequent lilac suffusion and marking, Japanese reflexed, yellow, with frequent lilac suffusion and marking, Japanese reflexed, a handsome chrysanthemum, but lacking in size.

one wire just above the soil, another below it. Japanese reflexed, with frequent lilac suffusion and marking, Japanese reflexed, white with frequent lilac suffusion and marking, Japanese reflexed, yellow, with frequent lilac suffusion and marking, Japanese reflexed, a handsome chrysanthemum, but lacking in size.

one wire just above the soil, another below it. Japanese reflexed, with frequent lilac suffusion and marking, Japanese reflexed, white with frequent lilac suffusion and marking, Japanese reflexed, yellow, with frequent lilac suffusion and marking, Japanese reflexed, a handsome chrysanthemum, but lacking in size.

one wire just above the soil, another below it. Japanese reflexed, with frequent lilac suffusion and marking, Japanese reflexed, white with frequent lilac suffusion and marking, Japanese reflexed, yellow, with frequent lilac suffusion and marking, Japanese reflexed, a handsome chrysanthemum, but lacking in size.

one wire just above the soil, another below it. Japanese reflexed, with frequent lilac suffusion and marking, Japanese reflexed, white with frequent lilac suffusion and marking, Japanese reflexed, yellow, with frequent lilac suffusion and marking, Japanese reflexed, a handsome chrysanthemum, but lacking in size.

Chicago.

Club's Annual Meeting.

The annual meeting of the Club took place on Tuesday, 27th, a good attendance. George Thielman was elected to membership. After routine business had been disposed of, the program was for the ensuing year, as prepared by the committee as follows, was accepted: February 7—Program given at annual banquet takes place that night.

November 25—General call to resident florists to induce them to become members.

December 8—Fumigation versus liquid insecticides.

December 22—Christmas week, no subject.

January 13—Ladies' night. Music, song, and story.

January 27—Potted plants for market.

February 11—Kilners' night.

February 25—American Carnation Society week, no subject.

March 12—Rose and violet night.

March 26—Lily and general bulbs.

April 6—Bedding plants.

April 23—Private gardeners' night.

May 6—Palms, ferns, and other ornamental plants.

May 20—Sweet peas and plants for forcing.

The program committee was continued with instructions to have each night open to some one member, to be selected. Messrs. McKellar, Reardon, and Hedron were appointed a committee on flower show banquet.

The committee on fire insurance asked for more time, and report of American Garden Society meeting committees was deferred.

George G. Stollery read a paper on growing new plants, and a presentation, quite a discussion followed on the evils of cutting the flowers before the bloom is fully developed.

The election of officers resulted as follows: President, O. L. Grant; Vice-presidents, Harry B. Gray, Fredrick W. Ward, T. F. Keenan; Treasurer, W. W. Hayward; trustees, P. N. Neelghe, C. W. Wilson, J. W. Wilson.

John S. Rudd had very fine double white and yellow carnations, a great salmon pink; a seedling from Harry Balesky crossed with Mrs. Jerome Jones, a deep red with ivory; Defender a Caltzudogni crimson, Sonyer de Petite Amie, and May Foster. Stollery, Fredrick, Keenan, A. J. Dresel; and A. McAdam had an elegant six-inch pot plant of the seed-double, pompon, and requiring no stakes.

A Gardener's Reception. A very pleasant evening was spent, by a special invitation, at the residence of A. O. Vink, in what he calls his ranch greenhouse, in honor of his gardeners, Ben and Friday. Fredrick, and Mr. Freer was present and a number of his friends including W. H. Chadwick, George Deaton, and Mrs. Deaton, respectively of the Chicago Horticultural Society, and John Thorpe; the others being company and private gardeners. A delightful evening was spent. This was the third annual King of the Kings' reception, and was lighted with Mr. Freer's hospitality. Not a plant or flower is sold from this establishment.

State of Trade. Roses are a glut and excepting a few fancy long-stemmed flowers, all sell very low. Reinberg Bros. sent in one lot of 4000 heavy and strong teas, extra fine. Kaiserin, Carnot and Testout are quoted at \$1.00 per dozen, commensurate with quality, \$3, being difficult to clear at this price.

Carnations are also suffering, although a fair demand is effected at 50c. to \$1.50.

Carnations well sold \$2.50 to \$1; 14,000 sold at \$1 a hundred for horse show on Monday. Lots of poor violets are yet in the market.

Chrysanthemums are in full blast; extra fine Bonafant, Marechal, and Mrs. Perrin being among them; they sell at \$2 to \$2.50 per dozen. What might be called a "Columbia" is being sold at \$1 down to 50c. per dozen for common. Lots of common blooms are shipped to New York and Philadelphia.

Paper white narcissus are in this week, selling at \$4 per 100.

Around Town.

J. C. Vanagan got in his first carload of azaleas the past week in time order.

John Algot, gardener for the late G. M. Fullman, was remembered to the extent of \$200 by the Fullman will. The Klinder Floral Co. has opened up at No. 1 Van Buren street, and W. H. Hill has opened up at 173 W. Erie.

Albert T. Hoy, Springfield, Ill., was a visitor the past week.

EDGAR SANDERS.

Toronto.

Flowers Plentiful.

There is an immense quantity of cut flowers around just now. Chrysanthemums, in every shade, are nearly all good blooms this year; they sell fairly well at from \$3 to \$12 per hundred. Roses are also plentiful; good stock for shipping is selling at from \$8 to \$8, while small and second class flowers can be bought very low. Carnations are good and are bringing from \$2 to \$2.50 per 100, with a demand at all for poor stock. But few chrysanthemum plants are offered here, and the changes made in the prices the past few years that the boys have stopped growing them, but I think that a number of them could be sold at fair figures this season.

Violets are selling fairly well, but few nice good ones are offered. Cattleya labiate are rather too plentiful.

There is every indication of our show being better this year than ever.

Club Meeting.

The October meeting of the Gardeners and Florists' Association was a very good one. There was considerable discussion on the changes made on the tariff. The committee having the matter in hand reported that they had an letter from the government, and that he was surprised to hear that the changes made in the tariff were not so radical as they had been reported; that both his colleagues and himself understood that the deportation of seeds, and the tariff on plants, and the changes were made, represented the florists' interests as well as their own, and as they had asked for certain things to be made dutiable, the tariff was altered to suit their wishes. The committee proposed that the necessity of at least putting orchids and azaleas on the free list, and promised to write to him regarding the matter, and after giving it up before the association. The matter was left in the hands of the committee.

The executive committee reported that most of the arrangements for the chrysanthemum show had been made, and a considerable number of prizes had been promised. The music had not yet been engaged, but some tenders for it were put in, and after discussion the matter was left to the committee, the president, and William Lawrence.

The judges for cut flowers will be Mr. J. H. Lawrence, for some time, and for plants, either Sam Aylett, of Hamilton, or A. H. Ewing.

The meeting was read by George Vair, president of the Electoral District Agricultural Society, in which that body had granted \$100 for the purpose of the show. A letter was also read from Mr. J. H. Lawrence, of Toronto, forming a Canadian Gardeners and Florists' Society, and it was suggested that a meeting should be held here, and should be held here during the show, the executive committee to provide a room for the meeting.

George Milla exhibited some blooms of a pretty fancy seedling carnation that he had grown for some time, after the style of Helen Keller, but Mr. Milla claims it to be the most perfect in color that he has ever seen. The flowers are well shaped, do not burst; the stems are stiff and strong, and strongly recommended it for further trial.

W. H. HASTON.

Rome, N. Y.

C. B. Humphrey has contracted for a gas well in the rear of his greenhouse, No. 605 Chatham street. Work will be done on the well \$1 to \$1.50 to be completed before December 17. It will be sunk to a depth of 900 feet if necessary, and will be heated by natural gas, enough natural gas to heat his greenhouses.

Pittsburgh.

President's Visit Stimulates Trade.

I am able to report another fair week's trade in cut flowers. The presence of President McKinley in the city last week, was an additional factor to work to a few of the florists. Stock of all grades was sold, and no prices were given, as usual. Carnations sell at from 25c.; roses 50c. per dozen and up. All chrysanthemums are in the best condition of it; there is much cutting in price, as every one is anxious to sell, and good flowers are offered as low as 75c. per dozen.

Club Notes.

There was not a quorum at our last meeting, so no proposed flower show will be of this year. This is a pity, as several prominent societies were very willing to lend assistance, in fact, we have insured the total expense of a show. The next regular meeting, November 11, will be a social one, but the necessary business will also be transacted.

Jottings.

Wm. R. Smith, of Washington, spent several days in our city last past week. Mr. Smith is very highly of the Phipps conservatory in Schenley Park, and was very complimentary of the collection of plants they contained. The chrysanthemum display, in its estimation, he had never seen, that is, the general display, which he thought had never been equaled anywhere in this country. Some of the same Superintendent Falconer is just starting, will be very interesting to the public. The number of plants he has received for this department lately, W. S. Clov sent a collection of pineapple wreath from his plantation at Fort Beach, Fla., and a consignment of stock was received from F. J. Berkman, near the city, in the oranges, tea, coffee, cinnamon, fig, guavas, persimmons, etc.

The weather has at last changed for the better, and we are now getting a day or two of rain for which some of our growers will be thankful, as they were compelled to keep their plants covered. Flowers are still blooming outdoors, but it looks as if a change were near at hand.

W. H. HARRISMAN.

Washington.

George Glorion, 317 R street, recently sustained rather severe injuries through his fall from a wagon. Mr. Glorion was thrown from the wagon and badly cut and bruised. He was taken to Georgetown Hospital.

The florists held a meeting on October 29 for further discussion of the subject of free flow of flowers by the government. A letter was read from Colonel Bingham in which he said that in his opinion the amount of damage to the local florists by the distribution of flowers from the government greenhouses would be small, and that the florists did not have just and sufficient grounds for complaint. He stated, however, that the investigation which the department was making had not been completed, and it would suit him very well to have the florists' views on this subject put on record, prohibiting the distribution of the flowers, as it would bring about a final settlement of the matter.

A letter was also read from Attorney J. J. Darlington, whom the florists have retained as counsel, in which they advised asking against an injunction, and the opinion of the writer being that the florists were entitled to stand by their standing in court. Mr. Darlington advised that in any settlement would be by conference with the Secretary of War and the Superintendent of Public Buildings and Grounds.

A committee was appointed to draw up a petition for circulation among the florists, and the Juniors, by declaring that the distribution of plants and blooms by the government was detrimental to the commercial interests of the florists of the city, and protesting against it. This petition will be used, if necessary, in seeking action by Congress. Messrs. N. Studer, W. H. King, J. H. Levy, Robert Bowdler, and Joseph B. Hadden are members of this committee, which was also instructed to draw up a statement of the florists' case for presentation to the Secretary of War. The committee will report at the next meeting.

The opinion of Robert Bowdler, it was decided to form a permanent organization, and steps to that end will be taken at the meeting of the Florists which will be held at the Hotel Johnson on Thursday evening, November 11, at 8 o'clock.

Darien, N. Y.

A hurried look through Harmon & Parr's houses last week showed their carnations in good stock, and average size with them, owing to the small growth cut-out doors, but in good general condition. Their new white carnation Genesee, also showed the result of improper pinching for its small growth outside outdoors, being very carnation later than last year. Its growth is fine and all strangers would indicate it is taking a good course as concerning the plants. A block of new here, is making hundreds of violets and to a serious extent. "Violet."

BOILERS FOR SALE!

Two No. 3, Style C. GURNEY HOT WATER DOUBLE CROWN BOILERS, complete. In use these seasons, were over 30,000 cubic feet of gas for Palm growing. Offering for sale, because we are increasing our capacity. These boilers cost \$550.00 each. We offer for \$300.00 each, f. o. b., River, N. J.

HENRY A. HAYDEN, 714 Chestnut Hill, PA., When Writing Mention Florists' Exchange.

PAANSIES Strong plants from seed of my own growing from the carnations of J. S. Foster, at Dayton, O., per 1000; 60cts. per 100 by mail.

PAANSIES My new variety, J. S. Foster, at Dayton, O., When Writing Mention Florists' Exchange.

Pansy Plants.

Schmidt's International Market of Pansies is the finest in the market, unsurpassed for size, color and blooming, strong stocky plants, 50c. per 100, by mail \$1.00 per \$2.00 per 1000.

J. C. SCHMIDT & CO., Bristol, Pa. Wholesale Pansy Growers. When Writing Mention Florists' Exchange.

PAANSIES.

50,000 plants now ready at 100c. per 100; \$4.00 per 1000, prepaid.

GERANIUMS, Fine ready at 90c. per 100. YELLOW DAISIES. Estate of O'Neil, Boston, Mass., 20c. per 100, \$2.00 per 1000.

C. A. HARRIS & CO., Cash with order. DELANSON, N. Y. When Writing Mention Florists' Exchange.

PAANSIES.

Good plants, \$2.50 per 1000, or \$1.50 per 500.

Large plants, \$4.00 per 1000, or \$2.50 per 500.

Blooming plants, \$1.50 per 100. Seed as usual. Cash with order.

F. O. B. Express. C. SOLTAU & CO., 199 Grand Avenue, - - JERSEY CITY, N. J. When Writing Mention Florists' Exchange.

PAANSIES.

DOEMER'S SUPERB PRIZE PAANSIES. This strain includes all the leading novelties of the season, and is the best in the market sent. Price, \$2.00 per 100 by express; \$4.00 per 1000, by mail. Seed, 3/4 ounce, \$1.75; packet of 200 seed, \$1.00.

CASH WITH ORDER. PETER BROWN, - Lancaster, Pa. When Writing Mention Florists' Exchange.

PAANSIES.

Of that American growth of Pansies now ready; the best in every respect. First-class in every respect. The following are the names of many well known varieties: MR. B. J. JENNISON, DR. SHIP, The Pansy Seed applied by you in the past season. They were uniformly first-class. Seed sent free of charge. Billed as usual, and sent by express, if desired.

Best of all the new ones. Finest mixed, per 100, by mail, postage, 75c.; per 1000, by express, \$1.00, \$5.00 per 1000. State price of 1000 plants, \$1.00 per 1000. \$5.00 per 1000. \$5.00 per 1000. \$5.00 per 1000.

GARNATIONS.

Fine stock of leading kinds at \$5.00 per 100. Cash with order.

E. B. JENNINGS, Lock Box Southport, Conn. BROWER OF THE FINEST PAANSIES. When Writing Mention Florists' Exchange.

**PEAT AND LEAF MOULD,**  
extra large barrels, \$10 each;  
6 barrels, \$5.00. **HARDY PERENNIALS**  
and **SEEDS.**  
Wm. H. BARNES & SONS, Lebanon Springs, N. Y.

When Writing Mention Florists' Exchange

**STANDARD POTS.**

We are now ready to supply a superior quality of Pots in unlimited quantities Catalogues and price lists furnished on application.

**A. H. HEWS & CO.,**  
**NORTH CAMBRIDGE, - MASS**  
When Writing Mention Florists' Exchange

**STANDARD FLOWER POTS**

In any quantity, and of the best quality. Get my price list before ordering elsewhere.

**W. H. ERNEST,**  
Station M. N. E., WASHINGTON, D. O.  
When Writing Mention Florists' Exchange

**SAVE THE BLOOMS!**  
**NIKOTINE**  
DOES NOT INJURE SENSITIVE PLANTS USED FOR FUMIGATION OR SPRAYING, INDOORS OR OUT. 200 POUNDS TRUCKS OR 100 POUNDS PRICE \$1.50. ALL SEEDSMEN.



When Writing Mention Florists' Exchange

**THE BEST FOR ALL Florists.**

**ROSE EXTRACT OF TOBACCO INSECTICIDE**

FOR SALE BY Seed Stores. For Free Pamphlet, WRITE TO LOUISVILLE, KY. SPRIET CURRY TOBACCO CO. Louisville, Ky.

When Writing Mention Florists' Exchange

**SHEEP MANURE**

Cleaned and prepared expressly for florists' use. For full particulars see the extensive catalogue. For reference to the best first-class fertilizer you to Henry F. GODFREY & COMPANY, Philadelphia, Pa. Price per ton, \$2.00. Per ton, \$3.00. \$4.00 to car load.

Orders will be taken in exchange.  
**GODFREY & COMPANY,**  
1012 Ontario St., PHILA., PA.  
When Writing Mention Florists' Exchange

**BEFORE BUYING A FUMIGATOR WATER TANK.**

SEE THE ONE WITH

**WATER TANK.**

ALL SEEDSMEN SELL

**THE PERFECTION**

When Writing Mention Florists' Exchange

**CHANGED PRICE LIST OF Neponset Flower Pots**

IN FORCE FROM JULY 15, 1897.

Terms—Not cash with order. If ordered shipped by freight, add 50 cents charge.

Size	Gross Weight	Crates of per 100	Per 100 Per 1000
2 1/2 inch.....	100.....	20.....	\$0.25 \$2.50
3.....	100.....	20.....	30 3.00
3 1/2.....	100.....	20.....	40 4.00
4.....	100.....	20.....	50 5.00
4 1/2.....	100.....	20.....	60 6.00
5.....	100.....	20.....	70 7.00
5 1/2.....	100.....	20.....	80 8.00
6.....	100.....	20.....	90 9.00
6 1/2.....	100.....	20.....	100 10.00
7.....	100.....	20.....	110 11.00
7 1/2.....	100.....	20.....	120 12.00
8.....	100.....	20.....	130 13.00
8 1/2.....	100.....	20.....	140 14.00
9.....	100.....	20.....	150 15.00
9 1/2.....	100.....	20.....	160 16.00
10.....	100.....	20.....	170 17.00
10 1/2.....	100.....	20.....	180 18.00
11.....	100.....	20.....	190 19.00
11 1/2.....	100.....	20.....	200 20.00
12.....	100.....	20.....	210 21.00
12 1/2.....	100.....	20.....	220 22.00
13.....	100.....	20.....	230 23.00
13 1/2.....	100.....	20.....	240 24.00
14.....	100.....	20.....	250 25.00
14 1/2.....	100.....	20.....	260 26.00
15.....	100.....	20.....	270 27.00
15 1/2.....	100.....	20.....	280 28.00
16.....	100.....	20.....	290 29.00
16 1/2.....	100.....	20.....	300 30.00
17.....	100.....	20.....	310 31.00
17 1/2.....	100.....	20.....	320 32.00
18.....	100.....	20.....	330 33.00
18 1/2.....	100.....	20.....	340 34.00
19.....	100.....	20.....	350 35.00
19 1/2.....	100.....	20.....	360 36.00
20.....	100.....	20.....	370 37.00
20 1/2.....	100.....	20.....	380 38.00
21.....	100.....	20.....	390 39.00
21 1/2.....	100.....	20.....	400 40.00
22.....	100.....	20.....	410 41.00
22 1/2.....	100.....	20.....	420 42.00
23.....	100.....	20.....	430 43.00
23 1/2.....	100.....	20.....	440 44.00
24.....	100.....	20.....	450 45.00
24 1/2.....	100.....	20.....	460 46.00
25.....	100.....	20.....	470 47.00
25 1/2.....	100.....	20.....	480 48.00
26.....	100.....	20.....	490 49.00
26 1/2.....	100.....	20.....	500 50.00

Less quantities than four crates at 100 rates.

Standard Pot Measure.

**F. W. BIRD & SON, Manufacturers.**  
Address orders to our Agents,

**August Rölker & Sons**  
52 DEY STREET, NEW YORK.

**R. & J. FARQUHAR & CO., Boston, Mass.**  
When Writing Mention Florists' Exchange

**Buffalo.**

**Weather Conditions Change.**  
The unusually long spell of pleasant weather seemed to terminate with a rainy electric day, retaining its character that the light weather injured business. No doubt the craft, too, will weary of the weather, and finally one tending to reduce the general daily supply of flowers. Cut-price signs have recently been displayed at times in some stores. Business may be called hardly flat, while flowers of all going kinds are plentiful.

**Jottings.**  
H. J. Millart has been sojourning here since leaving Elmira, N. Y. His actions were indicative of one that is on the lookout for a business opening.

Dennis D. O'Connell has relinquished his formerly announced intention of engaging in other pursuits in Missouri, and can still be found doing business at his former Main street location.

Daniel B. Long last week made a short business trip east through New York state. William Scott started on Tuesday evening en route to Poughkeepsie to act as judge in the flower show on Wednesday.

Harry Bayerdorfer, of Philadelphia, called on Tuesday.

Architects' plans for the new conservatory in South Park are on display at the office of the Park Commission, and for the benefit of builders in their building estimates on construction. Wm.

**Syracuse, N. Y.**

Trade during the past month has been very satisfactory, a long succession of funerals helping out the regular business, while it has been a record-breaker for weddings, too. The weather has been magnificent—not more than three small showers during the month.

Interest in the coming flower show is well sustained among the florists and growers, and from the list that can be learned, it is apparent that more attention will be paid to it by the general public than in the past. We already received a gratifying number of entries for the "Yellow Fellow" contest, and more are expected during the first of the week. Almost all last year's exhibitors will compete for the various premiums, and many new exhibitors are likely to appear.

William Harradence has been appointed superintendent of exhibits at the flower show.

A tip to Henry Bart's greenhouses at Brighton found everything in the shape. Mr. A. Bart, who has charges, is justly proud of his carnations; a bench of Flora Hill would attract attention anywhere. His violets are superb, proof of their quality lies in the fact that he gets one and a half cents each for them.

**Orange, N. J.**

On Monday, November 1, was held the regular monthly meeting of the Floricultural Society of New Jersey. In addition to the regular business of the evening, a small exhibition of chrysanthemums was given. T. Wiley staged some grand blooms of chrysanthemums, May Flower, The Queen, Harry May, Minerva, and Mrs. J. M. Pullman, for which he was awarded several certificates. President Malcolm Morris exhibited some fine stock. Mrs. Robinson, Mary Bonafant and Vivian-dorel. Mr. D. Kinsler had about 20 plants grown to single stem in plants. Minerva, which were of great size. This exhibitor had also a fine bush plant of four or five stems in a single stem plant of a Paneratium bearing 12 expanded heads. Mr. Macfiorie put up several small plants of single stem given. There were in addition to the above several amateur exhibits of hardy chrysanthemums. D. Kinsler staged a very promising white seedling carnation. The blooms are of great size, the petals well distributed, color good and of considerable length; in fact, several blooms were almost ideal. There is room for improvement, however, in the stem as seen. George Smith also exhibited a new carnation which shows considerable merit, the color being a very deep coral and the flower illuminates well, and the stem is good.

A. D. Rose read a paper entitled "Chrysanthemum Culture, Past and Present," and a lively discussion followed.

**Simplicity in Greenhouse Construction.**

During our long experience we have not only made many improvements in greenhouses, but we have so simplified the construction that building a greenhouse is no longer a matter so full of complications as to tax the patience and the ingenuity of even the most intelligent mechanic. Our

**Clear Cypress Building Material**

is worked out in the best manner ready to be put up, and we furnish our customers such complete detail drawings that any workman of only ordinary capabilities can put it up correctly.

Write for Circulars or Estimates.

**Lockland Lumber Co.,**  
**LOCKLAND, OHIO.**

**GENUINE PEAT AND LEAF MOULD**

Large Barrels, \$1.00; in 10 bb. lots, at 75 cts. per bb. for F. O. B.

**JAMES L. REYNOLDS, Mount Vernon, N. Y.**

**DEATH TO THE INSECTS HARMLESS TO THE PLANTS.**

**THE KENTUCKY EXTRACT CO.'S**

**KILL IT**

As an insecticide for quick destruction of the Aphis cannot be exceeded. For sale by leading seedsmen.

**SURE**

**THE KENTUCKY EXTRACT CO. Columbus, O. SOLE MANUFACTURERS.**  
Book of Directions sent Upon Application.  
When Writing Mention Florists' Exchange

**MANURE**

Fresh and well rotted horse manure. Manure for Mushrooms growing a specialty. Excellent facilities for supplying by Wm. H. B. & O. and also by boat. Wm. Abernethy, Room 30, 112 W. Third St., Philadelphia, Pa.

When Writing Mention Florists' Exchange

**..Elixir..**

**Fertilizer**

Is a pure natural product and a most nutritious food for plants.

We will compare with all other fertilizers and will give you FREE LIBERAL ANSWERS TO PROVE IT.

**ELIQUA FERTILIZER**  
(THE LIFE OF PLANTS)

See our circulars.  
When Writing Mention Florists' Exchange

**GLASS**

FOR GREENHOUSES, CONSERVATORIES, GRAPERIES, HOTBEDS AND FLORISTS' USE GENERALLY, AT LOWEST RATES.

Lehigh Valley Glass Works, Philadelphia, Pa.

457 W. BROADWAY, NEW YORK. 30 LIBERTY ST., NEW YORK. Ret. Boston and Bleecker Sts. Ret. Broadway and Church Sts.

**GLASS! GLASS!**

For Greenhouses, Conservatories, Graperies, Hotbeds and all other purposes, at Lowest Rates.

**N. COWEN'S SON, 392 & 394 West Broadway, New York,**  
February 1st, 1898, 30, Fifth Avenue.

Get our figures before buying Glass. Estimates Freely Given  
When Writing Mention Florists' Exchange

**TRADE GREENHOUSES. THE BEST MADE.**

"Florists" Get Your Plans and Estimate from

**PLENTY'S HORTICULTURAL WORKS,**  
148-156 Randolph Ave., JERSEY CITY, N. J.  
When Writing Mention Florists' Exchange

**FURMAN BOILERS**

especially adapted to

**Greenhouse Heating.**

200 Styles and Sizes. Steam and Hot Water.

SAFE, SUBSTANTIAL, SIMPLE, ECONOMICAL.

Perkins & Bradford St.

**GREAT COAL SAVER.**

Send for catalogue. Estimates Free.

**THE HEREDENEF MFG. CO.,**  
Home Office: 13 Fay St., Geneva, N. Y.

BRANCH OFFICES:  
Boston, 54 Oliver St.; Philadelphia, 1015 Chestnut St.;  
New York, 39 Cortlandt St.; Milwaukee, 125 2d St.

When Writing Mention Florists' Exchange

**LORD & BURNHAM CO.,**

Horticultural Architects and Builders Steam and Hot Water Heating Engineers.

(Established 1856.)

Plans and estimates furnished on application for Greenhouses, Conservatories, and all kinds of Horticultural Buildings, erected complete with our patent iron construction; or for material only, ready for erection.



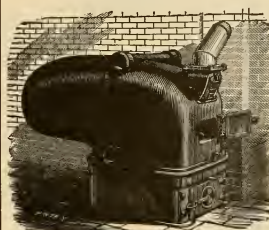
Largest Builders of Greenhouse Structures. Plans and construction embrace latest improvements. Six highest awards at the World's Fair. . . . . Send four cents postage to New York office for latest catalogue. . . . .

NEW YORK OFFICE: 160 FIFTH AVE., COR. 21ST ST. GENERAL OFFICE AND WORKS: IRVINGTON-ON-HUDSON, N. Y.

When Writing Mention Florists' Exchange

**GREENHOUSE HEATING AND VENTILATING,**

Horticultural Architecture and Building.



**Hitchings & Co**

ESTABLISHED 1844.

233 Mercer Street, NEW YORK.

**FIVE PATTERNS OF BOILERS.**

NINETEEN SIZES,

Perfect Sash Raising Apparatus.

Rosehouses, Greenhouses, Etc., of Iron Frame Construction erected complete or the Structural Iron Works shipped ready for erection.

Iron Frame Benches with the "Perfect Drainage Bench" or Slate Tops.

Mention paper

SEND 4c. POSTAGE FOR ILLUSTRATED CATALOGUE.

When Writing Mention Florists' Exchange

**24** harmonious combinations of 72 colors on our sample card. Send for one. It will help you to select colors that will beautifully as well as preserve. They are practical. JOHN LUCAS & CO., Philadelphia, New York and Chicago.

When Writing Mention Florists' Exchange

**SUMMER IN WINTER**

By Using Standard Greenhouse Boilers One cent gets our Catalogue.

GIBLIN & CO., - Utica, N. Y. When Writing Mention Florists' Exchange

**Grand Improved Challenge.**  
Boiler bearing, self-oiling device, automatic stop, solid link chain, makes the LINKED CHALLENGER the most perfect apparatus in the market.  
Write for catalogue and prices before placing your orders elsewhere.  
Quaker City Machine Co., RICHMOND, IND.

When Writing Mention Florists' Exchange

**MYERS & CO.,**

Greenhouse Builders,

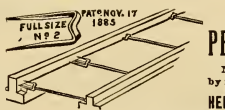
Steam and Hot Water Engineers,

1814-1820 S. Ninth St., Philadelphia.

When Writing Mention Florists' Exchange

**CYPRESS GREENHOUSE MATERIAL**  
JOHN C. MONINGER CO.  
412 to 422 WASHINGTON AV. CHICAGO, ILL.  
OF ANY DESCRIPTION.

SEND FOR CATALOGUE. When Writing Mention Florists' Exchange



When Writing Mention Florists' Exchange

**CALIFORNIA RED CEDAR**  
Never Decays.

A. DIETSCH & CO. 819 Sheffield Avenue, CHICAGO. MANUFACTURERS OF RED CEDAR AND CYPRESS GREENHOUSE MATERIAL.

When Writing Mention Florists' Exchange

**STANDARD VENTILATING MACHINE,**

NONE EQUAL IT IN Strength AND Durability

Send for Catalogue.

When Writing Mention Florists' Exchange

**THE VAN REYPER PERFECT GLAZIERS' POINTS**

No rights or lefts. Price per box of 1000, 60c. per 750, 75c. in lots of 5000 by ex., 55c. per 1000

HENRY A. DEER, 714 Chestnut St., Phila., Pa.

When Writing Mention Florists' Exchange

**EVERY FLORIST OUGHT TO INSURE HIS GLASS AGAINST HAIL.**

For particulars address JOHN G. SELLER, Sec'y, Saddle River, N. J. When Writing Mention Florists' Exchange

**VALVES AND FITTINGS**  
For Pipe and Tubing. VENTILATING APPARATUS.



COLDWELL-WILCOX CO., Newburgh, N. Y. SEND FOR CATALOGUE. Mention paper.

When Writing Mention Florists' Exchange

**IF YOU WANT A GOOD SASH LIFT**

For a Very Little Money Get



THE "NEW DEPARTMENT" VENTILATING APPLIANCE.

For Descriptive Catalogue Send to J. D. CARMODY, Evansville, Ind. When Writing Mention Florists' Exchange

**The Scollay Boiler**

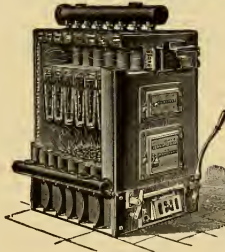
FOR GREENHOUSE HEATING, ETC. Hot Water or Steam.

"FARMINGTON, Conn., March 9, 1896. "The Invincible Boiler you placed in my Carnation houses has given great satisfaction. I did not have to run the boiler hard even when the thermometer stood 18 deg. below zero. It has proved 'Invincible' in every respect. HUGH CHESNEY, Florist."

Send Stamp for Catalogue and Price List. Estimates Cheerfully Given.

JOHN A. SCOLLAY, 74 and 76 Myrtle Ave., Brooklyn, -AND- 231 Water St., New York.

"INVINCIBLE." When Writing Mention Florists' Exchange



**CYPRESS IS MUCH MORE DURABLE THAN PINE.**

**CYPRESS SASH BARS**  
UP TO 36 FEET IN LENGTH OR LONGER. GREENHOUSE AND OTHER BUILDING MATERIAL.

Send for our Illustrated Book "CYPRESS LUMBER AND ITS USES." Send for our Special Greenhouse Circular. THE A. T. STEARNS LUMBER CO., Neponset, DUSTON, MASS.

When Writing Mention Florists' Exchange

What Progressive and Successful Florists say of my **TEMPERING APPARATUS**

ERNST AEMILIE, West 17th St., N. J., after four years use, writes: "It is very satisfactory . . . . It is a most great benefit to my stock, as well as improving the quality of my blooms."  
THORNE & CO., Fushion, I. I., writes: "It works to our entire satisfaction, and is so simple, proving in connection with the greenhouse hot water heating plant."  
SALTER BROTHERS, Rochester, N. Y., writes: "The only fault we found was, it got too hot; but after a while we will be cured."

HENRY W. GIBBONS, 134 LIBERTY STREET, NEW YORK. When Writing Mention Florists' Exchange

SEND FOR OUR NEW CATALOGUE, WHICH SHOWS **The New Automatic Cable Ventilator**

As it is put up in the boxes complete. We also give 700 pieces with a guarantee that each machine sent out will operate your house successfully. All machines now made in two sizes.

A. Q. WOLF & BRO., Dayton, Ohio. When Writing Mention Florists' Exchange

**J. K. ALLEN,**  
Wholesale Commissioner Dealer in  
**CUT FLOWERS,**  
57 W. 25th St., New York.  
Orders by mail or telegraph promptly attended to.  
Telephone Call, 322 25th St.  
**ROSES AND VIOLETS SPECIALTIES.**

**W. S. ALLEN,**  
17 West 25th St., New York.

Correspondence Solicited.

**J. B. EZECHEL,**  
Wholesale Florist,  
42 West 28th St., NEW YORK.  
Telephone 3743-15th.  
Asparagus, Valley, Carnations,  
Specialties. <sup>25</sup>/<sub>100</sub> Consignments Solicited.

**FORD BROS.**  
**WHOLESALE FLORISTS,**  
111 West 30th Street,  
NEW YORK.  
Consignments Solicited. Telephone 300 29th St.

**W.M. H. CUNTER,**  
Wholesale Florist  
VIOLETS AND CARNATIONS A SPECIALTY.  
Consignments Solicited.  
30 West 29th St., New York.  
Telephone, 200-38th Street.

**MICHAEL A. HART,**  
Wholesale & Commission Florist,  
113 W. 30th St., New York.  
Telephone Call, 1807 28th St.  
All kinds of Roses, Violets and Carnations  
a Specialty.  
**ORDERS PROMPTLY ATTENDED TO.**

**H. A. HOFFMANN,**  
Wholesale Florist  
44 W. 29th St., New York.  
Telephone Call, 1558 28th St.  
American Beauties, White Violets, Adiantums,  
Specialties. **CONSIGNMENTS SOLICITED.**

**EDWARD C. HORAN,**  
Wholesale & Florist,  
No. 34 W. 29th St., New York.  
The Bride, Mermot and American  
Beauty, Specialties.

**J. M. KING,**  
Wholesale Commission Florist,  
49 W 29th St. NEW YORK CITY.  
Wishes to inform growers and others, that he has  
enlarged his place to three times its former size  
and is now able to handle a much larger quantity  
of stock than before.  
**CONSIGNMENTS SOLICITED.**  
Telephone 1675-2S.

**JULIUS LANG,**  
Wholesale Florist  
53 WEST 30th ST.  
Consignments Solicited. NEW YORK.  
When Writing Mention Florists' Exchange

BUY DIRECT FROM THE GROWER



**ERNST C. ASMUS**  
Wholesale Florist.

**ROSE SPECIALTIES:**  
Am. Beauty  
Bride  
Bridesmaid  
Testout  
K. A. Victoria  
Pres. Carnot  
Morgan  
Crest  
Meteor

**VIOLETS, ORCHIDS, CHRYSANTHEMUMS AND CARNATIONS.**  
Grower of the only VALLEY receiving a  
World's Fair Medal.  
Special attention given to shipping orders.  
When Writing Mention Florists' Exchange

PRICE LIST MARKED ON APPLICATION



TELEPHONE CALL, 753 18TH.

N.Y. CUT FLOWER CO., 112-114 W. 23d St., N.Y.

A. L. VAUGHAN. CHAS. W. MCKELLAR. E. F. WINTERSON.

**VAUGHAN, MCKELLAR & WINTERSON,**  
**WHOLESALE COMMISSION JOBBERS**  
In Cut Flowers, Plants, Bulbs, Seeds, Xmas Holly, Bouquet Green,  
and all Florists' Supplies. Manufacturers of Wire-work.  
45, 47, 49 WASHBAY AVENUE, CHICAGO, ILL.  
When Writing Mention Florists' Exchange

Wholesale Prices of Cut Flowers

NAME AND VARIETY.	NEW YORK	BOSTON	PHILADELPHIA	CHICAGO	ST. LOUIS
A. Beauty, fancy and special	15.00 to 20.00	12.00 to 25.00	16.00 to 25.00	16.00 to 20.00	16.00 to 20.00
" " " " " "	8.00 to 10.00	6.00 to 10.00	10.00 to 15.00	8.00 to 10.00	8.00 to 10.00
No. 1	3.00 to 6.00	2.00 to 4.00	3.00 to 5.00	3.00 to 5.00	3.00 to 5.00
" " " " " "	.50 to 3.00	1.00 to 4.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00
Beech, Cash	2.00 to 3.00	1.00 to 2.00	2.00 to 3.00	2.00 to 3.00	2.00 to 3.00
Bride	.25 to 4.00	1.00 to 5.00	2.00 to 3.00	1.00 to 3.00	1.00 to 3.00
Bridesmaid	.25 to 4.00	1.00 to 5.00	2.00 to 3.00	1.00 to 3.00	1.00 to 3.00
K. A. Victoria	.50 to 4.00	2.00 to 6.00	3.00 to 4.00	2.00 to 3.00	2.00 to 3.00
In France	1.00 to 2.00	1.00 to 2.00	3.00 to 6.00	1.00 to 2.00	1.00 to 2.00
Meteor	1.00 to 2.00	1.00 to 2.00	3.00 to 6.00	1.00 to 2.00	1.00 to 2.00
Mrs. Telford	.30 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00
Melton	.60 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
Mrs. E. Morgan	1.00 to 2.00	1.00 to 2.00	3.00 to 4.00	1.00 to 2.00	1.00 to 2.00
Nippon, Hohe	1.00 to 2.00	1.00 to 2.00	3.00 to 4.00	1.00 to 2.00	1.00 to 2.00
Papa Gontier	1.00 to 2.00	1.00 to 2.00	3.00 to 4.00	1.00 to 2.00	1.00 to 2.00
Persia	.10 to 1.0	1.00 to 4.00	2.00 to 4.00	1.00 to 3.00	1.00 to 3.00
Sony de Wood	1.00 to 2.00	1.00 to 2.00	3.00 to 4.00	1.00 to 2.00	1.00 to 2.00
Ulrich Brunner	1.00 to 2.00	1.00 to 2.00	3.00 to 4.00	1.00 to 2.00	1.00 to 2.00
White	1.00 to 2.00	1.00 to 2.00	3.00 to 4.00	1.00 to 2.00	1.00 to 2.00
ADLANTIC	.50 to .75	.50 to 1.00	.75 to 1.00	.50 to .80	1.00 to 1.25
APARACH	1.00 to 2.00	1.00 to 2.00	3.00 to 4.00	1.00 to 2.00	1.00 to 2.00
ARCTIC	1.00 to 2.00	1.00 to 2.00	3.00 to 4.00	1.00 to 2.00	1.00 to 2.00
CHRYSAANTHEMUMS	1.50 to 12.00	3.00 to 8.00	4.00 to 8.00	3.00 to 6.00	3.00 to 6.00
" " " " " "	1.00 to 25.00	1.00 to 25.00	1.00 to 25.00	1.00 to 25.00	1.00 to 25.00
ALL OTHERS, Interior usage	1.00 to 2.00	1.00 to 2.00	2.00 to 3.00	1.00 to 2.00	1.00 to 2.00
STANDARD White	35 to 45	75 to 1.00	5.00 to 1.00	50 to 75	50 to 75
VARIETY Pink	35 to 45	75 to 1.00	5.00 to 1.00	50 to 75	50 to 75
Red & Yellow	35 to 45	75 to 1.00	5.00 to 1.00	50 to 75	50 to 75
FANCY White	75 to 1.00	1.50 to 1.60	1.50 to 1.50	1.00 to 1.25	1.00 to 1.25
White	35 to 45	75 to 1.00	5.00 to 1.00	50 to 75	50 to 75
Tradehead Red	75 to 1.00	1.25 to 1.50	1.00 to 1.50	1.00 to 1.25	1.00 to 1.25
(25 varieties)	75 to 1.00	1.25 to 1.50	1.00 to 1.50	1.00 to 1.25	1.00 to 1.25
NOVELTIES	75 to 1.00	1.25 to 1.50	1.00 to 1.50	1.00 to 1.25	1.00 to 1.25
CATEYPA	20.00 to 40.00	10.00 to 20.00	40.00 to 50.00	10.00 to 20.00	10.00 to 20.00
VALLEY	1.00 to 2.00	1.00 to 2.00	3.00 to 4.00	1.00 to 2.00	1.00 to 2.00
GLADSTONE	1.00 to 2.00	1.00 to 2.00	3.00 to 4.00	1.00 to 2.00	1.00 to 2.00
LYONS-ANDRE	1.00 to 2.00	1.00 to 2.00	3.00 to 4.00	1.00 to 2.00	1.00 to 2.00
LONGFLOREN	10.00 to 12.00	10.00 to 12.00	10.00 to 12.00	10.00 to 12.00	10.00 to 12.00
LEYS OF THE VALLEY	1.00 to 2.00	1.00 to 2.00	3.00 to 4.00	1.00 to 2.00	1.00 to 2.00
MICROMETES	1.00 to 2.00	1.00 to 2.00	3.00 to 4.00	1.00 to 2.00	1.00 to 2.00
EMERALD	5.00 to 10.00	8.00 to 12.00	10.00 to 18.00	10.00 to 12.00	10.00 to 12.00
EMERALD	5.00 to 10.00	8.00 to 12.00	10.00 to 18.00	10.00 to 12.00	10.00 to 12.00
VIOLETS	.50 to 1.00	.25 to .50	.25 to .75	.50 to 1.25	.50 to 1.00

For Prices at Fancy and Special Stock see our Correspondence Columns.  
Prices are for quantities of one hundred unless otherwise noted.  
Prices quoted above are given only after every careful inquiry, and while we do not  
warrant their accuracy, they will be found practically correct up to the date mentioned.

**REINBERG BROS.,** Wholesale Growers of Cut Flowers. .  
. . . 500,000 Feet of Glass. . .

We can fill all orders on short notice with all leading varieties of **ROSES and CARNATIONS.** We are headquarters for fine **AMERICAN BEAUTIES.** Give us a trial and convince yourself.  
**SALESROOM 51 Washab Avenue, Chicago, Ill.**  
When Writing Mention Florists' Exchange

**SAMUEL S. PENNOCK,** WHOLESALE FLORIST.

A fine stock of **Roses, Valley, Carnations, Smilax, Etc.,** coming in, of which we can fill orders on the shortest notice.

**EXTRA FINE STOCK OF BEAUTIES.**  
A choice assortment of **CYPRIDIUMS,** \$2.50 per dozen.  
1612-1614 Barker St. Bet. Chestnut & Market Sts. Philadelphia, Pa.  
Local and Long Distance 'Phone E210. Open until 8 P. M.  
When Writing Mention Florists' Exchange

**CITY HALL CUT FLOWER MARKET**

15 Province St. and 9 Chapman Place,  
**WELCH BROS.** (Long Distance Telephone 2071), Boston, Mass.  
New England headquarters for Choice **Chrysanthemums, American Beauties,** and other varieties of **Roses, Carnations, Violets, etc.** Orders can be filled promptly from the produce of sixty growers, if not will telegraph, **Hardy Ferns, Southern Smilax, Galax Leas,** always on hand.  
When Writing Mention Florists' Exchange

**MacDonald & McManus,**  
**Wholesale Florists**  
AND DEALERS IN  
**CUT FLOWERS,**  
50 W. 30th St., NEW YORK.  
3-1/2 cent shipment of Cut Flowers on Com-  
mission. Best market prices guaranteed.  
Telephone, 2778-28th Street.

**FRANK MILLANG,**  
Wholesale Commission Dealer  
...in Cut Flowers...  
408 East 34th St., New York City.  
Cut Flower Exchange. Telephone Call, 165-35th.

**THE NEW YORK CUT FLOWER CO.**  
119-121 West 23d Street,  
112-114 West 24th Street,  
Telephone 37-15th.  
**CONSIGNMENTS SOLICITED.**  
Special Attention Given to Shipping Orders.

**F. A. ROLKER,**  
WHOLESALE DEALER IN  
**CUT FLOWERS**  
53 West 28th Street,  
Telephone 2379 30th St. NEW YORK.

**W. F. SHERIDAN**  
Wholesale Commission Dealer in  
**CUT FLOWERS**  
39 West 25th St., New York.  
Telephone 75-28th St.  
PRICE LIST SENT ON APPLICATION.

**FRANK H. TRANDY,** GRADUATE SCIENTIST.  
**TRENDLY & SCHENCK,**  
Wholesale Florists,  
38 W. 28th St. and CUT FLOWER EXCHANGE,  
NEW YORK.  
Telephone 961-18th St.  
<sup>25</sup>/<sub>100</sub> Consignments Solicited

**JOHN YOUNG,**  
Wholesale Florist,  
51 WEST 25th ST.,  
NEW YORK.

**KENNICOTT BROS. COMPANY,**  
Wholesale - Cut - Flowers,  
88 Washab Avenue,  
CHICAGO, ILL.  
WIRE WORK A SPECIALTY.

**ROGERS PARK FLORAL CO.,**  
Wholesale Growers of Cut Flowers  
OFFICE and SALESROOM,  
41 WASHAB AVENUE, CHICAGO.  
Headquarters for AMERICAN BEAUTIES.

**ILLINOIS CUT FLOWER CO.,**  
J. B. DEAMUD, MANAGER.  
Wholesale Commission Florists,  
51 Washab Ave., - CHICAGO.  
When Writing Mention Florists' Exchange

**Wholesale Florists**  
AS SUPPLIERS OF HARD:  
 CARNATIONS,  
 CHRYSANTHEMUMS,  
 ROSES.

*N. F. McCarthy*

**FLORIST'S SUPPLIES.**

**FLORISTS' VASES.**

Horicultural Architects,  
**84 HAWLEY STREET - BOSTON.**

**GEO. A. SUTHERLAND,**  
 Successor to W. J. STEWART.

**CUT FLOWERS and FLORISTS' SUPPLIES**  
**WHOLESALE.**

67 Bromfield St., Boston, Mass.

**WM. J. BAKER,**  
**Wholesale Florist**

1432 So. Penn Square,  
 Philadelphia, Pa.

**DUMONT & CO.,**  
**WHOLESALE FLORISTS**  
 CARNATIONS A SPECIALTY.

No. 1905 Filbert St., Philadelphia.  
 'PHONE, 3022 D.

**Elgin, Ill.**

Elgin is pretty well supplied with florists for a town of its size, growing enough flowers for its requirements. Generally, as one might expect, is the rule rather than specialties.

B. O'Neil, on North street, is the oldest florist here. Like many of the older ones of the craft, his houses are of the old pattern, that the times prevent remodeling, but the most is made of a considerable space of glass. He has a large house of tea roses just coming nicely in flower; a breadth of carnations, a house of violets, with palms, bedding plants, smilax, chrysanthemums; in fact, a mixed stock generally.

George Souster, on State street, has the largest place (some 12,000 or 15,000 feet of glass) modern in appointment. Acre house of 2,000 plants is very good, the varieties embracing the usual Western-grown kinds, including Beauty, about 4,500 carnations are housed, all in good shape with a big plantation of Mrs. Fisher outside, all flowering. Cuttings of this variety are already rooting to spring for summer flowers only. Chrysanthemums, including a very fine batch of Philadelphia, look as though they will bring good flowers. Miss Agnes L. Dalskov (Pink Ivory) makes others we know around Chicago, has not reverted to the white type, although as yet it is too light in color to be entirely satisfactory. A large house of violets appears to have suffered from the intense heat, the house being rather deficient in ventilating facilities. A good block of palms and decorative plants and other necessities of a well-appointed stock all show careful culture.

George P. Hagan rents H. Schlaack's place, the latter, poor fellow, being an inmate of the neighboring insane asylum. A bunch of excellent Kaiserin roses was observed here. Another rose house is looking fairly well, considering that no heat has yet been applied, owing to a change in the apparatus. The carnations are doing very nicely. Hagan utilizes part of the house for growing lettuce and parsley. E.S.

**S. FROWERT,**  
**Wholesale Florist,**  
 17 North 13th Street,  
 PHILADELPHIA, PA.  
 Commissions Solicited. Special Attention Given to Shipping Orders.

**EDWARD REID,**  
**Wholesale Florist**  
 1526 RANSTED STREET,  
 Bet. Market & Chestnut Sts., PHILADELPHIA.  
**ALL CUT FLOWERS** in Season.  
 'Phone 2369 A.

**WM. C. SMITH,**  
**Wholesale Florist,**  
 40 S. 16TH ST.,  
 PHILADELPHIA, PA.  
 Roses, Carnations, etc. Commissions Solicited.

**Buffalo Cut Flower Exchange**  
**WHOLESALE COMMISSION.**  
 COMMISSIONS SOLICITED.

481 Washington St., BUFFALO, N. Y.  
 Telephone, Seeca, 1860.

... FINEST ...

**GALAX LEAVES and**  
**LEUCOTHOE SPRAYS.**

Green Galax Leaves are now ready to ship. ALWAYS WRITE THE INTRODUCERS.

**HARLAN P. KELSEY,**  
 1123 Tremont Building, BOSTON, MASS.  
 When Writing Mention Florists' Exchange

**ASPARAGUS ROOTS**  
 FOR FORCING.

Have large stock of Asparagus Roots, 3 and 4 years strong; considered large enough for forcing in greenhouses. Conserva's, Barry's and Palmite. Orders will be looked out for.

**MYAS HOLLY,**  
 December shipment. Prices of the above on application. Special quality guaranteed.

**ALEXANDER PULLEN, Milford, Del.**  
 When Writing Mention Florists' Exchange

**ASPARAGUS PLUMOSUS NANUS,**  
**W. H. ELLIOTT,** - Brighton, Mass.  
 When Writing Mention Florists' Exchange

**HARDY FERNS**  
**WARRANTED FIRST QUALITY.**  
 SPECIAL ATTENTION PAID TO SUPPLYING WHOLESALE DEALERS.

Write for Prices.

**BOUQUET GREEN, SPHAGNUM MOSS, CHRISTMAS TREES,**  
 Etc., Etc., Etc.

**L. B. BRAGUE, - HINSDEALE, MASS.**  
 OLDEST, LARGEST, and MOST RELIABLE DEALER IN THE UNITED STATES  
 When Writing Mention Florists' Exchange

**MAX RUDOLPH,**  
**Wholesale Florist**  
 All Seasonable **CUT FLOWERS.**  
**FINE ROSES.**  
 Shipping orders a specialty. Commissions solicited.

11 W. 12th St., CINCINNATI, O.

**H. L. SUNDERBRUCH CO.,**  
**Wholesale Commission Florists,**  
 4th and Walnut Streets,  
 CINCINNATI, OHIO.  
 Commissions Solicited. Special Attention Given to Shipping Orders.

**C. A. KUEHN,**  
**WHOLESALE FLORIST,**  
 1122 Pine St., St. Louis, Mo.  
 A COMPLETE LINE OF WIRE DESIGNS.

**C. W. WORS,**  
**Wholesale Florist,**  
 913 N. LEITCHWELL AVENUE,  
**ST. LOUIS, MO.**  
**FINE ROSES**-Shipped carefully to all parts of the country.

**HOLLY AND BOUQUET GREEN.**  
 Don't delay. Give us your order now as these special prices will last only a short time.  
 Holly, 25 c. case. Choice Holly, 50 c. case.  
 Bouquet Green, \$1.75 case. Sphagnum Moss, 25c. box. Green Clump Moss, 25c. box.  
 Holly Wreath, Bouquet Green, and Laurel Keping, made at lowest price. Cash with order.

**A. LUSBY & CO.,** 216 Diamond St., Phila., Pa.

**PARLOR FERNS CO.**

Parlor ferns of all kinds. Ferns, Boston, Mass. Write for prices.

**When Writing Mention Florists' Exchange**

Cut Strigs, 10 to 12 feet long  
 80 cts. each.  
 Shipped as part of the country.

**MISTLETOE**

When Writing Mention Florists' Exchange

**HEADQUARTERS** in Western New York. Try us  
**ROSES, CARNATIONS AND ALL SEASONABLE FLOWERS.**

**WM. F. KASTING,** Wholesale Commission Florist  
 495 Washington Street,  
 BUFFALO, N. Y.  
 Also Dealer in Florists' Supplies & Wire Designs

**St. Louis**  
**Cut Flower Co.**  
 WHOLESALE FLORISTS,  
 1620 Olive St.  
 ST. LOUIS, MO.

**E. G. HILL & CO.,**  
**Wholesale Florists,**  
 RICHMOND, INDIANA.

**CHOCOLATE COOLER CO.,**  
 GRAND RAPIDS, MICH.  
 Manufacturers of  
**FLORIST'S REFRIGERATORS.**  
 Send for Circular.  
 When Writing Mention Florists' Exchange

**Galax Leaves.**  
**CHAS. H. RICKSECKER, Linville, N. C.**  
 When Writing Mention Florists' Exchange

**HEADQUARTERS**  
 ...OF...  
**PAMPAS PLUMES**  
**CALIFORNIA**  
 Tree and Shrub Seeds, Smilax, Cobea, Grevillea robusta,  
**PALM SEEDS, Etc.**  
 Ask for Special Prices.

**GERMAIN FRUIT CO.,** LOS ANGELES CAL.  
 When Writing Mention Florists' Exchange

**Green Goods**

Old standard money makers for Florists

**BARNARD'S SELECT**  
**Bouquet Green**  
**Holly**

EVERGREEN WREATHING, made of choice Green (wire wound).  
 Let us figure on your combined orders. Our record for satisfactory services is unbroken.

**W. W. BARNARD & CO.,**  
 186 East Kinzie Street, CHICAGO.  
 When Writing Mention Florists' Exchange

**BOUQUET GREENS, WILD SMILAX, IMMORTELES, CAPE FLOWERS, MOSS WREATHS, METAL DESIGNS,**  
 Send for HOLIDAY PRICE LIST Just issued.

**STUMPP & WALTER CO.,**  
 Formerly with F. E. McALLISTER CO., 50 BARCLAY ST., New York.

# SAVE 50% DUTY

ON METAL FLORAL DESIGNS  
PREPARED CYCAS PALM LEAVES

ALL FLOWERS' SUPPLIES SECOND TO NONE. WRITE FOR CATALOGUE.

**A. HERRMANN.** 404, 406, 408, 410, 412 East 34th Street, NEW YORK CITY.

Manufacturer of METAL FLORAL DESIGNS, Importer and Dealer in FLORISTS' SUPPLIES.  
When Writing Mention Florists' Exchange

**REED & KELLER** FLORISTS' SUPPLIES  
122 W. 25th Street, NEW YORK CITY.  
When Writing Mention Florists' Exchange

**Standard Flower Pots.**  
Send for our New Price List with extra discounts. All our Pots, from 7 in. and upwards, have our Patent Eosinior Bottom, which is a great advantage, as it insures perfect drainage.

**A FULL LINE OF RUBB PANS.**  
**THE WELLDIN POTTERY CO.,** 713 to 719 Wharton Street, PHILADELPHIA  
BRANCH HOUSES: 1 Kearney and Westside Aves., Jersey City, N. J.; Jackson Ave. and Pennock St., Long Island City, N. Y.  
When Writing Mention Florists' Exchange

**Florists' Supplies.** Largest Stock in the Country.  
All goods up to date, and of superior quality.  
Write to for prices and other information.

**H. BAYERSDORFER & CO.,** PHILADELPHIA, PA.  
66 N. FOURTH STREET,  
When Writing Mention Florists' Exchange

**Emil Steffens** SUCCESSOR TO STEFFENS & STEFFENS  
MANUFACTURER OF  
**FLORISTS' WIRE DESIGNS**  
AND SUPPLIES.  
335 EAST 21<sup>ST</sup> STREET, NEW YORK CITY.  
When Writing Mention Florists' Exchange

# FLOWER POTS

We are Manufacturing a Full Line of  
**STANDARD FLOWER POTS and HANGING BASKETS**  
OF THE BEST QUALITY.  
Shipping Facilities First-Class, thereby Securing Lowest Freight Rates.  
Our goods are well packed, and breakage is nominal. Give us a Trial. Send for Price List.  
Address **THE SYRACUSE POTTERY CO.,** 403 N. SALINA ST., SYRACUSE, N. Y.  
When Writing Mention Florists' Exchange

**JADDOO** FIBRE--Every plant grown in it thrives without earth.  
LIQUID--The best, safest and cheapest Fertilizer sold.  
**THE AMERICAN JADDOO CO.,** U. S. Patent and Trade Mark, 811 Fairmount Avenue, PHILADELPHIA, PA.  
When Writing Mention Florists' Exchange

**ATTENTION, SECRETARIES!**  
**The One Thing** necessary to insure success for your correspondence at our  
**CHRYSAEMUM** Lithographs  
LITHOGRAPHS.....  
W. F. Gale, 378 Main St., Buffalo, N. Y.

Samples and prices mailed on application. We respectfully solicit your patronage. Orders will be promptly filled.  
**THE COURIER LITHOGRAPHING CO., Buffalo, N. Y.**  
When Writing Mention Florists' Exchange

**CLEMATIS PANICULATA**  
From 2 1/2 in. pots, \$3.00 per 100. CLEMATIS FLAMMULA, half grown, \$5.00 per 100.  
**VARIEGATED VINCAS,** from 4 in. pots, \$5.00 per 100.  
**CALIFORNIA VIOLETS,** new growth, \$4.00 per 100.  
C. EISELE, 11th & Jefferson Sts., Philadelphia, Pa.  
When Writing Mention Florists' Exchange

**PRIMROSES**  
Extra strong plants from 2 1/2 in. pots, single varieties in various colors, \$3.00 per 100. Double Primrose, white and red, \$4.00 per 100. **CYPERUS ALTERNIFOLIUS** Half grown, \$5.00 per 100. **PRIMROSES**, assorted varieties of R. A. Sampson, Victor and J. Hotal, 2 1/2 in. pots, \$1.00 per 100.  
**PELARGONIUMS,** 3 1/2 in. pots, \$1.00 per 100.  
**CYPERUS ALTERNIFOLIUS**, 3 1/2 in. pots, \$1.00 per 100.  
**Geo. H. Benedict, Yorkville, N. Y.**  
When Writing Mention Florists' Exchange

**PRIMROSES**, nice plants, from choice seed, 3 1/2 in. pots, \$3.00 per 100.  
**PELARGONIUMS,** assorted varieties of R. A. Sampson, Victor and J. Hotal, 2 1/2 in. pots, \$1.00 per 100.  
**CYPERUS ALTERNIFOLIUS**, 3 1/2 in. pots, \$1.00 per 100.  
**Geo. H. Benedict, Yorkville, N. Y.**  
When Writing Mention Florists' Exchange

Down They Go To Close Out  
**SNOW CREST DAISY.**  
Fine plants, all in bloom, out of 2 1/2 in. pots at \$2.00 per 100; \$7.50 for 500. Cash with order.  
**HENRY NEENER, - Gouverneur, N. Y.**  
When Writing Mention Florists' Exchange

**PRIMROSES and GERANIUMS**  
Extra strong plants of Chinese Primrose, finest strains to be had, 2 in., \$2.00 per 100; 2 1/2 in., \$3.00 per 100.  
Place your orders now for rooted cuttings of Primrose, the best variety, \$1.00 per 100; \$1.00 per 100, and get first-class stock.  
Rooted cuttings of Geranium argenteum cuttings, \$2.00 per 100.  
Rooted cuttings of Forget-me-not, blue, \$2.00 per 100.  
**Geo. M. Emmans, Newton, N. J.**  
When Writing Mention Florists' Exchange

**15,000 BELLS**  
(DAISY) PLANTS.  
Red, white and pink, 2 1/2 in. pots, \$1.50 per 1000. Cash with order.  
**ELDRIDGE & CO., - Wilkes Barre, Pa.**  
When Writing Mention Florists' Exchange

**MUM STOCK PLANTS**  
Merry Maranch, Marlon Henderson, Mrs. H. Robinson, 50 cts. per dozen.  
**RIDGELAND AVENUE GREENHOUSES,** 622 64th Avenue, Oak Park, Ill.  
When Writing Mention Florists' Exchange

**CHINESE PRIMROSE PLANTS.** Per 100  
Strong and well grown. Best call, \$2.50  
**PANSY PLANTS,** \$3.50 per 1000..... 60  
**BEGONIA VERONICA,** 5 in. pots..... 3.00  
Cash with order.  
**JOS. H. CUNNINGHAM, Delaware, Ohio**  
When Writing Mention Florists' Exchange

**MASTICA**  
For Glazing Greenhouses. A substitution for putty. Superior in every way. **MASTICA and MASTICA GLAZING MACHINES** work gives Highest Award of A. S. P. at Pittsburg. Address for circulars,  
**F. O. PIERCE CO., (70 Fulton St., N. Y.)**  
Sole Manufacturer.  
When Writing Mention Florists' Exchange

**NO ADULTERATION. BONE FLOUR NO ACID.**  
Refer to Fred. Turner & Sons Co., La Fayette, Ind. John H. Taylor, Bayville, L. I., N. Y. A. W. Livingston & Sons, Columbus, O. L. S. & Co., St. Paul, Minn.  
**Geo. S. Bartlett,** 1325-1327 W. 6th Street, CINCINNATI  
SUCCESSOR TO CINCINNATI DESICCATING CO.  
When Writing Mention Florists' Exchange

**JOHN CONLEY & SON,** MANUFACTURERS OF  
**TIN FOIL**  
2 and 4 Dominick Street, NEW YORK.

**NEW LIST**  
Just printed and mailed free to applicants in the trade. Contains full line of horticultural  
**SUNDRIES**  
**AUGUST ROLKER & SONS,** 62 DEV ST., NEW YORK.  
When Writing Mention Florists' Exchange

**M. RICE & CO.,** Importers and Manufacturers of  
**FLORISTS' SUPPLIES.**  
25 N. 4th St., Philadelphia, Pa.  
**NEW FALL CATALOGUE NOW READY**

**"JADDO"**  
FIBRE and LIQUID are used and endorsed by the leading growers.  
Try them and be convinced.

**GOLD FISH.** Fine Healthy Stock.  
Medium to large size, \$10.00 per 100. Cash with order. No charge for shipping case.  
Gold Fish can be shipped by Express thousands of miles with safety and at a profitable and attractive stock to handle.  
Full line of Aquarium Supplies.  
**KEANAN'S SEED STORE,** 612 and 614 Wentworth Ave., CHICAGO.  
When Writing Mention Florists' Exchange

**HAVE YOU EVER TRIED THE MEYER GREEN SILKALINE?**



Price \$1.35 per lb. For sale everywhere. Fancy colors for type purposes. **W. MEYER & CO.,** 87 Summer Street, BOSTON, MASS., U. S. A.  
When Writing Mention Florists' Exchange

**Boston Florist Letter Co.**



This wooden box is nicely stained and varnished, 18x20x12 made in two sections, one for each size letter, green with first order of 500 letters.  
Script Letters, 1 1/2 or 2 inch size per 100, \$2.00  
Flat Letters, \$4.00  
Cuttings with each letter or word.  
Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.  
**N. F. MCCARTHY, Treas. & Manager.** 50 STATE ST., BOSTON, MASS. 02107  
When Writing Mention Florists' Exchange

**INDIAN** **BRAND**  
When Writing Mention Florists' Exchange





# GET UP ON BARGAIN LIS OF BULBS

TO THESE PRICES.

Narcissus, Paper White Grandiflora.....	\$1.25	100	60
" Chione Seced., to baskets.....	5.50	50	60
" Alba Florea Odorata.....	5.50	50	60
" Golden Spur.....	5.75	50	60
Calla Lilies, extra large per doz. \$1.10	10		
" medium.....	8.50	50	60
" small.....	7.50	50	60
Freesia Refracta Alba.....	75	50	60
Hyacinths, E. Roman White, 11-12 cts.....	1.75	150	30
" 1st size, named or selection.....	1.25	150	30
" Dutch, Roman, White, Rose, Blue.....	1.50	150	30
Tulips, 3rd size, named or selection.....	4.50	110	20
" Chrysolora.....	1.25	110	20
" Critique King.....	85	110	20
" Due van Tol, scarlet.....	75	4.75	75
" Joviet van Vondel.....	1.00	4.75	75
" J. Linnacker.....	75	4.75	75
" Queen Victoria.....	1.00	4.75	75
" Jose Grapelin.....	1.75	150	30
" Yellow Prince.....	1.85	150	30

HYACINTHS, Finest First Sized Named Varieties.....	\$3.00	per 100	\$1.00	per 100
NARCISSUS, Finest First Sized Named Varieties.....	5.00	per 100	1.50	per 100
" Double.....	6.00	per 100	1.50	per 100
" Double Incomparable.....	6.00	per 100	1.50	per 100
" Double in White.....	6.00	per 100	1.50	per 100
" Trumpet Major.....	12.00	per 100	1.00	per 100
" Double in White.....	12.00	per 100	1.00	per 100
" Orange Phoenix.....	17.75	per 100	1.00	per 100
" Double.....	4.25	per 100	1.00	per 100
" Double in White.....	4.25	per 100	1.00	per 100
" Campernelle.....	4.75	per 100	1.00	per 100
" Campanella.....	6.00	per 100	1.00	per 100
" White, 3rd class reference.....	6.00	per 100	1.00	per 100
" Little Gem.....	5.00	per 100	1.00	per 100
" Little Gem.....	5.00	per 100	1.00	per 100
Chinese and Narcissus in original baskets.....	5.00	per 100	5.00	per 100

WILLIAM ELLIOTT & SONS, 54 and 56 Dey St., New York.

**SEEDS**  
KENTUCKY BLUE GRASS (POA PRATENSIS).  
CHAS. E. PRUNTY,  
MAIN AND MARKET, SAINT LOUIS.  
When Writing Mention Florists' Exchange

LILIUM HARRISII, 5x7, \$20.00, per 1000.  
LILIUM LONGIFLORUM, Japan group, 7x9, \$40.00, per 1000.  
Roses, hybrid, low-budded, in only the best market varieties.  
Spiraea Japonica and Compacta Multiflora, just arrived.  
Lily of the Valley will be in this week.  
WRITE FOR LOWEST PRICES IF YOU WANT FINE STOCK.  
F. W. O. SCHMITZ, - - - JERSEY CITY, N. J.  
When Writing Mention Florists' Exchange

Large Consignment of **JAPAN BULBS** LONGIFLORUM, AURATUM, SPECIOSUM RUBRUM and ALBUM.  
Orders sent before **NOVEMBER 10th**, will receive discount of 5 per cent. from Catalogue prices. Send for Price List.  
Also "CALIFORNIA GROWN SEEDS" SWEET PEA, and all other FAVORITE FLOWER SEEDS.  
Address **H. H. BERGER & CO., St. Paul's Building, 220 Broadway, New York.**  
When Writing Mention Florists' Exchange

**VALEYS!**  
True Berlin and Hamburg Pils. All quality, and very early assorted, at import prices, in case lots only for **J. L. SCHILLER, 404 E. 34th St., New York.**  
Sole Agent for F. C. Pommeroy, Hamburg.  
When Writing Mention Florists' Exchange

**COSMOS**  
GIANT FLOWERED, EARLY BLOOMING.  
Six splendid varieties, average, \$1.00 per flowered.  
New California No. 2, etc. per dozen.  
California, Sanabanda, \$1.00 per outside.  
Apple Geranium, fresh, 100 per 100 seeds.  
Mama, average, \$1.00 per 100 seeds.  
Sensitiva Bicolor, after October 1st, 40 cts. per doz. \$1.00 per 100 seeds.  
Calla Lily Bellas, prices on application.  
Send for Trade List, Nonette, Seneca, Pinks, Blues and Cacti.  
**MRS. THEODOSIA B. SHEPHERD**  
Ventnor City, N. J., Cal.  
When Writing Mention Florists' Exchange

**BARGAINS IN BULBS**  
We have a few choice Japan group Lillium Longiflorum left. Write for prices.  
**VAUGHN'S SEED STORE**  
84 & 86 Randolph St., Chicago.  
14 Barclay Street, New York.  
When Writing Mention Florists' Exchange

Hyacinths, 10-13 cm.....	Per 1000	\$12.00
" 12-16.....		17.50
" Single Dutch budding, separate colors.....		20.00
" forcing.....		22.00
" Named forcing, in sorts, 2d size.....		20.00
" 1st.....		45.00
" Single Tulips, Jacht van Delft.....		4.50
" La Reina.....		4.50
" Cardinal's Hat.....		4.00
" Duchesse de Parma.....		4.00
" Lillium Longiflorum, Japan.....		10.00
" Narcissus Trumpet Von Sion.....		35.00
" Trumpet Princess.....		7.00
" Double Von Sion, 2d size.....		30.00
" Single Tulips, finest mixed.....		3.50
" Double Tulips.....		4.50

CASH IN ORDER.  
**HULSBROEK BROS., Englewood, N. J.**  
When Writing Mention Florists' Exchange

Importers and Growers, **American Bulb Company, SHORT HILLS, N. J.**  
When Writing Mention Florists' Exchange

**SEED TRADE REPORT.**  
Points and information from seedmen, and all interested in this column, solicited. Address Editor Seed Trade, care of Florists' Exchange, P. O. Box 1030, New York.  
AMERICAN SEED TRADE ASSOCIATION.  
JACOB B. BUCK, Secretary, 111 N. 3rd Street, Philadelphia, Pa.; President; E. B. CLARK, Millford, Conn.; 1st Vice-President; S. F. WILLARD, Westchester, Conn.; Secretary and Treasurer.  
Express Rates on Seeds.—Secretary Willard of the Seed Trade Association informs us that under a new order of the Traffic Committee governing express rates, seeds in cloth bags or boxes may now be sent at the 20 per cent. reduction from merchandise rates.  
**European Notes.**  
The fact of the bulb season is a cause of considerable worry and anxiety to those of us who are connected with it in this troublesome and generally unprofitable trade, and our experience this season is no exception to the rule. As predicted in this column in July, the supply of first-class varieties at all prices equal to the demand, and supplementary varieties cannot be filled even at the advanced prices.  
**CYCLAMEN GIANTUM SEED.**  
A choice mixture of the finest giant flowering varieties. Flat, 25 seeds, 1/2 oz.; 1/3 pkts., 81 cts.; 3 pkts., \$1.00.  
**JOHN F. RUPP.** - Shiremanstown, Pa.  
When Writing Mention Florists' Exchange

**HEADQUARTERS FOR BULB CALLAS, all sizes. CYCLAMEN, extra large bulbs \$3.00 per 100. OXALIS, choice mixed, 40 cts. per 100. FRIELIA LONGIFLORUM, 5-7, per 100, \$1.75; 7-9, per 100, \$3.75; 9-10, per 100, \$5.75.**  
**H. B. FAUPEL & CO., 41 & 63 N. Front St. Philadelphia, Pa.**

**CHINESE SACRED LILIES.**  
One of the best selling bulbs for the retail trade. Strictly Choice Stock, \$10 \$4.75; 1000 \$48.00. Write for prices on quantities.  
We have a few choice Japan group Lillium Longiflorum left. Write for prices.  
**VAUGHN'S SEED STORE**  
84 & 86 Randolph St., Chicago.  
14 Barclay Street, New York.  
When Writing Mention Florists' Exchange

**MONEY IN BULBS**  
Chinese Narcissus, true, per 120 bulbs, \$4.80; per 50, per case \$9.00.  
Lillium Longiflorum, 5-7, per case 50, \$9.00; per 50, per case 20, \$5.00.  
White Roman Hyacinth, 12-15, per 1000, \$1.00; 11-12, per 1000, \$1.00.  
Paper White Narcissus, per 100, \$5.00.  
Dutchcup Oxalis, per 100, \$5.00.  
Freesia Refracta Alba, per 100, \$20.00.  
Lily of the Valley, from cold storage, per 100, \$10.00.  
Carolina Bluebell, per 100, \$20.00.  
Tulips, Keizersroos, Yellow Prince, La Reina, etc., per 100, \$5.00.  
Single, to mixture.  
Also Named Hyacinths, Tellow Crown, Narcissus Trumpet Major, etc., at closing low prices.  
**C. H. JOOSTEN, IMPORTER, 102 WEST 12th ST., NEW YORK.**  
When Writing Mention Florists' Exchange

**GREENS SEEDS**  
WHOLESALE PRICELIST  
FOR ALL THE SEEDS  
MARKET GARDENERS  
We have a few choice Japan group Lillium Longiflorum left. Write for prices.  
**VAUGHN'S SEED STORE**  
84 & 86 Randolph St., Chicago.  
14 Barclay Street, New York.  
When Writing Mention Florists' Exchange

**SEED.** FRESH ON HAND  
ALL SEASONABLE VARIETIES.  
Prices for seed sent upon application.  
**J. L. SCHILLER, 404 E. 34th St., NEW YORK**  
When Writing Mention Florists' Exchange

vanced prices dealers are willing to pay. The largely increased demand for second-size bulbs has cleared them out with extraordinary rapidity, and only a few plants and dark blue bulbs remain in the hands of the growers.  
Those who are accustomed to look at Holland and its products through the conventional spectacles framed by visitors who have spent, albeit an hour, in the Netherlands are not so much surprised to see the omnipresent bicycle brought into service, and coming from one farm to another to complete orders hastily called from your side. All the respectable firms that have clients in America report a largely increased trade this season. This is doubtless the welcome result of the "popularity" of which we have lately read so much in your journals. Some of our Dutch growers are ambitious enough to hope that, ere long, the aforesaid wave may be the means of liquidating some overdue accounts; and who shall say they are wrong?  
The work of planting for next season is nearly completed, and while some few planters have been forced out of the ranks, the acreage actually planted is not much less than in the previous year. Growers are of opinion that while first-size varieties will not be much higher in price than last year, second-size varieties and mixtures, must be advanced on account of the great clearance now effected.  
Tulips are still plentiful and prices are all in favor of buyers. While the acreage planted in 1895 is not so large as last year, prices are likely to remain reasonable unless an unlooked for demand sets in.  
**Vegetable Seeds.**  
As regards seeds, the cauliflower winter in northern Europe is very disappointing, and as the last year's supply of early varieties was completely cleared out, growers are holding out for better prices.  
Some of the later threshings of early winter wheat in the north land are yielding much better than estimated.  
Rutabaga is doing the same thing, but it is not so early as in the north land. Some early varieties of the latter, are most disappointing.  
It is noted that at one time looked so promising in western France, are in a deplorable condition; very much of the seed is still in the water. In the south the crop is barely half of the quantity arranged for. This crop has also suffered very much in Germany, while the acreage planted was much larger than usual on account of the failure last year. Some new fields in the more northern districts have escaped, but the general results are poor both in quality and quantity.  
**Flower Seeds.**  
In flower seeds a sharp touch of frost has cut off zinnias, balsams, gastero-cyanus and asters, and practically put an end to the harvest of '97. Fortunately late flowering zinnias are still in the field, and will be seedling material. It is able to cure them properly, the shortage will be sensibly reduced. In the whole, the crop of tall varieties is satisfactory, the dwarf kinds are decidedly short.  
Veters are all in now, and generally speaking, they have been brought in dry and in good condition for the sowing processes. The early varieties have suffered most; the later varieties have yielded well. The crop of zinnias are an average crop. White sweet peas are decidedly short, and the German crop is the worst on record. **EUROPEAN SEEDS.**

Nov. 13, 1897.

# CHRYSANTHEMUMS

The Best Twenty-five Chrysanthemums.

Paper read by Robert G. Carey, November 2, before Philadelphia Florists' Club.

Having been requested to name the best twenty-five chrysanthemums, and why they are the best, I feel certain I could do much better if you had omitted the little word "best," but I will name twenty-five that, I think, will not all be discarded by the most critical of our chrysanthemum growers.

I have about seventy varieties at present. The ones I name are all well-tested and good growers. I have avoided as much as possible all weak-kneed kinds and very tall growers. I have included with the best new varieties, I thought it better to confine myself to the good old tested ones, such as the following:

**Mrs. Jerome Jones.**—A beautiful broad-petalled incurved white, stem and foliage extra good; an ideal flower for commercial or exhibition purposes; height 3½ feet.

**Maud Dean.**—An extra large incurved pink of great substance, stem and foliage very good; one of the finest for exhibition; height 4 feet.

**Mayflower.**—A grand incurved white, low leafy and good growers. A grand foliage good; a grand bloom for exhibition; height 4 feet.

**White Beauty.**—A soft, clear, high-built incurved yellow; form, habit, stem, and foliage good; an ideal flower in every respect; height 3½ feet.

**Vivand-Moel.**—Extra large, reflexed pink, one of the grandest blooms for exhibition; height 5 feet.

**Miss Georgia Pither.**—Fine incurved yellow; stem and foliage very good; a very varied set of purposes; height 3½ feet.

**Silver (Lond).**—A large delicate salmon, slightly reflexed; stem and foliage extra good; height 5 feet.

**Wm H. Lincoln.**—A grand golden-yellow, stem and foliage straight petals; habit, stem, and foliage extra good. A grand variety for all purposes; height 4 feet.

**Autumn Glow.**—A large incurved light bronze; stem and foliage very good; one of the best for all purposes; height 5 feet.

**Mrs. H. Robinson.**—A large broad-petalled incurved white of great depth; foliage good; but I am afraid the flower is too small for exhibition; a grand variety to every other way; height 4 feet.

**The Queen.**—A grand double white of great substance; stem and foliage good; one of the best for commercial or exhibition purposes; height 6 feet.

**Caroline.**—A large incurved bronze and yellow; stem and foliage very good; fine for exhibition; height 4 feet.

**Mutual Friend.**—Extra large, reflexed, pure white; stem and foliage good; a very well tested variety; one of the best for all purposes; height 5 feet.

**Ambera.**—A fine incurved golden-yellow; stem and foliage very good; one of the best for all purposes; height 4 feet.

**W. B. Blumrose.**—Large golden-yellow, stem and foliage good; fine for all purposes; height 5 feet.

**H. W. Ribman.**—Large exhibition yellow of high rounded form; stem and foliage extra good; an ideal grower; height 3½ feet.

**Fairy.**—I think the purest and best white for all purposes; height 3 feet.

**Mademoiselle.**—Incurved yellow, with very high, full center; foliage extra large; one of the best for exhibition. A very well tested variety; height 4 feet.

**Both.** or **Marguerite.**—Graham—A pure white, incurved, fine stem and foliage. While not as large as many of the others, its general get-up and good-keeping qualities still make it a favorite. Height 4 feet.

**Chas. Davis.**—Golden-bronze, reflexed; stem and foliage very good; stem and foliage good; height 4½ feet.

**Defender.**—Fine dark crimson; slightly reflexed; stem and foliage good; height 4 feet.

**Golden Wedding.**—A rich golden-yellow;

low; broad, long petals and high-built center; one of the grandest yellows when well done; height 6 feet.

**Liberty.**—A large golden-yellow of beautiful form; at first a reflex; when fully developed, a perfect globular incurved; habit, stem, and foliage good; one of the best late yellows for commercial purposes; height 5 feet.

**Miss Agnes L. Dabkow.** or **Pink Ivory.**—A sport from Ivory, with foliage and habit like Liberty, but a beautiful soft pink; a color good for all purposes; height 3 feet.

**Eugene Halleux.**—Color, deep gold; of extra size and form; one of the finest yellows for exhibition. If this flower had been a sport from Liberty, then I would say it was far excellence in yellows. Height 6 to 7 feet.

As we often find good dwarf varieties in their being crossed between Fall varieties, I think it would be a great help to us if all the catalogue firms would state the height of each variety. I think this would save many a good variety from being discarded.

I thought it would not be out of order to give a few hints on the culture for bloom. I would advise a raised bed, six inches deep. If it is only a foot from the ground, it will be all the better. Free circulation of air underneath, which is a great advantage when using stimulants.

It is equally of great importance of sowing our soil or giving your plants cold feet. See that your drainage is perfect. Use a mixture of sand and rather stiff soil with a little bone and cow manure added; prepared in the Fall and covered with a layer of straw and early in June. Water sparingly till plants are well established. Give plenty of air whenever your plants are in bloom and evening during July and August, when winter permits. Stop the use of stimulants when your plants are in bloom and show color. I use no shading up till this time, but would advise a slight shading from now on. If the blooms are very near the class. This Fall the shade has been very beneficial.

## The Point System of Judging.

*Editor Florists' Exchange.*

Hamilton says in his paper on "Point System of Judging": "In the judging together of the variety, the point system of judging is perfect for it knows no fear, favor, sympathy, predilection, educational, or sectional bias nor personal prejudice."

This statement sounds infallible, but all the same it is really proven fallacious. Experience says that in the point system chrysanthemum was exhibited before the Boston, New York, Philadelphia, and Cincinnati committees. It received all and of uniform quality—as far as can be learned. How are we to explain this anomaly? The point system does not always count straight, and I suppose the variety was judged without "fear or prejudice."

Gentlemen, there is too much latitude from point to point; narrow it down so that it can be "judged" over.

I have been asked the reason for omitting "form" in judging chrysanthemum flowers, and I have said that to determine the correct form for a chrysanthemum flower is a minute of time, the style that you and I prefer is but a matter of taste. The form of chrysanthemum is its natural grace; but it will not bear dissection or prodding with "points."

GUYO P. RAWSON.

# CALIFORNIA PRIVET.

California Privet, extra fine plants at low rates. Prices given on application.

**HYDRANGEA OTAKSA**, strong plants for forcing, 8 ets. and 15 ets.  
**AMPELOPSIS VEITCHII**, field-grown, very heavy. Prices on application.

## THE ELIZABETH NURSERY COMPANY, - Elizabeth, N. J.

When Writing Mention Florists' Exchange

### LETTUCE PLANTS.

Five transplanted Irish Grand Rapids Lettuce Plants, 30¢ per 100; \$5.50 per 1000, cash on order.

**A. J. BALDWIN,** Newark, O.  
 When Writing Mention Florists' Exchange

### Grape Vines.

Extra fine stock of **WILDICE** varieties, including the new and unrivaled **WILDICE Lovelock** variety. Quality extra warranted. Lists, \$1.00 per 100, \$10.00 per 1000. When Writing Mention Florists' Exchange

### LETTUCE PLANTS.

By Boston, Boston Market, Tennis Ball, White Leaf, Grand Rapids and Reichling. Forcing, 15 cts. per 100; \$1.00 per 1000. If by mail add 10 cts. per 100.

Cash with order.  
**R. VINCENT JR. & SON, White Marsh, Md.**  
 When Writing Mention Florists' Exchange

### CALIFORNIA PRIVET

Good two year old plants, well branched, 24 to 30 inches, \$5.00 per 100; \$50.00 per 1000, 15 to 24 inches, \$2.00 per 100; \$15.00 per 1000. Light one year, good plants, \$10.00 per 100. Stock guaranteed as represented. If sample is wanted send 25 cents which will be credited on account if plants are ordered.

Address **CHAS. BLACK, Highstown, N. J.**  
 When Writing Mention Florists' Exchange

## HARRISON'S PEACH TREES

BERLIN, MD., have one and a half million grown from natural seed. Send for prices, when Writing Mention Florists' Exchange

### PEACH AND PLUM TREES FOR FALL PLANTING.

Reliable and clean stock at lower wholesale rates. All desirable leading varieties of **PEACHES**, old and new in fruiting orchards. Have the new **Triumph, Greenbore, and Sacred Fruiting** kinds (not in fruiting in season at low rates).

Very large stock of **PLUM TREES** all on orchard trees and in fruiting orchards. As supplied, these also, either from nurseries or plum trees, are of the best quality. Also, **Abundant, Borbark, Chabot, Salsman, Walnut** and others; also the new **Red Jade** and **Wilson** varieties.

Usual supply also of **Appraiser** roots to offer shortly. Write for prices and terms to **ALEXANDER PULLEN, Milford Nurseries, Milford, Del** when Writing Mention Florists' Exchange

# CALIFORNIA PRIVET.

**STRAWBERRY PLANTS**—Brandywine, Rio, \$2.50 per 100; Tennessee Prolific, \$1.50 per 100. Cabbage and Lettuce Plants, \$1.00 per 100. Appraiser Roots, etc. See LIST WITH ORDERS. E. C. HART & SONS, - Felton, Del. When Writing Mention Florists' Exchange

## LARGE-FLOWERING CLEMATIS

Strong, one year field-grown plants, of all the leading varieties, at \$15.00 per 100.

## GEORGE BROS., East Penfield, N. Y.

When Writing Mention Florists' Exchange

## ABOVE ALL OTHERS

**ABOVE ALL OTHERS**—In 24 and 30 inch sizes. Also 2 year and 3 year plants, 25¢ per 100, from \$10.00 to \$50.00 per 1000.

## HYDRANGEA THOS. HOGG.

Strong 2 year plants, from open ground, with 9 to 15 strong shoots, \$12.00 and \$15.00 per 100.

## DEUTZIA CRACILIS AND BERBERIS THUNBERGI.

1 year, 2 year and 3 year, \$5.00 to \$15 per 100. SEND FOR TRADE PRICE LIST.

## SAMUEL C. MOON, Morrisville, Pa.

When Writing Mention Florists' Exchange

## P. OUWERKERK, 1123 Summit Ave., Jersey City, N. J.

Just received from our Holland Nurseries:

**RHOODENDRONS, AZALEAS, SPIREA JAPONICA, LILIUUM SPECIOSUM, PAEONIES, BLEEDING HEART, POT GROWN LILACS, HYDRANGEA IN SORTS.**

**CLEMATIS and H. P. ROSES**, in the best sort. **PROCES MODERATE.**

When Writing Mention Florists' Exchange

# F. & F. NURSERIES, SPRINGFIELD, NEW JERSEY.

Our Specialties this Season: **PEACH, Plum, Japan Walnut and Shade Trees.** California PRIVET and Shiruberry. Stock good and prices right. . . . . When Writing Mention Florists' Exchange

## Large Stocks of Nursery Stock

WHICH WE WISH TO CLEAR OFF THIS FALL.

75,000 PRIVET, CALIFORNIA. . . 2 to 3 ft. 2,500 MAPLES, Silver . . . 10 to 14 ft.  
 15,000 ASH, White . . . . . 10 to 12 ft. 10,000 APPLES, good sorts . . . 6 to 8 ft.  
 20,000 MAPLES, Norway . . . 10 to 12 ft.

WE HAVE A FULL LINE OF NURSERY STOCK IN GENERAL, OF FRUIT, SHADE AND ORNAMENTAL TREES AND SHRUBBERY.

## C. BSAN & SONS, Trenton, N. J.

WRITE FOR PRICE LIST. NURSERY 10 MINUTES FROM DEPOT. When Writing Mention Florists' Exchange

## SEEDINGS AND GNS.

of Apple, Cherry, Pear and Plum.

## APPLE CRAFTS

Low Prices. Send List of Wants to **D. S. LAKE, Shenandoah, Iowa.**

## JACKSON & PERKINS CO.

NEWARK, NEW YORK. Have to offer for season of 1897-98, a choice assortment of **Field-grown Roses**, new and old varieties **Clematis**, **Ornamental Shrubs**, and **Trees**, **Fruit** and **Flower Plants**.

WRITE FOR PRICE LIST. When Writing Mention Florists' Exchange







Rothschillmann, and of similar markings, suffused with rose.

In carnations a large number of seedlings was shown, many of them of great value. The highest entries for the best American seedling, the premium was awarded to Wm. H. Carey, of James Deane, a light pink slightly fringed. A certificate of merit was awarded to First, E. E. Shaw, of Elmira, for a carnation. Mrs. Thos. Lawson; also to John Barton for his new white carnation named First, E. E. Shaw, also a carnation variety. The Craig (up for new white carnation) was awarded to Joseph Heacock, of Pennsylvania, a high pink variety. Wm. P. Craig took first for 100 blooms with a grand vase of Flora Hill, C. W. Fisher took first for carnations or carnations, staging some very fine flowers. In fruit, Edwinger & Barry staged a grand collection of pears, which was awarded a certificate of merit. The exhibits of vegetables were very large, and the collections of John McKeary, K. B. Phinney, and Robert James being very good. DAVID RUST.

THE AWARDS.

PLANTS—CHRYSANTHEMUMS. Six plants, 6 varieties, single stems.—First, Root, Gordon Smir; second, Gordon Smir; third, John McKeary. Six plants, 5 varieties.—First, James O'Brien, Philadelphia, Pa.; second, John McKeary. Specimen plant, new variety, not disseminated prior to 1897.—First, Matthew Brecken, Germantown, Pa.; second, Gordon Smir. Twenty-five plants, 25 varieties, one bloom to each plant.—First, J. E. Krayer, Wm. H. Carey; second, Wm. H. Carey, Ardmore, Pa.; third, John Mitchell, Pennsylvania Hospital; fourth, Wm. Month. Seedling plant, best variety.—Henry B. Surman. Specimen plant, white.—First, Wm. Robertson, Jenkintown, Pa.; second, C. Wilbur Brown, Bala, Pa. Specimen plant, yellow.—First, G. Wilbur Brown; second, Gordon Smir; third, John McGowan, Gammantown, Pa. Specimen plant, any other color, distinct variety.—First, Edward Jones, Philadelphia. Six plants, yellow, one variety.—First, John Mitchell; second, Wm. H. Carey; third, Hugh Graham, Wyncote, Pa.; fourth, Jos. McGregor, Lansdowne, Pa. Six plants, pink, one variety.—First, Wm. H. Carey; second, John Mitchell. Six plants, white, one variety.—First, Wm. H. Carey; second, Jos. McGregor; third, John Mitchell. Six plants, crimson, one variety.—First, Penn Rock Co.; second, Wm. H. Carey; third, John Mitchell. Specimen plant, Mrs. Joseph Sinnott—Gordon Smir. Four plants, Japanese, 4 varieties, 4 distinct varieties.—Gordon Smir. Three plants, yellow, 3 varieties.—Gordon Smir. Specimen plants, 3 new varieties, introduced to commerce during 1895—Gordon Smir. Specimen plant, Mrs. Frank Thomson.—Display of specimen plants, naturalized chrysanthemums, hard or native varieties.—First, John McKeary; second, Chas. Zimner, West Collingswood, N. J.

CUT FLOWERS—CHRYSANTHEMUMS. Fifty blooms, 50 distinct varieties, single stems.—First, Wm. H. Carey; second, Hugh Graham, Philadelphia. Thirty-five blooms, 12 distinct varieties, named, 3 of each.—Henry Weber & Son, Philadelphia. Twenty-five blooms, 25 distinct varieties, named.—Hugh Graham; second, Henry Weber & Son. Six blooms, one variety, named.—First, E. M. Wood & Co., Natik, Mass.; second, A. Herrington, Madison, N. J. Six blooms, pink, one variety named.—First, Penn Rock Co.; second, Hugh Graham. Six blooms, yellow, one variety, named.—First, E. M. Wood & Co.; second, A. Herrington. Six blooms, crimson, one variety, named.—Second, Wm. L. de Shields, Torrensdale. Six blooms, any color, one variety, named.—First, Hugh Graham; second, Penn Rock Co. Twelve sprays, poms, 12 distinct varieties, named.—First, John McKeary; second, Adolphi Nursery, Chestnut Hill, Philadelphia.

Fifty blooms, not over four of a kind, named.—Second, John Mitchell. Thirty-six blooms, 12 distinct varieties, named, of each.—First, John T. Harris; second, John McKeary. Thirty-five blooms, 25 distinct varieties, named.—First, Robt. G. Carey, Chestnut Hill; second, John T. Harris. Twelve blooms, any other color, named.—First, John T. Harris; second, Jos. McGregor. Six blooms, white, one variety, named.—First, Wm. Robertson; second, John Mitchell. Six blooms, pink, one variety.—First, Wm. Robertson; second, Jos. Monahan, Chestnut Hill, Philadelphia. Six blooms, any other color, one variety, named.—First, Geo. Middleton, Wyncote, Pa.; second, Francis Canning, Wyncote, Pa. Six blooms, crimson, one variety, named.—First, John Mitchell. Six blooms, any other color, one variety, named.—First, Wm. Robertson; second, Geo. Middleton. Twelve sprays, poms, 12 distinct varieties, named.—John McKeary. Six blooms, one variety, named.—Best American seedling, never disseminated prior to 1897.—First, Wm. H. Carey. Best American seedling, any other color, never disseminated, 6 blooms.—Jos. A. Vase of 25 blooms, one variety, pink.—First, Edward Jones, Germantown, Pa.; second, Edw. Adams Strout, Overbrook, Pa. Vase of 25 blooms, one variety, named, white.—First, Harry Montague, Chestnut Hill, Philadelphia. Vase of 25 blooms, one variety, named, yellow.—First, Harry Montague, Chestnut Hill, Philadelphia. Vase of 25 blooms, one variety, named, any other color.—First, Hugh Graham; second, Edw. Adams Strout. Vase of 50 blooms, one variety, named, white.—A. Herrington. Vase of 50 blooms, one variety, yellow.—First, A. Herrington; second, Hugh Graham. Vase of 50 blooms, one variety, any other color.—Hugh Graham. Five vases, 50 blooms, one color, one variety, named.—First, one color, distinct variety.—First, Edward Jones, Philadelphia. Six blooms, Mrs. Frank Thomson.—First, Hugh Graham; second, J. E. Krayer. Six blooms, Frank Thomson.—First, Hugh Graham; second, J. E. Krayer. Six blooms, Frank Thomson.—First, Henry G. Standaen, Haverford, Pa. Twenty-five blooms Mrs. Craig Lipnicott.—Hugh Graham. Fifteen blooms, one of each of Mrs. Col. Goodman—Edward Jones. Fifteen blooms variety of Mrs. Col. Goodman.—Harry Montague, Chestnut Hill, Philadelphia. Ten blooms Mrs. Col. Goodman—Edward Jones. Six blooms Robert Edgerton.—Robt. G. Carey.

PLANTS—Miscellaneous. Orchids.—Display of plants and cut flowers.—First, Hugh Graham; third, Adolph Wm. Month. Philadelphia. Special premium for collection of choice and rare varieties awarded to Alphonse Albert, gardener to Mrs. George B. Wilson, Philadelphia. Fruit plants (ornamental).—Display of 15 plants, not over three of any one variety.—First, Albert Wolateme. Palms, one pair.—First, Chester Davis; second, John H. Dodds, Nantuxet, Pa. Palm, specimen plant.—John H. Dodds. Ferns, 25 plants, 25 varieties.—First, Wm. H. Carey; second, Robt. G. Carey, Villa Nova, Pa.; third, Henry A. Dreer, Philadelphia. Ferns, 12 plants, 12 varieties.—Wm. Month. Twelve plants, 12 varieties.—First, Robert John H. Philadelphia; second, John A. Shellen, Philadelphia. Croton, specimen plant.—First, John A. Shellen; second, Robt. G. Carey. Dracaena, 6 plants, 6 varieties.—John Thatcher. Cereus, one Sanderiana, best pan.—Wm. K. Harris. Marantaceae, 6 plants, 6 varieties.—First, Chas. Davie; second, John Thatcher. Begonia, 6 plants, 6 varieties of the best.—First, Chas. Davie; second, Jos. H. Burgin, Ardmore, Pa. Begonia, specimen plant of the best.—First, Wm. Month; second, J. Krayer. Asparagus Sprengeri, specimen plant.—Penn Rock Co.; second, John A. Shellen.

Cyclamen, 12 plants.—First, Robert Craig; third, C. W. Cox, Philadelphia. Carnations, display of 12 plants, named.—First, Mrs. Thos. Ley, Germantown, Pa. Nepenthes, 4 plants, named.—First, Geo. Middleton; second, John Thatcher. Cuvandura fenestrata (the lattice-leafed plant), specimen plant.—Dr. J. Dreer. Calceolarias, 6 named varieties.—First, Jos. Hurley; second, Henry A. Dreer. One variety (Orabete), 6 plants.—Wm. K. Harris. GROUPTS FOR EFFECT AND OTHER DISPLAYS. Foliage and flowering plants, display arranged for effect.—First, Westcott's Laurel Nursery; second, Albert Wolateme. Evergreens, evergreen shrubs, suitable for indoor decoration, to consist of bay, acanarais, euonymus and similar hardy and half-hardy plants, arranged for effect.—First, Albert Wolateme; second, Andros Nursery, Chestnut Hill, Pa.; third, W. H. Moon Co., Morrisville, Pa. Berry-bearing plants and other plants with ornamental fruit, best group.—First, Thos. Zimmer, New Jersey; second, Harry Norton, Philadelphia. Adiantum Farleyense.—Henry A. Dreer. Ferns, 25 plants, 25 varieties, for table decoration.—First, Wm. Month, Torrensdale, Pa.; third, Penn Rock Co. Five plants with ornamental foliage plants for house decoration.—Penn Rock Co. Vase, pair suited for lawn or garden hall, filled with foliage, or flowering plants or both.—First, Westcott's Laurel Hill Nursery; second, Harry A. Dreer. AQUATICS. COLLECTION.—Henry A. Dreer. CUT BLOSSOMS.—Growers only. Twelve blooms, Perle des Jardins.—First, Henry Weber & Son, Oakland, Md.; second, Wm. L. de Shields. Twelve blooms, Niphoes.—Penn Rock Co. Twelve blooms, Kaiserin Augusta Victoria.—First, David Huffer, Germantown, Pa. Twelve blooms, The Maiden.—First, Mrs. Saml. Thos. Wilmour; second, Joseph Heacock, Wyncote. Twelve blooms, Papa Grotto.—Henry Weber & Son. Twelve blooms, Souvenir du President, Carnot.—Henry Weber & Son. Twelve blooms, Meteor.—First, Joseph Heacock; second, William L. de Shields. Twelve blooms, The Maiden.—First, Joseph Heacock; second, Myers & Santman. Twelve blooms of any other variety.—Second, William L. de Shields. Six blooms, American Beauty.—First, Joseph Heacock; second, Myers & Santman. CARNATIONS.—Growers only. One hundred blooms, one variety, any color.—First, Wm. P. Craig; second, Henry Weber & Son. Fifty blooms of any named variety.—First, Henry Weber & Son; second, C. W. W. W. Fifty blooms of any named variety.—First, Peter de Voest, Wyncote, Pa., Del.; second, C. W. W. W. Fifty blooms of any named variety.—First, Wm. P. Craig; second, Henry Weber & Son. Fifty blooms of any named variety.—First, Wm. P. Craig; second, Henry Weber & Son. Fifty blooms, any white, variegated variety.—First, Wm. P. Craig; second, Wm. Swayne, Kennett square. Fifty blooms, any yellow variegated variety.—First, Wm. P. Craig; second, Wm. de Voest. Fifty blooms, any crimson variety.—First, Wm. P. Craig; second, Wm. Swayne. Fifty blooms, any color.—second, William Swy. Best Am. carnation, never disseminated prior to 1897.—Wm. de Voest certificate of merit to Peter P. de Voest, Wyncote, Pa.; second, Wm. P. Craig. Best seedling, never disseminated prior to 1897.—First, Wm. P. Craig; second, Joseph Heacock; third, John Burghauer. VIOLETS. Twelve blooms, Princess of Wales.—R. M. Hart, Holmesburg. Twelve blooms, Lady Home Campbell.—E. E. Eberhart. Fifty blooms, Marie Louise.—First, J. M. Highlands, N. Y.; second, Wm. L. de Shields.

Fifty blooms, California.—First, R. M. Eisenhart; second, Penn Rock Co. Fifty blooms, any other variety.—First, R. M. Eisenhart. FORTY-EIGHT CUT BLOSSOMS, not less than twenty-four varieties.—George Middleton. CLEVELAND. Trade Notes. Horse show week brings with it a demand for floral work. Store trade, however, has been affected to a great extent by lack of weather; heavy rains have continued to fall for several days, and this has had a telling effect upon every line of business. Another detracting feature of the present season, and one which has troubled florists most seriously, is the floral bargain counter established by one of the large downtown grocery houses at which prices are slaughtered, choice cut flowers being offered at ridiculously low figures, such as best chrysanthemums, \$1 per dozen, roses, 25c a dozen; Beauty, 50c and 10c, per bloom, 15c for each; carnations, 15c a dozen; large quantities of stock are used in this class of work. Retail prices of cut flowers remain unchanged, but business is somewhat moderate sale and is a limited demand for other kinds of stock. Chrysanthemums bring at retail 75c to \$2 per dozen. Beauty, 40c short supply and finds better sale at anything else, now retailing at \$1.50, according to quality. Perle, 75c; Bridesmaid, and Meteor continue to sell at 75c per dozen for medium quantities, \$1.50 per dozen for best. Carnations sell at 25c and 35c, per dozen, and mix \$1.50 to \$2 per 100. Chrysanth. Show. Final preparations for the annual show of the florists' Club, November 16-19, are well advanced. The committee's operations is putting the exhibition in shape for the numerous exhibitors who will be placed within a few days. The entries now in indication the show will equal those of the past season, and if the weather is able during "show week," success assured. Club Meeting. At the regular meeting of the Club held on Monday evening last, a large number were in attendance. Many matters of detail in connection with the show were disposed of. In all it was an most active meeting held in several months. T. A. Tilton and Geo. H. Carrist were elected to membership. The executive committee report was of great interest, as it contained many valuable recommendations and suggestions in regard to work in connection with the exhibition. Notes. Horse show week brought with it many pleasing effects in window decorations. Noticeable among these were the windows of Smith & Teters, and J. M. Gass, both of which were well decorated. A large number of the decorations formed a prominent part of the decoration. Harry Bayensdorfer, of Philadelphia, and W. R. Roach, representing J. B. Rice & Co., Cambridge, N. Y., were recent exhibitors. G. A. T.

ADVERTISING. They must be fresh to be good, no NICOTINE in dried up kind, nicotine kills Aphids. Good kind, 75c. per 100 lbs. Bales Weigh 5150 lbs. each. H. A. BROTHERS, 218 MARION AVE., N. Y.



## The American Carnation Society.

Advertising space is to be offered in the forthcoming issue of the Bulletin of this Society, and all money received therefor will be devoted to premiums. Cash contributions will, it is said, have to be added to this money from advertising, and it is hoped that members and others will respond liberally. It is expected that a list will be compiled at Chicago, whereby the Society will be able to give a good show without contributions in the future.

At this time money toward the general premium fund has been collected from special premiums, but those who want to offer special premiums for varieties they have introduced have not privileged.

Advertisements, contributions and special premiums must be in the hands of the secretary by the 15th inst., but money need not be sent before February. Those parties who spoke to the secretary through the address of the Secretary is Albert M. Herr, Lancaster, Pa.

## Chester County Society.

By mutual consent the Chester County Carnation Society agreed to discontinue its meetings until the time should come that more interest would be taken in them. After a consultation with a few of the members, the secretary called a meeting at Kennet Square, Pa., November 6, in Wm. Swayne's office. There was a good attendance of the old members, and after considerable discussion it was decided to discontinue the monthly meetings as heretofore until further notice; the probability being that an arrangement would be made during the Summer months. Wm. Swayne tendered his office as a permanent secretary, for which the Society extended a vote of thanks.

An informal discussion took place in relation to growing, and the difficulty of getting any redress from the express companies in case of damage or loss of goods. Boxes returned in a broken condition was an annoyance that frequently occurred. The secretary was instructed to investigate express charges and other relative matters with a view of obtaining more just rates and having the petty annoyances stopped.

Several seedlings were on exhibition by Jos. T. Phillips, Chas. Swayne, and Lewis Eschbarg, the latter having three different white seedlings of great promise.

W. R. SHELMELE, Secretary.

## Carnation Belt Notes.

Carnations in the "Belt" are looking very promising at this time. There are a number of new seedlings being nursed up by their owners, and some of them will undoubtedly make a sensation when introduced to the trade. A good deal of glass has been added to this territory the past Summer, but much of it is now being devoted to the growing of tomatoes. A few tomato houses visited, showed signs of great promise, and we learned with a great deal of satisfaction that the hot-house tomato is generally preferred to the Southern product even at a largely increased price. Of course, the increasing value of the best fruit shipped from the South, and if the consumers in the cities are really awakening to that fact, there will be no success for all the tomatoes that can be grown under glass, not at a large price, but at a good paying price.

A largely increased "acreage" is being devoted to mushrooms. A few were lucky enough to strike the market with at least a part of their crop at one dollar a pound; which is a good deal better than dollar wheat, and decidedly superior to six-cent cotton. But the price is now off to 25c. per pound.

Violets are generally in poor shape. All now grown here seem to be of the Lady Campbell variety. No one seems to be able to grow Marie Louise because of the spot. Several years ago the last-mentioned variety was grown to perfection by many in this section. Why the disease should carry it off, so universally (here) is hard to explain. W. R. S.

## PRIMROSES.

Extra strong plants from 25¢ in pots, single variety in separate colors, \$3.00 per 100. Finest mixed, \$3.50 per 100. **IMPERIAL**, white and red, \$1.00 per 100. **ALBION**, white and red, \$1.00 per 100. **CHRYSEUM**, white and red, \$1.00 per 100. **PERFECT**, white and red, \$1.00 per 100. **ROSE**, white and red, \$1.00 per 100. **REGENCY**, white and red, \$1.00 per 100. **SCOT**, white and red, \$1.00 per 100. **TRILLIUM**, white and red, \$1.00 per 100.

**PAUL MADER**, East Stroudsburg, Pa.  
When Writing Mention Florists' Exchange

**PRIMROSES**, nice plants from choice seed, 3 in pots, \$3.00 per 100.

**PETALARGONIUMS**, assorted varieties of R. A. Sanford, Victor and J. Hainl, 24 in pots, \$3.00 per 100.

**CYPERUS ALTERNIFOLIUS**, 3 in pots, \$3.00 per 100.

**GEO. H. BENEDICT**, Yorkville, N. Y.  
When Writing Mention Florists' Exchange

**H. WEBER & SONS,**  
**CARNATIONS**  
— OAKLAND, MD. —  
When Writing Mention Florists' Exchange

**CARNATIONS**  
**F. DORNER & SONS CO.,**  
La Fayette, Ind.  
When Writing Mention Florists' Exchange

**CARNATIONS**  
**M. W. MOSELEY**  
**Field-Grown**, at \$1.50 per dozen;  
\$18.00 per 100.  
**HOPP & LEMKE,**  
Paat Post Office. EAST GRAND RAPIDS, MICH  
When Writing Mention Florists' Exchange

**FIELD GROWN CARNATIONS**  
and **VIOLETS,**  
Ready September 15th.  
**JOSEPH REHARD**, Unionville, Chesa. Pa.  
When Writing Mention Florists' Exchange

**EXCELSIOR**  
**Carnation Sporters**  
Not an experiment, as they have been in practical use for four years; over one million in use. Endorsed by prominent growers Made of Galvanizing wire, will last a lifetime. Cheapest, most easily adjusted of any on the market.  
**LENGTH**—10, 13, 15, 18 and 24 inches.  
**PRICES**—per 10, \$1.00; per 100, \$8.00; per 1000, \$75.00.  
**GARDENIUMS** S. A. NUTT, Heanite Potville, \$2.00 per 100; \$15.00 per 1000.

**CARNATION FERTILIZER**—Containing 8 percent, nutrient, as much as of sheep manure and of do not the result; \$2 per 100 lbs.

**GROUND BONE**—The best and purest, \$1.50 per 100; \$25.00 per ton. Sample free, postpaid.

**H. F. LITTLEFIELD**, Worcester, Mass.  
When Writing Mention Florists' Exchange

**GERANIUMS** Pot-grown, in flower, 3 in. pots by mail, 50 cts. per 100; \$4.00 per 1000. **SMILAX** Sand for samples. Cash with order. **FRED. BOENNER**, Cape May City, N. J.  
When Writing Mention Florists' Exchange

**FIELD-GROWN CARNATIONS**  
Good, strong, healthy plants. Write for kinds and prices. Delivery after Sept. 10th.  
**LOGAN AVE. GREENHOUSES**, Danville, Ill.  
When Writing Mention Florists' Exchange

**Carnations and Ferns.**  
**Scott, Fortia and McGowan.**  
1st quality, \$4 00 per 100; \$25 00 per 1000  
2d " 2 00 " " 25 " "

**Adiantum Cuneatum.**  
Seedlings, \$1 25 per 100; \$10 00 per 1000  
2 in. pots, 3 " " 25 " "  
3 " " 4 " " 50 " "  
4 " " 10 " " 80 " "

**Adiantum Pubescens,** **Pteris Adiantoides,**  
2 in. pots, \$3.00 per 100; \$25.00 per 1000

**THE BOOL FLORAL CO.,** ITHACA, N. Y.  
When Writing Mention Florists' Exchange

**CARNATIONS**  
After the early Chrysanthemum are thrown out, may florists plant carnations. We have a few thousand plants held in, in the cold house, suitable for this purpose; they are first-class plants, the last of 94,000 set out in the Spring.  
**800 Grace Wilder** 200 Scott  
**500 Silver Spray** 500 Erlaceourt  
**2500 Albertini** 100 Armszindj  
**500 Dean Hole** 100 Mrs. Carnegie  
**1500 Fortia** 100 Mrs. Carnegie  
\$4.00 per 100.

**J. L. DILLON**, - Bloomsburg, Pa.  
When Writing Mention Florists' Exchange

**...BAKER'S...  
NEW CARNATIONS**  
Grown and Tested Five Years.

**ONEIDA** pure pink, no trace of purple, fine proof, perfectly healthy, good grower, contentious producer, bloom of largest size.  
**RED JACKET** bright red, largest size, healthy, no rust, continuous producer, long stiff stems, never bending.  
**\$10.00 Per Hundred.**  
Orders booked now to be shipped in rotation as they come in.

**CHAS. F. BAKER**, Utica, N. Y.  
When Writing Mention Florists' Exchange

**HARRISON'S**  
**WHITE**  
**NEW CARNATION,**  
Sport from Wm. Scott.  
ALL THESE CARNATIONS ARE PURCHASES.  
STRONG, VIGOROUS GROWER, REQUIRING NO SUPPORT.  
Described and Illustrated in Florida's Exchange, Nov. 21, 1896, page 1044.  
**Price:** 5¢ per 100; \$20 per 1000; \$40 per 1000.  
Cash on Satisfaction Reference.  
All orders filled in rotation.  
**JOH HARRISON,**  
Near Bidwell's, 739 Bergen Ave., Jersey City, N. J.  
Take Jerome or Greenville Ave. from Jersey City and cross at 739. Get out at Bidwell's Av.

## BUSHY FIELD GROWN CARNATIONS

With plenty of roots. Send for prices.  
**GEO. HANCOCK & SON**, Grand Haven, Mich.  
When Writing Mention Florists' Exchange

**GALLERT & CO.**  
**CARNATION GROWERS**  
— COLMA, SAN MATEO CAL., —  
When Writing Mention Florists' Exchange

**Field-Grown Carnations**  
**FROM COLD FRAMES.**

**5000 Wm. Scott** . . . \$20.00 per 1000  
**200 FISHER** . . . \$3.00 per 100.  
**1500 MCGOWAN** small plants, \$20.00 per 1000.  
**150 TIDAL WAVE** . . . \$20.00 to 1000 rate.

The above named plants are fair size and are clean stock. We ship all of our plants upright and packed to lose.

**EDW. J. TAYLOR**, Carnation Grower, SOUTHPORT, CONN.  
When Writing Mention Florists' Exchange

## 20,000 CARNATIONS

Well-grown Plants  
at **CHEAP FOR CASH**  
**Alaska,** Silver Spray, Heelor, **Florida,** Totoli Wave, **Michigan,** Mrs. Scott, **Metzger,** Mrs. Fosshee, **Myrtle,** T. Cardridge, **Orlando,** Helen Keller, Puritan, I. L. Lamson. **1st size,** cash with order, \$4.00 per 100 2d " 2.50 " "  
**Della Fox,** Emma Wocher, Yellow Jacket, 1st size, cash with order, 86.00 per 100 2d " 50 " "

I study to please every patron, and pack carefully in light boxes, a guarantee entire satisfaction and best value for money. We have three express companies, Adams, American and United States.

**KIND WORDS NEVER DIE.**  
**Chas. T. Siebert**, Greentown, N. C., Nov. 7, '97.  
Dear Sir—The carnations you sent me arrived on time. I return thanks for the extras also for your promptness in sending the order. I am sorry I did not order more when I was away.  
Respectfully, Jas. Dudy.

**Chas. T. Siebert**, Westmoreland, Pa., Oct. 29, '97.  
Dear Sir—The carnations arrived today in fine condition. I am well pleased with them. Thank you for extra.  
Yours truly,  
**CHAS. T. SIEBERT**, Sta. R. Pittsburgh, Pa.  
When Writing Mention Florists' Exchange

**HARRISON'S**  
**WHITE**  
**NEW CARNATION,**  
Sport from Wm. Scott.  
ALL THESE CARNATIONS ARE PURCHASES.  
STRONG, VIGOROUS GROWER, REQUIRING NO SUPPORT.  
Described and Illustrated in Florida's Exchange, Nov. 21, 1896, page 1044.  
**Price:** 5¢ per 100; \$20 per 1000; \$40 per 1000.  
Cash on Satisfaction Reference.  
All orders filled in rotation.  
**JOH HARRISON,**  
Near Bidwell's, 739 Bergen Ave., Jersey City, N. J.  
Take Jerome or Greenville Ave. from Jersey City and cross at 739. Get out at Bidwell's Av.



Exclusively a Trade Paper.

Entered at New York Post Office as Second Class Matter

Published EVERY SATURDAY by

A. T. DE LA MARE PTE. AND PUB. CO. LTD.

2, 4, 6, 8 Duane St., New York.

P. O. Box, 1697.

Telephone 2154 Central.

REGISTERED CABLE ADDRESS  
(Commercial Cable) Florists, New York.

#### SUBSCRIPTIONS:

\$1.00 per year to United States, Canada and Mexico. \$2.00 per year to foreign countries in postal union. Payable in advance. New subscribers will commence with the number after receipt unless otherwise ordered. Back numbers can be supplied when wanted.

The date and address label shows when the subscription expires and is the subscriber's receipt. No other receipt is sent.

#### ADVERTISEMENTS:

Copy must reach this office not later than Thursday in order to secure insertion in issue of the following Saturday.

Rate, \$1.00 per line. Special positions extra. Discounts on contracts of one month or longer.

Orders from unknown parties must be accompanied by cash or satisfactory references.

### Exclusively a Trade Paper.

THE FLORISTS' EXCHANGE is published in the interests of those commercially identified with the Florist, Seed and Nursery business. New subscribers are requested to enclose business card or other proof of their connection with these trades.

### Contents.

AMERICAN CARNATION SOCIETY . . .	1037
CANADIAN BEEF NOSE . . . . .	1037
CRESTER COUNTY CARNATION SOCIETY . . .	1037
CHRYSANTHEMUM SOCIETY OF AMERICA . . .	1043
CHRYSANTHEMUM BEST TWENTY-FIVE . . .	1043
CHRYSANTHEMUM SEEDLINGS . . . . .	1043
CHRYSANTHEMUM STATISTICS . . . . .	1040
FLOWER SHOW, A SOCIETY . . . . .	1038
FLOWER SHOWS	
Chillicothe, Germantown, Pa. . . . .	1032
Chicago, Hagerstown, Md., Milwaukee, Philadelphia . . . . .	1034
Millbrook, N. Y., New Bedford, Mass., Northampton, Mass., Syracuse, N. Y. . . . .	1038
New York Florists' Club . . . . .	1038
Poist System of JUNONIS . . . . .	1031
QUESTION BOX . . . . .	1040
REFLECTIONS ON CURRENT TOPICS . . . . .	1038
THANE NOTES:	
Baltimore, Boston, New York . . . . .	1035
Buffalo, St. Paul, Philadelphia . . . . .	1039
Milwaukee, New Rochelle, New York, Oshawa, Pittsburgh, Providence . . . . .	1040
Cincinnati . . . . .	1038

### For the Busy Man.

A Baltimorean wants to know what it costs to force 1000 tulips in flats. Can you tell him?

Greve P. Rawson, Elmira, N. Y., captured the Yellow Foliage variety Clinton market, sending chrysanthemum, at the Syracuse show this week.

Most of the additional glass put in the "carnation belt" this year is being devoted to potato-planting. Mushroomers are also being extensively raised in this locality.

The offer of its silver medal, made by the New York Florists' Club, for an exhibit of chrysanthemum blooms, failed to draw out a suit contestant on Monday morning.

Ex-President Harrison told the Indiana florists in his speech on the occasion of the opening of their exhibition at the Indianapolis Hotel, that he never got inspiration to whip his wife a flower exhibition of any kind.

The meeting of the plant growers interested in the project of forming a United market, a permanent plant market in New York City, was held in the Hotel Astoria, New York, at Canal and West streets, New York, on Wednesday next at 3 P. M. All who favor the scheme should be present to take part in the destruction.

### A Society Flower Show.

Though held ostensibly under the auspices of the New York Gardeners' Society, the exhibition inaugurated this week at the Hotel Astoria, is in reality what may be termed "A Society Flower Show," the promoters of the enterprise being the elite ladies of New York, who are to be pitied for the show, and not from those greenhouses the majority of the exhibits are drawn.

The exhibition is to be given for charity. Possessing themselves a benevolent disposition, those ladies have taken this means of displaying the exhibits in their fellow beings, by charging admissions of \$2, \$1 and 50¢ respectively during the three days.

In certain of our local dailies a great deal has been said to the effect that this exhibition is not to be given for charity and not for gain, which it is said has been the ruling position that has heretofore brought flower shows in New York City into existence. If we judge by results the "gain" has been purely an imaginary concomitant of these undertakings, existing only in the mind of the writer of the local newspaper harangues referred to.

That apart, however we welcome the devotion of the money to a good cause and hope to see it become, as has been and is hoped, an annual event of equal importance to the florists and the public. It will attain this status, however, is questionable, from the very dissimilarity of the character of the parties that this life never has, for the majority, the attraction of animated movement, and sentiment, alas, it has been entirely developed to, of itself, sustain a great flower show.

It was the opinion of that lamented patron of horticulture, the late Adolph Lauenburg, Esq., that only by the establishment of a florists' exchange, working in its own particular channel along the lines of the existing Horse Show Association, could the florists be given successfully in New York City, that is, with some of that gain, at which the article of trade is so anxious to raise up such an organization, Mr. Lauenburg labored hard, never for a moment ceasing his efforts in this accomplishment. But death upset his plans.

It is sadly evident, that something of the kind is proposed by the florists, if we are to have in the metropolis of the country an organization whose commerce will sustain the volume of our agricultural interests.

It is true, we do not wish to take away any of the credit that rightly attaches to the commendable efforts of the florists in this connection, but during this year in the city. They are deserving of all praise. But it must be admitted that results were hardly what might be looked for in so large a horticultural center.

There is no reason why a flower show should not be conducted on business principles just as any other ordinary business enterprise. It is not to be believed that an overt desire for "gain" is conducive to the best interests of the promoter, if he is to succeed. The best results should pay—even when given for charity.

It is all very well for those on whom the arts of making exhibits falls not, to rave about the educational and elevating influences resulting from their efforts, but unfortunately sentiment will not liquidate coal and labor bills, nor the development of the exhibition reduce the cost of production. Ladies who roll (figuratively speaking) in wealth can well afford to indulge in such extravagance, but the florist, however much he may sympathize with such movements, needs some other method of support.

Past experience has demonstrated that our florists themselves, with all the influence, rest or lifting from their patronage from society ladies may bring, have not been able to get a profitable flower exhibition in New York City. It is just as true to say, that it is not so much as to do this, so far as affecting exhibitors are concerned, but for the florist, therefore a similar exhibition (lady patronesses and florists—even with the aid of the florists' exchange, viewed as likely to be productive of great failure.

It is only salvation in the matter appears to us to be the institution of a scheme having a similar intent to Mr. Rawson's plan, but one that will naturally urge the trade to do their utmost to bring this about.

### Reflections on Current Topics.

From across the Canadian border comes the announcement of a proposal to establish a Florists and Gardeners' Society in the Dominion. This information naturally suggests the inquiry: Will the florists of the Dominion be the supporters and adherents? Many gentlemen across the line have been and are yet to be shown the value of the florists and enthusiastic reception tendered the S. A. F. on its visit to Toronto, will appreciate the fact that the florists who were fortunate enough to participate therein. With such associations in existence, it is not surprising that Canadian florists from the S. A. F., just at a time when that organization has, in the opinion of those most familiar with its history, reached its turning point, and is on a fair way to greater success, would be easily deluded. True, our friends in the Dominion may feel that they have not received the recognition, the management of the Society's affairs, which they consider themselves entitled; yet as our interests are akin it must be conceded that any benefits that may have attended the work of the S. A. F., have not been shared by the florists of the Dominion. Should the proposed Society be organized and perfected, its establishment will in our opinion be a great benefit to the florists of the Dominion. The florists of the Dominion should the old S. A. F., a characteristic so admirably by their brethren in the States.

One of our large firms cataloguing *Araucaria imbricata* as "one of the wonders of the vegetable kingdom," recently received from a lady into whose hands their catalogue had fallen, a request to tell her more about the "vegetable" and point out the "boonky quality" which it possessed. The lady in question knew that the "vegetable" other known to her, cabbage, cauliflower, etc., and was very anxious to know the difference. In answer to this, the conception is one which would have surprised the florists. It stated that it was a "vegetable" and that catalogues will find their way into the hands of our contemporaries, who demonstrate the necessity of being careful almost to an absurdity in a choice of words. It is not surprising that the "vegetable" words, "a word of the plant world," might have served effectually to the purpose of clearing the matter clearer to the old lady's mind the true status of the subject of her inquiry.

I notice that a correspondent in one of your contemporaries is sorely distressed over what he calls "the discrepancy between (I presume he means disparity) in the reports of the New York Florists' Club and the reports of the "mam Mrs. Arthur Caton, and attacks the personnel of the New York committee on the ground that they are not "honest" as a foil. It has always occurred to me that the Chrysanthemum Society should have a committee of florists, one member either regular or impressed committee, from those who were qualified to carry out the Society's work, and to report out to their duty honestly and faithfully. It is a question of duty, and the results accomplished by the New York committee this year tend to prove that my opinion was well founded. If I am not that their scoring "even ups" well with that of all the other committees—excepting Philadelphia also. A report in your issue of the 12th inst. says that you have been operating in other fields besides New York?

The color of the variety in question does not seem to have been the only defect in the flower that manifested itself at New York, although its color was "again" in Philadelphia also. A report in your issue of the 12th inst. says that you have been operating in other fields besides New York? I presume your report speaks from personal observation, and is not a mere statement, therefore it is interesting to know the exact grounds on which the superior and inferior judgment was based. A Philadelphia judgment was based. A comparative record of the individual varieties by each of the committees, would throw some light on the analyses of the reports, and prove, next year (if the variety is not discriminated) who was responsible for the "discrepancy between the reports," etc. "Jon.

### New York Florists' Club.

The attendance at the Club meeting Monday evening last was only half. Vice-President Plumb occupied the chair in the absence of President Henshaw, who, it was announced, was in St. Vincent's Hospital; information which the members heard with the deepest sorrow. Mr. Plumb then read the report of Mr. Henshaw is again convalescent, and will be able to leave the hospital shortly. En.

The belated report of the transportation committee relative to the trip to Providence, indicated that 161 people had been taken to Providence by the Club on board the convention.

The report of the exhibition committee on the matter of the disposition of the club's gold medal was presented. The committee has been instructed to draw up rules and regulations governing the competition for the medal, in accordance with a resolution adopted at last meeting. The task, however, seemed an arduous one, and it was suggested that the matter, so far as they were concerned, by reporting that "the committee had no objection to the award of a gold medal for miscellaneous exhibits would be an unwise disposition of the medal, because they were not qualified to judge of the Club for further action." After this report had been thoroughly discussed it was referred to the executive committee, relieved by the appointment of the following special committee who will have the honor to handle and award the medal: Messrs. W. A. Manda, J. H. Troy, A. S. Burns, Wm. J. Brower, and J. M. Keller. The committee has been instructed to draw up this gold medal deliberation, it has created lots of good-natured debate, thus far, and it is expected that the nomination of officers was then introduced and resulted as follows: For president, Mr. Henshaw; vice-president, Mr. Logan and Louis Schmitz; treasurer, C. B. Weathered and Theodore Kodres; secretary, Mr. Henshaw, Mr. Plumb, Mr. Messrs. Wm. J. Brower, J. H. Troy, A. S. Burns, Chas. H. Allen, J. Dowsett and J. M. Keller.

The unanimous nomination of Mr. Plumb was received with general approval. Mr. Plumb was elected as regular attendant at the meetings and a hard worker for the best interests of the Club.

A resolution was put and carried to the effect that the secretary of the Club for the ensuing year, be requested to make a detailed statement of all the expenditures of the Club during the last 12 months, which statement is to be handed to the secretary who shall have same published and a copy distributed to each member.

The Tariff Committee of the Club made the following report: The special Tariff Committee beg to report that they have given the proper consideration to the matter of the tariff, and after careful consideration during the time they have had this matter in charge, and after having received the views of the members before Congress and the customs authorities, recent legislation, etc., request that the committee be allowed to be discharged.

It may be a matter of gratification, and a relief to the members of the Club, that members may be in favor of either high tariff or low rates of duty, that the principle of reciprocity is not a matter of controversy, the committee have contended, has been practically adopted in the recent tariff bill.

In asking for its discharge the committee desire to express their thanks and appreciation to the members of the Club given to the work of the committee by the officers and members of the Club, as well as to the members of the Club who have shown their interest toward accomplishing the object for which the committee were appointed. The committee are most desirous to be discharged. The report was received and the committee discharged with thanks. The competition for the silver medal offered for the best 25 chrysanthemum blooms of any color, was held on Monday evening last. The matter of making exhibits at its monthly gatherings the Club is going back to the old plan of having only five flowers of the variety Frank Hardy, which were marvels of good cultivation, and of the highest quality. The fact that this is an English variety and has captured honors wherever shown. Growers are urged to produce the blooms sure to be in great favor.



FRINGED, PERFECT BLOOMING HOLLYHOUSES ALLEGHENY

Which Highest Awards were given wherever shown. The Greatest Novelty for 1898. Get your seed now and have plants ready in Spring, as all the leading seedsmen will catalogue this Novelty... E. E. Wohlert, Altoona, Pa.

When Writing Mention Florists' Exchange

GROWERS THE CONARD & JONES CO. WEST GROVE, PA.

When Writing Mention Florists' Exchange

Table with 2 columns: Plant name and price per dozen. Includes Begonias and other items.

When Writing Mention Florists' Exchange

CHRYSAETHUMS.

In bud and bloom, dished stock, 50 cent per 100 plants in flats 2 1/2 inches deep...

When Writing Mention Florists' Exchange

CONSERVATION OF THE COLLECTION.

2 New Velvet Plants, big seller, \$1.50... 3 Begonias, newest flowering, 3 plants...

When Writing Mention Florists' Exchange

PANSY PLANTS, SEEDLINGS, STRONG.

transplanted, bushy, \$1 per doz. Geraniums, new varieties, named, 2 1/2 inch...

When Writing Mention Florists' Exchange

MORRIS FLORAL CO., MORRIS, ILL.

When Writing Mention Florists' Exchange

STRONG, DORMANT ROOTS OF THE FOLLOWING VARIETIES:

A. Bouvier, Austria, Chas. Henderson, Columbia, Coeur de Boucchard, Florida...

When Writing Mention Florists' Exchange

CYCLAMEN.

Table with 2 columns: Plant name and price per dozen. Includes Giganteum, Mixed, and Pericum.

The above are very fine stock and well set with buds. Order now as prices will advance next month.

When Writing Mention Florists' Exchange

SEAWANNAH GREENHOUSES.

OSTYER BAY, QUEENS CO., N. Y. JAK O'CONNOR, Prop. P.O. Box 36. Wm. L. SWAN, Prop.

When Writing Mention Florists' Exchange

If the sample sent was a fair indication of the condition the plants are in, they are suffering far more from red spider than they are from rust. These little insects...

Spray the plants thoroughly under the foliage with the top water by a solution of salt and water. Repeat this at intervals of ten or twelve days.

If you have a very strong pump get one at once, as it is impossible to do without it in the greenhouse.

(161) Size of Pipe.—How large a pipe will take to convey condensation of steam from six houses 20x113; four...

The size of both mains and returns is considerably modified by the amount of pressure carried and by the distance from the boiler to the coils.

Southern Evergreens. This is the title of a well-printed and handsomely illustrated pamphlet, sent by Caldwell, the Woodsman, Evergreen, Alabama.

MARKETING FARM PRODUCE.—By George G. Hill. Farmers Bulletin 82, Department of Agriculture, U.S. Government.

THE EXPERIMENT STATIONS.

ASPARAGUS CULTURE.—By R. H. Hardy, Division of Publications, Farmers' Bulletin 61, Department of Agriculture, giving information on such points as site, soil, sowing, etc.

WINTER PROTECTION OF THE PEACH; Peach Growing in Missouri.—Bulletin 89 of Agricultural Experiment Station, Columbus, Mo.

PEONIES.

In fine assortment from 2 1/2 inch pots, \$3.50 per 100; \$30.00 per 1000.

CHAS. T. DARLING, Stony Brook, L. I. N. Y.

When Writing Mention Florists' Exchange

Senegalia Emiliaana, 2 in., \$2.25 in 3 1/2 inch pots.

Lorus Polyrhychnus, 2 in., 90c per doz.

Cypripedium pubescens, 2 1/2 inch pots.

Winter-flowering Myosotis, Blue Perfection, 2 in., \$3.00 per 100.

Adder's-tongue and cup, venesia, 2 in., \$3.00 per 100.

Cash with order.

JOHN G. EISELE, 20th & Ontario Sts., Phila., Pa.

When Writing Mention Florists' Exchange

AZALEAS, PALMS.

ARCAURIAS, BAY TREES

BEGONIA and GLOXINIA BULBS in any quantity.

SANDER, BRUGES, BELGIUM.

A. DIMOCK, Agent, 60 Vesey St., N. Y.

When Writing Mention Florists' Exchange

SWORD FERNS.

Table with 2 columns: Fern name and price per 100. Includes Nephrolepis exaltata, Nephrolepis setacea, etc.

Send for Wholesale List, 25c, etc.

W. J. HESSER, Palm, Plattsburgh, Neb.

When Writing Mention Florists' Exchange

10,000 AZALEA INDICA VARIETIES.

Just arrived, well huddled and shapely plants, of which we make this special offer for cash: 10 to 12 inch plants, \$10.00 per doz.

WHITTON & SONS, Wholesale Florists, City and Green Sts., UTICA, N. Y.

When Writing Mention Florists' Exchange

PALMS AND FERNS.

THE LARGEST STOCK in the West.

For Prices see October adv.

GEO. WITTBOLD, 1708 N. Halsted St., CHICAGO.

When Writing Mention Florists' Exchange

FREE DELIVERY.

Of plants offered by me, in Florist's Exchange of October 8, page 82. If cash accompanies any order of not less than \$5.00, before the 20th of this month, all for a distance of 100 miles from Washington, D.C. All the stock is in first-class condition...

Especially fine are the 10,000 Lantana in 4 and 5 in. pots. 500 each of the Kenafas, Area Latensans and Pandanus Utlie...

N. STUDER, Wholesale Grower, ANACOSTIA, D. C.

When Writing Mention Florists' Exchange

FINE STOCK OF PALMS.

Table with 2 columns: Palm name and price per dozen. Includes Area Latensans, Lantana Hortensis, etc.

" " " strong, 6 in. pots, \$1.00

Kenaf Fosteriana, 4 in. pots, \$3.00

" " " " " " " " " " \$1.00

" " " " " " " " " " \$4.00

" " " " " " " " " " \$1.00

Finis Elastic, good stock, 2 1/2 in. 4 inch pots, \$3.50 per 100.

Florist, Well grown, assorted stock, 2 1/2 in. 4 inch pots, \$3.50 per 100.

Cash or satisfactory reference.

JOHN BADER, Allegheny City, Pa.

When Writing Mention Florists' Exchange

FOR PALMS AND FLOWERING PLANTS FOR XMAS!

Erica Fragrans from 60c. up, 3 ft. diam.

Erica Wilmoreana, pink trumpet, a grand lot from 60c. up.

Cyclamen Pericum Plants from 50c. up.

Azaleas from 40c. up to \$5.00 each, with extra large plants.

Take orders early, only 5 cents from Long Island City for a New Year's Gift, from College Point, depot opposite my greenhouses.

Several kinds of retrofrosidors in bloom.

Also Chrysanthemums.

When Writing Mention Florists' Exchange

# PALMS!

Send for Price List.  
**JOSEPH HEACOCK,**  
Wynote, Pa.  
When Writing Mention Florists' Exchange

\*\*\*\*\*  
**JULIUS ROEHR'S,**  
Headquarters for  
**Palms and Decorative Plants.**  
RUTHERFORD, N. J.  
P. O. Address, Carleton Hill, N. J.  
\*\*\*\*\*  
When Writing Mention Florists' Exchange

## 10,000 HARDY PINKS

Field-grown clumps. Her Majesty and the Water 2 1/2 inch per 100; \$20.00 per 100.  
**New Crimson Sprites.** A. Waterer field-grown plants, \$1 1/4 a doz., \$7 to a 100.  
**Fuchsias.** In variety, labeled, 2 1/2 inch pots, \$2 1/2 per 100.  
**Geraniums.** In 40 best sorts labeled, \$2.50 per 100; \$25.00 per 1000.  
These are largest as many 1 1/2 inch ferns and good healthy stock.

**Latania Borbonica Palm.** Well grown, strong and clean, 2 1/2 inch, \$4.00 per 100; \$3.00 per 1000.  
**Pandanus Utilis.** Strong, well grown, 2 1/2 inch, \$4.00 per 100; \$3.00 per 1000.  
**Asparagus Sprengerii.** Specimens in 6 inch pots, \$6.00 per dozen.  
**Rubber Plants.** Well grown, heavy cut, perfect plants, 2 1/2 inches high, 2 inch pots, \$3.00 per dozen Satisfaction Guaranteed  
**A. B. DAVIS & SON, Purcellville, Va.** (one Babson's, C.)  
When Writing Mention Florists' Exchange

# PALMS,

**Pandanus Veitchii,**  
**Ferns and Araucarias,**  
IN ANY QUANTITY.

**JOHN SCOTT,**  
Keap St. Greenhouses, BROOKLYN, N. Y.  
When Writing Mention Florists' Exchange

## 100,000 CHOICE FERNS AT ONE CENT.

A great bargain; fill a 2 or 3 ft. pot at once and worth 2 cts. in a week or two; fine little hardy plants from Bats, Adiantum Pulchellum, A. Coccoloba Latum, Lomaria Gilibe, Nephrodium Cristatum, Oxychilus Auratum, Pellenia Atlantica, Ficus Tremula, Pteris Crinita Alba, Pteris Argentea, Pteris Longiloba, and many others of the most popular and reliable. Large and full, all above and many other sorts, \$1.00 per 100; \$35.00 per 1000.  
Each with order, 500 same rates. Carefully packed.

**PERODONIA Argentea,** strong, 2 in. pots, \$4.00 per 100; \$3.00 per 1000.  
**LATANIA BORBONICA,** 1 year in dist, \$2.00 per 100; \$15.00 per 1000.  
**JOHN H. LEY, Good Hope, D. C.**  
When Writing Mention Florists' Exchange

## The Boston Fern—Nephrolepis Exaltata Bostoniensis

The best house plant yet introduced.  
Thousands of small plants at very low prices, larger from \$3.00 per 100 to \$40.00 per 100. Excellent line of established pot plants in different sizes.  
I bear none out the most glowing records of the selling of this fern, wherever introduced, at large profit to the buyers.

**L. H. FOSTER, 45 King Street, Dorchester, Mass.**  
When Writing Mention Florists' Exchange

# 600 AZALEA INDICA

JUST RECEIVED FROM ANTWERP PER S. S. SOUTHWARK.

Plants in fine condition. Small, medium and large size, in best known trade varieties. Put up in cases of 25, 50 and 100 plants. Call at or a.d.c.s.

**G. H. JOOSTEN, Importer, 193 Greenwich St., New York**  
When Writing Mention Florists' Exchange

## Nephrolepis Exaltata Bostoniensis.

The Handsomest Decorative Plant in Cultivation.  
\$5.00 per 100; \$40.00 per 1000.

**MINE IS THE GENUINE STOCK.**  
**FRED. C. BECKER, - - - 1730 Cambridge Street, CAMBRIDGE, MASS.**  
When Writing Mention Florists' Exchange

## SPECIAL OFFER

# AZALEA INDICA

Just arrived and ready for shipment.

These Azaleas are packed in cases of 50, 75 and 100, put up in only the best market sorts, such as Deutsche Perle, Verweeana, Madame Van der Cruyssen, Bernard A. Alba, Empress of China, Duch. Marie, etc.

- Per Case.  
10 cases, each containing 25 plants of 10-12 in. and 25 plants of 12-14 inch, \$18.50  
10 cases, each containing 35 plants of 10-12 in. and 40 plants of 12-14 inch, 26.50  
10 cases, each containing 50 plants of 10-12 in. and 50 plants of 12-14 inch, 34.00  
2 cases, each containing 100 plants of 12-14 inch, 69.00  
2 cases, each containing 100 plants of 12-15 inch, 42.50  
4 cases, each containing 50 plants of 10-12 inch, 52.50  
1 case, each containing 100 plants of 10-12 inch, 52.50  
Above prices F. O. B. case Rutherford, N. J. Order quick before they are sold, first come, first served.

**L. C. BOBBINK, - RUTHERFORD, N. J.**  
Branch of The Horticultural Company, Boskoop, Holland.  
When Writing Mention Florists' Exchange

## Cyperus Alternifolius.

2 1/2 in. pots, 40 cts. per doz.; \$2.50 per 100.

**GREVILLEA ROBINIA,** 2 1/2 in. pots, 40 cts. per doz.; \$2.50 per 100.

**ASPARAGUS TENUISSIMUS,** 3 in. pots, 50 cts. per doz.; \$3.50 per 100.

**CALIFORNIA VIOLETS,** field-grown, \$4.00 per 100.

**CARNATIONS,** Mamplate (new), \$3.00 per 100.  
Medium sized plants of the following standard varieties, \$4.00 per 100. Potted, Wm. Scott, Della Fox, The Stuart and Tidal Wave.

**NATHAN SMITH & SON, Adrian, Mich.**  
When Writing Mention Florists' Exchange

## Drive in Ferns

We must have  
Room . . . . .  
2 1/2 inch pots, 18 8 varieties, at \$1.50 per 100; \$30.00 per 1000.  
These are largest as many 1 1/2 inch ferns and good healthy stock.

**FEFFENS** 2 1/2 inch in 23 varieties, \$5.00 per 100.  
**COCO'S WEDDELIANA,** good color, 60, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100.  
Samples for Stamps.  
**B. REDFIELD, - - - Glenside, Pa.**  
When Writing Mention Florists' Exchange

# AZALEA INDICA

Fine shapely plants, well set with buds.  
10 to 12 inch crowns . . . . . \$38.00 per 100.  
12 to 13 " . . . . . 50.00 "  
15 to 15 " . . . . . 60.00 "  
Order these early and have them shipped by fast freight, saving heavy express charges.

**ASPARAGUS PLUMOSA.**  
Strong, 2 1/2 and 3 in. pot plants, \$7 per 100; \$65 per 1000.

**FICUS ELASTICA.**  
A large stock in fine shape, 4 in. pots, \$25 per 100; 5 in. pots, \$15 per 100.

**ARAUCARIA EXCELSA.**  
Excellent plants in fine condition.  
10 to 12 inches high . . . \$12.00 per doz.  
12 to 15 " . . . . . 15.00 "  
15 to 18 " . . . . . 18.00 "

**PALMS.**  
A large stock in fine shape, of Kentia Belmoreana and Forsteriana, Areca Interosa and Latania. See Special Florists' Trade List No. 5, for sizes and prices.

**ROSES.**  
Crimson Rambler, \$12 per 100; strong two year plants, with 2 to 10 shoots, 3 to 5 feet long. This rose flowers readily and makes splendid specimens for Easter sales. Common varieties Climbing Rose, strong two year plants, \$6 per 100.

**Hybrid Perpetual,** extra strong field grown, fine for potting up, \$9 per 100.

**HYDRANGEAS.**  
Hortensia and Thomas Hogg, 4 in. pot plants, \$6 per 100.

**HERBACEOUS PONIENS.**  
Large stock in choice varieties. Also a choice assortment of other hardy perennial plants.

## THE STORRS & HARRISON CO. Painsville, O.

When Writing Mention Florists' Exchange



The Quality this season will be fully equal to what we have sent out for several seasons past, which has given universal satisfaction, which is shown by the greatly increased number of orders already looked.

The Quality this season will be fully equal to what we have sent out for several seasons past, which has given universal satisfaction, which is shown by the greatly increased number of orders already looked.

The Quality this season will be fully equal to what we have sent out for several seasons past, which has given universal satisfaction, which is shown by the greatly increased number of orders already looked.

The Quality this season will be fully equal to what we have sent out for several seasons past, which has given universal satisfaction, which is shown by the greatly increased number of orders already looked.

**HENRY A. DREER, 714 Chestnut Street, PHILADELPHIA.**  
When Writing Mention Florists' Exchange

SITUATIONS WANTED.

Rate, 10 cents per line (8 words), each insertion. Cash with order. This rate applies only to original wanted advertisements and when sold without display. When letters are addressed to our care 10 cents to cover expense forwarding.

FORMAN wants position: first-class on roses, geraniums, etc. Address: J. H. Brownson, N. Y. commercial. Address Philadelphia, care this paper.

SITUATION wanted by young experienced florist and decorator. 30 years' experience. References, O. V., care of Florists' Exchange Philadelphia, Pa.

SITUATION wanted: A florist, decorator and salesman of plants and flowers in all branches: references. Address, J. H., care Florists' Exchange.

SITUATION wanted by an experienced grower strictly sober to take charge of wholesale or retail store as florist or propagator. Address New York, care Florists' Exchange.

BARBER, by a practical man, married, no family, well up in every department, botany, door and under plant, private graded, care of F. Koopfer, Florist, 2 Main St., Yorkers, N. Y.

SITUATION wanted, by married man, as rose grower or foreman, good grower of cut flowers and general greenhouse plants, first-class general state flower. Address R. J., care of Florists' Exchange.

SITUATION wanted, by an experienced grower in large commercial or private place, where fine and as experienced in all branches, references: business. Address Robert Duncan, 10 Schermerhorn, N. Y.

SITUATION wanted for the best two months only, by a first-class maker-up and decorator: also as experienced in all branches, references: no going on road until January 15, '98, would like to fill time. Address R. F., care of this office.

HELP WANTED.

WANTED.

A good all-round greenhouse man: single a careful and rapid grower of cut flowers, habits a good place for the right man. Address H. B. N., care of Florists' Exchange.

WANTED

In a large commercial place near New York in good hands Beauty grower. Rare chance for a good man.

Address L. P. O. Box 1788, New York City.

WANTED.

Young assistant, experienced in rose growing, must come well recommended.

R. ASMUS, New Durham, N. J.

WANTED.

Fanner man and wife, without children, to take charge of farm. Answer by letter only.

Mr. TAYLOR DICKSON, 320 Walnut St., Phila.

MISCELLANEOUS WANTS

WANTED TO RENT.

About 600 running feet of glass with easy access of New York, with possible local trade. Commercial, Box 207, Madison, N. J.

Stock Wanted Cut Roses, "Mums, Carnations, etc. Adirondack, N. Y. Palmers, Ferns, Rubbers, etc. Also Christmas Plants, etc. Address: J. H. Brownson, N. Y. Flower Store, 421 Penn Sq., Reading, Pa.

WANTED.

A second-hand Hot Water Heater of some reliable make, with a capacity of 600 feet of radiating pipe. Prefer No. 15 Hitching-Corugated. Address,

H. B. Brownson, Huntington, Conn.

FOR SALE.

A Johnson Hot Water Heater, suitable for heating a small greenhouse. Price, \$15.00 if taken at once. Address

J. H. MARSHALL, 744 Elm Street, Manchester, N. H.

When Writing Mention Florists' Exchange

BUSINESS OPPORTUNITIES

FOR SALE.

A fine new florist establishment, nearly 8000 ft. of glass situated in good live city in the heart of the business district and to be sold at a bargain. Address

K. K., care Florists' Exchange.

FOR SALE.

Florist and seed business, good will and stock in store, in a paying center, city of 40,000 inhabitants. Address

Address FRANCIS A. FITZELLE, 26 North Broadway, Yorkers, N. Y.

FOR SALE.

Greenhouses, in one of the best cities in Wisconsin. A good investment and a money maker for a hustler. Owner must retire on account of poor health; for particulars, write

ELLIS & POLLWORTH, MILWAUKEE, Wis.

A RARE OPPORTUNITY!

FOR SALE—Florist store, on Broadway, between 81st and 82d Streets, opposite one of the most prominent hotels in New York. Weekly profits up to the present time \$100. Will dispose of same very reasonably; rest very low; reasons for selling—other large store requires my entire time.

FLEISCHMAN, Broadway and 26th Street, NEW YORK

Chrysanthemum Society of America.

The committee judging new seedlings will be in session November 13, 20, and 27.

Exhibitors should make their entries (for which a fee of \$2 is charged for each variety exhibited) to the secretary, not later than Tuesday of the week the blooms are to be shown.

Blanks for entries of any of the following address, express prepaid, will receive careful consideration. Boston—A. H. Fowler, Horticultural Hall, New York—Eugene Dallemeuse, care of New York Cut Flower Co., 121 W. 23d Street.

Philadelphia—Edwin Lonsdale, 1514 Chestnut street. Cincinnati—B. Witterstaetter, corner Fourth and Walnut streets.

Chicago—W. N. Todd, room 202, 185 Dearborn street.

Secretary's Official Report.

At the meetings on November 6, seedlings were passed upon by the committee as follows:

PHILADELPHIA. Frank Hardy, exhibited by A. Herrington, Madison, N. J., incurved Japanese, creamy white; scored, commercial scale, 89; exhibition scale, 87 points.

Alice F. Carey, exhibited by Robert G. Carey, Chestnut Hill, Pa., reflexed Japanese, light pink; scored, commercial scale, 75; exhibition scale, 87 points.

Miss Gladys Vanderbil, exhibited by John N. May, Summit, N. J., reflexed Japanese, creamy white; scored, commercial scale, 92; exhibition scale, 89 points.

Pennsylvania, exhibited by Hugh Graham, Philadelphia, Pa., incurved Japanese, yellow; scored, commercial scale, 91; exhibition scale, 89 points.

No. 57, exhibited by N. Smith & Son, Adrian, Mich., Japanese, straw yellow, shading to white; scored, commercial scale, 73 points.

Pennsylvania, exhibited by Hugh Graham, Philadelphia, Pa., incurved Japanese, light yellow; scored, commercial scale, 87 points.

CHICAGO. Snow Queen, exhibited by Fred. Dornor & Son, Lafayette, Ind., white; scored, commercial scale, 85 points.

Marion, Ind.

Carl Anderson, florist at the Stinson Memorial Home, gave a chrysanthemum exhibition from November 8-11, at the Home greenhouses.

Seedling Chrysanthemums.

Chicago.—Three entries were before the Chicago committee, December 6. One came from John E. Starbower, and was a seedling of this year. One flowered in the fall, and the other two opened white, seven inches across.

Hugh Graham, of Philadelphia, sent his yellow variety of flowers, the counterpart of the type, save in color which is a good one. It came in poor condition, nearly all the petals being marred at the tips.

Fred. Dornor & Son, of Lafayette, Ind., sent a well-bred white with a faint yellow center, a very taking flower of that style known as a good supporter, but deep and abundant, inclined to be open, and medium broad; stem fair, foliage rather thin as only, showing six to seven inches of neck.

New York.—Only two varieties were before this committee Saturday, November 6. Both were of good quality of merit, and it will be surprising if they do not score well. Hugh Graham, Philadelphia, exhibited a variety which furnishes just what its parent needed—more color. This is now amply supplied by the fact that the roots exist, and which illuminates well. This new break cannot fail to be popular.

John A. Herrington, Madison, N. J., made a good impression upon the judges by a variety of type but the roots exist, and which illuminates well. Its wonderful stem and foliage, massive open and broad appearance makes it one pronounced and desirable variety. The type is difficult to decide, for the stereotyped "Japanese" curls have made it hard to judge properly. We prefer to call it just a plain Japanese, which, in our opinion, it really is. It is a variety in one direction and then in another, thus making a weak link in the chain of "plumelike" appearance. Its weakest point is its color, for it is not so full as the full color; nevertheless it is bound to be one of the best varieties of this year. Its early year doublets will be seen in every exhibition.

P. Paul.

Stock Illustrations: Trade Improving.

This business has not experienced any particular boom, but there has been a gradual increase, and prospects are daily growing brighter. There is an abundance of plants, and a surplus of particular surplus of anything. Roses are of excellent quality and in good demand. Wholesale prices range from \$3 to \$4 per 100 for teas, and retail at \$1 per dozen. French Camellias have made appearance in this market and sell well, though there is no special call for it. Usually they are demanded in very small quantities. Many of our first-class growers do not build houses adapted to this good variety, and at the price it usually commands, should pay better than that which would be obtained for the season, or carnations which will not average \$1.50 per 100.

Our country has a quality only, and in good demand, with a visible shortage in the supply. Wholesale prices are \$1 per 100; retail, 35c. to 50c. per dozen. In chrysanthemums, there is a fair supply of good quality with a good demand for them. But interest in the Queen of Autumn seems to be dying out, and the variety is being produced in very small quantities. "This city has the best lot of chrysanthemums this season that was ever grown here. Many of the Swanson arrowing—and selling too—some immense blooms. Morel, Willard, Philadelphia, and others are in the position, etc. are now in their prime. Would a good live exhibition revive interest in this variety? Have you not seen the quality of styles, forms, colors, names, etc., overcome the thing and caused a reaction?

Viols are coming in of fair quality, and in limited quantities. But very few of the cultivators were able to grow them. This fact is to be regretted, as it is a great variety, and will, I think, prove more profitable than the double kinds. Jottings.

C. F. Haupt has built a new house 16x18, doing the work, and has just moved. This makes three houses in his range—

which are devoted to violets, roses, carnations, chrysanthemums and bedding plants.

Artificial plants, dracaenas, vias, flowers, etc., are now seen in many of the stores, which is a fact they are more common in the business district than the natural plants. They serve a purpose all right, but the fact that they are used for decorating, and instead of detracting from the sale of the real article, they assist in disposing of it. The use of artificial windows, every picture in the magazines is doing mislead work for the retail florist, and for the palm grower. Notice the immense increase in the sale of viols, since artificial articles were worn so much a few years since. The article creates the desire which only the real can satisfy.

Mr. Anderson has opened up a new store in the "Hill district" opposite Hoyt and

Chris. Hansen is about to open a large and commodious store on East Sixth Street opposite May & Co.'s new place. Soft coal prices are soaring skyward, although some of the growers connected early in the season at very low rates. But very little coal has been used as yet, owing to the mild fall.

Boquet green has made its appearance, which will remind of the holiday season, which is well upon us.

Shipping rates are still good for roses, gladioli, gladioli and funeral work. James Soden, foreman for L. L. May & Co. is smiling again. It is a girl—the fifth.

B. F. Brown of the Bag Filling Co. was here last week, setting up a number of machines to be used by L. L. May & Co. in their warehouse.

John A. Herrington, formerly with L. L. May & Co. as manager of their retail nursery department, has removed to Los Angeles, California. He has a fine place there under the firm name of Howland Nursery Co., dealer in fancy ornamental stock. Wm. Travis.

Toronto.

Business Still Slow.

Business is still slow, and stock is very plentiful. Roses are cheap. Carnations are good, but prices are low. Chrysanthemum are very plentiful. St. Lawrence market has been overstocked with roses, and could not be disposed of at any price.

Show News.

The chrysanthemum show opened November 10, and began its every-day ability of its being a very good one. There are quite a lot of entries in several of the classes, and the quality is very good. The show has not been favorable for getting stock sold, but for all that a great many plants have been sold. The display of palms, foliage plants and orchids will, I think, be better than usual. Thos. Maxton.

Buffalo.

Business Slow.

Flowers are quite plentiful. The influx of chrysanthemums is now large, and much so, but the quality is not so general complaint of unusually slow sales of chrysanthemum plants in flower this year.

Thral, the florist, has the window at 588 Main street placarded with an opening for a new one of the plant, and is shortly to occupy, removing thence from further down to the same block. J. Austin, florist, has listed us last week.

VIDI.

SANDY CREEK, N. Y.—Thomas V. Maxon died at his home one mile west of Adams village, Sunday, October 16th, aged 67 years. He was one of the pioneers in the seed growing business in this locality and continued in it until his death.

COMING EXHIBITIONS.

Secretaries of shows will greatly oblige by furnishing us with particulars of their respective Exhibitions, for notification in this column.

CLEVELAND, OHIO.—Florists' Club, November 18-19. A. Titton, 35-27, Woodland avenue, secretary.

MADISON, N. J.—Rose Growers' Club, Fagan's Hall, November 16-18 inclusive. James J. Ryan, secretary.

Providence.

The week opened with 48 hours of wet weather the same as last week, practically killing what there was in the market. There has been an average funeral business, but cut flowers have moved rather freely. Prices on cut flowers in bloom have made their appearance and sell well. Chrysanthemum plants in the Boston market are in good demand. Chrysanthemums are quite plentiful, but many of them are specimen blooms with weak stems and are not fully matured when marketed. Violets are on the gain and are selling well. The American Beauty roses are selling well. This is something new for this market where the Beauty has been a rarity. They retail for \$4 to \$6 per dozen.

Small Talk. D. D. Waterman, Cranston, has had an extraordinarily large run on small potted chrysanthemums at good prices. He had a big stock in fine quality.

Edward Neale, in addition to running his orchid and cacti houses, has accepted a position as traveling representative for a reliable house.

The Hope Greenhouses, 279 Massachusetts avenue, gave daily chrysanthemum sales from the 1th to the 11th inst., which were largely attended.

It is rumored that C. C. Sullivan is about to engage in business for himself again.

E. Carl will add one new house to his range in Oxbowville next Spring.

John Fotheringham, representing E. K. Pearson Co., Tarrytown, N. Y., was in town last week.

George Johnston, of Johnston Bros., is suffering from another severe attack of rheumatism. W. H. M.,

Pittsburgh.

Trade News. Trade here fell up a little the past week, but the supply of stock was far too large for the demand. Chrysanthemums are in their glory at present, but prices are more than they have ever been. There is no heterogeneity in prices of roses and carnations, the former particularly so. In carnations, the standard, several of our growers are cutting Hartshill flies. Bulb sales have been actually slow.

Justice.

C. T. Siebert opened up another store in East Liberty on Center avenue, close to the corner of the good class of trade. Mr. Siebert is still selling carnation plants and says his sales this year are better than last. A good many shipments went south.

At the last regular meeting of the Botanical Society of Western Pennsylvania, Superintendent Falconer, of Schenley Park, gave a very interesting lecture on the flowers of the city. He was in Philadelphia, he spent several days in the city.

Superintendent George Darke, of Highland Park, has some fine chrysanthemums, as usual, not quite as many as are in the Schenley Park varieties, but better than last year's. E. C. REINEMAN.

Milwaukee.

Market News. Chrysanthemums reign supreme so growers of other stock are waiting for the time to come. Carnations are quite plentiful and only extra fancy are kept moving without difficulty. Carnation prices are very low, even at low figures.

Carnations are improving in quality, and stocks average fair in proportion to other stock. Violets, violets, and fancy chrysanthemums are in demand, and command good prices. Medium grade chrysanthemums are plentiful and cheap. C. C. Pollock has returned from a Western trip.

Recent visitors, J. C. Vaughan, Harry Baggersdorf, RASTUS.

Saratoga, N. Y.

T. J. Totten's range of new houses are now in full occupancy and growth. A large crop of Beauty roses cut from one house in August, and another crop is now in sight. A large trial assortment of roses is now here. Phloxes show only medium. Alaska has been discarded. Morello and Jubilee look fine in its element for growth and is producing magnificent wined flowers. The carnations are well weathered and moderate in size, while the wet weather apparently caused some rust. Wm.

CHRYSANTHEMUM STOCK.

SPECIAL LOW PRICES FOR NOVEMBER.

Order at once and secure strongest stock at cheapest rate. We have thousands of plants of Novelties and many Varieties in strong, healthy condition.

Novelties—Back's, Hill's, May's, N. Smith & Son's, Spaulding's and others, \$2.00 per doz.; \$1.00 per 100.

Commercial Varieties—Merry Monarch, Bergamot, Mrs. H. Robinson, Helena Wright, May Bower, Wansmaker, Niveus, Mrs. J. Jones, Yanomna, Gold Lode, Georgina Pfeiffer, Cady's Queen, Mrs. W. Bennett, Lovell's Wedding, Edith's, Wm. Simpson, C. Leech, Mac, F. Perrin, H. Bloodgood, Francis H. Hayes, Maud Deo, \$1.00 per doz.; \$7.50 per 100. Not less than one doz. at above rates. 50 at 100 rates.

CASH WITH ORDER. THEO. F. BECKETT, Glenfield, Pa. When Writing Mention Florists' Exchange

MYRTLE BUILDING, 5 miles below Pittsburg, Pa.

N. B. . . . . N. B.

Growers, Dealers and Buyers,

WE ARE OPEN AND READY FOR BUSINESS AT

4 Orway Place, Boston, MASS.

WALSH & CO. Wholesale Florists and Dealers in all Florists' Supplies

Fully equipped for Cut Flower Commission, and can command the best market.

When Writing Mention Florists' Exchange

FARQUHAR VIOLETS, strong 2 1/2 inch pots, \$5 to \$6 a 100. CAMPBELL, strong 2 1/2 inch pots, \$1.50 per doz. Blue \$2.00 per doz. Light blue, strong \$3 to \$4 100. Cash with order, samples free. ROBEY BROS., West Grove, Pa. When Writing Mention Florists' Exchange

New Rochelle, N. Y.

Siehrach & Son have completed a huge water tower on their place here. The base structure is a stone tower, 20 feet in diameter, 30 feet in height, on the top of which is erected a standpipe of heavy iron 50 feet in height and 8 feet in diameter, making the entire height 80 feet. In the tower can be heated to any desired temperature. This, we believe, is the largest and most modern waterworks in connection with any florist establishment in the world. The Rose steam-heating plant, which was completed several days ago, is to heat the largest and most complete to date. The fuel used is two-thirds gas and one-third anthracite and one-third bituminous or soft coal. This properly mixed makes the best and cheapest fuel when large boilers are used and plenty of draft can be had. The saving, last year, on this coal over large sized Lehigh coal exceeded \$3,000. The gas and water are three of the principal items to be studied in these times of close competition and small margins.

New Canaan, Conn.

Through the action of a crazy servant, Edwin Hoyt and his entire family were poisoned with arsenic and strychnine. The sick ones were Mr. and Mrs. Edwin Hoyt, their son Stephen, and daughter Fanny, and also some of the family. Mrs. Stephen Hoyt, Miss Fanny Hoyt and the baby were in a dangerous condition, but are now to be recovering. Mrs. Stephen Hoyt, mother of Edwin Hoyt, died at the residence of his brother James on Tuesday night last.

Farquhar Violets

Strong, healthy runners, \$1.00 per 100 by mail. WM. H. SEARCH, Avondale, Chester Co. Pa. When Writing Mention Florists' Exchange

VIOLETS! VIOLETS!!

MARIE LOUISE, Pot grown, clean and healthy in every particular, \$5.00 per 100, \$45.00 per doz. Sample plant, 10c. Cash with order. Wm. J. CHENSICK, Trenton, N. J. When Writing Mention Florists' Exchange

CALIFORNIA VIOLETS! FINE FIELD CLUMPS!

Also L. H. Campbell, must be sold. Ask for prices. Also extra fine, 2 1/2 in. Swanley, \$1 per 100. BENJ. CONNELL, Florist, West Grove, Pa. When Writing Mention Florists' Exchange

GOOD STOCK CHEAP.

CERANUMS—Rooted Cuttings, 100 1000 1000 Single Grains, \$0.75 27.00 700 Double Grains, \$0.75 75.00 500 Single Grains, \$1.00 50.00 500 La Favorite, \$0.75 75.00 200 Bronze, \$0.75 75.00 1200 Yellow, \$1.00 120.00 200 Violets, Marie Louise, \$2.00 20.00 100 Yellow Hardy Numbers, \$1.00 10.00 175 Orevilla Robinson, \$2 1/2 inch, \$3.00 30.00

SWANLEY, \$1.00 per 100. Daydam, Wm. Simpson, Silver Cloud and Major Bonaffon, at 50 cts. per doz. SAML S. PECKHAM, New Bedford, Mass. When Writing Mention Florists' Exchange

A Plant Market for New York.

A meeting of plant growers will be held at LYNCH'S RESTAURANT, Corner Canal and West Streets, New York City, on WEDNESDAY, November 17th, 1897, at 8 o'clock P.M.

The object is to organize, and hire Clinton Market Building for a Plant Market. Every one interested is urgently requested to attend.

A CHANGE of AD. is often as necessary as a change of air or change of diet, and for the same reason—to keep trade and body healthy.

SURPLUS OF CHRYSANTHEMUM STOCK PLANTS AT 4c. EACH.

Varieties: Mrs. H. Robinson, Ivory, Merry Monarch, Miss Bergamot, Margie de Montmort, Mrs. Francis Hayes, Wanda, and others. Cash. Not less than \$1.00 worth at this price.

KEIPER BROS., Florists, St. Paul, Minn. When Writing Mention Florists' Exchange

MUM STOCK PLANTS

Merry Monarch, Marion Henderson, Mrs. H. Robinson, 50 cts. per dozen.

RIDGELAND AVENUE GREENHOUSES, 622 6th Avenue, Oak Park, Ill. When Writing Mention Florists' Exchange

STOCK 'MUMS

Five Bench Grown Roots. IVORY still the best commercial white, and M.A.B. DONNAN FIVE BENCH produces \$14.00. No. 10 or 11 priced for less than 40 plants. Cash with order.

ROCKLAND GREENHOUSES, 60 No. Ave., ROCKLAND, MASS. When Writing Mention Florists' Exchange

CHRYSANTHEMUMS.

Fine stock plants of White and Pink Ivory, Marion Henderson, Gloria, John E. Lacer, Gloria of Pacific, Margie de Montmort, Mrs. Henry Robinson, and many others.

\$3.00 PER 100. JOHN HOAG, SING SING, N. Y. When Writing Mention Florists' Exchange

100,000 CINERARIAS

Grown from the choicest seed, plants of which were awarded 1st prize at the Horticultural Show, England; 2nd high, ready to ship, \$3.00 per 100, separate classes. Cash with order. \$15.00 per 1000; 3 inch, \$3.00 per 100.

CALCEOLARIAS, best strain, 2 1/2 inch, \$8.00 per 100. WHITTON & SONS, City and Grove Sts., Union, N. Y. When Writing Mention Florists' Exchange

FARQUHAR VIOLETS

Strong plants that will blend the Winter, from stock in best of the country. Cash with order. THOMAS F. O'BRIEN, Falmouth St., Roslindale, Mass. When Writing Mention Florists' Exchange

VIOLETS TO CLOSE OUT.

We Offer Large, Field-Grown Clumps. Tussocks, \$1.00 per 100; \$35.00 per 1000. California, \$3.50 per 100; \$30.00 per 1000. Swanley White, \$4.00 per 100; \$30.00 per 1000. The other varieties all sold.

J. C. SCHMIDT & CO., BRISTOL, Pa. When Writing Mention Florists' Exchange

RED SPIDER ON VIOLETS SCALE AND MEALY BUG ON PALMS

Can be removed by using Lamson Oil Insecticide. Directions: 100 cts. per gal. 1/4 pt. 25c; 1/2 doz. 40c; 1 qt., 75c; 3 gal. \$1.25; per doz. \$7.50. Cash with order, no return. Wm. J. CHENSICK, Trenton, N. J. \$17.50. Sent on receipt of price.

CHAS. S. GARRETT & Co., 413 S. Gay St. Baltimore, Md. When Writing Mention Florists' Exchange

VIOLETS MY SPECIALTY!

California, extra clump from field, \$3.00 per 1000. Special price for large quantity. Other varieties all sold for the price.

L.I.C.A.S.

Charles J. and Maria Logrovy, 3 years, crafted, root forcing plants, delivered October 1st, \$8.00 per 100. FERR. BOUTON, See CHS. L. I. N. Y. When Writing Mention Florists' Exchange

A FEW THOUSAND FINE VIOLETS

Yet left. Different sizes. Must sell. See below. Also a few hundred.

CARNATIONS

Left. Name quantity. Send for prices; they will surprise you. JOS. R. FREEMAN, 612 21st St. WASH'D, D. C. When Writing Mention Florists' Exchange

**JOHN CONLEY & SON,**  
MANUFACTURERS OF  
**TIN FOIL**  
2 and 4 Dominick Street,  
**NEW YORK.**

When Writing Mention Florists' Exchange

**WHITE C. S. LODER, Sec'y,**  
**NATIONAL FLORISTS' BOARD OF TRADE,**  
271 Broadway, New York.

In regard to Collections Credits, etc.,  
When Writing Mention Florists' Exchange

**"JADOO"**  
FIBRE and LIQUID are used and  
endorsed by the leading growers.  
Try them and be convinced.

When Writing Mention Florists' Exchange

**PLANT LABELS**

Best grade of stock, 15c ts. per  
1000. Other printed supplies at  
corresponding low rates. Send  
for samples.

**PAYTON & BENNETT, Printers,**  
and General Business Printers,  
**SPRINGFIELD, OHIO.**

When Writing Mention Florists' Exchange

**GOLD FISH.**  
Fine Healthy Stock.

Medium to large size, \$1.00 per 100. Cash  
with order. No charge for shipping cost.  
Gold fish can be shipped by Express through  
special rates with suitable and a profitable  
and attractive stock to handle.

Full line of Aquaria Supplies.

**KEENAN'S SEED STORE,**  
612 and 614 Wentworth Ave., CHICAGO.  
When Writing Mention Florists' Exchange

**HAVE YOU EVER TRIED  
THE MEYER GREEN SILKALINE?**



Price \$1.25 per lb. For sale everywhere. Carry  
orders for typesetting, JOHN C. MEYER & CO.,  
87 Sumner Street, BOSTON, MASS., U. S. A.  
When Writing Mention Florists' Exchange

**Boston Florist Letter Co.**



This wooden base neatly stained and varnished, \$1.00  
with press in two sections, one for plain size letters and  
away with first order of \$5.00.  
Black Letter, 1 1/2 x 2 inch, 50c per 100, \$2.00

Supplies Letter, 2 1/2 x 2 inch, 50c per 100, \$2.00  
Patented with each letter or word.  
Died by leading florists everywhere and for sale by all  
wholesale florists and nursery dealers.  
**N. F. MCCARTHY, Treas. & Manager,**  
at 107 BOSTON, MASS., U. S. A.  
When Writing Mention Florists' Exchange

**REED & KELLEY**  
When Writing Mention Florists' Exchange

Cincinnati.

Business Bits.  
We are not complaining of dry  
weather now, rain having fallen in abun-  
dant during the past week. Business  
was of course considerably affected, so  
far as transient trade was concerned.  
Wedding decorations were quite num-  
erous. A. Sunderbult & Son had the  
largest, using many thousands of red-  
and pink chrysanthemums. It was  
of course a pink wedding. J. A. Peterson  
has had several nice decorations  
also. His chrysanthemums and Beauty  
are carried of the stock that comes in  
to the best advantage. But I must say  
that roses are not in it now with the  
chrysanthemum. Carnations are holding  
their own at \$1 per 100. Roses are sell-  
ing for 10c to 15c, and chrysanthemums  
for \$1 to \$1.40 per 100, violets bring 50c  
per 100, Beauty 2c to 25c, each Lily of  
the valley 4c to 5c.

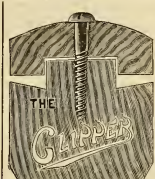
Saturday was seedling day. There  
were two exhibitors—Hugh Graham, of  
Philadelphia, Pa., who sent "Pensyl-  
vania," and one from South St.,  
Adrian, Mich. They were nice blooms,  
but as correspondents are not allow-  
ed to know the movements of the judges it  
is hardly worth while to make any com-  
ments. Betscher Bros., of Canal Dover,  
Pa., sent a white seedling to the writer.  
It is dwarf in habit, has good stem and  
foliage, is much better than Bergmann,  
some what of the same form, but I hardly  
think it good enough to compete with  
Mrs. Robinson. They also sent some  
seedling carnations, but they were in no  
condition to be judged, being badly  
wilted; some of the colors were quite  
good.

R. A. Betz, of this city, has accepted a  
position as cut flower worker with O. J.  
Friedman, of Chicago.

The Indianapolis Show.  
Thursday morning a party, consist-  
ing of J. A. Peterson and wife, W. Sun-  
derbult, and the writer, took a trip to the In-  
dianapolis chrysanthemum show. The  
city was just getting over the effects of  
the country, was the same old place  
at any of their shows. Our old friend,  
Toots, took for commercial flowers, and  
good assortment in new and leading  
kinds. Utica, N. Y.  
Roses at Peter Crowe's are looking  
very well. The number cut thus far  
has been large considering the extent of  
the houses. Solid beds are here consid-  
ered the best, while the general proprie-  
tor could not doubt give some points on  
mixtures to the scientific chap.  
A good-sized house of Adiantum canu-  
tum, grown for cutting, is a feature,  
while perhaps more interesting is a vari-  
ety originating here that possesses dis-  
tinctive qualities of merit. Its gracefully  
shaped and larger fronds are an im-  
provement over those of the conventional  
and with a pleasing tint of pink in its  
younger growth, one inclines to believe it  
a coming standard variety. It has been  
named Bardil in honor of Robert Bard,  
of Syracuse.  
George considers Alaska carnation  
a standard for quantity of bloom. He is  
well pleased with Figure and Lily Bean,  
and a leading here, but the originators of  
George shows promises of merit in that  
variety. S. Morello looks fair.  
C. F. Baker's new carnations, Oneida,  
a shell-tinted or salmon-pink, and Red  
Jacket, a red, are to be sent out this  
season, and will no doubt merit a large  
share of attention. The former undoubt-  
edly is an acquisition that must meet  
with favor, while the latter looks as  
though it need not occupy a back place.  
This, Mr. Baker says, is the sliding down  
from over 3,000 seedlings of some years  
ago. Besides a miscellaneous stock for  
the retail trade, that of young ferns in  
this season, and was recently offered in  
and was assumed goodly proportions.  
Mrs. Matthews rebuilt his older variety,  
and it is now occupied with roses, or cut  
blooms, which class of flowers, and also  
carnations, is being given more attention  
than formerly. A live interest in this  
of the best specialty, orchids, still per-  
sists in this city. A bench of  
chrysanthemums shows good culture.

At Wm. Scott's can be seen a middle  
bench of carnations, quite cosmopolitan  
in character, a veritable festivity of  
varieties in a goodly number of each. Mrs.  
Piegree, Eldorado, Woche, Dazie, and  
others can be fully noticed in a compar-

**FLORISTS' SUPPLIES**  
122 W. 25th Street,  
**NEW YORK CITY.**  
When Writing Mention Florists' Exchange



**GREENHOUSE  
RAFTER  
NO PUTTY  
REQUIRED.**

**MYERS & CO.,**  
**Greenhouse Builders,**  
Steam and Hot Water Engineers,  
1514-1520 S. Ninth St., Philadelphia.  
When Writing Mention Florists' Exchange

ture sense. The small outdoor growth  
made means smaller stock than com-  
mon now, but in general it is in good  
condition, an entire middle bench of Ge-  
nie shows growth and size improved  
over those seen at the originators—Har-  
mon and DeWitt.

A house of violets, long bedded in  
looks fine, the plants flowering freely.  
Another house of the same form was  
already cropped in goodly numbers, and  
very fair quality.

T. A. Webb's carnation stocks look bet-  
ter than even the middle bench of Ge-  
nie. They are in goodly numbers, and  
very fair quality.

In seedling carnations a red that has  
been tried for some years gives good  
promise of desired qualities. He also  
shows a white sport of Beyruth that  
inclines to hold its character. The chry-  
santhemums here are this year truly a  
nice lot for commercial growers, and  
good assortment in new and leading  
kinds.

**Utica, N. Y.**  
Roses at Peter Crowe's are looking  
very well. The number cut thus far  
has been large considering the extent of  
the houses. Solid beds are here consid-  
ered the best, while the general proprie-  
tor could not doubt give some points on  
mixtures to the scientific chap.

A good-sized house of Adiantum canu-  
tum, grown for cutting, is a feature,  
while perhaps more interesting is a vari-  
ety originating here that possesses dis-  
tinctive qualities of merit. Its gracefully  
shaped and larger fronds are an im-  
provement over those of the conventional  
and with a pleasing tint of pink in its  
younger growth, one inclines to believe it  
a coming standard variety. It has been  
named Bardil in honor of Robert Bard,  
of Syracuse.

George considers Alaska carnation  
a standard for quantity of bloom. He is  
well pleased with Figure and Lily Bean,  
and a leading here, but the originators of  
George shows promises of merit in that  
variety. S. Morello looks fair.

C. F. Baker's new carnations, Oneida,  
a shell-tinted or salmon-pink, and Red  
Jacket, a red, are to be sent out this  
season, and will no doubt merit a large  
share of attention. The former undoubt-  
edly is an acquisition that must meet  
with favor, while the latter looks as  
though it need not occupy a back place.  
This, Mr. Baker says, is the sliding down  
from over 3,000 seedlings of some years  
ago. Besides a miscellaneous stock for  
the retail trade, that of young ferns in  
this season, and was recently offered in  
and was assumed goodly proportions.

Mrs. Matthews rebuilt his older variety,  
and it is now occupied with roses, or cut  
blooms, which class of flowers, and also  
carnations, is being given more attention  
than formerly. A live interest in this  
of the best specialty, orchids, still per-  
sists in this city. A bench of  
chrysanthemums shows good culture.

Butted Glass

This is no longer an experiment. It has come to stay.  
There are various ways of making Butted Roof, but  
the best way is with the

**Clipper Bar.**

With this bar you can make a roof that is absolutely fire-  
proof, and glass cannot be torn out by the wind. Butted  
glass is a light roof, a warm house and saves fuel. It  
lasts longer, looks better and costs less than the old-fashioned  
roof. It is so simple that any one can make it. It is not  
it is not; we furnish what people want as there is nothing  
in greenhouse material that you can't get from us, and all  
of our patented Express clear of freight, stained glass,  
knobs and all other defects.

**LOCKLAND LUMBER CO.**  
LOCKLAND, O.

Write for Circulars  
or Estimates.

**EVERY FLORIST OUGHT TO  
INSURE HIS GLASS AGAINST  
FIRE.**  
For particulars address  
**JOHN G. ESLEK, Sec'y, Saddle River, N.J.**  
When Writing Mention Florists' Exchange

**SUMMER IN WINTER**  
By Using  
**Standard Greenhouse Boilers**  
One cent gets our Catalogue.

**GIBLIN & CO., - Utica, N. Y.**  
When Writing Mention Florists' Exchange

**MASTICA**  
For Glazing Greenhouses, A sub-  
stitute for putty. Superior in every way.  
**MASTICA & MASTIC GLAZING  
MACHINES** were given Highest Award of  
U. S. F. at Philadelphia. Address for circular,  
**J. O. PIERCE CO., 170 Fulton St., N. Y.**  
Sole Manufacturers.  
When Writing Mention Florists' Exchange

**IF YOU WANT  
A GOOD SASH LIFT**  
For a Very Little Money Get



For Descriptive Catalogue Send to  
**J. D. CARMODY, Evansville, Ind.**  
When Writing Mention Florists' Exchange

**Y-PRESS**  
GREENHOUSES  
MATERIALS  
OF ALL KINDS  
FOR MANY DESCRIPTIONS

**JOHN C. MONINGER  
CO.**

412 to 422  
HAWTHORNE AVE.  
CHICAGO, ILL.

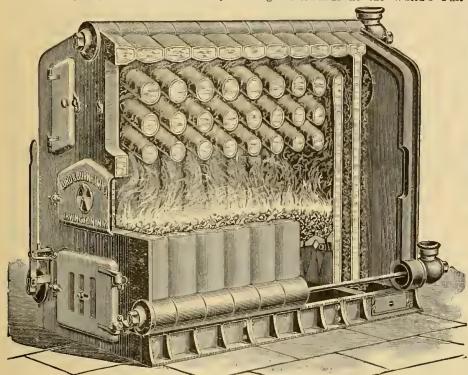
When Writing Mention Florists' Exchange

**LORD & BURNHAM CO.,**

Horticultural Architects and Builders and Manufacturers of Heating and Ventilating Apparatus.

(Established 1864.)

Plans and estimates furnished on application for Heating and Ventilating Apparatus erected complete, or for material only. Highest Awards at the World's Fair



NEW SECTIONAL HOT WATER HEATER.

Specially adapted to large ranges. Will heat up to 16,500 feet of glass. Highest economy. Moderate cost. Also heaters for smaller work. Send six cents postage to New York office for latest catalogue of Heating and Ventilating Apparatus.

NEW YORK OFFICE:  
160 FIFTH AVE., COR. 21ST ST.

GENERAL OFFICE AND WORKS:  
IRVINGTON-ON-HUDSON, N. Y.

When Writing Mention Florists' Exchange

**CYPRESS**  
IS MUCH MORE DURABLE THAN PINE.

**CYPRESS SASH BARS**  
UP TO 32 FEET IN LENGTH OR LONGER.

**GREENHOUSE AND OTHER BUILDING MATERIAL.**

Send for our Illustrated Book "CYPRESS LUMBER AND ITS USES." Send for our Special Greenhouse Circular.

**THE A. T. STEARNS LUMBER CO.**  
NEWBURY, BOSTON, MASS.

When Writing Mention Florists' Exchange



**Branes Improved Challenge.**

Roller bearing self-setting device, automatic stop, solid link chain makes the IMPROVED CHALLENGE the most perfect apparatus on the market.

Write for catalogue and prices before placing your order elsewhere.

**Quaker City Machine Co.,**  
RICHMOND, IND.

When Writing Mention Florists' Exchange

**VALVES AND FITTINGS**  
For Pipe and Tapping.

**VENTILATING APPARATUS.**

**COLDWELL WILCOX CO.,**  
Newburgh, N. Y.

SEND FOR CATALOGUE  
Mention paper.

**DON'T SYRINGE WITH COLD WATER**

It lowers the vitality of your Stock, but write for particulars of my Tempering Apparatus.

**HENRY W. GIBBONS,** 134 LIBERTY STREET, NEW YORK.

When Writing Mention Florists' Exchange

**TILE DRAINED LAND** is the simplest, easiest worked and most productive land. By means of this you get rid of the surplus water and admit the air to the soil.

**ROUND TILE DRAIN TILE** meets every requirement. Make also Sewer Pipe, Red and Fire Brick, Chimney Tops, Fireproof Side Walk Tile, etc. Write for what you want and prices. JOHN H. JACKSON, 11-13rd Ave. Albany, N.Y.

When Writing Mention Florists' Exchange

**PIPE VALVES**

Wrought Iron Pipe, Valves, Oocks, Fittings, etc., for Steam and Hot Water; Rubber Hose, Pumps and Well Points.

**WM. H. KAY,** 42 Day St., New York.

When Writing Mention Florists' Exchange

SEND FOR OUR NEW CATALOGUE, WHICH SHOWS

**The New Automatic Cable Ventilator**

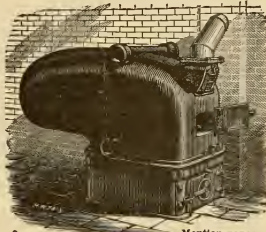
As it is put up in the house complete. We also give you prices with a guarantee that each machine sent out will operate your house successfully. Both machines are made in two sizes.

**A. G. WOLF & BRO.,** Dayton, Ohio.

When Writing Mention Florists' Exchange

**GREENHOUSE HEATING AND VENTILATING,**

Horticultural Architecture and Building.



Mention paper

SEND 4c. POSTAGE FOR ILLUSTRATED CATALOGUE.  
When Writing Mention Florists' Exchange

**Hitchings & Co**

ESTABLISHED 1844.

233 Mercer Street, NEW YORK.

FIVE PATTERNS OF BOILERS,  
NINETEEN SIZES.

Perfect Sash Raising Apparatus.

Rosehouses, Greenhouses, Etc., of Iron Frame Construction erected complete or the Structural Iron Work shipped ready for erection.

Iron Frame Benches with the "Perfect Drainage Bench Tile" or Slate Tops.

**WHAT WE KNOW**

When Writing Mention Florists' Exchange

**ABOUT GLASS.**  
Send for them.  
**JOHN LUCAS & CO.**  
PHILADELPHIA.

FOR GREENHOUSES, CONSERVATORIES, GRAPERIES, HOTBEDS AND FLORISTS' USE GENERALLY, AT LOWEST RATES.

**GLASS**

L. HARRIS & SON.

437 W. BROADWAY, NEW YORK,  
3rd, 4th, 5th and 6th Floor.

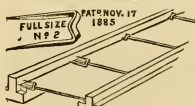
80 LIBERTY ST., NEW YORK  
2d, Broadway and Chatham Sts.

**GLASS!**

For Greenhouses, Conservatories, Graperies, Hotbeds and all other purposes, at Lowest Rates.

**GLASS!**

**N. COWEN'S SON, 392 & 394 West Broadway, New York,**  
Formerly 164 and 156 So. Fifth Avenue.  
Get our Figures before buying Glass. Estimates Freely Given  
When Writing Mention Florists' Exchange



FULL SIZE PAT. NOV. 17 1885  
No. 2

**THE VAN REYPER**

**PERFECT GLAZIERS' POINTS**

No rights or lefts. Price per box of 1000, 60c, by mail, 75c.; in lots of 5000 by ex., 85c. per 1000

**HENRY A. GREER, 714 Chestnut St., Phila., Pa.**

When Writing Mention Florists' Exchange

**CALIFORNIA RED CEDAR**  
Never Decays.

**A. DIETSCHE & CO. 618 Sheffield Avenue, CHICAGO.**

MANUFACTURERS OF  
RED CEDAR AND CYPRESS GREENHOUSE MATERIAL.

When Writing Mention Florists' Exchange

**STANDARD VENTILATING MACHINE.**

NONE EQUAL IT IN Strength AND Durability

NOTHING Flimsy OR Complicated about it.

Send for Catalogue.  
**E. HIPPARD, YOUNGSTOWN, OHIO.**  
When Writing Mention Florists' Exchange

**TRADE GREENHOUSES.**  
THE BEST MADE.

"Florists" Get Your Plans and Estimate from  
**PLENTY'S HORTICULTURAL WORKS,**  
148-156 Randolph Ave., JERSEY CITY, N.J.  
When Writing Mention Florists' Exchange

**J. K. ALLEN,**  
Wholesale Commission Dealer in  
**CUT FLOWERS,**  
57 W. 29th St., New York.  
Orders by mail or otherwise promptly attended to.  
Telephone Call, 353 38th St.  
ROSES AND VIOLETS SPECIALITIES.

**W. S. ALLEN,**  
17 West 28th St., New York.  
Correspondence Solicited.

**J. B. EZEHEL,**  
Wholesale Florist,  
42 West 28th St., NEW YORK.  
Telephone 3733-18th.  
Asparagus, Vials, Carnations,  
Specialities, Consignments Solicited.

**FORD BROS.,**  
WHOLESALE FLORISTS,  
111 West 30th Street,  
NEW YORK.  
Consignments Solicited. Telephone 522 32nd St.

**WM. H. GUNTHER,**  
Wholesale Florist  
VIOLETS AND CARNATIONS A SPECIALTY.  
Consignments Solicited.  
30 West 29th St., New York.  
Telephone, 229-32th Street.

**MICHAEL A. HART,**  
Wholesale & Commission Florist,  
113 W. 30th St., New York.  
Telephone Call, 1327 38th St.  
All kinds of Roses, Violets and Carnations  
& specialties.  
ORDERS PROMPTLY ATTENDED TO.

**H. A. HOFFMANN,**  
Wholesale Florist  
44 W. 29th St., New York.  
Telephone Call, 1558 38th St.  
American Beauties, White Violets, Adiantums,  
Specialties. CONSIGNMENTS SOLICITED.

**EDWARD C. HORAN,**  
WHOLESALE FLORIST,  
No. 24 W. 29th St., New York.  
The Bride, Merman and American  
Beauty, Specialities.

**J. M. KING,**  
Wholesale Commission Florist,  
45 W. 29th St., NEW YORK CITY.  
Wishes to inform growers and others, that he has  
engaged his place for three times his former size,  
and is now able to handle a much larger quantity  
of stock than before.  
CONSIGNMENTS SOLICITED.  
Telephone 1675-28.

**JULIUS LANG,**  
Wholesale Florist  
53 WEST 30th ST.,  
Consignments Solicited. NEW YORK.  
When Writing Mention Florists' Exchange

WHOLESALE FLORISTS.

**ERNST G. ASMUS**

ROSE SPECIALITIES.

Am. Beauty, Free Carnot, Bride, Merman, Cusht, Telecton.

K. A. Victoria

VIOLETS, ORCHIDS, CHRYSANTHEMUMS AND CARNATIONS.

Grower of the only VALLEY receiving a World's Fair Medal.

Special attention given to shipping orders. 112-114 W. 24th St., N.Y.

When Writing Mention Florists' Exchange

PRICE LIST MAILED ON APPLICATION

A. L. VAUGHAN. CHAS. W. MCKELLAR. E. F. WINTERSON.

**VAUGHAN, MCKELLAR & WINTERSON,**  
**WHOLESALE COMMISSION JOBBERS**  
In Cut Flowers, Plants, Ballo, Seeds, Xmas, Holly, Bouquet Green,  
and all Florists' Supplies. Manufacturers of Wire-work.

45, 47, 49 WABASH AVENUE, CHICAGO, ILL.  
When Writing Mention Florists' Exchange

Wholesale Prices of Cut Flowers

NEW AND VARIETIES.	NEW YORK	BOSTON	PHILADELPHIA	CHICAGO	ST. LOUIS
	Nov. 12, 1897.	Nov. 11, 1897	Nov. 10, 1897	Nov. 10, 1897.	Nov. 11, 1897.
A. Beauty, fancy and special.	5.00 to 25.00	12.00 to 20.00	10.00 to 20.00	10.00 to 25.00	..... to .....
" extra	8.00 to 24.00	6.00 to 10.00	10.00 to 15.00	8.00 to 10.00	..... to .....
" No. 1	3.00 to 10.00	..... to .....	..... to .....	..... to .....	..... to .....
" to Guila and ordinary	..... to .....	..... to .....	..... to .....	..... to .....	..... to .....
Bennett, Dublin.....	25 to 60	..... to .....	..... to .....	..... to .....	..... to .....
Bride.....	25 to 4.00	..... to .....	..... to .....	..... to .....	..... to .....
Bridemaid.....	25 to 4.00	1.00 to 5.00	2.00 to 6.00	1.00 to 3.00	..... to .....
" Free Carnot.....	25 to 1.00	2.00 to 3.00	3.00 to 6.00	4.00 to 8.00	..... to .....
" K. A. Victoria.....	..... to .....	..... to .....	..... to .....	..... to .....	..... to .....
" La France.....	..... to .....	..... to .....	..... to .....	..... to .....	..... to .....
" Merman.....	..... to .....	..... to .....	..... to .....	..... to .....	..... to .....
" Mrs. P. Morgan.....	..... to .....	..... to .....	..... to .....	..... to .....	..... to .....
" Nippon.....	..... to .....	..... to .....	..... to .....	..... to .....	..... to .....
" Pagan.....	..... to .....	..... to .....	..... to .....	..... to .....	..... to .....
" Purple Queen.....	..... to .....	..... to .....	..... to .....	..... to .....	..... to .....
" Rony de Woodton.....	..... to .....	..... to .....	..... to .....	..... to .....	..... to .....
" Scotch.....	..... to .....	..... to .....	..... to .....	..... to .....	..... to .....
" Waterville.....	..... to .....	..... to .....	..... to .....	..... to .....	..... to .....
" White.....	..... to .....	..... to .....	..... to .....	..... to .....	..... to .....
" Adiantum.....	..... to .....	..... to .....	..... to .....	..... to .....	..... to .....
" Aphrodite.....	..... to .....	..... to .....	..... to .....	..... to .....	..... to .....
" Asplenium.....	..... to .....	..... to .....	..... to .....	..... to .....	..... to .....
" Asters.....	..... to .....	..... to .....	..... to .....	..... to .....	..... to .....
" Chrysanthemum.....	..... to .....	..... to .....	..... to .....	..... to .....	..... to .....
" Specials.....	..... to .....	..... to .....	..... to .....	..... to .....	..... to .....
" All colors, inferior grades.....	..... to .....	..... to .....	..... to .....	..... to .....	..... to .....
" Standard.....	..... to .....	..... to .....	..... to .....	..... to .....	..... to .....
" All colors, inferior grades.....	..... to .....	..... to .....	..... to .....	..... to .....	..... to .....
" Fancy.....	..... to .....	..... to .....	..... to .....	..... to .....	..... to .....
" (The highest grade and the best varieties).....	..... to .....	..... to .....	..... to .....	..... to .....	..... to .....
" Yellow.....	..... to .....	..... to .....	..... to .....	..... to .....	..... to .....
" Gattelus.....	..... to .....	..... to .....	..... to .....	..... to .....	..... to .....
" Longifolia.....	..... to .....	..... to .....	..... to .....	..... to .....	..... to .....
" Gladstones.....	..... to .....	..... to .....	..... to .....	..... to .....	..... to .....
" Lilye-Aurum.....	..... to .....	..... to .....	..... to .....	..... to .....	..... to .....
" Lily of the Valley.....	..... to .....	..... to .....	..... to .....	..... to .....	..... to .....
" Monogram.....	..... to .....	..... to .....	..... to .....	..... to .....	..... to .....
" Swell.....	..... to .....	..... to .....	..... to .....	..... to .....	..... to .....
" Violets.....	..... to .....	..... to .....	..... to .....	..... to .....	..... to .....

For Prices of Fancy and Special Stock see our Correspondence Columns.  
Prices are for quantities of one hundred unless otherwise noted.  
Prices quoted above are net prices only after my careful inquiry, and while we do not guarantee their accuracy, they will be found practically correct up to the date mentioned.

**REINBERG BROS.,** Wholesale Growers of Cut Flowers.  
... 500,000 Feet of Glass ...  
We can fill all orders on short notice with all leading varieties of ROSES and CARNATIONS. We are headquarters for fine AMERICAN BEAUTIES. Give us a trial and convince yourself.  
SALESROOM 51 Wabash Avenue, CHICAGO, ILL.  
When Writing Mention Florists' Exchange

**SAMUEL S. PENNOCK,** WHOLESALE FLORIST.  
A fine stock of Roses, Violets, Carnations, Smilax, Etc., coming in, of which we can fill all orders on the shortest notice, and while we do not guarantee their accuracy, they will be found practically correct up to the date mentioned.  
EXTRA FINE STOCK OF BEATIES.  
A choice assortment of CYPRIEDIMUS, \$2.50 per dozen.  
1612-1614 Barker St. Bet. Chestnut & Market St. Philadelphia, Pa.  
Local and Long Distance 'Phone 5210. Open until 9 P. M.  
When Writing Mention Florists' Exchange

**CITY HALL CUT FLOWER MARKET**  
15 Province St. and 9 Chapman Place,  
WELCH BROS. (Long Distance Telephone 2071), Boston, Mass.  
New England headquarters for Choice Chrysanthemums, American Beauties, and other varieties of Roses, Carnations, Violets, etc. Orders can be filled promptly from the produce of sixty-five growers, if not will telegraph.  
Hardy Ferns, Southern Smilax, Galax Leaves, always on hand.  
When Writing Mention Florists' Exchange

**MacDonald & McManus,**  
Wholesale Florists  
AND DEALERS IN  
**CUT FLOWERS.**  
50 W. 30th St., NEW YORK.  
Solicit shipments of Cut Flowers on Commission. Best market prices guaranteed.  
Telephone, 2778-83rd Street.

**FRANK MILLANG,**  
Wholesale Commission Dealer  
...in Cut Flowers....  
408 East 34th St., New York City.  
Cut Flower Exchange. Telephone Call, 104-38th.

**THE NEW YORK CUT FLOWER CO.**  
119-121 West 23rd Street,  
112-114 West 24th Street,  
Telephone 733-128. NEW YORK.  
CONSIGNMENTS SOLICITED.  
Special Attention Given to Shipping Orders.

**F. A. ROLKER,**  
WHOLESALE DEALER IN  
**CUT FLOWERS**  
53 West 28th Street,  
Telephone 2379 38th St. NEW YORK.

**W. F. SHERIDAN**  
Wholesale Commission Dealer in  
**CUT FLOWERS**  
39 West 28th St., New York.  
Telephone, 241-38th St.  
PRICE LIST SENT ON APPLICATION.

**FRANK H. TARDY, CHARLES SCIENCE,**  
**TRAENDLY & SCHENCK,**  
Wholesale Florists,  
38 W. 28th St. and CUT FLOWER EXCHANGE,  
NEW YORK.  
Telephone 981-38th St.  
"Consignments Solicited"

**JOHN YOUNG,**  
Wholesale Florist,  
51 WEST 25th ST.,  
NEW YORK.

**KENNIGOTT BROS. COMPANY,**  
Wholesale - Cut - Flowers,  
88 Wabash Avenue,  
CHICAGO, ILL.  
WIRE WORK A SPECIALTY.

**ROGERS PARK FLORAL CO.,**  
Wholesale Growers of Cut Flowers  
OFFICE AND SALESROOM,  
41 WABASH AVE., CHICAGO.  
Headquarters for AMERICAN BEAUTIES.

**ILLINOIS CUT FLOWER CO.,**  
J. B. DEAMUD, MANAGER.  
Wholesale Commission Florists,  
51 Wabash Ave., - CHICAGO.  
When Writing Mention Florists' Exchange

**Wholesale Florists** **JOBBERS IN**  
*Advantage of Hand.*  
**FLORIST'S SUPPLIES.**  
*Gifts, Baskets, Boxes.*  
**FLORISTS' VASES.**  
*Horticultural Auctioneers.*  
**64 HAWLEY STREET, - BOSTON.**

**S. FROWERT,**  
**Wholesale Florist,**  
 17 North 13th Street,  
 PHILADELPHIA, PA.  
 Consignments Solicited. Special Attention Given to Shipping Orders.

**MAX RUDOLPH,**  
**Wholesale Florist**  
 All Seasonable **CUT FLOWERS.**  
**FINE ROSES.**  
 Shipping orders a specialty. Consignments solicited.  
 11 W. 12th St., CINCINNATI, O.

**HEADQUARTERS** In Western New York. Try us  
**ROSES, CARNATIONS and ALL SEASONABLE FLOWERS.**  
**WM. F. KASTING,** Wholesale Commission Florist  
 488 Washington Street,  
 BUFFALO, N. Y.  
*Also Dealer in Florists' Supplies & Wire Designs*

**GEO. A. SUTHERLAND,**  
 SUCCESSION TO WM. J. STEWART,  
**CUT FLOWERS and Florists' SUPPLIES**  
**WHOLESALE.**  
 67 Bromfield St., Boston, Mass.

**EDWARD REID,**  
**Wholesale Florist**  
 1526 RANSTAD STREET,  
 Bet. Market & Chestnut Sts., PHILADELPHIA.  
**ALL CUT FLOWERS** in Season.  
 \*Phone 3366 A.

**H. L. SUNDERBRUCH CO.,**  
**Wholesale Commission Florists,**  
 4th and Walnut Streets,  
 CINCINNATI, OHIO.  
 Consignments Solicited. Special Attention Given to Shipping Orders.

**St. Louis**  
**Cut Flower Co.**  
**WHOLESALE FLORISTS,**  
 1620 Olive St.  
 ST. LOUIS, MO.

**WM. J. BAKER,**  
**Wholesale Florist**  
 1432 So. Penn Square,  
 Philadelphia, Pa.

**WM. C. SMITH,**  
**Wholesale Florist,**  
 40 S. 16TH ST.,  
 PHILADELPHIA, PA.  
 Roses, Carnations, etc. Consignments Solicited.

**C. A. KUEHN,**  
**WHOLESALE FLORIST,**  
 1122 Pine St., St. Louis, Mo.  
 A COMPLETE LINE OF WIRE DESIGNS.

**E. G. HILL & CO.,**  
**Wholesale Florists,**  
 RICHMOND, INDIANA.

**DUMONT & CO.,**  
**WHOLESALE FLORISTS**  
 CARNATIONS A SPECIALTY.  
 No. 1.05 Elbert St., Philadelphia.  
 PHONE 3922 D.

**Buffalo Cut Flower Exchange**  
**WHOLESALE COMMISSION.**  
 CONSIGNMENTS SOLICITED.  
 481 Washington St., BUFFALO, N. Y.  
 Telephone, Seneca, 1365.

**C. W. WORS,**  
**Wholesale Florist,**  
 313 N. LEFFINGWELL AVENUE,  
 ST. LOUIS, MO.  
**FINE ROSES** - Shipped carefully to all parts of the country.

**CHOCOLATE COOLER CO.,**  
**GRAND RAPIDS, MICH.**  
 Manufacturers of  
**FLORIST'S REFRIGERATORS.**  
 Send for Circular.  
 When Writing Mention Florists' Exchange

**Washington.**  
**Chrysanthemum Too Plentiful.**  
 We have had no frost so far, consequently outdoor material is very abundant. Chrysanthemums are about at their best outside. They have done well this season, owing to the favorable weather of the last two months. Cosmos is yet in flower, also marigolds, heliotrope dahlias, geraniums and hosts of other less prominent things. The first killing frosts usually come about the 20th of November. Indoor chrysanthemums are in full blast, everybody commencing their being too plentiful.  
**Flue Store Descriptions.**

... FINEST ...  
**GALAX LEAVES and**  
**LEUCOTHOE SPRAYS.**  
 Green Galax Leaves are now ready to ship. ALWAYS WRITE THE INTRODUCERS.  
**HARLAN P. KELSEY,**  
 1123 Tremont Building, BOSTON, MASS  
 When Writing Mention Florists' Exchange

**HOLLY AND BOUQUET GREEN.**  
 Don't delay. Give us your order now as these special prices will last only a short time.  
 Holly, \$2.50 case. Choice Holly, \$3.00 case.  
 Requested Green, \$2.75 case. Cashamun Moss, 50c. bbl. Green Clump Moss, 75c. bbl. Holly Wreath, Bouquet Green, and Laurel Roping, made at lowest price.  
 Cash with order.  
**A. LUSBY & CO.,** 216 Diamond St., Phila., Pa.

**Galax Leaves.**  
**CHAS. H. RICKSECKER,** Linville, N. C.  
 When Writing Mention Florists' Exchange  
**EVERGREEN**  
 Finest quality.  
 In bulk or by barrel.  
**CHARLES LUOWIG,** Saratoga Springs, N. Y.  
 Greenhouses: Lincoln Avenue, Circular Street, and Grandford Place.  
 Weston American Gardening when you write.

**ASPARAGUS ROOTS**  
 FOR FORCING.  
 Have a large stock of Asparagus Roots, 3 and 4 years' stock; considered large enough for forcing in greenhouses. Cultures, Herb's and Palm-rites. Orders will be booked now for  
**XMAS HOLLY,**  
 December shipment. Prices of the above on application. State quantity desired.

**HARDY FERNS**  
 Evergreens, Hardy Cut Ferns, Laurel and Princess Pine Pestooning Mosses, Wreaths of all kinds, Christmas Trees, etc. Lower prices always for First Quality Goods. Write for prices on all goods desired. 27 Beacon St., Boston, Mass. Home Office, Millington, Mass. When Writing Mention Florists' Exchange

**CHRISTMAS TREES!**  
 Small or large lots.  
 BOUQUET GREEN, best quality, in sacks or in roping.  
 HARDY CUT FERNS, year-per tree. All orders by mail or by dispatch promptly attended to.  
**THOMAS COLLINS,**  
 Hinsdale, Mass.  
 When Writing Mention Florists' Exchange

**ASPARAGUS PLUMOSUS NANUS,**  
**W. H. ELLIOTT,** - Brighton, Mass.  
 When Writing Mention Florists' Exchange

Cut Strings, 10 to 12 feet long  
 50 cts. each.  
 Shipped to any part of the country.

**HARDY FERNS**  
**WARRANTED FIRST QUALITY.**  
 SPECIAL ATTENTION PAID TO SUPPLYING WHOLESALE DEALERS.  
 Write for Prices.  
**BOUQUET GREEN, SPHAGNUM MOSS, CHRISTMAS-TREES,**  
 Etc., Etc., Etc.  
**L. B. BRACQUE, - - HINSDALE, MASS.**  
 OLDEST, LARGEST, AND MOST RELIABLE DEALER IN THE UNITED STATES  
 When Writing Mention Florists' Exchange

**HEADQUARTERS**  
 ...OF...  
**PAMPAS PLUMES**  
**CALIFORNIA**  
 Tree and Shrub Seeds, Smilax, Cobaea, Grevillea robusta,  
**PALM SEEDS, Etc.**  
 Ask for Special Prices.  
**GERMAIN FRUIT CO.,** LOS ANGELES CAL.  
 When Writing Mention Florists' Exchange

This is exhibition week with the stores, all of them are dressed a little more than usual. J. H. Small & Sons and the Clark Bros. have elaborate displays of orchids in their windows consisting principally of Dendrobium formosum, gigantheum, D. phalaenopsis, Lelia Arnoldiana, Oncidium Rogersii and several varieties of cattleya. Antennifolius and various of large blooms have been used to bring out some pretty effects.  
 The Guide Brothers have made a wide display of plants, ferns and palms to connect with the greenhouse recently put up. This useful structure is arranged with ferns, palms, ferns and palms. From the roof hang vines of Ussis discolor. In the evening when lit up the effect is pleasing.  
 J. L. Freeman is exhibiting a monster specimen plant in front of his store on Thirteenth street. It is one of the largest seen here. There are no less than 450 good-sized blooms on it. Attached is a label stating particulars as to time of propagation, etc.  
 The Clark Bros. have a fine lot of chrysanthemums which they have succeeded in keeping in a backward state. Some of them look as if they won't be ready to cut for several weeks yet.  
 J. L. Loos' is cutting some elegant cutkays and decorations. He reports a growing demand for these flowers.  
 G. W. OLIVER.

**W. H. ELLIOTT**  
 When Writing Mention Florists' Exchange

**BOUQUET GREENS, WILD SMILAX, IMMORTELES, CAPE FLOWERS, MOSS WREATHS, METAL DESIGNS.**  
 Send for HOLIDAY PRICE LIST Just issued.  
**STUMPP & WALTER CO.,**  
 Formerly with F. E. McALLISTER CO., 50 BARCLAY ST., NEW YORK.

**HEADQUARTERS**  
 ...OF...  
**PAMPAS PLUMES**  
**CALIFORNIA**  
 Tree and Shrub Seeds, Smilax, Cobaea, Grevillea robusta,  
**PALM SEEDS, Etc.**  
 Ask for Special Prices.  
**GERMAIN FRUIT CO.,** LOS ANGELES CAL.  
 When Writing Mention Florists' Exchange

**W. H. ELLIOTT**  
 When Writing Mention Florists' Exchange

# MESSRS. WM. ELLIOTT & SONS, WILL SELL AT AUCTION,

AT THEIR SALESROOMS,  
54 & 56 DEY STREET, NEW YORK,  
On Tuesday and Friday, Nov. 16 and 19,

A large consignment per S. S. "Rotterdam," consisting of **Hardy Dwarf Tree** and **Christmas Roses, Rhododendrons, Azaleas, Hydrangeas, Herbaceous Paeonies.** Also **Ten (10) Cases of BULBS,** consisting of named **Hyacinths, Tulips, Narcissus, and Roman Hyacinths,** lotted to suit trade buyers.

When Writing Mention Florists' Exchange

WM. J. ELLIOTT, Auctioneer.

## SAVE 50% DUTY

**ON METAL FLORAL DESIGNS** By Buying of the Manufacturer. Also in Largest Stock. Best Goods. Lowest Price. **PREPARED CYCAS PALM LEAVES.**  
**ALL FLORISTS' SUPPLIES SECOND TO NONE. WRITE FOR CATALOGUE.**

**A. HERRMANN.** 404, 406, 408, 410, 412 East 34th Street, NEW YORK CITY.  
Manufacturer of METAL FLORAL DESIGNS, Importer and Dealer in FLORISTS' SUPPLIES.  
When Writing Mention Florists' Exchange

## Florists' Supplies.

Largest Stock in the Country.  
All goods up to date, and of superior quality.  
Write us for price and other information.

**H. BAYERSDORFER & CO.,** PHILADELPHIA, PA  
86 N. FOURTH STREET,  
When Writing Mention Florists' Exchange



**KENTUCKY EXTRACT OF TOBACCO.**  
Is harmless to the Plants.  
Is the Florist's Best Friend.  
**KILLS YOUR BUGS**  
**SURE**  
**In One Fumigation.**  
For free pamphlet write to  
**The Kentucky Extract Co., Columbus, O.**  
FOR SALE BY SEED STORES.

**WE SELL Florists' seeds, BULBS and all SUPPLIES, also Xmas Holly and Green.**  
SEND FOR WHOLESALERS LIST.  
**AUGUST ROLKER & SONS, NEW YORK.**  
32 Bro St. Tel. Call 1789 (retail).  
When Writing Mention Florists' Exchange

**MANURE.**  
Fresh and well rotted horse manure. Manure for Mushroom growing a specialty. Excellent fertilizer for shipping by Penn'a. R. P. & R.; B. & O. and also by Lake, Wm. Abernethy, Room 34, 1215 Fibert Street, Philadelphia, Pa.  
When Writing Mention Florists' Exchange

**NO ADULTERATION. BONE FLOUR NO ACID.**  
Refer to: Fred. Dornan & Sons Co., La Fayette, Ind. John H. Taylor, Bayville, L. I. N. Y.  
A. W. Livingston's Sons, Columbus, O. L. L. May & Co., St. Paul, Minn.  
**Geo. S. Bartlett, SUCCESSOR TO**  
1825-1827 W. 4th Street, CINCINNATI DESICCATING CO.  
CINCINNATI, O.  
When Writing Mention Florists' Exchange

## Standard Flower Pots.

Send for our New Price List with extra discounts. All our Pots, from 7 in. and upwards, have our Patent Escalator Bottom, which is a great advantage, as it insures perfect drainage.  
A FULL LINE OF BULB PANS.  
**THE WHILLDIN POTTERY CO., 713 719 Wharton Street, PHILADELPHIA**  
BRANCH HOUSES: 1 Kearney and Westside Aves. Jersey City, N. J.  
Jackson Ave and Foxson St. Long Island, N. Y.

## FLOWER POTS

We are Manufacturing a Full Line of Standard Flower Pots and Hanging Baskets OF THE BEST QUALITY.  
Shipping Facilities First-Class, thereby insuring Lowest Freight Rates. Our goods are well packed, and breakage is nominal. Give us a trial. Send for Price List.  
address **THE SYRACUSE POTTERY CO., 403 N. SALINA ST., SYRACUSE, N. Y.**

**JADOO**  
FIBRE--Every plant grown in it thrives without earth.  
LIQUID--The best, safest and cheapest Fertilizer sold.  
U. S. Patent and Trade Mark.  
**THE AMERICAN JADOO CO.,** 811 Fairmount Avenue, PHILADELPHIA, PA.  
When Writing Mention Florists' Exchange

**PEAT AND LEAF MOULD,** extra large barrels, \$1.00 each. **6 BARRELS, \$5.00. HARDY PERENNIALS AND SHRUBS.**  
**W. E. HARRISON & CO'S,** Lebanon Springs, N. Y.  
When Writing Mention Florists' Exchange

## STANDARD POTS.

We are now ready to supply a superior quality of Pots in unlimited quantities. Catalogues and price lists furnished on application.

**A. H. HEWS & CO.,** NORTH CAMBRIDGE, - MASS.  
When Writing Mention Florists' Exchange

## STANDARD FLOWER POTS

In any quantity, and of the best quality. Get my price list before ordering elsewhere.

**W. H. ERNEST,** Station M. N. E., WASHINGTON, D. O.  
When Writing Mention Florists' Exchange



**SAVE THE BLOOMS! NIKOTEN**  
DOES NOT INJURE SENSITIVE PLANTS USED FOR FUMIGATION OR SPRAYING, INDOORS OR OUT.  
200 PAGES, 75 CENTS.  
Price \$1.50. ALL SEEDSMEN.

**THE BEST FOR ALL Florists.**  
**ROSE LEAF EXTRACT OF TOBACCO INSECTICIDE**  
FOR SALE BY Seed Stores.  
For Free Pamphlet write to  
**LOBSTVILLE SPRAY GENE FOUNDRY CO.,** Louisville, Ky.  
When Writing Mention Florists' Exchange

## SHEEP MANURE

Cleaned and prepared expressly for florists' use. You will find it the genuine article. For reference to its being first-class I refer you to Henry F. Mitchell, 120 Market Street, Philadelphia, Pa. Price of 150 lb. \$2.50; per ton \$25.00. 1/4 ton on trade. Cash with order.  
**Hermans Range** will be taken in exchange.  
**CODFREY ASCHMANN,** 1012 Ontario St., PHILA., PA.  
When Writing Mention Florists' Exchange

## GENUINE PEAT AND LEAF MOULD

Large Barrels, \$1.00; in 100 lb. lots, at 75 cts. per bbl.; F. O. B.

**JAMES L. REYNOLDS,** Mount Vernon, N. Y.  
When Writing Mention Florists' Exchange

**..Elixir..**  
Fertilizer  
Is a pure natural product and contains no extraneous food for plants.  
We invite comparison with all other FERTILIZERS and will find that you can FREE THE LAND AND MAKE IT MORE TO PROVE IT.  
Send for catalogue  
**Elixir Fertilizer Co.,** Duane Street, New York.  
When Writing Mention Florists' Exchange

**CLEMATIS PANCULATA**  
From \$16.00, \$3.00 per 100. **CLEMATIS FLA-MYRIA**, field-grown, \$5.00 per 100.  
**VARIEGATED VINCAS,** from 4 in. pots, \$2.00 per 100.  
**CALIFORNIA VIOLETS,** field-grown, \$4.00 per 100.  
**C. EISEL,** 11th & Jefferson Sts., Philadelphia, Pa.  
When Writing Mention Florists' Exchange

**LOOK DE YOU WANT A BARGAIN HERE!**  
In rooted cuttings of Geraniums? Then speak to us or you will miss it. **3-cent Grant, \$30 per 1000; Double Grant, \$10.00 per 1000; Orange, \$10.00 per 1000; La Fayette, \$10.00 per 1000, and a few other varieties. Sent at 1000 roots. Extra fine strong Primrose Plants, best strains to be had, ready for 3 and 4 inch pots, \$4 per 100. For 20 weeks out of 75 produce stock.**

**Geo. M. EMMANS,** Newton, N. J.  
When Writing Mention Florists' Exchange

## PANSY PLANTS.

Schmidt's International Mixture of Pansies is the finest in the market, unsurpassed for size, color and blossoming; strong stocky plants, 50c. per 100, by mail; \$5.00 per 100; \$5.00 per 1000, by express.  
Plants in bud and bloom, best colors for cut flowers, \$1.00 per 100.

**J. C. SCHMIDT & CO.,** Bristol, Pa.  
Wholesale Pansy Growers.  
When Writing Mention Florists' Exchange

## Address List ...

The Nursery and Seed Trade Postal and Telegraphic Address List, 1897.

An alphabetical list of the nurserymen, seedsmen, florists, dealers in horticultural sundries, wholesale florists and commission salesmen of the United Kingdom. This book will be found of service to all desiring to establish a trade connection with those on the "other side."  
Price, postpaid, 50 cts.  
**A. T. De La Maza Pig, and Pub. Co. Ltd.,** 2 Duane Street, New York.

**SCOLLY'S IMPROVED PUTTY BULB**  
For Glazing Sash, Etc., - Also the PATENT PLANT SPRINKLER  
For sale by your Seedsmen or sent, postpaid, at \$1.15-00.  
**JOHN A. SCOLLY,** 14 & 70 Myrtle Ave., BROOKLYN, - N. Y.  
SEND STAMP FOR CATALOGUE.  
When Writing Mention Florists' Exchange

**BEFORE BUYING A FUMIGATOR**  
SEE THE ONE WITH  
**WATER TANK**  
ALL SEEDSMEN SELL  
**THE PERFECTION**  
When Writing Mention Florists' Exchange

# THE FLORISTS' EXCHANGE

We are a straight shoot and aim to grow into a vigorous plant.

A WEEKLY MEDIUM OF INTERCHANGE FOR FLORISTS, NURSERYMEN, SEEDSMEN AND THE TRADE IN GENERAL.

VOL. IX. No. 47.

NEW YORK, NOVEMBER 20, 1897.

One Dollar Per Year.

## WE ARE OFFERING AN EXCEEDINGLY FINE LOT OF LARGE SIZED, BUSHY, ARECA LUTESCENS

in the very best possible shape. These plants are fine for decorative purposes. There is nothing better. On account of wishing to give our stock more room than is now possible, we are offering a limited number of these beautiful plants at very low prices. Anyone who has use for plants for decorative purposes will find these Arecae exceptionally good value and very satisfactory both in regard to quality and price.

Fine plants, extra bushy, 8 inch pots, 3	to 3 1/2 ft. high,	\$3.00
" " " " " " " " " " " "	" 3 1/2 to 4	" 4.00
" " " " " " " " " " " "	" 4 to 5	" 5.00
" " " " " " " " " " " "	" 5 to 6	" 6.00

Also a fine lot of smaller plants, 5 inch pots, 2 ft. high, \$1.00; 6 inch pots, 2 1/2 ft. high, \$1.50

## A BARGAIN IN NEPHROLEPIS

Both EXALTATA BOSTONIENSIS (The Boston Fern) and DiVALLOIDES FURGANS.

Fine, large specimens, 10 inch pans, plants 1 1/2 ft. across, \$1.00 each.

Florists will find this very profitable stock, one of the best selling plants that they can handle. If not sold immediately, increases in value very rapidly, is an unequalled house plant, makes a big show for the money.

We would also call attention to our particularly fine stock of *FICUS ELASTICA*, *PANDANUS VEITCHII*, *ARACARIAS*, *KENTIAS*, *LATANIAS*, *ASPARGAGUS PLUMBOSUS NANUS*, *BAY TREES*, etc., etc.

Wholesale list, giving prices of the different sizes of all Palms and other Decorative Plants sent free on application.

## THE NEW PRIZE-WINNING CHRYSANTHEMUM FRANK HARDY THE SENSATION OF THE SEASON.

We are now booking orders at \$3.00 per dozen; \$30.00 per 100. This Chrysanthemum has created a sensation wherever exhibited, as it is the finest introduction of the season. Further than that—as those who have seen it need not be told—it is the finest variety exhibited.

## F. R. PIERSON CO., TARRYTOWN-ON-HUDSON, NEW YORK.

When Writing Mention Florists' Exchange

## ROSE HILL NURSERIES.

THE LARGEST HORTICULTURAL ESTABLISHMENT IN AMERICA.

OUR STOCK IS HOME GROWN. COOL GROWN.

... SPECIALTIES ...

ARECA LUTESCENS . . . . .	LIVISTONA ROTUNDFOLIA . . . . .
COCOS WEDDELIANA . . . . .	PHENIX RUPICOLA . . . . .
KENTIA BELMOREANA . . . . .	PHENIX RECLINATA . . . . .
KENTIA FORSTERIANA . . . . .	PHENIX CANARIENSIS . . . . .
LATANIA BORBONICA . . . . .	DRACÆNAS (in variety) . . . . .
FICUS ELASTICA . . . . .	ARAUCARIA EXCELSA . . . . .
PANDANUS VEITCHII . . . . .	FERNS FOR JARDINIERS . . . . .
FERNS, IN SPECIMENS . . . . .	TREE FERNS . . . . .

The Largest and Finest Collection of

## STOVE GREENHOUSE PLANTS.

If you need anything in the Fancy Line for Private Places, call and see us. Write, telegraph or telephone and our carriage will meet you.

## SIEBRECHT & SON, NEW ROCHELLE, N. Y. NEW YORK OFFICE, 409 5TH AVE.

When Writing Mention Florists' Exchange

FRESH SEEDS OF

## COCOS WEDDELIANA

New Crop Just Received from Brazil.

Price, \$9.50 per 1000 seeds. Special price on lots of 5000 to 20,000.

We Shall Have As Usual Our  
Importation of

## LILY OF THE VALLEY PIPS

the largest, strongest and finest that come to America. We leave them in the ground as long as possible to insure full development.

## J. M. THORBURN & CO.

15 John Street, NEW YORK.

When Writing Mention Florists' Exchange

## XXX HOLLY! JUST ARRIVING.

A CHOICE STOCK OF OUR

"International" Brand

## LILY OF THE VALLEY

PER 100 . . . . .	\$1 35
PER 1000 . . . . .	\$13.75
PER CASE OF 2,500 . . . . .	\$24 00

## TO ARRIVE SOON

Our other brands of this stock, viz:

## "LONDON MARKET,"

The finest pips in existence for early forcing. Per 100, \$1.65; per 1000, \$13.75; per case of 2,500, \$33.75.

## "PREMIUM"

Equal to "London Market," for late forcing. Per 100, \$1.50; per 1000, \$12.25; per case of 2,500, \$30.00.

Our "GET THERE" Holly is still in it. Others say they have "as good as Vaughan's," which means ours is the Standard Time, Quality and Solid Packing; per case, \$100 to \$500.

If you want the smooth-leaved Southern Holly, we can supply it at \$3.50 a case in Chicago.

**HOLLY WREATHS**, extra heavy, 12 inch, \$2.00 per doz.; \$12.50 per 100.

## BOUQUET GREEN.

Now is the time to buy. Write or wire us for the lowest prices, stating quantity required. We are positively right on this.

**EVERGREEN WREATHING**, medium grade, per 100 yds. \$3.60; per 1000 yds. \$25.00. Special prices for quantities.

**WISLETÖE**, very fine, well-berried, \$5.00 a box.

**CAPE FLOWERS**, IMBOR, TELLES, RATTAN, Etc.

When you want Holiday Stock, write or wire us. You will get it.

## 84 & 86 RANDOLPH ST., VAUGHAN'S SEED STORE 14 Barclay St., CHICAGO. NEW YORK.

When Writing Mention Florists' Exchange



# CALCULON

TO THESE PRICES.

Narcissus, Paper White grandiflorus.....	\$1.25	\$1.00
Chionodoxa, in baskets.....	\$3.00	\$2.50
" " Alba Pleno Odonis.....	75	80
Golden Spur.....	75	80
Calla Lilies, extra large per doz.....	\$1.50	\$1.00
Calla Lilies, extra large per doz.....	\$1.50	\$1.00
Freesia Refracta Alba.....	75	80
Hyacinths, R. Roman White, 1 1/2 inch lat size named, each selection.....	50	60
" " Dutch, Roman White, Rose Blue.....	17	20
Tulips, Chrysolinum.....	11	10
" " Crimson King.....	65	45
" " Duc van Thul, seal of.....	115	60
" " Jock van Vondel.....	125	60
" " Immortelle.....	115	60
" " Queen Victoria.....	65	45
" " Rose Grietlein.....	175	100
" " Yellow Prince.....	135	110

WILLIAM ELLIOTT & SONS, 54 and 56 Dey St., New York.

When Writing Mention Florists' Exchange

**W. and D's "SURE CROP"**  
**MUSHROOM SPAWN**  
 HYACINTHS, TULIPS, NARCISSUS, &c., &  
 SPECIAL PRICES TO CLEAR.

WEBER AND SON, Seed Merchants and  
 Growers,  
 114 Chambers St., New York, N. Y.

**CLUCAS & BODDINGTON CO.**  
 Importers, Exporters and Growers' Agents of  
 Plants, Seeds and Bulbs,  
 601 and 603 W. 13th St.,  
 Telephone Call, 403 13th St., NEW YORK CITY

**BARGAINS IN BULBS**

Hyacinths..... Per 1000  
 Roman, 11 1/2 cm..... \$12.00  
 " " 12-15..... 17.50  
 Single Dutch bedding, separate colors  
 forcing..... 23.00  
 " " Named forcing, in pots, 24 size  
 40..... 45.00  
 Lillium Longiflorum, Japan, 6-8 inch..... 18.00  
 " " 7-9..... 7.50  
 Narcissus Trumpet Von Sion..... 8.00  
 Trumpet Prince..... 7.00

**CASH WITH ORDER.**

**BULSEBACH BROS., Englewood, N. J.**  
 When Writing Mention Florists' Exchange

**SEEDS**

**KENTUCKY BLUE GRASS (POA PRATENSIS).**  
**CHAS. E. PRUNTY,**  
 MAIN AND MARKET, SAINT LOUIS.

**JAPAN BULBS** LONGIFLORUM, AURATUM,  
 SPECIOSUM RUBRUM  
 and ALBUM.

Orders sent before **NOVEMBER 10th**, will receive discount of  
 5 per cent. from Catalogue prices, sent for 100 or more.

Also "CALIFORNIA GROWN SEEDS" SWEET PEA, and all other FAVORITE FLOWER SEEDS.  
 Address **H. H. BERGER & CO., St. Paul's Building, 220 Broadway, New York.**

**LILIUM HARRISII,** 5x7, \$20.00 Japan grown 7.50  
 per 1000. **LILIUM LONGIFLORUM,** \$40.00 per 1000.

Roses, hybrid, low-budded, in only the best market varieties.  
 Spiraea Japonica and Compacta Multiflora, just arrived.  
 Lily of the Valley will be in this week.

WRITE FOR LOWEST PRICES IF YOU WANT FINE STOCK.

**F. W. O. SCHMITZ,** - - - - **Jersey City, N. J.**  
 When Writing Mention Florists' Exchange

**GLADIOLI**

**FOR FORCING.**

**SHAKESPEAR,** white..... Per 1000, \$45.00; per 100, \$5.00  
**ISAAC BUCHANAN,** yellow..... 55.00; " 100, 5.50  
**MONSIEUR,** pink..... 10.00; " 1.50  
**WHITE and LIGHT MIXED**..... 25.00; " 3.00

CASH WITH ORDER FROM UNKNOWN CORRESPONDENTS.

**CHAS. H. ALLEN,**  
 FLORAL PARK, (N. Y.)

Mention American Gardening when you write.

**CALLAS** American Bulb Company's SPECIAL  
 LOW OFFER OF FORTNIGHT CALLAS.

**LARGE WHITE,** extra large bulbs, 4 in. and over in  
 circumference, \$3 a 100. 3 1/2 in. and over in circumference, \$5 50 a 100.  
**LITTLE GREEN,** True. Five large bulbs, \$4.00 per 100.  
**BLACKS,** extra large bulbs, \$5.00 per 100.

Special estimates on horticultural stock of all kinds cheerfully made on  
 application.

**AMERICAN BULB COMPANY,**  
 Wholesale Growers and Importers. **SHORT HILLS, N. J.**

When Writing Mention Florists' Exchange

**GLADIOLI BULBS**

White and light, florists' mixture..... \$2.50 \$2.00  
 250 size..... 12.00 10.00  
 25 size..... 7.00 6.00  
 Standard size..... 6.00 5.00

Separate colors, red, pink, white and yellow.  
 Large sized, single colors..... Best kind for  
 florists use, \$1.00. Cash or reference.

**WM. A. FINCH, Hicksville, L. I.**  
 When Writing Mention Florists' Exchange

**SEED TRADE REPORT.**

Possible information on seed trade and all  
 news related in this column, solicited. Address  
 Editor SEED TRADE, care of FLOWERS' EX-  
 CHANGES, P. O. Box 109, New York City.

**AMERICAN SEED TRADE ASSOCIATION.**  
**JEROME B. RUE,** Cambridge, N. Y.,  
 President; **B. CLARK,** Milford, Conn.,  
 1st. Vice-President; **S. F. WILLARD,**  
 Wethersfield, Conn., Secretary and  
 Treasurer.

**BURPEE'S SEEDS**  
**PHILADELPHIA**  
 WHOLESALE PRICES  
 FOR FLORISTS,  
 MARKET GARDENERS

When Writing Mention Florists' Exchange

**HEADQUARTERS FOR**  
**BLACK CALLAS,** all sizes. **CYCLA-  
 MEN,** extra large bulbs \$3.00 per 100.  
**OXALIS,** choice mixed, 40 cts. per 100.  
**LILIUM LONGIFLORUM,** 5-7 per 100,  
 \$10.00; 7-9 per 100, \$3.75; 9-10 per 100, \$3.75.

**H. B. FAUST & CO., Philadelphia, Pa.**  
 When Writing Mention Florists' Exchange

**WALL**  
 Seed. FRESH ON HAND

Cocoas Weddellans \$10 \$100 \$200  
 Almas Ensel..... 1.25 100 75.50  
**J. L. SCHULER, 406-408 Broadway, New York**

When Writing Mention Florists' Exchange

**THE NEW PINK YELLOW DAHLIA,**  
**Clifford's Bloom**

And all the leading new and old  
 Dahlias are now in full bloom on  
 our Dublin farm at Atco, N. J. All  
 interested are cordially invited to  
 visit us and inspect them.

**W. P. PEACOCK, Atco, N. J.**  
 When Writing Mention Florists' Exchange

**40,000 FIELD-CROWN**  
**GERANIUMS**

Labelled true to name, 15 to 20 set year. Great care  
 has been taken in handling and labeling. For sale  
 are all well matured and in excellent condition  
 (condition suitable each variety as A. D. Irving,  
 Golden Buzzer, Nymphs, Fire King, Quaker  
 Gey, Lindbergh, Mrs. Perry, Pearl, Pearl and  
 Gem, Queen Victoria, Fern Leaf, Beauty, Zulu,  
 Fredrick, Zulu, Bird of Paradise, Cigarette,  
 Campbell, Jay, Cow, Snow, Peace, Ariel, etc.  
 Prices from \$1.00 per 100 to \$5.00 per 100. Write  
 for selection in enclosed variety, labeled  
 \$3.00 per 100 and 25 cts. per lot.

**10,000 HARDY PINKS,**  
 8 sorts, 100 plants shown \$3 per 1000, 25 per 100.

**50,000 GERANIUMS,**  
 of 50 varieties, in assortment,  
 labeled true. Brantia, La Favorite, Miranda,  
 etc. \$1.00 per 100, \$2.00 per 500, \$3.00 per  
 1000, by express. Satisfaction guaranteed.

**A. B. DAVIS & SON, Purcellville, Va.**  
 (near Washington, D. C.)  
 When Writing Mention Florists' Exchange

The LONG ISLAND seed growers are  
 very low on their stocks  
 for the winter and the prospects are far  
 better than we had reason to hope for a  
 few weeks ago. The season was one  
 of extremes—first intense heat fol-  
 lowed by an unusual rainy period, which  
 was very destructive to all seed crops,

bringing blight, mildew and rust, then a drought, which made the setting of plants almost an impossibility and was so discouraging to many that not more than a few plants of each variety of cabbage for seed purposes was set. This made a death struggle with the weather. It was not until the favorable weather of the past few weeks had a wonderful effect, and the plants are being put away in a good shape. The output is relatively small, but it is probable that the quantity will be much as usual. What the crop will be a problem. There is but little difficulty in getting over the winter stocks, but the question is as to whether the germs of stem rot are ready for their fatal work. All we can say is that the indications are not so favorable as we could wish.

Onions, both Scotch and Siberian, is looking splendid. The seed was sown much earlier than usual and the plants are strong and healthy. Should the coming season be favorable there will be enormous crops, and this will be necessary to meet the orders now in and for the constantly increasing demand.

The rutabagas are looking well, if anything the roots will be a little larger, with this will be advantageous in the way of selection, the seed crop will not be affected.

The Allias turnip, purple top and white, in an unusual condition, both as regards size and yield. The same may be said of the purple-top Globe, and strap-leaf varieties.

The Fall-sown spinach for next year's seed crop looking well, but the quantity is not so small to figure such as a seed crop.

Among those who have been inspecting the growing crops the past week were W. W. Tracy and son of D. M. Ferry & Co.; Mr. Earl, of W. A. Beebe & Co.; Mr. S. W. Peters of H. J. H. Co.; Mr. J. Wood, of J. M. Thorburn & Co. and S. P. Willard, of Comstock, Ferry & Co., St. Paul, Conn.

**Government Seed Distribution.**—In the report of the Secretary of Agriculture, Hon. James Wilson, for 1937, he mentions the fact that out of the appropriation for the present fiscal year of \$139,000, there must be expended for seeds \$110,000, leaving for the purchase of plants, bulbs, etc., \$29,000. He adds: "The spirit of the law requires that the seeds, plants, bulbs, etc., be rare and valuable. The seeds are being made by the present Secretary of Agriculture to spread the appropriation for seeds, plants, etc., by the same means through agents and representatives abroad, through the various national and international associations. It is desirable that more of the appropriation given for seeds should be available for the introduction of what is new and rare."

Editor Florists' Exchange.

The present position of the free seed distribution by the government calls for some further comment in the United States, as all are so greatly interested in stopping the appropriation. The fact is, certainly, that many of those who say they sincerely desire the appropriation stopped, but they have neither the will nor the means to do so. Some of these seedmen are accusing the committee and the government of inconsistency because they bid to supply the government seeds. The facts are as follows: The appropriation by the government was made, and a large quantity of seeds had to be supplied, and the government had contracted to offer the government seeds, or had obtained from doing so, it would have been probably twenty to thirty thousand dollars more for supplying the seeds. This would have elevated them in position which they present day do not warrant, and the inclination of the larger seedmen would have accomplished good. As a large quantity of seeds had to be bought, it would have been better to refuse to do so, though they object to the distribution. If they had refused would stop the nuisance, they could have been offering seeds to the government, but as it will not, there is no inconsistency in the matter.

Some of the seedmen have worked ardently for the killing of this distribution, and have injured their business thereby, and they have been willing to sacrifice their own interests for the good of all. We ask earnest aid from those who

will work to kill this injurious free distribution of seeds, and request them to write at once to the congressmen and senators who represent their States, pointing out the injury that is being done to the seed trade by this appropriation. Gen. Le Duc said that "Thousands of dollars worth of seeds of some value have passed through the hands of members of Congress, and it is hard to say that not a dozen varieties have been made that have been available by the department as donations." And a recent report of the department states that a review of the department reports during the last year, in which over a million dollars have been expended for the free seed distribution, fails to reveal a single instance of benefit to agriculture attributable to this distribution."

In addition to writing to their representatives, seedmen can aid in bringing influence to bear upon newspapers with whom they have spent such large sums in advertising in the last few years, and which is now curtailed through the benevolent appropriation. The government is destroying individual enterprise, and teaching the people to depend on the State as a foster mother.

T. Woon, Chairman Seed Trade Committee.

European Notes.

Dry cold weather appears to have fairly set in for the season and the work of drying our seeds is proceeding under much more favorable conditions. As the work proceeds the shortage in Extra Early heads became more apparent. Dirigo, Crosby's and Egyptian are perhaps the worst, but it cannot be said of any variety that the yield is even middling. Cabbages also disappoint us, although we were prepared for very poor yields. Individual enterprises continue to our expectations. The poor crop of onion caused by the ravages of the disease has occasioned an advance in price, which at one time seemed hardly credible. There will be quite enough seed to supply the market, but it is hard to make quite such ruinous conditions as last year.

The crop of onion bulbs this year is a poor one, but as prices are low, growers may prefer to plant them now, and in that case prices will drop. This season's level of cleaning up the aster crop are now fairly well known. While the yield is only moderate the large stocks left over from last year have cut prices down to about last year's level. As this, in the case of growers who take proper care of their crops, means with very little loss, there are rumors that next year's plantings will be on a less extensive scale. EUROPEAN EDITOR.

St. Joseph, Mo.

The Chrysanthemum shows of which there are three, are all full, with at the City Park there is a fine assortment of recent introductions, and Mr. Ruft, who has charge of the garden, is busy selecting for his display. J. N. Kidd also makes grand display. He shows two-and-a-half foot plants with 250 flowers, and from 150 to 200 well-developed blooms on each; also a plant of M. Hoyer with 150 flowers, four feet through, with 250 flowers. This plant was given to the most popular unmarried lady in the city. A wedding table decoration consisted of Farleye's ferns and Brunialti roses, fully 150 plants were exhibited by Mr. Kidd, who, with his foreman, E. D. Ellsworth, has done much to advance the queen of Autumn. Messrs. Krauma & Son's display of blooms attracted many visitors and his American friends were much admired. Phillip Henschel has added two houses to his range.

Various reports speak favorably of business in general.

**PEACH AND PLUM TREES.** **FOR FALL.** Reliable and clean stock. **DELIVERED 1937.** All desirable seedling varieties of PEACHES, and new in fruiting orchards. Best Triumph, Greenbush, and Sweet fruiting. Includes an English in season at low rates. Very large stock of PLUM TREES all on plum roots, one and two years, plants of all sizes, these also, either from NURSERY OR ORCHARD trees. Includes also a large stock of Japanese varieties. Burbank, Chabot, Sasama, Willard all others; also a large stock of PEACHES. Write for list. (Small supply also of ASPERAGUS roots to offer ALEXANDER PULLEN, Milford Nurseries, Milford, Del. When Writing Mention Florists' Exchange

**PRIVET.** California Privet, extra fine plant at low rates. Prices given on application.

**HYDRANCEA OTAKSA,** strong plants for forcing, 8 ets. and 15 cts.  
**AMPELOPUS VEITCHII,** field-grown, very heavy. Prices on application.

**THE ELIZABETH NURSERY COMPANY,** - Elizabeth, N. J.  
When Writing Mention Florists' Exchange

**F. & F. NURSERIES,** SPRINGFIELD, NEW JERSEY.

Our Specialties this Season: PEACH, Plum, Japan Walnut and Shade Trees.  
**California PRIVET and Shrubbery.** Stock good and prices right. . . . .  
When Writing Mention Florists' Exchange

**GALFAS.** Philadelphia, best red. Maiden's Bush, best pink. Alsace, best white.  
Fine plants **SPICE ANTHONY WATERER LOGANBERRY TIPS.** Ask for prices.  
**THE CONARD & JONES CO. WEST GROVE, PA.**  
When Writing Mention Florists' Exchange

**Large Stocks of Choice Seedling Plants**  
**WHICH WE WISH TO CLEAR OFF THIS FALL.**

- 75,000 PRIVET CALIFORNIA . . . 2 to 3 ft. 3,500 MAPLES, Silver . . . 10 to 14 ft.
- 15,000 ASH, White . . . . . 10 to 12 ft. 10,000 APPLES, good sorts . . . 6 to 8 ft.
- 20,000 MAPLES, Norway . . . 10 to 12 ft.

WE HAVE A FULL LINE OF NURSERY STOCK IN GENERAL OF FRUIT, SHADE AND ORNAMENTAL TREES AND SHRUBBERY.  
SEND FOR PRICE LIST.

**C. BBSMAN & SONS, Trenton, N. J.**  
NURSERY 10 MINUTES FROM DEPOT.  
When Writing Mention Florists' Exchange

**WALLEYS!** True Berlin and Hamburg Pils. All quality, and very evenly assorted, at import prices, in case lots only  
**J. L. SCHILLER, 404 E. 34th St., New York**  
Sole Agent for F. C. Pommerle, Hamburg.  
When Writing Mention Florists' Exchange

**LETTUCE PLANTS.** Fine transplanted, true, Grand Rapids Lettuce plants, 20c per 100; \$2.50 per 1000. Cash with order.  
**A. B. BALDWIN, Newark, O.**  
When Writing Mention Florists' Exchange

**SEEDLINGS AND PLANTS.** of Apple, Cherry, Pear and Plum.  
**APPLE CRAFTS**  
Low Prices. Send List of Wants to  
**D. S. LAKE, Shenandoah, Iowa.**  
When Writing Mention Florists' Exchange

**JACKSON & PERKINS CO., NEWARK, N. J.**

Have to offer for season of 1937, 98 a choice assortment of Field-grown Roses, early and mid varieties—Doronic, Ornamental Shrubs, and Trees, Fruit Trees and Small Fruit Plants.  
**WRITE FOR PRICE LIST.**  
When Writing Mention Florists' Exchange

**LARGE-FLOWERING SEEDLINGS.**

Strong, one year old-grown plants of all the leading varieties, at \$15.00 per 100.  
**GEORGE BROS., East Penfield, N. Y.**  
When Writing Mention Florists' Exchange

**P. OUWERKERK,** 1123 Summit Ave., Jersey City, N. J.  
Just received from our Holland Nurseries:

- RHOODENDRONS, AZALEAS,
  - SPIREA JAPONICA, LILYUM SPECIOSUM,
  - PAEONIES, BLEUING HEART,
  - POT GROWN LILACS, HYDRANGEA IN SORTS.
  - CLEMATIS and H. P. ROSES, in the best sorts.
  - PRICES MODERATE.
- When Writing Mention Florists' Exchange

When Writing Mention Florists' Exchange

**WORCESTER, MASS., SHOW.**

The annual show of the Worcester Horticultural Society was equal to its predecessors.

The principal exhibitors were F. A. Blake, H. F. A. Lange, W. E. Sargent, C. D. Thayer, Moses Birge, Orpet of Lancaster, W. J. Wood, Mrs. Austin Ward, A. Roper, of Tewksbury, and Fred Medans, George McWilliams, of Whitinsville, was judge.

Mr. Lange filled the platform with a beautiful exhibit of palms and decorative plants. Mr. Blake's display of anemones occupied a place near the platform and was greatly admired.

One of the most beautiful exhibits in the hall was that in the class calling for 12 cut blooms. The first two were those of Mr. Lange and C. D. Thayer. In Mr. Thayer's were grand blooms of Mrs. P. Fevkes and Major Tompdon. These were especially large and their deep yellow color was particularly noticeable.

Two rows of cuttings were best, those of C. W. Ward, of Queens, N. Y., had a large collection, comprising an immense Mrs. M. Brad's and a number of other cuttings over three inches in diameter; a beautiful pink variety, C. A. Dana; Mrs. Jerome Perrin's white and pink.

One of the most beautiful blooms of a dark pink color, was C. A. Blake exhibited the C. A. Dana; Freedom, a white bloom three and a quarter inches in diameter; a seedling called Bon Ton, and a pink seedling which he has obtained by crossing Bon Ton and Lizzie McCowan, Hoyle, of Spencer, also displayed carnations.

Mr. Lange's exhibit of roses was exceedingly beautiful. He showed the Kaiserin Augusta, Victoria, Bridesmaid, Mar, de Waverly, Papa, Frontier and others.

The exhibit of Lady Hume Campbell which was by Mr. McWilliams, was very fine.

The display of chrysanthemums this year was the largest and finest ever seen in this city. One of the members of the Society said that it was easily 50 per cent better than any other display he had seen. The blooms were larger and handsomer and more varieties were shown. One of the beauties of the display was one which was called Red Warrior, a large bloom with reflexed petals, and of a deep terra cotta hue. It was shown by Mr. Lange. For the most part the specimens were of old standard varieties.

One of the premiums awarded F. A. Blake took first for best 12 plants in not over 10-inch pots; first for six plants; for best specimen plant; for best display of not over 25 cut blooms pink; best single blooms white and pink, and the best display of pompons. Mr. Blake was also first for display of carnations.

H. F. A. Lange took first for three plants named varieties: best pink, 25 white, 25 blooms white, 25 blooms yellow, 12 white, 12 yellow, 12 pink, 12 sprays, six cut blooms. The same exhibitor also took first on roses.

William Darling was awarded first for best red variety, Fred Medans for best yellow. They were also winners in other classes.

**Strongest to be got for sprinkling is the "Mum" kind, especially adapted to Chrysanthemums. . .**

**50b., 175 lbs., - 32.50** On Cars 25 to 100 lbs. (bags), - each lib. N. Y. C.

MONEY BACK IF NOT SUIT.

H. A. STOOHPH, 315 MADISON AV., N. Y.

**SPRINGFIELD, MASS., SHOW.**

The Hampden County Horticultural Society held its annual chrysanthemum show November 26. The show was very weather interfered very much with the financial results; it rained the day before, preventing several from putting in plants, and on the day of the opening a heavy rain delayed many. It was a very even exhibition, that is, many of the exhibitors were of equal quality, leaving the judges' decisions to be arrived at by points.

The show as a whole was a very fine display of well-grown blooms. Among the private gardeners John Barr, gardener to Mrs. W. T. Adams, exhibited well known varieties, taking first for 25 cut blooms, in 25 distinct kinds, also for 12 mixed named, vase of 12 pink (Virland Morel) single specimen (Mrs. Jerome Jense); vase of 50 blooms mixed and vase of 25 mixed. Daniel McCreary, gardener to Mr. E. H. Lyman, Northampton, made a good showing of flowering flowers in several classes, taking a goodly share of the prizes.

Of the commercial growers, A. N. Pierson, of Cromwell, Conn., in quantity and quality. His 12 vases of six flowers each were given first; the varieties were: Marie Van der Veldt, white, yellow, red, M. Pullman, Queen, W. H. Lincoln, Major Tompdon, Mrs. Perrin, Emerald, Mrs. Jerome Perrin's white and pink flower, and H. E. Wildner. Several other classes were equally well filled. His vase of 25 single flowers, first prize, was followed by Mrs. A. Blake exhibiting the C. A. Dana; Mrs. Jerome Perrin's white and pink.

Mr. E. H. Howland, of Holyoke, put up the best exhibit he has ever staged; his gardeners, J. C. Smith and P. G. L. F. proud of his efforts. In the class for white, Mr. Howland took first with "The Girl of the Year." Mr. J. C. Howland's general exhibit was a vase of forty single flowers, first prize, a full flower, and in every way a satisfactory variety.

John Coombs, of Hartford, Conn., made a good showing, Queen, Mrs. E. H. Simpson, of Cromwell, Conn., exhibited the best. Mr. Coombs received several prizes.

Specimens were scarce. The specimens from Mrs. B. P. Cheney were as perfect and uniform as possible, taking first. E. J. May, of Holyoke, took first for 6, 12, and 25 single bloom plants, and second for standard. A. Lundsted first for 25 cut blooms; Mrs. C. B. Deane, a professional, Mrs. Justa Spaulding, of Chicopee, took first on three and one bush plant.

The later-style classes were not filled as well as last year, but many of the flowers were of better quality. Mrs. B. P. Cheney (John Barr, gardener) took first for Massachusetts, also the capital prize for New York. Newport took first for Rhode Island; Nathan Smith & Son, Adrian, first for Michigan; and A. N. Pierson, Cromwell, Conn., took first for New Jersey. The flowers staged for the Massachusetts exhibit were: Mrs. Howland, John Barrington, of Hingham, Mass.; Mrs. W. J. Wood, of Ocean; magnificent specimens. Mr. Pierson's state entry was a close second; Mrs. Maged's class, and Mrs. J. W. Boylston, of Boston, took first. The other Massachusetts state exhibit, Philadelphia appeared to best advantage, and Mrs. Jerome Jones and Mrs. Hoyle took in Rhode Island entry.

Several seedlings were entered, although none secured the required 25 points to entitle them to an entry in class 229. Two were granted diplomas; one was a yellow variety, the other an old gold and red marked 83. These were raised, as usual, by the Florida Carnot. American Beauty, Bride and Bridesmaid were as fine flowers as one could wish to see in a class. Mrs. Jones was second with a beautiful display, his Perle being extra fine. The third award for roses display went to John Coombs. Two amateur growers of pansies, A. P. Wade and Geo. Heingenbach, put on exhibition some fine forms for outdoor growing in November.

In violets Mr. Pierson was first on

double blue, and second on single blue. Mr. Pierson was also taking in carnations. From C. W. Ward, the Cottage Gardens, Queens, N. Y., were very fine. Mrs. Jerome Perrin, of Queens, N. Y., Blau, Gold Nugget, and John Young. This latter held better than Flora Hill. Mrs. W. J. Wood was the only exhibitor in this class—Buttercup, Daybreak, F. Mangold, Alaska, and Della Fox were very fine.

In the classes for single variety, H. Groul took all the firsts with his new seedling, Bessie, H. Pierson, of Holyoke, took first in class for single vase, second in two classes with Daybreak and B. J. Shaw; second in another with Anemone. Mr. Groul also secured the first silver cup offered by the Cottage Gardens, Queens, N. Y., for the best new seedling of the variety being grown by Mr. J. Van Alen's gardeners, Arthur B. Huntley, Newport, R. I., sent for exhibition one Begonia semperflorens (Hydris. E. H. Howland had an interesting collection of pompon and stenone lowered.

The following carnations were shown: E. D. Shaw, of Holyoke, arranged two tables with roses, carnations, chrysanthemums, ferns, palms, etc., from Rosemont, for exhibition only. His roses were the advertisement.

An exhibition of carnations from the Garden, South Manchester, Vt., arrived late in the evening of the 26th. They were: Daybreak, Helen Keller, Lizzie Gilbert, and Albertine.

The thirty-fifth year's work of the Hampden County Horticultural Society has been a very successful one, not so financially. It is a question how long to continue these exhibitions, as the money is not sufficient to pay the expenses. It may be well to discontinue them for a time.

The annual meeting of the Hampden County Horticultural Society occurs December 8.

W. F. G.

**WINNERSVILLE, KY., SHOW.**

The eighth annual Chrysanthemum Show of the Kentucky Society of Florists began Saturday morning, October 10, at Lerkranz Hall, under very favorable auspices. The weather was as fine as could be desired. An unusually large attendance on the opening day was the largest at any show yet, and the crowds were dense. The success of the chrysanthemum show this year, the florists are well pleased with the success of the show and are glad the flower-lovers of the State are becoming more and more interested in the plant. They have been busy for a long time with their plants and blooms, and certainly did not neglect their work. Mrs. Wm. Steinhilber was in attendance. Henry Litchfield had charge of the show this year, and the arrangements were very well made. The admission fee was reduced to 10c, and 25c., and that helped to swell the crowds.

The hall was handsomely decorated with palms, flags, and bunting, and the exhibits were the hand placed was a beautiful sight.

The chrysanthemums were grand this year. The exhibitors were particularly pleased to receive a gold medal for the new variety, Pennsylvania. W. T. Bell was selected to give the prize. The exhibitors took much pains this year and arranged their plants with splendid taste. The following exhibitors were present: Messrs. Jacob Schulz, H. Litchfield, and Jos. Coenen.

There were three principal prize winners for roses: For 10 varieties in bush form, Charles Schletter, specimen plant; for the standard, J. C. Smith, and for Jacob Schulz, J. E. Marrett, and F. E. Redmers were also successful exhibitors.

The first prize in chrysanthemums was first, and for single stem plants, Nanz & Neener carried off the premier honors. The same exhibitors were successful in the same classes, being followed by Charles Schletter and J. C. Smith.

Nanz & Neener were first for cut blooms of 10 varieties; J. Schmitz took first for 25 single stems of 10 pink, Nanz & Neener taking the honors for 10 yellow and 10 any other color.

For 25 mixed named, in single vase, the second day for 20 blooms white and same number yellow. Mr. Schmitz captured the prizes for 10 to 20 pink, Charles Schletter, Rasmussen, and E. E. Redmers were also prize winners.

For 10 varieties in blooms all colors, C. Schletter was awarded a special prize for 10 white; J. Coenen & Co. for 10 yellow and 10 any other color. The competition the third day was in roses and carnations. In the latter class Mrs. C. W. Ward, Mrs. Mann, and N. Neener were the successful contestants. For roses, Kleinstarck, Nanz &

Neuner, Buser, Schletter, Reimers, J. E. Neuner, and Jacob Schulz carried off the honors.

The special prize for best collection of carnations was awarded to Nanz & Neener, who also took the premier for best basket American Beauty. Hunt Floral also carried off the honor for best prize for Perle, Meteor, Bridesmaid, and Bidde, but as they failed to send their entry lists the entries were ruled out. They did, however, the first prize on all their roses.

Plants grown to single stems were far better than ever before, and were arranged very artistically. Altogether the show this year has been a most prize for the florists are well pleased with the results.

F. H.

**ST. JOHN'S, B., SHOW.**

The Horticultural Association of St. John held its annual display of chrysanthemums at the Mechanics' Institute assembly rooms on November 4 and 5. As the show was held a week earlier than in previous years, it was a most interesting exhibit to the exhibitors who would have made display had the plants been in fit condition to show. There was a whole sale of one of the two large rooms. The plants were not as fine as usual; but the flowers were excellent, all being fine specimens. Some 250 cut blooms were staged. John Cruikshank made a creditable display of plants. His 30-foot group was tastefully arranged. Some of his blooms were very fine.

Herbert E. Gould of Sussex, also made fine exhibits of cut blooms and plants. He captured all the prizes in plants, there being no competition in this class. Wm. Melatos, gardener to Joseph Allyn, Esq., made a very pretty display of display plants. His 30-foot group was the show.

H. S. Cruikshank made of 25 Vivand-Mordid plants (special mention); they were of large size and superb in color, and were H. E. Gould's vase of 25 Phlaid Blue "City" was a fine specimen.

Mr. Tom McCarthy, of Boston, was a visitor to the show, and said that "our boys had done very well in this class." Mrs. Wm. Melatos, the German street florist, was in attendance, and her blooms at her store; they are a credit to her gardener, Mr. Schmidt.

Mrs. W. H. Jones, of St. John's, exhibited some very fine blooms at her store; they are a credit to her gardener, Mr. Schmidt.

There were some very fine roses, and her horses look promising for a good cut this winter.

KNOX.

**Wilmington, N. C.**

At the chrysanthemum show held here in the Young Men's Christian Association rooms, first prize for the finest display of 10 varieties in vase form, was by Will Reider, as did the prize for the finest display of cut chrysanthemums. The yellow blooms of the finest specimen, chrysanthemums, one or more blooms, was captured by Lat Williams, of Wilson; and the first prize for the finest specimen display of cut and pot flowers and plants by Miss Lucy B. Moore.

They must be fresh to be good, no NICOTINE in dried up kind; nicotine kills Aphids.

Good kind, 75c. per 100 lbs.

Balance Weight 500 lbs. each.

H. A. STOOHPH, 315 MADISON AV., N. Y.





**CARNATIONS.**

In previous writings I have advocated that plants be not copied late in the season, but that they rather be permitted to grow on and bloom if they are inclined to do so, providing the plants have been cut back at least once, and have made several good side growths. After this the plants keep on gaining strength. The side shoots on these first lateral growths are much stronger and better developed in every way than is the case where plants have been cut back before the stems are reached maturity.

This is the very best evidence we can get as to which method causes the greater drain on the plants. Where plants are allowed to bloom, the growth is perfectly natural, there is an equal balance between the foliage and the roots. This balance can be maintained almost indefinitely, so long as the proper balance of cultivation are observed, and precautions taken. If we keep an equal balance between the foliage and roots and furnish all the other necessary requisites such as light, air, moisture, food, etc., in such proportion as will best facilitate growth and perfect development, or as near to that condition as the surrounding influences or state of things will permit, we will be approaching pretty nearly to perfection in cultivation.

But it is not always possible, through conditions that arise, to keep the correct balance between the foliage and the roots. I have learned, however, that the best way to correct this is by the treatment we give our plants just prior to their removal from the field to the pot during the winter.

I do not wish to be understood as advising that all one effort be centered in the one thought of bringing the plants into bloom while they are yet in the field; but that the extent to which the flowers are cut or removed as they open, there is no severe check or shock to the plants, and that the portions cut are in such a manner that the plant in its normal and natural conditions and cultivation will induce. When the plants are being staged and the flowers are cut or removed as they open, there is no severe check or shock to the plants, and that the portions cut are in such a manner that the plant in its normal and natural conditions and cultivation will induce. When the plants are being staged and the flowers are cut or removed as they open, there is no severe check or shock to the plants, and that the portions cut are in such a manner that the plant in its normal and natural conditions and cultivation will induce.

When plants are kept growing in this way and some of the roots are cut, cutting back they often get, they will recover and become established in less time than they would be following a great deal earlier. This is the secret of getting early flowers (if indeed it may be called one). Some may argue, and I believe, do contend that inasmuch as a plant loses a great many of its roots during the winter process, a corresponding amount of foliage can also be removed without injury to the plant, and that this operation will only serve to give the plant a great deal earlier. This is the secret of getting early flowers (if indeed it may be called one). Some may argue, and I believe, do contend that inasmuch as a plant loses a great many of its roots during the winter process, a corresponding amount of foliage can also be removed without injury to the plant, and that this operation will only serve to give the plant a great deal earlier.

My observations have proven conclusively to me that if an error, and instead of equalizing the difference, it causes a still greater one. That when they are brought from the field are fortunate if they do not lose more than one-half of the roots, and that the best way to produce these new roots; and while the plant remains unestablished the drain is simply upon the foliage and substance of the plant, just as it is upon a cutting planted in the sand. If it be healthy and properly matured this drain will not be in excess of what the cutting can stand, but rather there will be enough vitality and strength to spare to permit of its rooting nicely.

This it can be seen that if we rob the plant of its vitality by removing a considerable amount of its foliage, it has a double duty to perform. To first to develop new roots, and secondly enough to enable, and for which Nature has made ample provision. As soon as we remove a portion of the carnation plant's roots and disturb the root to such an extent that their functions are greatly impaired, the drain at once commences upon the plant, and when in connection with the removal of a portion of its foliage, we decrease the plant's vitality and its ability more successfully to with-

stand the shock of transplanting. It is only natural then, that plants so treated require a much longer time in which to become established and produce good flowers than would be the case if no foliage had been removed.

All varieties are subject to this same law, although some (the more rapid growers) will recover in less time than others. Albertini has been doing freely with you for a month past, I am quite sure, however, that this would not be the case had we not brought it to the flowering period by housing time. When we look at things in this light, we can readily understand why some of the late blooming kinds do not compare favorably with the hybrids, or even later. H. WEBER.

**PLANTS and FLOWERS.**

SEEDLING GERANIUMS.—John P. Shelly, Luckhoo, N. Y., sends us some very promising seedling geraniums, with immense trusses and long stems. The colors of the scarlets are intensely brilliant.

ANEMONE CHRYSAETHYMUM.—We have received from Will Rehder, of Wilmington, N. C., a large-flowered anemone of a very pleasing light pink color.

NEGANDIA, Mich.—Thomas Mackenzie has succeeded S. H. Fraser, resigned, in charge of the Negandias, with immense trusses and long stems. The colors of the scarlets are intensely brilliant.

HAVERHILL, MASS.—Wm. Ferguson, of Haverhill, Mass., removes to No. 7 Broadway, this place, where he will grow seedlings on a larger scale than hitherto.

**VIOLETS**

LUCOME, CALIF.—\$3.00 per 100.  
Swanet White, 1.  
Lady Camille, 1.  
The other varieties all \$2.50 per 100.

J. C. SCHMIDT & CO., BRISTOL, PA.  
When Writing Mention Florists' Exchange

**GRALLERT & CO.**

CARNATION GROWERS  
COLMA, SAN MATEO CAL.

When Writing Mention Florists' Exchange

**FIELD-GROWN CARNATIONS**

Good, strong, healthy plants. Write for catalogue and prices. Delivery after Sept. 10th.  
KIDAN AVE. BREEKHOUSES, Danville, Ill.  
When Writing Mention Florists' Exchange

**CARNATIONS**

F. DORNER & SONS CO.,  
La Fayette, Ind.  
When Writing Mention Florists' Exchange

**MORELO**

Field-Grown, at \$1.50 per dozen; \$2.00 per 100.

HOPP & LEMKE,  
Paul Post Office. EAST GRAND RAPIDS, MICH  
When Writing Mention Florists' Exchange

**H. WEBER & SONS,**

**CARNATIONS**  
OAKLAND, MD.

When Writing Mention Florists' Exchange

**HARRISON'S WHITE.**  
**NEW CARNATION.**  
Sport From Wm. Scott.  
ALL LEADING CARNATIONISTS ARE PURCHASERS.  
STRONG, VIGOROUS GROWER, REQUIRING NO SUPPORT.  
Described and Illustrated in Florists' Exchange, Nov. 21, 1896, page 1044.  
Price: \$5 per 100; \$20 per 500; \$40 per 1000.  
Cash or Satisfactory Reference.  
All orders filled in season.  
**JOHN HARRISON,**  
793 Bergen Ave., New Bedford, Mass.  
JERSEY CITY, N. J.  
Take Bayonne or Greenville (from Passaic) R. R. to West at East River.

When Writing Mention Florists' Exchange

**BUSHY FIELD GROWN CARNATIONS**

With plenty of roots. Send for prices.  
GEO. HANGOCK & SON, Grand Haven, Mich.  
When Writing Mention Florists' Exchange

**FIELD GROWN CARNATIONS**

and VIOLETS,  
Ready September 15th.

JOSEPH RENARD, Unionville, Chester Co. Pa.  
When Writing Mention Florists' Exchange

**...BAKER'S...**

**NEW CARNATIONS**

Grown and Tested Five Years.  
**ONEIDA** pure pink, no trace of purple, good grower, compact producer, blooms of large size.  
**RED JACKET** bright red, of largest size, healthy, no severe check, continuous producer, long stiff stems, never burning early.  
**\$10.00 per Hundred.**  
Orders booked now to be shipped in rotation as fast as needed.

CHAS. F. BAKER, Utica, N. Y.  
When Writing Mention Florists' Exchange

**CARNATIONS**

After the early Chrysanthemums are thrown out, many Florists plant carnations. We have a few thousand plants booked in, in the cold houses, suitable for this purpose; they are first-class plants that will set out in the Spring.

800 Grace Wilder 200 Scott  
2000 Silver Spray 600 Escrotout  
1200 Albertini 300 Rosalind  
800 Dean Hole 100 Araselynd  
1500 Portia 100 Mrs. Carnegie

**\$4.00 per 100.**

J. L. DILLON, Bloomsburg, Pa.  
When Writing Mention Florists' Exchange

**Field-Grown Carnations**

FROM COLD FRAMES.  
5000 WM. SCOTT  
200 FISHER \$3.00 per 100.  
1500 McDOWAN, small plants, \$20.00 per 1000.  
1500 TIDAL WAVE, 500 at 1000 rate.

The above named plants are fair size and are clean stock. We ship all of our plants upright and packed in moss.

EDW J. TAYLOR, Carnation Grower,  
SOUTHPORT, CONN.  
When Writing Mention Florists' Exchange



Not an experiment, as they have been in practical use for four years; over one million in use. Endorsed by prominent growers. Made in U.S.A. Valvanized wire, will last a lifetime. Cheapest, most easily adjusted of any on the market.

LENGTH—10, 13, 15, 18 and 20 inches.  
PRICES—per 100, \$1.00; per 500, \$4.00; per 1000, \$7.50; per 5000, \$37.50; per 10000, \$70.00.

**FLORA HILL**—The best white carnation ever put out. Orders booked now for rooted cuttings.

**CARNATION FERTILIZER**—The best carnation fertilizer on the market; polish, use half as much as of sheep manure and get double the results; \$2 per 100 lbs.

**GROUND BONE**—The best and purest. \$1.50 per 100 lbs.; \$5.00 per 500 lb. sample free, postpaid.

H. F. LITTLEFIELD, Worcester, Mass.  
When Writing Mention Florists' Exchange

**20,000 CARNATIONS**

Well-grown Plants  
CHEAP FOR CASH

Alaska, Silver Spray, Hector, Florida, Eldorado, Tidal Wave, Mrs. Wheeler, Wm. Scott, T. Cardigan, A. H. Lousdale, Minnie Cook, Helen Keller, Puritan, A. L. Lamborn, etc. All set out in the Spring.

Della Fox, Emma Woelher, Yellow Jacket, lat size, cash with order, \$4.00 per 100

I study to please every patron, and pack carefully in light boxes. I guarantee entire satisfaction and big value for the money. We have three express companies, Adams, American and United States.

**KIND WORDS NEVER DIE.**

Chas. T. Siebert, Greenboro, N. C., Nov. 10, '96. Dear Sir:—The carnations you sent me arrived on time. I return thanks for the extra, also for your promptness in sending the order, and for not sending me more when I was about it.

Chas. T. Siebert, Montgomery City, Mo., Oct. 28, '97. Dear Sir:—The carnations arrived to-day in the excellent. I am well pleased with them. Thanks for extra. Yours truly, I. W. Hill.

CHAS. T. SIEBERT, Sta. B. Pittsburg, Pa.  
When Writing Mention Florists' Exchange

**LAST... OFFER of AZALEA INDICA**

In the best market varieties. Only a few of each now left in stock. 10-12 in. diameter, \$30.00 per 100; 12-14 in. diameter, \$42.50 per 100; 13-15 in. diameter, \$50 per 100.

...ALSO...

**Spirea Japonica, Spirea Multiflora Compacta,**  
\$3.50 per 100, \$6.00 per 100.

**SPIRÆA ASTILBOIDES FLORIBUNDA,**  
\$6.00 per 100.

**L. C. BOBBINK, - RUTHERFORD, N. J.**

Branch of The Horticultural Company, Boskoop, Holland.

When Writing Mention Florists' Exchange

**AZALEA INDICA.**

Fine shapely plants, well set with buds.

10 to 13 inch crowns ..... \$38.00 per 100.  
12 to 13 " " " " ..... 50.00 " " " "  
13 to 15 " " " " ..... 60.00 " " " "

Order these early and have them shipped by fast freight, saving heavy express charges.

**ASPARACUS PLUMOSA.**

Strong, 3-pale and 3 in. pot plants, \$7 per 100; \$65 per 1000.

**FIGUS ELASTICA.**

A large stock in fine shape, 4 in. pots, \$35 per 100; 5 in. pots, \$45 per 100.

**ARAUCARIA EXCELSA.**

Excellent plants in fine condition.

10 to 12 inches high ..... \$12.00 per doz.  
12 to 15 " " " " ..... 18.00 " " " "  
15 to 18 " " " " ..... 25.00 " " " "

**PALMS.**

A large stock in fine shape, of Kentia Belmoreana and Forsteriana, Areca Intertextans and Litanias. See Special Florists' Trade List No. 5, for sizes and prices.

**THE STORRS & HARRISON CO. Painsville, O.**

When Writing Mention Florists' Exchange

**DREER'S Special Offer Of AZALEAS**



Expected to arrive early in OCTOBER. . . . .  
The Quality this season will be fully equal to what we have sent out for several seasons past, which has given universal satisfaction, which is shown by the greatly increased number of orders already booked.

The Tariff which has been increased to 25 per cent, on this class of stock will not affect the price, as we have been successful in making such arrangements with our Belgian growers (who are among the most successful specialists in this class of plants), which enable us to sell at the same prices as last season.

The Varieties we offer are such only as are known to us as the best suited to the American market, and all are bushy, well shaped plants, well set with buds.

Shipment can be safely made by freight to any part of the country, if orders are placed at once.

10 to 12 inch crowns, bushy and well set ..... \$35.00 per 100  
10 to 12 " " " " " " ..... 40.00 " " " "  
12 to 15 " " " " " " ..... 50.00 " " " "  
13 to 15 " " " " " " ..... 60.00 " " " "  
Specimen Plants, 18 to 24 inches in diameter, \$24.00, \$30.00 and \$36.00 per doz.

**HENRY A. DREER, 714 Chestnut Street, PHILADELPHIA.**  
When Writing Mention Florists' Exchange

**N. Y. GARDENERS' SOCIETY SHOW.**

The exhibition given for charity by the New York Gardeners' Society, under the guidance of eminent horticulturists, was held November 12, 13, 14, in the new ball room of the Waldorf-Astoria. Never before was a flower show held in such palatial quarters, and it would be to the advantage of the flowers and plants to be shown to exhibit in a room of this character, and as such a show is nothing if it be not educational; and the competing exhibits stand out clear so that the interested can find them readily for comparison's sake. Here the surroundings demanded something different, and a pictorial effect was obtained, and as such was a success. The gardener who contributed the whole of the display in the ball room proper deserve commendation for the general excellence of their exhibits. Groups of foliage and decorative plants formed the principal features. Mrs. G. C. Webb, Charles Knight, W. Duckham, and J. McKenzie, were the chief exhibitors in these classes. Chrysanthemum cut blooms were exhibited in fine condition by Peter Duff, gardener to J. Crosby Brown, Esq., Orange, N. J., some of the finest containing Grand Vivand Model, Jennie Falconer, Nivens, and Minerva. W. C. Russell, Millbrook, N. Y., also contributed fine examples of Golden Wedding and others. A comprehensive display, including nearly all the types and forms from pompon to the standard of the class, was here shown. Orchids turned out to be the greatest feature of the entire show. They were superb. For C. G. Roebing, Esq. of Trenton, his grower, Henry Chinkaberry, made a display that was never before seen, both with glory and afforded the public a rare chance to see some of the genus. In the display of cut flowers, Mrs. G. C. Webb and silver medal were gained, there were Cypridium Spiesianum, 10 flowers; C. elegans, 1 flower; C. calceolatum, 1 flower; Charlesworthii, six flowers, a fine type; C. Henry Graves, Jr., one flower; C. cyathophorum, 1 flower; C. heterophyllum, 1 flower; C. Thayerianum, four flowers; C. regale purpureum, five flowers; and some 22 others. Most noticeable, however, was the rare, pale green C. insigne Sanderli, with one expanded bloom and two buds borne on a deliciously healthy and vigorous plant. There were also Vanda Sanderiana, V. suavis, and the beautiful, rare V. tricolor Lawrence.

Despite the emphatic announcements in the daily papers that the show was to be purely an amateur one, and that the trade would not be permitted to exhibit, the schedule called for, and the management solicited growers to compete, and the exhibitors responded, and a fine showing was the result. They were allotted space at the head of the exhibit, and in an adjacent ante-room and without question made the most pleasing part of the exhibition, both for quality and arrangement. There was an exquisite orchid mantle decoration by A. Mauds, also a very group of fancy-leaved caladiums all of high merit. The last named gained the first prize and the orchids second. Arthur Wood, Madison, N. J., being first with a valuable exhibit of Cattleya labiata and Cypridium, and choice plants, including orchids, palms, crotons, ferns, etc. Charles Truman, Hudson, arranged a magnificent group of cyclamen covering more than 50 square feet, many of these plants were exceptionally well-flowered and were of a fine strain.

In competition for the best group of arecarias, John Scott, Keap street greenhouse, Brooklyn, was awarded first. E. T. Pierson of Jersey town, N. Y., being given the second prize. Mr. Scott had much the largest display, and the plants were all of grand quality, making really a handsome and unique exhibit. The same growers met again for the best group of chrysanths. Here the competition was closer, both contestants putting up very valuable lots of plants in a commercial sense. The judges awarded Mr. Scott first, but on what grounds it is hard to determine. As far as we were able to discern, the Pierson Co.'s plants were of a better color and also had the advantage of various sizes and every plant was in a

condition for immediate use as commercial decorative stock, while the first named had the advantage of having been for the most part freshly potted. A freshly-potted plant, of course, is at a disadvantage, and the judges in their phrasology, being "over-hated," meaning that the balance between pot and plant is not equal, and that the men again established fact. However, in this case the gentlemen judging overlooked this fact and not only awarded the prize, but also gave the first prize in the College Point, L. I., was awarded first prize for a display of cut flowers. E. R. Grandt, Co. W. Ward, Queens, L. I., excelled all his competitors in the class and arranging varietals by putting up the grandest lot ever staged by any single exhibitor in this city. The quality of bloom was excellent with the color arrangement perfect. There were in all fifteen cases, the majority of the kinds being new and including Gold Nugget, a rich yellow of great excellence; Mrs. James Beah, a delightful soft pink; Charles A. Dana, another pink of the same character, and New York, a cerise and fine variety. Other excellent kinds were No. 6, 96, bloom and color somewhat resembling New York; Marco, very rich, dark violet color; Jewel Young, a fine white, White Cloud, Glacier also a white. Flora Hill and Mrs. G. M. Bradt were also exhibitors.

C. Besold, Mineola, L. I., exhibited Mr. Jooest carnation and others. Stollery Brook, Long Branch, N. J., sent their new pink carnation Argyle. Hugh Graham & Son, Philadelphia, had an exhibit of their new chrysanthemum Pennsylvania, which was awarded a silver medal. A. Herrington was awarded first prize for the best trade display of chrysanths. Among these was his new variety numms. Among these was his new variety Frank Hardy. A. D. Rose, 100 West Side avenue, Jersey City, and John Lewis Childs, Floral Park, contributed pompon and other chrysanths and G. McWilliam, mignonne; Long's C. Harrell, Summit, N. J., also put up a grand lot of orchids for exhibition only. Among these was noted a remarkably deep-colored Cattleya labiata, so intense was this that a good specimen of the type looked like a red flower.

**SWORD FERNS.**

	Per 100
Neprolepis dispersa, 3 in. to 4 in. . . . .	\$5.00
4 in. to 5 in. . . . .	10.00
5 in. to 6 in. . . . .	15.00
6 in. to 7 in. . . . .	20.00
7 in. to 8 in. . . . .	25.00
8 in. to 9 in. . . . .	30.00
9 in. to 10 in. . . . .	35.00
10 in. to 12 in. . . . .	50.00

Send for Warder's list of "PALMS," etc.

W. J. HESSER, Gardener, Plattsmouth, Neb.

When Writing Mention Florists' Exchange

**Palms! Palms! Palms!**

**PHOENIX REINATA.**

Well established, in 5 and 6 inch pots, ready for 3 inch, 30 to 35 inches high from top of the pot; preferred plants, finest ever offered for the money.

**JUSTIN ST. MARD, Florist,**

SARATOGA NURSERIES,  
Delachaise and Saratoga Sts.,  
NEW ORLEANS, LA.  
West Side Avenue, Jersey City, and John Lewis Childs, Floral Park, N. Y.

**PALMS, Pandanus Veitchii, Ferns and Araucarias,**

IN ANY QUANTITY.  
**JOHN SCOTT,**  
Keap St. Greenhouses, BROOKLYN, N. Y.  
When Writing Mention Florists' Exchange

# UNITED STATES EXOTIC NURSERIES.

American Bulb Company, Proprietors, Short Hills, N. J.

## PALMS AND FERNS FOR FLORISTS.

### IMPORTANT ANNOUNCEMENT!

The famous United States Nurseries (Fitcher & Manda), at Short Hills, N. J., one of the largest horticultural establishments in the world, and favorably known to every florist and gardener in every country of the globe, have been purchased by the **UNITED STATES EXOTIC NURSERIES**, developed exclusively to the growing of **Palms and Ferns for the Trade**. This Department consists of 20 large houses used by Fitcher & Manda for growing exotics. The expert propagators and growers of Fitcher & Manda have been retained by the new proprietors, and all customers may depend upon receiving a high grade of stock.

**UNITED STATES EXOTIC NURSERIES IS THE HOME OF THE BEAUTIFUL, GRACEFUL, FARLEYENSE.**

We have the Finest Stock in the World. Awarded Many Certificates and Diplomas at Exhibitions in this Country and Europe.

**ADIANTUM FARLEYENSE** PLANTS IN PERFECT CONDITION. . . . . 3 inch pots, \$3.00 per dozen. 5 inch pots, \$9.00 per dozen. 7 inch pots, \$25.00 per dozen. 10 inch pans, \$6.00 per dozen.

**ALSO PHILA AUSTRALIS.** A fine hardy Fern for the house. Strong plants, in 3 inch pots, \$1.50 per dozen; \$10.00 per 100.

Wholesale List of **PALMS and FERNS** now on the press. Copies mailed on application.

TRY A CASE OF "A. B. C. BEST BERLIN VALLEY." NOTHING SUPERIOR ON THE MARKET. \$30.00 per case of 2,500 Pips.

## AMERICAN BULB COMPANY, SHORT HILLS, N. J.

U. S. EXOTIC NURSERIES...

When Writing Mention Florists' Exchange

**EVERY FLORIST OUGHT TO INSURE HIS GLASS AGAINST BREAKAGE!**  
For particulars address  
**JOHN G. EISELER, Sec'y, Saddle River, N. J.**  
When Writing Mention Florists' Exchange

**ADIANTUM CUNEATUM...**  
Seedlings, \$1.25 per 100; \$10.00 per 1000  
2 in. Pots, 2.50 " 20.00 "  
3 " 5.00 " 45.00 "  
4 " 8.00 " 70.00 "  
**Adiantum Pubescens,** 2 in. pots, \$2.50  
**Pteris Ovaryoides,** per 100; \$20  
**Pteris Adiantoides,** per 100.  
**THE BOOL FLORAL CO., - - Ihaca, N. Y.**  
When Writing Mention Florists' Exchange

**FERNS.**  
In fine assortment, from  
2 1/2 in. pots, \$3.50 per 100;  
\$30.00 per 1000. . . . .

**CHAS. T. DARLING, Stony Brook, L. I. N. Y.**  
When Writing Mention Florists' Exchange  
**Selaginella Emilian, 2 in.,** \$2.31, \$3 per 100.  
**Lotos Poliorhynchus, 3 in.,** 60c. per doz.  
**Cyperus Alceifolius, 3 in.,** \$3 per 100.  
**Winter flowering Myosotis, Blue Perfection,**  
2 1/2 in., \$3.00 per 100.

**Adiantum Cuneatum and esp. venosum, 3 in.,**  
\$4.00 per 100. Cash with order.  
**JOHN G. EISELER, 20th & Ontario Sts., Phila., Pa.**  
When Writing Mention Florists' Exchange  
**AZALEAS, PALMS. . . . .**  
**ARAUCARIAS, BAY TREES,**  
**BEGONIA and GLOXINIA**  
**BULBS in any quantity.**  
**SANDER, BRUGES, BELGIUM.**  
**A. DIMMOCK, Agent, 60 Vesey St., N. Y.**  
When Writing Mention Florists' Exchange

**NEPHROLEPIS EXALTATA BOSTONIENSIS**  
THE BOSTON FERN. The best house plant yet introduced. 10,000 fine plants from bench for potting at from \$5.00 to \$25.00 per 100. Now ready. Established plants in pots. 5 in. pots, \$4.00 per doz. 8 in. pots, \$5.00 per doz. 7 in. pots, \$15.00 per doz. 8 in. pots, \$34.00 per doz. 10 in. pots, \$38.00 per doz. 8 in. pans, \$2.00 each. 10 in. pans, \$3.00 each.  
SPECIMEN PLANTS. ALL IN FINE SHAPE.  
**L. H. FOSTER, 45 King St., Dorchester, Mass.**  
When Writing Mention Florists' Exchange

Write at Once  
**CORNELIUS S. LODER, Secretary,**  
NATIONAL FLORISTS' BOARD OF TRADE,  
Regarding Collections, Credits, &c. 271 Broadway, N. Y.  
When Writing Mention Florists' Exchange

**PALMS!**  
Send for Price List.  
**JOSEPH HEACOCK,**  
Wyuote, Pa.  
When Writing Mention Florists' Exchange

**JULIUS ROEHR'S,**  
Headquarters for  
**Palms and Decorative Plants,**  
RUTHERFORD, N. J.  
P. O. Address, Carlton Hill, N. J.  
When Writing Mention Florists' Exchange

**Cyperus Alternifolius.**  
2 1/2 in. pots, 40 cts. per doz.; \$2.50 per 100.  
**GREVILLE ROBUSTA,** 2 1/2 in. pots, 40 cts. per doz.; \$2.00 per 100.  
**ASPARAGUS TENUISSIMUS,** 3 in. pots, 50 cts. per doz.; \$5.50 per 100.  
**CALIFORNIA VIOLETS,** field-grown, \$4.00 per 100.  
**CARNATIONS, Mapledale (new),** \$8.00 per 100. Medium sized plants of the following standard varieties, \$4.00 per 100. *Portland, Wm. Scott, Duke Park, The Stuart and Tidal Wave.*  
**NATHAN SMITH & SON, Adrian, Mich.**  
When Writing Mention Florists' Exchange

**FERN PTERIS TREMULA FINE STOCK OF PALMS**  
NOW READY.  
In excellent condition, from 2 1/2 in. pots, 10 to 12 in. high, ready to shift to 4s, \$3.30 per 100; \$30.00 per 1000.  
**R. WITTERSTÄTTER, Sedamsville, Ohio.**  
When Writing Mention Florists' Exchange

**PALMS AND FERNS.**  
The LARGEST STOCK in the West.  
For Prices see October ad.  
**GEO. WITTBOLD, 1708 N. Halsted St., CHICAGO.**  
When Writing Mention Florists' Exchange

**Drive in Ferns**  
We must have Room . . . . .  
2 1/2 inch pots, in 8 varieties, at \$3.50 per 100; \$30.00 per 1000.  
These are as large as many 3 inch ferns and good healthy stock.

**ERICA FRAGRANS** from 50c. up. Specimens over 2 ft. high, about 2 ft. in diam., extra fine.  
**Erica Wilmoreana,** pink trumpet, a grand lot from 60c. up.  
**Cyclamen Persicum Plants** from 25c. We have over 100 large plants with crowns, from 10 to 14 in. across.  
**Azaleas** from \$6.00 per doz. to \$50.00 each, 4 to 6 extra large plants.  
Take trolley car, only 5 cents from Long Island City, to the North Shore Division, College Point, depot opposite my greenhouses.  
Several extra fine **Metrosideros** in bloom also **Chrysanthemums** in pots.  
When Writing Mention Florists' Exchange

**Nephrolepis Exaltata Bostoniensis**  
The Handsomest Decorative Plant in Cultivation.  
\$5.00 per 100; \$40.00 per 1000.  
**MINE IS THE GENUINE STOCK.**  
**FRED. C. BECKER, - - - 1730 Cambridge Street, CAMBRIDGE, MASS.**  
When Writing Mention Florists' Exchange



Reflections on Current Topics.

I have watched with no small interest the working of the new rule, adopted by the Chrysanthemum Society of America at the Providence meeting, governing the giving out of information relative to the awards of medals or certificates, with the effect that scores of points, etc., must be promulgated only through the secretary and the clerks of the Society to detect any advantage resulting from the committees adhering to the wording of the rule, either to the victor or to the exhibitors. On the other hand, conforming to this rule only imposes upon the secretary of the Society, and not upon the exhibitor, to appear to be superficial and unnecessary in view of the magnitude of the work and the committee, which that officer is called upon to make at the end of the season. It is also in drawback to the exhibitors.

I hold that the Chrysanthemum Society of America and the exhibitor stand in the same relation as do any other two contracting parties. For a certain sum the Society obligates itself to give to a certain party, thus for the time being becoming the order of things and the exhibitor (the exhibitor who pays the entry fee). The Society, however, reverses the natural order of things and asks of the exhibitor as to how the transaction shall be effected, withholding from those who exhibit the right of the exhibitor to demand the very information, through which the exhibitor who pays his money for the work done is to be made, and who is thus enabled to his advantage to obtain at the earliest possible moment.

Whatever the Society may do as regards outside parties, it appears to me to be a duty of the exhibitor to give notice to the men who hire his services whenever called upon so to do the result of his work. The exhibitor is equally responsible for it; therefore, why should it be denied them even for an hour or a minute? To deny it to them, and to deny it to one, would, in my opinion, be work well done.

The editor has forwarded to me a very interesting communication by Mr. Henry A. Siebert, relative to the inauguration of the bowling contest at the annual party of the Society. It appears that the game has been played at every convention of the Society, having originated with Mr. Siebert at Cincinnati. This, according to him, is how it came about. At the time of the convention and seeking quiet hour some of the good fellows of Cincinnati, took an excursion to Watkins, N. Y., to a rather primitive summer garden with two bowling alleys, and it was here, where, I think, the first bowling was engaged in by some of the first and old members of the Society. Although no actual record is given, I think it is really the beginning of this now favorite pastime and recreation. There were with me, I remember, the following names: Lonsdale, Craig, Westcott and Evans, of Philadelphia; Walburn and Armstrong, of New York; Orlin and Cull, of N. York; Hunt, Huntsman, and our late lamented friend Harry Sanderberch, of Cincinnati; William Allen, Cook and William Siebert, and C. L. Allen, of New York, and several others from other sections. It was at the first meeting that I bowed and then duty again called us to the convention hall. The last day of the gathering took place at Watkins, N. Y., and I recall that at the time the delegates out of the most enjoyable excursions to the Soldiers' Home at Dayton, Ohio, that has been my pleasure to partake of it all the Society's history, and there, all sorts of games, including bowling, were indulged in so that I think the bowling as a florist game had its inception at this convention. Mr. Orlin was the first to mention the fact that the most ardent advocates of the game were the Dutch and German delegates. I bowed but once since, and that was simply as a substitute or a fill in; and I think that I am fortunate in my own fortunate team to which I was assigned that I have never attempted it again."

I am obliged to Mr. Siebert for the information he gives. I have heard it said that the game was introduced by us, and any one after reading how the delegates sought relaxation from fatigue and mental exertion during the meetings, and the contestants swifter on the alleys, would incline to the belief that the florist was the first to introduce the game. But why was bowling, in preference say to pool, selected as the "florist game?"

I am obliged to Mr. Siebert for the information he gives. I have heard it said that the game was introduced by us, and any one after reading how the delegates sought relaxation from fatigue and mental exertion during the meetings, and the contestants swifter on the alleys, would incline to the belief that the florist was the first to introduce the game. But why was bowling, in preference say to pool, selected as the "florist game?"

SUBSCRIPTIONS:

\$1.00 per year to United States, Canada and Mexico. \$2.00 per year to foreign countries in postal union. Payable in advance. New subscriptions will commence with the first number after receipt unless otherwise directed. Back numbers can be supplied when wanted.

The date on address label shows when the subscription expires and is the subscriber's responsibility. No other receipt is sent.

ADVERTISEMENTS:

Copy must reach this office not later than Thursday in order to secure insertion in issue of the following Saturday. Rate, \$1.00 per line. Special positions for large accounts on contract of one month or longer. Advertisements of unknown parties must be accompanied by cash or satisfactory references.

Exclusively a Trade Paper.

The FLORISTS' EXCHANGE is published in the interests of those commercially identified with the Florist, Seed and Nursery business. New subscribers are requested to enclose business card or other proof of their connection with these trades.

Contents.

CRANSTONS 1055
CHRYSANTHEMUM SOCIETY OF AMERICA 1062
CHRYSANTHEMUM SEEDLINGS 1062
DECORATIONS AT WILMORST-ASTORIA 1062
FLOWER SHOWS: Louisville, Spr. ng. g. John. Wor- 1052
Hartford, Madison, N. J., Providence 1054
Chicago, Toronto 1053
St. Louis Ladies Society 1061
St. Louis 1055
Mrs. Klesio 1062
PLANTS AND FLOWERS 1055
REFLECTIONS ON CURRENT TOPICS 1058
SEED TRADE REPORT 1060
TRADE NOTES: St. Joseph 1051
Chicago, St. Paul 1051
Boston, Chicago, Philadelphia, Spring- 1063
field 1059
New Orleans, Omaha 1058
Pittsburgh, Providence 1063
St. Louis, Cincinnati 1057
Baltimore 1067

The Quarantine embargo on southern greenery, imposed on account of the yellow fever epidemic now been removed. The Seed Trade Committee continues its efforts to make the free seed distribution by the Government, and its members continue to make bids for the contracts to supply the seed.

Secretary Wilson, of the Department of Agriculture in his annual report, suggests that more of the appropriation for seed distribution be made available for the introduction of seeds from new areas.

The plant growers interested in securing Clinton Market, New York, as a permanent plant market, will next meet on December 7, when the committee's report regarding rates, space and other points, will be submitted.

The botanist of the Department of Agriculture, in suggesting permanent trial grounds for seed departments of his report, suggests nothing could more enhance the value of the department's seed trials than a more liberal trial test of the seeds it is proposed to distribute.

Society Meetings.

MISSOURI STATE HORTICULTURAL COURT HOUSE, MOBILE, Mo., December 7, 8, 9, 10. A. Goodman, Westport, Mo., secretary.

KANSAS STATE HORTICULTURAL, at Stone Chamber, Sixty Capital, Topeka, Kan., December 28, 29, 30. William H. Barnes, State House, Topeka, secretary.

New York.

Among the Dry Goods Houses. For the past two weeks there has been a fair-sized chrysanthemum show going on at Wasmanski's. The center display is nearly as large as the show has been filled with pot plants and cut blooms. An even-span stand has been erected in the rear of the show, and is ranged to form a sloping back, while on the top center platform stand vases of cut flowers. It is interesting to note how many blooms and plants were on exhibition; but the firm's advertisement stated that it was the plants that the buyers was good and the plant sizes varied from five-inch pot plants to well-grown specimens of the variety "Mrs. T. G. Moore" of a very high order, and comprised excellent blooms of Eugene, Dahlbonnie, the new variety Ferns-Yvonne, and others. All were correctly and distinctly named. At first sight it seemed as if the firm had made this huge display for show only; but such was not the case. Plants were \$1.25. Specimen cut blooms were sold at 15c, and 25c, each. In another part of the store were found decorative plants exposed for sale, with prices affixed; and a hint to our retail trade to buy plants at these prices before yardage. At a glance the customer could ascertain the total or individual cost of any plants he placed in his basket. For instance, a fine plant of Pandanus in its handsome jardiniere marked \$2.50. A fine plant of Pandanus Vitellii alone was marked \$7.50; a variety of Ferns-Yvonne, a cut run of \$1.00. A fair draecena was marked \$1.50. No particular cut in values was noticed by the exhibitors.

Lecture on Violet Disease. At the meeting of the New Jersey Horticultural Society to be held on Monday evening, December 6, at 8 P. M., in the Opera House, New Jersey, a paper on the violet disease will be read by Dr. Walter Dodge, who has made a bacteriological study of the disease. The paper will be followed by a general discussion on fungoid diseases and remedies.

On Thursday, November 11, the American Bulb Co., purchased from James B. Fitcher all the greenhouse and retail lots of bulbs of the firm of Fitcher & Maada, used by them for growing exotics. This comprises what is known as the "Fitcher lot," consisting of 20,000 plants, 700,000 of glasses. This famous establishment, known all over the world as the "Fitcher lot," has been purchased by the United States Exotic Firm, New York. The specialists of this firm will be in charge of the plants, and special attention being given to Farleyense.

The Permanent Plant Market A representative gathering of market men at the restaurant on Wednesday night last, to discuss the advisability of hiring floor space in Clinton Market for a permanent plant market. John Birnie explained the object of the meeting, having previously presented a plan of the space now available in the building. Fred Lelming was appointed chairman, and J. W. R. Schmitt, secretary. It was unfortunately no one representing the city or market authorities was in attendance, and the discussion was necessarily very enthusiastic discussion of the whole matter, during which it transpired that the plan was adopted to wait until, in the market, a committee consisting of Messrs. John Neel, Chas. Dietz, and C. W. Schmitt, was appointed to wait on the market superintendent and obtain from him full particulars and report at a meeting to be held in the Market place on Tuesday evening, December 1 next. Ex-Alderman Morris was an interested participant in the proceedings, and gave plant growers some very sound advice on different subjects affecting their well-being in the present and prospective revival of trade, and this, as a social feature, is called to do, although there has been some discussion of the various advantages for the week will be higher, more on account of a general falling off in shipments and a corresponding increase in

weddings, funerals, and small dinners and larger out-of-town orders than otherwise. It is thought that this will diminish supply the market was fairer, and dealers were able to clear out without much difficulty. The market for cut roses have improved but slightly in values, and this only in Bride and Bridemaid. The market for cut roses is in demand, and \$3 per dozen was the highest possible figure obtainable for fancy stock. The market for cut roses falling to command half this price, although it is hoped that Friday and Saturday will improve.

Carnations are in better demand and are again up to the \$1 and \$1.50 mark, with white carnations at \$1.85 and a few special making more.

Violets toward the close of the week improved considerably. Monday, Tuesday, and Wednesday there were enough to go around and some to spare, and prices ruled on 50c. to \$1.25. Thursday there was a falling off in shipments, together with an increased demand for the Yale-Princeton football game at New Haven, in anticipation of which many thousands of violets were being received. This combination caused a general advance in price, so that in the evening it was as high as \$1.85. This prevailing figure and there was a general cry among buyers for more. In the morning the market advanced to \$2.00 and \$1.75, and there seemed to be no particular run, neither would there have been any prospect of a steady advance, instead of slipper. This, of course, saved the market for this week and violets will undoubtedly be in demand for the holiday stock for that period. Valley is firm at from the \$3 to \$4 for good quality. Lilies are slow to move at \$6 and \$8 per 100.

Chrysanthemums have not kept pace with violets and show but little if any improvement over last week, except for a very few.

F. A. Reiker closed his store Monday, and has been notified his grocer.

Ball Trade. There is a general picking up in this line. Weddings have been quite numerous of late, and many of these people are homes and churches were decorated with chrysanthemum; white and yellow were the prevailing colors. Many of the boxes, and stores proper are again furnished, and a much larger stock is being put up for the Christmas trade. Many stores seem to be abroad, a prediction which it is hoped will be verified.

Auction Sales. Roses and other imported stock are now being put up for auction, and has this fall had the effect of reducing very much the quantity of this class of stock. The new duty has the necessity of the bids for all roses being started about 7c. each, and buyers hardly know how to meet the present average figures run from 8c. to 10c. each.

Edwin Hoyt, of New Canaan, was in town Tuesday night, and was with the members of his family are progressing favorably toward recovery. Other well known florists are: Philadelphia: J. A. Valentine, president of the Floral Court Co., Beaver, Col., and Prof. William G. Hamilton, president of Agriculture, Washington, D. C.

Norwich, N. Y.

William G. Manderville died here November 5, aged 71 years. He was formerly in the hat business, but later in conjunction with his wife, engaged in florist trade. Deceased leaves a widow and four children.

St. Paul.

Short Supply. Cloudy weather will be responsible for a shorter supply and a higher price. In the present time carnations are both in short crop with a good stiff demand. Chrysanthemums are also in short supply, but a large shortage in general is imminent. Beauty are more sought after than ever, and this of the best quality. The market is returning prosperity. Shipping trade is very good, there being a steady demand from the other towns.

Notes. Augt. Vogt has purchased the business and furniture belonging to Hottom & Chris. Hansen's new store was opened for business on Saturday last. VERITAS.

Chicago.

Tred, Weather, etc. The week opened up with sales somewhat slow. The show was caused by a letter being sent out demanding for first-class cuttings, etc. normally...

Chrysanthemums are still in great quantity, but after this week it is expected that the supply will be very low...

In roses choice Beauty with long stems running \$2.00 to \$2.50 common \$1.00 to \$1.50...

A few callas in hand sell well at good figures—\$1.25 to \$1.50 per dozen. A few Hardy lily buds from Lawson Brooks...

Christmas greens are already being made up in considerable quantities, and it is expected that the trade in this direction...

The first killing frost of the season occurred the morning of November 12, this year, and, at writing, cloudy, rainy days and a light frost to be expected...

The past week Southern amulias and green goods were allowed through quarantine there will be no extra trade in this article...

Rosettes.

Edgar Sanders Bros. have been brushing up their store and have added a fine new cold storage 12x8x8 1/2.

Phaladapha.

Market Notes. Business has improved over that of the past few weeks...

Business has improved over that of the past few weeks, and while prices have been moving better, there are lots of chrysanthemums around but fancy and choice are the best to be had...

The Chrysanthemum Show.

The closing days of the exhibition last week were not very interesting. The exhibits of roses are particularly noteworthy...

In order to maintain interest in the exhibition, it is evident that some radical changes will be made for the next schedules...

William Nicholson and Alex. Montgomery are making a tour of New York and Philadelphia, visiting many of the noted growers in the vicinity...

A visit to William Nicholson's place at New Rochelle, N. Y., has been made and never more so than at present. Everything is in the hands of Mr. Nicholson...

Robt. G. Carey, of the Japanese type, which forms a perfect ball—evidently a new variety.

Sowing Notes.

The Florists' Club played a match with the Century Wheelmen on Tuesday night...

Springfield, Mass.

Wm. Schlatter & Son will discontinue their business in the downtown market, and open a store on Main street.

C. F. Fairchild's Eastern avenue greenhouse business at Fort Lawrence, N. Y., was sold and bid in by the holder of the second mortgage—A. B. Maynard.

The next meeting of the Hampden Agricultural Society, occurs November 17. The present secretary will not attend...

Boston.

Business on the Brink. Slowly but surely the retail flower business in the metropolitan district was a glorious day all around.

Slowly but surely the retail flower business in the metropolitan district was a glorious day all around. The football game between Harvard and Yale during the week...

The success of many growers in this neighborhood has led to losses, mostly due to the disease about here. Owing to the success of many growers in this neighborhood...

Round Town.

After a successful business career in London, England, the late George South Market street, W. W. Rawson & Co., the well-known seedsmen...

Business Oppor-. A number of new opportunities are being handled in the exclusive business which they now control in the Empire State building...

Callias.

Bianc & Co., 1061 Broadway, New York City.

Callias.

Callias, 1061 Broadway, New York City.

Callias.

Callias, 1061 Broadway, New York City.

nations growing under the most favorable conditions as well as a number of Mr. Nicholson's own seedlings.

Brockton, Mass.

A new store has been opened by the Brockton Horticultural Co. on Main street. E. F. Costello manager.

Business is reported as being unusually quiet in the Metropolitan district. The recent strike in the shoe trade...

The forty gentlemen connected with the trade and gardens of this city and surrounding towns met last Tuesday evening in the Metropolitan Hotel...

Next meeting of the Hampden Agricultural Society, occurs November 17. The present secretary will not attend...

Index to Advertisers.

Ageratum Rockland Chelsea 1.01 Kidd J M 1063 Schultze A 1007 Agastria Supplies Cineraria Knott E 1067 Fryer & Underhill 1068 Asparagus B. R. 1068 Whitton 1068 Bell 1068

Balsam and Hosts. Balsam and Hosts. Balsam and Hosts. Balsam and Hosts. Balsam and Hosts.

Business Oppor-. Business Oppor-. Business Oppor-. Business Oppor-. Business Oppor-.

Callias. Callias. Callias. Callias. Callias.

Callias. Callias. Callias. Callias. Callias.

Callias. Callias. Callias. Callias. Callias.

Callias. Callias. Callias. Callias. Callias.

Callias. Callias. Callias. Callias. Callias.

Stump & Walter Co. 1060 Vaughan, McKellar 1060 N. Y. Garden 1060 Vaughan's Sons 1060

Decorative Plants. American Lub Co. 1067 Beckedahl 1067 Beldred 1067 Brockton Horticultural 1067

Fruit Plants. Hartigan 1067 Bird 1067 Barker 1067 Beldred 1067

Flower Pot Plants. Vase, etc. Evans H. B. 1068 H. E. 1068 MacDermott N. F. 1068

Fertilizers. American Fertilizer Co. 1064 American Judo Co. 1065

Flowers. American Judo Co. 1065 Hartigan 1067 Brown Peter 1067

Exchange. DeWalt J. E. 1064 DeWalt J. E. 1064

Fruit Plants. American Judo Co. 1065 Hartigan 1067 Bird 1067 Barker 1067

Flowers. American Judo Co. 1065 Hartigan 1067 Brown Peter 1067

Exchange. DeWalt J. E. 1064 DeWalt J. E. 1064

Fruit Plants. American Judo Co. 1065 Hartigan 1067 Bird 1067 Barker 1067

Flowers. American Judo Co. 1065 Hartigan 1067 Brown Peter 1067

Exchange. DeWalt J. E. 1064 DeWalt J. E. 1064

Fruit Plants. American Judo Co. 1065 Hartigan 1067 Bird 1067 Barker 1067

Flowers. American Judo Co. 1065 Hartigan 1067 Brown Peter 1067

Exchange. DeWalt J. E. 1064 DeWalt J. E. 1064

Fruit Plants. American Judo Co. 1065 Hartigan 1067 Bird 1067 Barker 1067

# HOLLY MISTLETOE

BOUQUET GREENS, WILD SMILAX, IMMORTELES, CAPE FLOWERS, MOSS WREATHS, METAL DESIGNS, Send for HOLIDAY PRICE LIST Just Issued.

STUMPP & WALTER CO., Formerly with F. E. McALLISTER CO., 50 BARCLAY ST., New York.

When Writing Mention Florists' Exchange

**ASPARAGUS P. VITICOSUS, NANUS,**  
W. H. ELLIOTT, - Brighton, Mass.

When Writing Mention Florists' Exchange

**New Orleans.**

Very little improvement is noticed in business here yet. The yellow fever is slowly disappearing and people are beginning to come back to the city. The weather still keeps warm, with plenty of flowers outside. Gardens are looking much better this Fall than usual.

All Saints' Day trade was poor this year, owing to so many people being absent from the city on account of the fever. Flowers were plentiful everywhere. The market was overstocked with chrysanthemums; good flowers sold well, but loose bunches of specimen chrysanthemums sell better every year for work for All Saints' Day.

C. Holst had a grand show of flowers for the first, and did a very good business, considering the times. Mr. Holst has been very successful in raising seedling chrysanthemums, and the most favored by his local trade—varieties that stand the weather better than most of those since here. This year he had over 1,000 plants all ready by the first, all his own varieties excepting Henry's Gem. Some of his plants carried 50 to 60 heads, the best of them selling at \$2 per dozen. Some of his varieties should find their way north, as we have seen nothing to equal them here in earliness, size and color.

Mr. Justin St. Mard did a very fair business this year. His Kate Brown chrysanthemums were good, also his Queen. The small single chrysanthemum, Silver Thimble, was fine. The weather has no effect on this single variety.

U. J. Virgin is cutting some nice roses daily. His plants all look very healthy and clean. He had a little trouble with black spot on Beauty, but it has disappeared. If the weather keeps as mild as it is now, I do not think there will be much money in roses under glass, as we are cutting very fine flowers outside now. Some years we do not get any thing from much before Christmas. This, of course, makes the season very short for the indoor trade.

HARRY PAPWORTH.

**Omaha, Neb.**

The first chrysanthemum show Omaha has given, opened November 15. To judge from the way the public patronized it and the satisfaction shown, and congratulations expressed on every side, it was greatly appreciated. The committee in charge and the entire Florists' Club worked as a man to make this first show a grand success. Bassett & Washburn shipped a fine bunch of Beauty; Hatcher, McKeller & Whitson sent chrysanthemums that are a credit to the grower. Many other growers and exhibitors have shown, and the intention of exhibiting, but as yet the trade not represented. The show will not close until November 20, and a great many cut flowers will be placed later.

More and better chrysanthemums have been grown in Omaha, in this city, in any previous year, but the sale is not so good. First-class bionous sell at \$2, and inferior grades at as low as 50c a dozen. Very few good varieties are seen, and they find ready sale at \$1 a hundred. Some fine Beauty roses are shown in our store, but a good many are affected by thrip, all the growers seeming to be troubled with this pest.

**Riverton, Ill.**

James B. Spaulding, president of the Spaulding Nursery and Orchard Company, died here November 11, aged 73 years. He was a native of Massachusetts, and had resided in this place since 1854.

Cut Strings, 10 to 12 feet long 50 cts. each. Shipped to every part of the country.

**CHOICE HOLLY and HARDY CUT FERNS**  
HOLLY \$2.50 per case, 25 ft. x 10 ft.  
HOLLY FERNS, 15 cents per 1000

J. A. LECHLER, 717 So. Laurel St., RICHMOND, VA.  
Ask our accompanying order.

When Writing Mention Florists' Exchange

**Galax Leaves.**

CHAS. H. RICKSECKER, Linville, N. C.  
When Writing Mention Florists' Exchange

**HOLLY AND BOUQUET GREEN.**  
Don't delay! Give us your order now as these special prices will last only a short time.  
100 lbs. 50c case. Choice Holly \$3.00 case.  
Bouquet Green, \$2.75 case. Spaghnum Moss, 50c. bill. Green Clump Moss, 75c. bill. Holly Wreath, Bouquet Green and Laurel Kopiaing, made at lowest price. Cash with order.

A. LUSBY & CO., 2552 N. 18th St., Phila., Pa.  
When Writing Mention Florists' Exchange

... FINEST ...  
**GALAX LEAVES and LEUCOTHOE SPRAYS.**  
Green Galax Leaves are now ready to ship. ALWAYS WRITE THE INTRODUCERS,  
**HARLAN P. KELSEY,**  
1123 Tremont Building, BOSTON, MASS  
When Writing Mention Florists' Exchange

**ASPARAGUS ROOTS FOR FORCING.**

Have a large stock of Asparagus Roots, 2 and 4 years strong considered large enough for forcing in greenhouses. Conover's, Barry's and Palmette. Orders will be booked now for

**XMAS HOLLY,** December shipment. Prices of the above on application. State quantity desired.

**ALEXANDER PULLEN, Milford, Del.**  
When Writing Mention Florists' Exchange



Evergreen, Hardy Cut Ferns, Laurel and Princess, Festoon Mosses, Wreaths of all kinds, Christmas Trees, Etc. Lowest Prices always for First Quality Goods. Write for prices on all goods desired. 27 Beacon St., Boston, Mass. Tom's Office, Hill Street, N. Y.

When Writing Mention Florists' Exchange

**HEADQUARTERS**  
...OF...

**PAMPAS PLUMES**

**CALIFORNIA**  
Free and Shrub Seeds, Smilax, Cobeca, Grevillella robusta,

**PALM SEEDS, Etc.**  
Ask for Special Prices.

**BERMAIN FRUIT CO., LOS ANGELES CAL.**  
When Writing Mention Florists' Exchange

A CHANGE of Air is often as necessary as a change of air, or change of diet, and for the same reason—to keep trade and body healthy



**HARDY FERNS**  
WARRANTED FIRST QUALITY.  
SPECIAL ATTENTION PAID TO SUPPLYING WHOLESALE DEALERS.  
Write for Prices.

ALSO DEALER IN

**BOUQUET GREEN, SPAGNUM MOSS, CHRISTMAS TREES, Etc., Etc., Etc.**

L. B. BRACUE, - HINSDALE, MASS.  
#1 OLDEST, LARGEST, and MOST RELIABLE DEALER IN THE UNITED STATES  
When Writing Mention Florists' Exchange

Well Bought is Half Sold.

## BOUQUET GREEN. HOLLY.

Evergreen Wreathing, Holly Wreaths, Mistletoe, etc.

The right kind at the right price, and last, but not least, at the right time.

We have an unbroken record as HEADQUARTERS. (Send for our CATALOGUE for BOTTOM FIGURES.)

**W. W. BARNARD & CO., CHICAGO,**  
186 East Kinzie Street.  
When Writing Mention Florists' Exchange

# HOLLY WITH THE DEW ON IT

WHAT'S THAT, you ask? Just this: We have an immense crop of extra fine HOLLY which we will ship by express. It will reach you so quickly and so fresh from the woods that the Dew on it won't have time to dry. No lost sales or weary waiting for that Freight Car that is side-tracked. No wet Burlap and wet paper to pay for extra for fear the goods may all dry up before reaching you. No great big branches to fill up the case. Such unnecessary wood is all waste, no good even to burn.

We will cut and pack these goods exactly as you order them. If you want Holly for wreaths, you want all small branches and tips for that purpose. If you want delicate branches for decorating, we know how and what to pack.

**We Won't Argue Prices.**

Figure it up for yourself: Lost sales, Extra Burlap, Drayage, etc., etc., and drop the old "Freight Stuff." Try fresh stock by Express. Have a fresh case reach you every day, or two days as you choose. You can countermand our order by night message for 30 cents if sales are slow. No danger of being stuck. Our way is the new way and the sensible way of handling Holly.

We also pack Holly in 1, 2 and 5 pound boxes, nicely labeled and your name on them.

Prices: Express charges prepaid, delivered at your door.

1 lb. Boxes	.....	\$3.75 per doz.	½ doz., \$2.00
2 lb. "	.....	4.00	4 " 3.50
5 lb. "	.....	Each, \$1.00	\$10.00 per doz.
10 lb. "	.....	" 1.50	15.00 "
25 lb. "	.....	" 3.00	
40 lb. "	.....	" 5.00	
50 lb. "	.....	" 6.00	

These are net weights and do not include the weight of boxes. Our Catalogue tells you all about it, and describes many other Christmas Decorative Evergreens. Several Novelties. Send for it.

**CALDWELL THE WOODSMAN CO., Evergreen, Alabama.**  
When Writing Mention Florists' Exchange

FARQUHAR VIOLETS

Strong plants that will bloom this Winter. From 24 in. pots, in bud, at \$3.00 per 100. Cash with order. THOMAS F. O'BRIEN, Falmouth St., Rosinville, Mass. When Writing Mention Florists' Exchange

Farquhar Violets

Strong, healthy runners, \$1.00 per 100 by mail. W. H. SEARCH, Avondale, Chester Co., Pa. When Writing Mention Florists' Exchange

VIOLETS! VIOLETS!

MARY LOULE. Two grown, clean and healthy in every particular. \$5.00 per 100; \$45.00 per 1,000. Cash with order. Cash order, 25% discount. Wm. J. CREENNICK, Trenton, N. J. When Writing Mention Florists' Exchange

CALIFORNIA VIOLETS!

FINE FIELD CLUMPS. Also L. H. Campbell. Best to send. Ask for prices. Also extra fine. \$5.00 per 100. BENJ. CONNELL, Florist, West Grove, Pa. When Writing Mention Florists' Exchange

VIOLETS MY SPECIALTY!

California, extra clean from bud, \$25.00 per 1000. \$200.00 per 10,000. Quality guaranteed. Other varieties all sold for the price.

LILACS.

Charles X. and Maria Legray, 3 years, raised, good forcing plants, delivered October 1st, \$5.00 per 100. \$50.00 per 1,000. FERD. BOULON, Sen. Cit. L. I., N. Y. When Writing Mention Florists' Exchange

"LAPURITE"

This New Single White Geranium, which has attained a high reputation, is now for the first time offered to the trade, for delivery during December, and in very early sets. See our ones for descriptive circulars and prices. FLORENCE ANTHONY, 161 Bowditch St., Reading, Pa. When Writing Mention Florists' Exchange

A FEW THOUSAND

VIOLETS. Yet left. Different sizes. Must sell. Need room. Also a few hundred.

CARNATIONS

Left. Name quantity. Send for prices; they will surprise you. JUS. R. FREEMAN, 612 1/2 WASH'N, D. C. When Writing Mention Florists' Exchange

\$1.00 Collection \$1.00

2 New Velvet Plants, big seller, ..... \$5 1/2 Begonias, newest flowering, in ..... 1.50 10 Newest Colons, named, 2 1/2 in. .... 2.50 200 Giant Flowering Plants, 1.00 \$1.00 ALL FOR \$1.00. \$2.25 ALSO Pansy Plants, seedlings, strong, \$3 per 100; strain-planted, bushy, \$4 per 100. Geraniums, new varieties, named, 2 1/2 in. \$2.50 per 100. New Velvet Plant, big seller, per doz., 50c. Send for price list of plants.

THE MORRIS FLORAL CO., Morris, Ill.

PANSIES

SEED \$150.000 The Jennings Strain. Of finest American grown Pansies now ready; they are the leading strain in the market and are leaders in every respect. The following letter is but one of many received every day: 'REUFORD, N. Y., Jan. 18th, '97. 'MR. R. H. MURPHY, Dear Sir: The Pansy Seed supplied by you last August produced the finest lot of Pansies I have ever seen. They were uniformly first-class. Send me one doz. of your best mixed as soon as you can. Respectfully yours, WILLIAM SKEED. Pansies mixed, per 100 by mail, postpaid, 75c. per 1000, by express, \$4.00; \$50.00 for 100. State kind of plants to be ordered. Cash with order, \$1.00 per doz.; \$5.00 per 10 doz. CARNATIONS. Fine stock of leading kinds at \$5.00 per 1000. See Circulars. E. B. JENNINGS, Seed Box Southport, Conn. GROWER OF THE FINEST PANSIES. When Writing Mention Florists' Exchange

FRANK HARDY'S STOCK.

SPECIAL LOW PRICES FOR NOVEMBER.

Order at once and secure strongest stock at cheapest rate. We have thousands of plants of Novelty and Standard Varieties, in strong, healthy condition. Novelties.—Beck's, Hill's, May's, N. Smith & Son's, Spaulding's and others, \$2.00 (or doz.) \$15.00 per 100. Commercial Varieties.—Merry Monarch, Bergman, Mrs. H. Robinson, Helen Wright, May Queen, Wanda Miller, Mrs. J. Jones, Gaucama, Gold Lady, Goodman's Pinner, Clara Goodman, Modesta, H. W. Heman, Good Wedding, Lillian, Wm. Simpson, R. Leach, Mrs. F. Ferrin, H. Woodcock, Francis B. Hayes, Miss Dea, \$1.00 per doz. \$7.50 per 100. Not less than one doz. at above rates for 1000 flowers.

NEW WHITE CHRYSANTHEMUM FRANK HARDY

The mid-season market white of the future, indispensable for the market grower and for the exhibitor. Highest boosa at the leading shows in New York, Boston and Philadelphia in competition with all the best whites of the market. Strong young plants ready March 1, 1898. Price per plant 50c. 100 100 100 100 \$2.00; per 100, \$20.00; per 1000, \$150.00. Not less than 25 at all rates, and 250 at 1000 rates. Cash with order. Address: A. HERRINGTON, Florham Farms, MADISON, N. J. When Writing Mention Florists' Exchange

HERR'S PANSIES FINE PLANTS ..CARNATIONS..

My experiences with the old and the new will be ready November 15th, and mailed for the asking. ARE THE BEST. 75c. per 100 55 per 1000 ALBERT M. HERR, Lancaster, Pa. When Writing Mention Florists' Exchange

RED SPIDER ON VIOLETS SCALE AND MEALY BUG ON PALMS

Can be removed by using Lemon Oil. Insecticide, diluted with water. 14 pt., 25c.; 40 pt., 45c.; 75 pt., 65c.; 115 pt., \$1.00; 3 gal., \$3.00; 1 gal., \$1.00. \$1.00 sent on receipt of price. CHAS. C. GARRETT & CO., 113 1/2 Gay St., Baltimore, Md. When Writing Mention Florists' Exchange

LOOK HERE

The following plants are in all condition. Anniversary Pansies, 2 1/2 in., try 100—54 mixed, 25c. per 100; \$2.00 per 100. Adiantum Cuneatum, 1 inch, \$3.00 per 100; 34 mixed, \$4.00 per 100. Mixed Ferns for terraries, \$3.00 per 100. Mixed Ferns for rockeries, strong, 2 inch pots, \$3.00 per 100. PERKINS SONS ORC CO., C. MERKEL & SON, Mendota, Ohio. When Writing Mention Florists' Exchange

SMLX! SMILAX!

Extra 2 in., \$1.50 per 100; \$10.00 per 1000; \$25.00 per 3000. Gladioli Bulbs. May White and Light Yellow, Fine Mixed. Now Ready. BETSCHER BROS., Canal Dover, Ohio. When Writing Mention Florists' Exchange

ASPARAGUS PLUMOSUS NANUS

(True) transplanted seedling plants, now ready, \$3.00 per 100; \$25.00 per 1000; \$50.00 per 3000. 1000 A.C.N.S. of our own introduction, \$2.00 per 100. Duchers of Marlborough, pink. Duke of Marlborough, green. Kinonite, pink orange with white luted. Champagne, largest of all. Types extra yellow. Ask Catalogue. Send for Price List of athers and all other popular Octams. R. ASMUS, - - - NEW DURHAM, N. J. When Writing Mention Florists' Exchange

ASPARAGUS SPRENGERI

Five stock, 2 1/2 inch pots, at \$7.00 per 100; 3 1/2 inch, \$12.00; 4 inch, \$16.00. Seed, \$1.50 per 100; \$15.00 per 1000. 1000 A.C.N.S. of our own introduction, \$2.00 per 100. Duchers of Marlborough, pink. Duke of Marlborough, green. Kinonite, pink orange with white luted. Champagne, largest of all. Types extra yellow. Ask Catalogue. Send for Price List of athers and all other popular Octams. Send for reduced list. Baltham. All the latest varieties at lowest prices. Catalogue free. Send for reduced list. A. BLANC & CO. Philadelphia, Pa. When Writing Mention Florists' Exchange

2 YEAR OLD ROSES 2 YEAR OLD...

These Roses have been potted some time and have made a nice bush growth. Offer them when they last at \$5.00 per 100.

PERPETUAL BLOOMING ROSES.

Claret, Sequoia, Golden Gloire, Double Yellow Rambler, Princess de Sagan, Etiole de Lyon, Sembrance, Mme. Bertin, Mme. Welche, Franconia, Kaiser, Matrona, Christine de Noe, Duchesse de Brabant, Madame Elm Lambert, Rumba, Pink Souverain, Prince Meteor, Triump of Perpet Perse, Kaiserin, H. M. Stanton, Marie Lambert, Marie Guillot, Yellow Souper, Bridemaid, Perle, Chas. Legray, Mrs. Degraw, Marie Van Heerde, Anna Cocher, Louis Richier. The above list at 2 1/2 inch pots at \$2.25 per 100; \$20.00 per 1000.

Climbing Roses.

Two year old plants in the following varieties, \$1.00 per doz, \$8.00 per 100. White Rambler, Yellow Rambler, Pink Rambler, Climbing Meteor. The above list in 2 1/2 inch pots at \$3.50 per 100; \$30.00 per 1000.

Climbing Roses.

Two year old plants in the following varieties, \$1.00 per doz, 75c. per doz, \$5.00. Golden Rambler, Excelsior, China, Golden Rambler, Rosa Wichuriana, Climbing Perle, Mrs. Washington, M. C. The above list in 2 1/2 inch pots at \$2.25 per 100; \$20.00 per 1000.

HYBRID PERPETUAL ROSES.

Two year old plants in the following varieties, \$1.00 per doz, \$8.00 per 100. Paul Neyron, Coquette Des Alps, Magna Charta, York's Caprice, Ball of Snow, The Prince of Wales, The Duke of Cambridge, \$3.50 per 100; \$30.00 per 1000.

JOHN A. DOYLE, - - - Springfield, Ohio.

When Writing Mention Florists' Exchange

ROSES

Bridemaid, Annet, Waterville, Bride, Marie, Marnet. Price from 3 inch pots, \$1.00 per 100; \$4.00 per 1000. 1.00 3.00 JOHN A. DOYLE, - - - Springfield, Ohio. When Writing Mention Florists' Exchange

CARNATIONS.

Alberton, Boston d'Or, Rose Queen, Dean King, Armazady, Alaska, Storn Hole, Eldorado, Little Belmont, Prince of Peace, MCGowan. Price, list size, \$5.00 per 100; \$50.00 per 1000. 2 1/2 4 10 30 00 G. M. Bradt, Price, \$12.00 per 100.

CYCLAMEN

Persicum glaucum, from 3 1/2 in. pot, \$10.00 per 100; \$25.00 per 1000.

SMILAX.

Strong plants from 2 1/2 in. pot, \$2.50 per 100 \$20.00 per 1000.

New Trade List on Application, WOOD BROS., Fishkill, N. Y.

100,000 CINERARIAS

Grown from the choicest seed, plants of which were awarded last prize at the Horticultural Show, Newark—2 1/2 inch, ready to ship, \$2.00 per 100; separate colors, white, \$2.50 per 100; \$15.00 per 1000; 3 inch, \$3.00 per 100; CALCEOLIAS, best strain, 2 1/2 in., \$3.00 per 100. WHITTON & SONS, 475 Broadway, N. Y. City, N. Y. When Writing Mention Florists' Exchange

PANSIES WORTH RAISING

Good plants, \$2.50 per 1000, or \$1.50 per 500. Large plants, \$4.00 per 1000, or \$2.50 per 500. Blooming plants, \$1.50 per 100. Seed as usual. Cash with order.

C. SOLTAY & CO., 193 Grand Avenue - - - JERSEY CITY, N. J.

PANSIES. ROEMER'S SUPERB PRIZE PANSIES.

The strain includes all the leading varieties, strong young plants, ready now, at 55c. each per 100, \$7.00 per 1000; \$50.00 per 1000. By express, \$1.00 per 100; \$5.00 per 1000. Seed, 5c. each; \$1.75 per quart of 2500 seed, \$1.00 per 1000. Cash with order. PETER BROWN, - Lancaster, Pa. When Writing Mention Florists' Exchange



Pittsburgh.

Trade List. Outside of a few special events... Outside of a few special events...

The News. A new florist's store was opened on the south side by A. Kraft...

Providence.

Business the past week was rather poor on account of the weather...

The Market.

Violets sell well, none being left over, although thousands are daily brought to this market...

Miss Lillian Amelia Geisler, daughter of F. A. Geisler, the Bristol florist, will be united in marriage on Thanksgiving to Albert Patstone...

Mount Kisco, N. Y.

The third annual show of the Bedford County Horticultural Society... The Westchester County Horticultural Society, opened Tuesday, November 17...

HARDY CUT FERNS! Per 100: Price's Pine roofing, Large and Small, 40c...

50,000 SMILAX by mail, 50 cts. per 100. GERANIUMS mixed, send for samples...

CHINESE PRIMROSE PLANTS. Per 100 Strong and well grown, last call...

PANSIES. Large plants in bud and bloom, finest colors...

Rooted Cuttings of the New Geranium Mme. BRUANT. I am able to now furnish this wonderful distinct variety...

ROOTED CUTTINGS. Ageratum Menziesii. A dwarf variety, with blue flowers of gorgeous size...

FIELD-GROWN. VINCA MAJOR VARIETATA. 45.00 per 100...

BUDDED CYCLAMEN and PRIMROSES. JUST RIGHT FOR CHRISTMAS.

ROOTED GERANIUMS Double Grant, Mme. Pillsbury and La Favorite. Give me the best all-around flowers...

PLANT MARKET. A number of plant growers, both from New Jersey and Long Island...

BEGONIAS at HALF PRICE, to close out. When Writing Mention Florists' Exchange.

GERANIUM. cuttings double Grant, Mme. Pillsbury, 40c per 100...

MUM STOCK PLANTS. Merry Monarch, Marion Heederson, Mrs. H. Robinson, 60 cts. per dozen.

PRIMROSES. Extra strong plants 24c in pots, single variety...

GERANIUMS PREPAID. Rooted cuttings of GERANIUM Mme. BRUANT...

GERANIUMS PREPAID. Rooted cuttings of GERANIUM Mme. BRUANT...

GERANIUMS PREPAID. Rooted cuttings of GERANIUM Mme. BRUANT...

GERANIUMS PREPAID. Rooted cuttings of GERANIUM Mme. BRUANT...

GERANIUMS PREPAID. Rooted cuttings of GERANIUM Mme. BRUANT...

GERANIUMS PREPAID. Rooted cuttings of GERANIUM Mme. BRUANT...

GERANIUMS PREPAID. Rooted cuttings of GERANIUM Mme. BRUANT...

GERANIUMS PREPAID. Rooted cuttings of GERANIUM Mme. BRUANT...

GERANIUMS PREPAID. Rooted cuttings of GERANIUM Mme. BRUANT...

GERANIUMS PREPAID. Rooted cuttings of GERANIUM Mme. BRUANT...

GERANIUMS PREPAID. Rooted cuttings of GERANIUM Mme. BRUANT...

GERANIUMS PREPAID. Rooted cuttings of GERANIUM Mme. BRUANT...

GERANIUMS PREPAID. Rooted cuttings of GERANIUM Mme. BRUANT...

GERANIUMS PREPAID. Rooted cuttings of GERANIUM Mme. BRUANT...

GERANIUMS PREPAID. Rooted cuttings of GERANIUM Mme. BRUANT...

GERANIUMS PREPAID. Rooted cuttings of GERANIUM Mme. BRUANT...

GERANIUMS PREPAID. Rooted cuttings of GERANIUM Mme. BRUANT...

GERANIUMS PREPAID. Rooted cuttings of GERANIUM Mme. BRUANT...

GERANIUMS PREPAID. Rooted cuttings of GERANIUM Mme. BRUANT...

GERANIUMS PREPAID. Rooted cuttings of GERANIUM Mme. BRUANT...

GERANIUMS PREPAID. Rooted cuttings of GERANIUM Mme. BRUANT...

GERANIUMS PREPAID. Rooted cuttings of GERANIUM Mme. BRUANT...

GERANIUMS PREPAID. Rooted cuttings of GERANIUM Mme. BRUANT...

GERANIUMS PREPAID. Rooted cuttings of GERANIUM Mme. BRUANT...

What Will You Give?

Will sell you any part of the whole. This stock must be sold at once and the best offer goes them.

FREE DELIVERY

Of plants offered by me at Florists' Exchange of October 9, page 822, if cash accompanies a order of not less than \$3.00...

TO MAKE ROOM

- 1000 Strong Cinerarias, large enough for 5 or 6 inch pots, \$3.00
500 Snow Crest Balsam, fine for 5 inch blooms, 3.00
3000 Yucca Vera, 3 1/2 inch pots, 4.00
200 Asparagus Plumosus Nanus, 7.10

ROOTED CUTTINGS.

- Double Grant, White, Pink and Red, 2.00
Lemon Verbena, \$1.50 per 100

Write for prices on other cuttings. Terms Cash or C. O. D.

GREENE & UNDERHILL, Watertown, N. Y.

Imperia Japonese.... Morning Glory Seed

A. W. SMITH, AMERICUS, GA

Crop of 1897, now ready for delivery, is the product of selected seed from product of the best...

Price, per pound, \$6.00.

For large quantities write for quotations to...

A. W. SMITH (The Moon Flower Man) AMERICUS, GA.

The largest grower in the world of these species, Smith's Hybrid Moon Flowers, Ipomoea Selena and Underhill Light.

When Writing Mention Florists' Exchange

**JOHN CONLEY & SON,**  
MANUFACTURERS OF  
**TIN FOIL**  
2 and 4 Dominick Street,  
NEW YORK.

When Writing Mention Florists' Exchange

**..Elixir..**  
**Fertilizer**  
It is a pure natural product, and a most nutritious food for plants.  
We live in comparison with all other FERTILIZERS and will gladly send you a FREE LIBERAL SAMPLE TO PROVE IT.  
Send your address to  
**Elixir Fertilizer Co., 107 W. 141st St., New York.**  
When Writing Mention Florists' Exchange

BEFORE BUYING A

**FUMIGATOR**

SEE THE ONE WITH

**WATER TANK.**

ALL SEEDSMEN  
SELL



THE PERFECTION  
When Writing Mention Florists' Exchange

**KILL IT**  
**TOBACCO**  
Harmless to the Plants  
The Florists' Best Friend.  
**KILLS YOUR BUGS**  
**SURE**  
In One Fumigation.  
For free pamphlet write to  
**The Kentucky Extract Co., Columbus, O.**  
FOR SALE BY STORES.

**THE BEST FOR ALL FLORISTS.**  
**ROSE LEAF EXTRACT OF TOBACCO**  
FOR SALE BY STORES.  
For Free Pamphlet, write to  
**LORVILLE BEYER, CINCINNATI, OHIO.**  
Tobacco Co., Louisville, Ky.

When Writing Mention Florists' Exchange

**INDIAN BRAND**  
**NO ADULTERATION. BONE FLOUR NO A.C.D.**  
Geo. S. Bartlett, Successor to  
1255-1257 W. 6th Street, CINCINNATI, OHIO.  
When Writing Mention Florists' Exchange

**JADO**  
FIBRE--Every plant grown in it thrives without earth.  
LIQUID--The best, safest and cheapest Fertilizer sold.  
U. S. Patent and Trade Mark.  
**THE AMERICAN JADO CO., PHILADELPHIA, PA.**  
When Writing Mention Florists' Exchange

**Cincinnati.**  
Trade Quiet.  
Business remains about the same as last week; no improvement in anything. Thanksgiv'g, however, produces a little reaction. Chrysanthemums still have the lead. Heavy roses even having to take a back seat. There are still unmarketed as ever, and only strictly first-class stock will sell, and command any price.  
Club Items.

Saturday was the regular monthly meeting and exhibition of the Florists' Society, and the exhibitors presented a most excellent and free, of course the crowd was huge: from 3 P. to 8 P. m. one could hardly move about in the club-rooms. The exhibition was not so good or rather not so large, as we had expected. Many who had promised as an exhibit failed to show up. George & Allen made an especially fine display, including chrysanthemums, heavy, roses of other kinds, Romans, narcissus, etc., and carried off nine awards. Hoffmeister Floral Co. received four awards on roses and chrysanthemums. Carl Schweitzer one award for a yellow-bronze seedling chrysanthemum. Corbett & Wilson two awards on violets which were especially fine. The plants of some of our violet growers are troubled badly with the disease. Theo. Beck received seven awards for carnations and chrysanthemums. He had a white seedling chrysanthemum before the committee, but it was not finished enough to be judged properly, and was left until the 20th inst. Mr. Murphy received nine awards for carnations; the varieties shown were mostly new ones. For the same reason the only one exhibited, and it was certainly very choice, grown as Mr. Murphy does it.

**MANURE.**  
Fruit and vegetable manure for Mushroom growing a specialty. Excellent facilities for growing and packing. Write for catalogue or buy by post. **Wm. Abernethy, Room 30, 615 Third Street, Philadelphia, Pa.**  
When Writing Mention Florists' Exchange

GENUINE

**BEAT AND LEAF MOULD**

Large Barrels, \$1.00; in 10 bbl. lots, at 75 cts. per bbl.; E. O. B.

**JAMES L. REYNOLDS, Mount Vernon, N. Y.**  
When Writing Mention Florists' Exchange

**SHEEP MANURE**  
Cleaned and prepared expressly for florists' use. You will find it the genuine article. For reference to the best first-class I refer you to Henry E. Mitchell, 315 Market Street, Philadelphia, Pa. (trial bags of 50 lbs. at \$2.50; per ton \$25.00. No cut on ton rate. Cash with order.)  
**HERMOS RICE MANURE** in exchange.  
**CODREY ASCHMANN,**  
1012 Ontario St., PHILA., PA.  
When Writing Mention Florists' Exchange

**THE BUSH**  
**SAVE THE BLOOMS!**  
**NIKOTEEN**  
DOES NOT INJURE SENSITIVE PLANTS, USED FOR FUMIGATION OR SPRAYING, INDOORS OR OUT.  
200 POUNDS BREAD IN ONE PINT MIXTURE.  
Price \$1.50. ALL SEEDSMEN.  
When Writing Mention Florists' Exchange

**The Right Cypress for Greenhouse Material.**

Have you heard of Cypress Greenhouse Material that has not been satisfactory? If you have it does not follow that Cypress is not the best lumber to use. There is Cypress that grows in the high lands and Cypress that grows in the swamps. All of these different kinds are not suitable for greenhouse purposes. Do you know which kind is best and do you know that kind when you see it? If not you will get very much of the kind that do know and will deliver exactly what they sell. We introduced Cypress for greenhouse construction and pushed it to the front. We know all about it. For fifteen years we have made a specialty of furnishing it, and during this time we have built up a reputation that we cannot afford to jeopardize. We send out the best only.

**Lockland Lumber Co., LOCKLAND, O.**  
Write for Circulars or Estimates.  
When Writing Mention Florists' Exchange

**MYERS & CO., Greenhouse Builders,**

Steam and Hot Water Engineers,  
1614-1620 S. Ninth St., Philadelphia.

When Writing Mention Florists' Exchange

W. W. Coles, of Kokomo, Ind., received two awards on roses, Carnot and A. Victoria. By the way a number of people who condemned Carnot when it first made its appearance have changed their minds, and more of it will be grown another season; to my mind it is the best of all the new introductions in roses during the past few years. C. C. Murphy was strictly in it with a vase of Harrison's White carnation. Commercially this is certainly a good thing, but Flora Hill still holds the palm as best white, and she has been the favorite. J. J. Peterson received three awards for well-grown standard chrysanthemums, R. Witters-ter received four varieties, the best of which was for Evelina. This carnation is far from its best yet, but will be heard from later. A. Sauerburch also received ten awards for a miscellaneous stock of well-grown flowers. The City Greenhouses received sixteen awards on orchids, ferns and other well-grown plants. Hugh Graham was awarded the special certificate of the Florists' Society for chrysanthemum Pennsylvania: E. G. Hill & Co. a special for a pink seedling chrysanthemum unnamed. It was what might be called a salmon-pink, straight flower on order Canning. W. H. Good stem and fine foliage. J. J. Peterson received special for a new seedling chrysanthemum, very light pink; percentage Queen and V. Hellock named Mrs. Samuel Heydon. Mr. Peterson has another named Mrs. Ed. Roth, a lemon-yellow. Thus W. Crouch received a special for his namesake chrysanthemum, which is a dark pink of Japanese parentage, with delicate and pleasing and robust substance. This, I believe, was grown by Fred S. Webb, of this city. Mr. Crouch At the regular meeting E. Giesy was appointed a committee of one to arrange for a special session at 8 o'clock on the 11th inst. E. G. GILLET.

**Buffalo.**  
Darker and colder weather now rules, and with needed fall rains included at the present intervals it is the season what may be termed unpleasant during the past week. It has, however, not shorted the rather large supply of good flowers daily offered. A goodly number of chrysanthemums, though at ordinary prices, have been culled to relate between the needs of college theatre parties and the special need of these blooms for the gardens. In fact, some good out-of-town orders have also been supplied. Violets seem in good demand, with none being wanted. The best qualities are picked up quickly. Carnations incline to be over plentiful for the demand.  
Recent callers were: Thos. Mansfield and Miss Mansfield, of Lockport, N. Y.; H. J. Wise, East Aurora; J. H. Kendle, Tonawanda. Vid.

until you have seen our sample cards. They will help you. Drop us a postal and we'll mail them to you. **JOHN LUCAS & CO., Philadelphia, New York and Chicago.**  
When Writing Mention Florists' Exchange

**SUMMER AND WINTER Standard Greenhouse Boilers**  
By Using  
One cost gets our Catalogue.  
**GIBLIN & CO., - Utica, N. Y.**  
When Writing Mention Florists' Exchange

**MASTICA**  
For Glazing Greenhouses. A substitute for putty. Superior in every way. **MASTICA and MASTICA GLAZING MACHINES** were given highest Award of S. A. F. at Pittsburgh. Address for circular, **F. O. PIERCE GO., 170 Fulton St., N. Y.**  
Sole Manufacturers.  
When Writing Mention Florists' Exchange

**Brass Improved Challenge**  
Roses having self-rolling device automatic stop, cold the chain makes the IMPROVED CHALLENGE the most perfect apparatus in the market.  
Write for catalogue and prices before placing your order with us.  
**Quaker City Machine Co., Philadelphia, Pa.**  
When Writing Mention Florists' Exchange

**VALVES and FITTINGS**  
For Pipe and Tubing.  
**VENTILATING APPARATUS.**  
**COLDWELL WILCOX CO., Newburgh, N. Y.**  
SEND FOR CATALOGUE Mention paper.

**CYPRESS IS MUCH MORE DURABLE THAN PINE.**  
**CYPRESS SASH BARS**  
UP TO 32 FEET IN LENGTH OR LONGER.  
**GREENHOUSE AND OTHER BUILDING MATERIAL.**  
Send for our Illustrated Book "CYPRESS LUMBER AND FITTINGS" Send for Special Greenhouse Circular.  
**THE A. T. STEARNS LUMBER CO., NEPESINS, BOSTON, MASS.**  
When Writing Mention Florists' Exchange

**LORD & BURNHAM CO.,**

Horticultural Architects and Builders Steam and Hot Water Heating Engineers.

(Established 1864.)

Plans and estimates furnished on application for Greenhouses, Conservatories, and all kinds of Horticultural Buildings, erected complete with our patent iron construction; or for material only, ready for erection.



Largest Builders of Greenhouse Structures. Plans and construction embrace latest improvements. Six highest awards at the World's Fair. . . .  
Send four cents postage to New York office for latest catalogue. . . .  
NEW YORK OFFICE: GENERAL OFFICE AND WORKS  
160 FIFTH AV., COR. 21ST ST. IRVINGTON-ON-HUDSON, N. Y.

When Writing Mention Florists' Exchange

**CYPRESS GREENHOUSE MATERIAL**  
OF ANY DESCRIPTION.  
SEND FOR CATALOGUE.

**JOHN C. MONINGER CO.**  
412 to 422 NANTHORNE AV. CHICAGO, ILL.

When Writing Mention Florists' Exchange

**IF YOU WANT A GOOD SASH LIFT**  
For a Very Little Money Get

THE NEW DEPARTURE OF VENTILATING APPLIANCE.

For Descriptive Catalogue Send to J. D. CARMODY, Evansville, Ind

**GLASS** For Greenhouses, Conservatories, Graperies, Hotbeds and Florists' Uses Generally, at Lowest Rates.  
**L. HARRIS & SON.**  
457 W. BROADWAY, NEW YORK. 89 LIBERTY ST., NEW YORK. (bet. Nassau and Bleecker Sts.) (bet. Broadway and Church Sts.)

**GLASS!** For Greenhouses, Conservatories, Graperies, Hotbeds and all other purposes, at Lowest Rates.  
**N. COWEN'S SON, 392 & 394 West Broadway, New York.**  
Formerly 154 and 156 So. Fifth Avenue.  
Get our Figures before buying Glass. . . Estimates Freely Given  
When Writing Mention Florists' Exchange

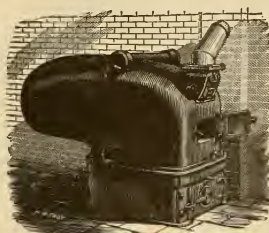
**THE VAN REYPER PERFECT GLAZIERS' POINTS**  
No rights or lefts. Price per box of 1000, 60c. by mail, 75c.; in lots of 5000 by ex., 55c. per 1000  
**HENRY A. DREER, 714 Chestnut St., Phila., Pa.**  
When Writing Mention Florists' Exchange

**CALIFORNIA RED CEDAR**  
Never Decays.  
**A. DIETSCH & CO., 819 Sheffield Avenue, CHICAGO.**  
MANUFACTURERS OF RED CEDAR AND CYPRESS GREENHOUSE MATERIAL.  
When Writing Mention Florists' Exchange

**FURMAN BOILERS**  
specially adapted to Greenhouse Heating.  
500 Styles and Sizes. Steam and Hot Water. SAFE, SUBSTANTIAL, SIMPLE, ECONOMICAL. Portable or BRICK SET. GREAT COAL SAVER.  
Send for catalogue. Estimates Free.  
**THE HERDEEN MFG. CO.,**  
Home Office: 13 Fay St., Geneva, N. Y. BRANCH OFFICES:  
Boston, 54 Oliver St.; Philadelphia, 1019 Betz Bldg.; New York, 39 Corland St.; Milwaukee, 125 3d St.

When Writing Mention Florists' Exchange

**GREENHOUSE HEATING AND VENTILATING,**  
Horticultural Architecture and Building.



**Hitchings & Co**

ESTABLISHED 1844.  
233 Mercer Street, NEW YORK.  
FIVE PATTERNS OF BOILERS, NINETEEN SIZES.  
Perfect Sash Raising Apparatus.  
Reservoirs, Greenhouses, Etc., of Iron Frame Construction erected complete or the Structural Iron Work shipped ready for erection.  
Iron Frame Brackets with the "Perfect Drainage Bench Tile" at Slate Tops.

SEND 4c. POSTAGE FOR ILLUSTRATED CATALOGUE.

**DON'T SYRINGE WITH COLD WATER**  
It lowers the vitality of your Stock, but write for particulars of our Tempering Apparatus  
**HENRY W. GIBBONS, 134 LIBERTY STREET, NEW YORK.**  
When Writing Mention Florists' Exchange

SEND FOR OUR NEW CATALOGUE, WHICH SHOWS  
**The New Automatic Cable Ventilator**  
As it is put up in the house complete. We also give you prices with a guarantee that each machine sent out will operate your house successfully. Soil machines now made in two sizes.  
**A. Q. WOLF & BRO., Dayton, Ohio.**  
When Writing Mention Florists' Exchange

**TRADE GREENHOUSES.**  
THE BEST MADE.  
"Florists" Get Your Plans and Estimate from  
**PLENTY'S HORTICULTURAL WORKS,**  
148-156 Randolph Ave., JERSEY CITY, N. J.  
When Writing Mention Florists' Exchange

**STANDARD VENTILATING MACHINE.**  
NONE EQUAL IT IN Strength AND Durability  
Send for Catalogue.  
NOTHING Flimsy OR Complicated about it.  
**E. HIPPARD, YOUNGSTOWN, OHIO.**  
When Writing Mention Florists' Exchange

**The Scollay Boiler**  
-FOR- GREENHOUSE HEATING, ETC.  
Hot Water or Steam.  
"FARMINGTON, Conn., March 9, 1896.  
"The Invisible Boiler you placed in my Carnation House has given great satisfaction. I did not have to run the boiler hard even when the thermometer stood 18 deg. below zero. It has proved 'Invisible' in every respect."  
H. C. CLARK, Florist.  
Send Stamp for Catalogue and Price List. Estimates Cheerfully Given.  
**JOHN A. SCOLLAY,**  
74 and 76 Myrtle Ave., Brooklyn,  
AND  
231 Water St., New York.  
"INVINCIBLE."  
When Writing Mention Florists' Exchange

J. K. ALLEN, Wholesale Commission Dealer in CUT FLOWERS, 87 W. 28th St., New York.

W. S. ALLEN, 17 West 28th St., New York.

J. B. EZECHEL, Wholesale Florist, 42 West 28th St., NEW YORK.

FORD BROS. WHOLESALE FLORISTS, 111 West 30th Street, NEW YORK.

WM. H. CUNTER, Wholesale Florist, VIOLETS AND CARNATIONS A SPECIALTY.

MICHAEL A. HART, Wholesale & Commission Florist, 113 W. 30th St., New York.

H. A. HOFFMANN, Wholesale Florist, 44 W. 29th St., New York.

EDWARD C. HORAN, Wholesale Florist, No. 34 W. 28th St., New York.

J. M. KING, Wholesale Commission Florist, 49 W. 29th St., NEW YORK CITY.

JULIUS LANG, Wholesale Florist, 53 WEST 30th ST., NEW YORK.



ERNST C. ASMUS Wholesale Florist. ROSE SPECIALTIES: Mrs. Carnot, Herzog, Chute, Metcor.



TELEPHONE CALL 793 1674.

A. L. VAUGHAN. CHAS. W. MCKELLAR. E. F. WINTERSON.

VAUGHAN, MCKELLAR & WINTERSON, WHOLESALE COMMISSION JOBBERS, 45, 47, 49 WABASH AVENUE, CHICAGO, ILL.

Wholesale Prices of Cut Flowers

Table with columns for New York, Boston, Philadelphia, Chicago, and St. Louis prices for various flower types like A. Beauty, Bennett, Bride, etc.

For Prices of Fancy and Special Stock see our Correspondence Columns. Prices are for quantities of one hundred unless otherwise noted.

REINBERG BROS., Wholesale Growers of Cut Flowers, 500,000 Feet of Glass.

We can fill all orders on short notice with all leading varieties of ROSES and CARNATIONS. We are headquarters for fine AMERICAN BEAUTIES.

SAMUEL S. PENNOCK, WHOLESALE FLORIST. A fine stock of Roses, Valley, Carnations, Smilax, Etc.

EXTRA FINE STOCK OF BEAUTIES. A choice assortment of CYPRIEDIUMS, \$2.50 per dozen. 1612-1614 Barker St. Bet. Chestnut & Market Sts. Philadelphia, Pa.

CITY HALL CUT FLOWER MARKET, 15 Province St. and 9 Chapman Place, WELCH BROS., (Long Distance Telephone 2071), Boston, Mass.

New England headquarters for Choice Chrysanthemums, American Beauties, and other varieties of Roses, Carnations, Violets, etc.

MacDonald & McManus, Wholesale Florists and Dealers in CUT FLOWERS, 50 W. 30th St., NEW YORK.

FRANK MILLANG, Wholesale Commission Dealer ...in Cut Flowers... 408 East 34th St., New York City.

THE NEW YORK CUT FLOWER CO. 119-121 West 23rd Street, 117-119 West 24th Street, Telephone 216-3943 St.

W. F. SHERIDAN, Wholesale Commission Dealer in CUT FLOWERS, 39 West 28th St., New York.

FRANK L. TRAUBNEY, CHARLES SCHENCK, TRAENDLY & SCHENCK, Wholesale Florists, 38 W. 23rd St. and CUT FLOWER EXCHANGE, NEW YORK.

JOHN YOUNG, Wholesale Florist, 51 WEST 28th ST., NEW YORK.

FRANK S. HICKS, Wholesale Florist, 40 BOERUM PLACE, Tel. 1725 Brooklyn, Brooklyn, N. Y.

C. A. KUEHN, WHOLESALE FLORIST, 1122 Pine St., St. Louis, Mo. A COMPLETE LINE OF WIRE DESIGNS.

C. W. WORS, Wholesale Florist, 313 N. LEFFINGWELL AVENUE, ST. LOUIS, MO. FINE ROSES - Shipped carefully to all parts of the country.

Buffalo Cut Flower Exchange WHOLESALE COMMISSION. 481 Washington St., BUFFALO, N. Y.

**Wholesale Florists** **JOBBERS IN**  
 ALLWAYS OF HANDS  
 CROATIAN,  
 BRONZE,  
 BRONZE.  
  
**FLORIST'S SUPPLIES.**  
**FLORISTS' VASES.**  
 Horticultural Accessories.  
 84 HAWLEY STREET, - BOSTON.

**GEO. A. SUTHERLAND,**  
 Successor to W. J. STEWART,  
**CUT FLOWERS and FLORISTS' SUPPLIES**  
**WHOLESALE.**  
 67 Bromfield St., Boston, Mass.

**WM. J. BAKER,**  
**Wholesale Florist**  
 1432 So. Penn Square,  
 Philadelphia, Pa.

**DUMONT & CO.,**  
**WHOLESALE FLORISTS**  
**CARNATIONS A SPECIALTY.**  
 No. 1.05 Filbert St., Philadelphia.  
 \*PHONE, 3922 D.

**Baltimore.**  
**The Best Chrysanthemums.**  
 At a meeting of the Gardeners' Club, held recently, the following were declared the best chrysanthemums for cultivation: White, Mrs. Robinson; early dark, George W. Childs; early, medium, and late, white, Mrs. George S. Kald; the Niveus and Minnie Wanamaker; best pink, Maud Denn; Wissant-Morel; and Glory of the Pacific; best yellow, Eugene Dullemeau, Mrs. Whilldin, and J. E. Langer; best yellow, pink, and white for late planting, Golden Wedding, Janice, and Mrs. Jerome Jones.  
**The Market.**  
 There has been a good call for chrysanthemums this week, especially the larger varieties. Violets are in good demand, but roses are not over-abundant, nor is the demand for them great. Carnations are as popular as ever.  
**Notes.**  
 The Y. M. C. A. of this city is holding a bazaar, in connection with the same several of our leading chrysanthemum growers are making exhibits, but in view of the fact that this is not a competitive show, the same interest is not taken in it by the public. It is pity that we could not secure way clear to have a show this year.  
 One of our new department stores here at its opening had a grand display of natural palms and large showy chrysanthemums. It is gratifying that some of these large establishments had that natural plants are the most effective decorative material. Of late it has been very noticeable that a great many artificial palms have been used on such occasions as openings, and this has had a detrimental effect upon the natural plants.  
 EDWIN A. SEIDWITZ

**HAVE YOU EVER TRIED**  
**THE MEYER GREEN SILKALINE?**  
  
 Price \$125 per lb. For sale everywhere. Parry & Sons for the Boston, MEYER & CO., 87 Summer Street, BOSTON, MASS., U. S. A.  
 When Writing Mention Florists' Exchange

**S. FROWERT,**  
**Wholesale Florist,**  
 17 North 13th Street,  
 PHILADELPHIA, PA.  
 Commitments Solicited. Special Attention Given to Shipping Orders.

**CHAS. H. MILLER,**  
**Wholesale Florist**  
 No. 6 So. 19th Street,  
 PHILADELPHIA, PA.

**EDWARD REID,**  
**Wholesale Florist**  
 1526 RANSTEAD STREET,  
 Bet. Market & Chestnut Sts., PHILADELPHIA.  
 All CUT FLOWERS in Season.  
 \*Phone 3966 A.

**WM. C. SMITH,**  
**Wholesale Florist,**  
 40 S. 16TH ST.,  
 PHILADELPHIA, PA.  
 Roses, Carnations, etc. Commitments Solicited.

**CHOCOLATE COOLER CO.,**  
**GRAND RAPIDS, MICH.**  
 Manufacturers of  
**FLORIST'S REFRIGERATORS.**  
 Send for Circular.  
 When Writing Mention Florists' Exchange  
 "JADOO"  
 FIBRE and LIQUID are used and endorsed by the leading growers. Try them and be convinced.  
 When Writing Mention Florists' Exchange

**GOLD FISH.**  
 Fine Healthy Stock.  
 Medium to large size, \$10.00 per 100. Cash with order. No charge for shipping cases. Gold Fish can be shipped by Express thousands of miles with safety and are a profitable and attractive stock to handle.  
 Full line of Aquaria Supplies.  
**KEENAN'S SEED STORE.**  
 6112 and 6114 Wentworth Ave., CHICAGO.  
 When Writing Mention Florists' Exchange

**Boston Florist Letter Co.**  
  
 This wooden box nicely stained and varnished, \$1.50 \$1.25 made in two qualities, one for each size letter, gives away with first order of 500 letters.  
 Stock Letters, 1 1/2 x 2 1/2 each sets per 100, \$5.00  
 Sample Letters, \$1.00  
 Enclosed with each letter or word card.  
 Made by leading florists everywhere and for sale by all wholesale florists and supply dealers.  
 N. F. McCARTHY, Treas. & Manager.  
 100 N. STATE ST., BOSTON, MASS., U. S. A.  
 When Writing Mention Florists' Exchange

**ILLINOIS CUT FLOWER CO.,**  
 J. B. DEAMUD, MANAGER.  
**Wholesale Commission Florists,**  
 51 Wabash Ave., - CHICAGO.

**KENNIGOTT BROS. COMPANY,**  
**Wholesale - Cut - Flowers,**  
 88 Wabash Avenue,  
 CHICAGO, ILL.  
**WIRE WORK A SPECIALTY.**

**ROGERS PARK FLORAL CO.,**  
**Wholesale Growers of Cut Flowers**  
 OFFICE AND SALESROOM  
 41 WABASH AVE., CHICAGO.  
 Headquarters for AMERICAN BEAUTIES.

**MAX RUDOLPH,**  
**Wholesale Florist**  
**FINE ROSES.**  
 Shipping orders a specialty. Commitments solicited.  
 11 W. 12th St., - CINCINNATI, O.

**H. L. SUNDERBRUCH CO.,**  
**Wholesale Commission Florists,**  
 4th and Walnut Streets,  
 CINCINNATI, OHIO.  
 Commitments Solicited. Special Attention Given to Shipping Orders.

**HEADQUARTERS** in Western New York. Try us  
**ROSES, CARNATIONS AND ALL SEASONABLE FLOWERS.**  
**WM. F. KASTING,** Wholesale Commission Florist  
 495 Washington Street,  
 BUFFALO, N. Y.  
 Also Dealer in Florists' Supplies & Wire Designs

  
**St. Louis Cut Flower Co.**  
**WHOLESALE FLORISTS,**  
 1620 Olive St.  
 ST. LOUIS, MO.

**E. G. HILL & CO.,**  
**Wholesale Florists,**  
**RICHMOND, INDIANA.**  
 When Writing Mention Florists' Exchange

**N. B. . . . . N. B.**  
**Growers, Dealers and Buyers,**  
**WE ARE OPEN AND READY FOR BUSINESS AT**  
**4 Ordway Place, BOSTON, MASS.**  
**GALVIN & CO.**  
**Wholesale Florists and Dealers in all Florists' Supplies**  
 Fully equipped for Cut Flower Commitments, and can command the best market. . . . .  
 When Writing Mention Florists' Exchange

**REED & KELLER** **FLORISTS' SUPPLIES**  
 122 W. 25th Street,  
 NEW YORK CITY.  
 When Writing Mention Florists' Exchange

**Emil Steffens** SUCCESSOR TO N. STEFFENS  
 Manufacturer of SILKALINE BROS!  
**FLORISTS**  
**WIRE DESIGNS**  
 - AND SUPPLIES -  
 ESTABLISHED 1866.  
**335 EAST 21<sup>ST</sup> STREET, NEW YORK CITY.**  
 When Writing Mention Florists' Exchange

**A SET OF Long's Florists' Photographs**  
 BELONGS IN EVERY WELL REGULATED RETAIL FLORIST'S ESTABLISHMENT. THEY HELP BUSINESS, AND GAIN IN PROFITS.  
 Sixteen page Catalogue FREE.  
**DAN'L B. LONG, Publisher,** - - BUFFALO, N. Y.  
 When Writing Mention Florists' Exchange

# AT AUCTION TO COVER FREIGHT AND DUTY ON TUESDAY and FRIDAY, NOV. 23 and 26, AT OUR SALESROOMS, 54 and 56 DEY ST., N. Y.

We will offer half the consignment of 20 cases, per Steamer Edam, containing **Buxus, Retinospora, Weymouth Pines, Clematis, Lebanon Cedars, Rhododendrons, Dwarf and Tree Roses, Hydrangeas, and** two more cases of bulbous stock, by order of **VAN TOL & CO.**

This is an opportunity which will not afford itself again to procure these goods at your own figures as they must be sold.

**WM. ELLIOTT & SONS,**  
AUCTIONEERS.

## SAVE 50% DUTY

**ON METAL FLORAL DESIGNS** By Buying of the Manufacturer. Also on **PREPARED CYCAS PALM LEAVES** Largest Stock, Lowest Prices.

**ALL FLORISTS' SUPPLIES SECOND TO NONE. WRITE FOR CATALOGUE.**  
**A. HERMANN.** 404, 406, 408, 410, 412 East 34th Street, NEW YORK CITY.  
Manufacturer of METAL FLORAL DESIGNS, Importer and Dealer in FLORISTS' SUPPLIES.

## Florists' Supplies.

Largest Stock in the Country.  
All goods up to date, and of superior quality.  
Write for prices and other information.

**H. BAYERSDORFER & CO.,**  
66 N. FOURTH STREET, PHILADELPHIA, PA.

## Standard Flower Pots.

Sold for our New Price List with extra discounts. All our Pots, from 7 in. and upwards, having Patent Escalator Patent, which is a great advantage, as it insures perfect drainage.  
A FULL LINE OF BULB PANS.  
**THE WHILLDIN POTTERY CO.,** 713 to 719 Wharton Street, PHILADELPHIA  
BRANCH HOUSES: Kearney and Westside Aves. Jersey City, N. J.  
Jackson Ave and Pearson St. Long Island City, N. Y.

## FLOWER POTS

We are Manufacturers of a Full Line of **STANDARD FLOWER POTS and HANGING BASKETS** OF THE BEST QUALITY.  
Shipping Facilities First-Class, thereby securing Lowest Freight Rates. Our goods are well packed, and breakage is nominal. Give us a trial. Send for Price List.  
address **THE SYRACUSE POTTERY CO., 403 N. SALINA ST., SYRACUSE, N. Y.**

# PALMER'S HOT BED MATS

## FROST PROOF.

**MADE** expressly for winter covering of hotbeds, cold frames, plants and seeds of all kinds.



**Indestructible, and Warm**

Will not harbor vermin. Easy handling. Have been in practical use three years. Costing less than half as much as old-fashioned straw mats and entirely taking their place.

Made in regular sizes, 76x76 inches and 76x40 inches, or any size desired sold by the running foot 76 inches wide.

We also make the cheapest, warmest and strongest **HORSE BLANKET** in the world, weighing 9 lbs.

# THE R. T. PALMER CO.,

Or New London, Conn. 113 Worth Street, New York.

When Writing Mention Florists' Exchange

## STANDARD POTS.

We are now ready to supply a superior quality of Pots in unlimited quantities. Catalogues and price lists furnished on application.

**A. H. HEWS & CO.,**  
NORTH CAMBRIDGE, - MASS.  
When Writing Mention Florists' Exchange

## STANDARD FLOWER POTS

In any quantity, and of the best quality. Get my price list before ordering elsewhere.

**W. H. ERNEST,**  
Station M, N. E., WASHINGTON, D. O  
When Writing Mention Florists' Exchange

## SUPPLIES

Wholesale of all kinds for Florists' store, greenhouse and garden; Seeds of choicest strains, and Bulbs in season. Metal Floral Designs. Benches, Potbenches, Plantstands for the holiday trade. China and Metal Fern Dishes in the assortment. Ironmongery, Cap Papers, Christmas Greens and all for low price.

**AUGUST BOLKER & SONS,**  
52 DeY St., New York.

## PLANT LABELS

Best grade of stock, 15 cts. per 100. Florists' order printed supplies at corresponding low prices. Send for samples.

**PAYTON & BENNETT Printers,**  
4 and 6 N. Lincoln Street,  
SPRINGFIELD, OHIO.  
When Writing Mention Florists' Exchange

**BELLIS (Daisies).** Finest strain of Bellis and good colors; strong, sticky plants, 50c. per 100, by mail; \$2.50 per 100, by express.

**J. C. SCHMIDT & CO.,** Bristol, Pa.  
When Writing Mention Florists' Exchange

## DO YOU WANT A BARGAIN

HERE! in rooted cuttings of Geraniums! These are in quick or you will miss it! Single Green, \$3.00 per 1000; Double Green, \$1.00 per 1000; Striped, \$1.00 per 1000; La Favorita, \$1.00 per 1000, and a few other varieties, \$1.00 per 1000.  
Extra fine strong Piriforme plants, best strain to be had, ready for 8 and 4 inch pots, \$3 per 100. For two weeks only to reduce stock.

**GEO. M. EMMANS, Newton, N. J.**  
When Writing Mention Florists' Exchange

## CINERARIAS.

Dwarf hybrid, 3/4 inch pots, per 100, \$1.50; by express, \$10.00 per 1000. Single Green, \$3.00 per 1000; Double Green, \$1.00 per 1000; Striped, \$1.00 per 1000; La Favorita, \$1.00 per 1000, and a few other varieties, \$1.00 per 1000.  
**F. FRYER,** Berrian St. and New Lots Ave., Brooklyn, N. Y.  
When Writing Mention Florists' Exchange

## Cyclamen for Christmas.

4 inch pots, only \$2.50 per Doz., \$20.00 per 100. 5 " " " " 4.00 " " " " 6 " " " " 6.00 " " " "

**MOONVINE** from 2 in. pots, \$2.00 per 100. Cash with order.

**AUG. EGGERT, Florist, East St. Louis, Ill.**  
When Writing Mention Florists' Exchange

Smilax, strong, 1 year, none better, \$1.00 each \$2.50 per Doz. \$20.00 per 100.  
Peonies, herbaceous, choice assortment, \$2.00 per 100.  
Barbicans, Poch's, double and single, 75c. per 100.  
Daisies, Snowflake and Showdritz, \$2.00 per 100.  
M. F. Flower in assortment, \$10.00 per 100.  
Clematis in choice assortment. Write for prices.  
Dwarfing 60c. per 100. Seed and two years.  
Dwarf Jacks to competitors, best red.

**F. A. BALLER, Bloomington, Ill.**  
When Writing Mention Florists' Exchange

## CLEMATIS PANICULATA

From 2 1/2 in. pots, \$3.00 per 100. CLEMATIS FLAMMULA, 10 inch-growth, \$4.00 per 100.  
**VARIEGATED VINCAS,** from 4 in. pots, \$5.00 per 100.  
**CALIFORNIA VIOLETS,** field-growth, \$4.00 per 100.  
**C. EISELE, 11th & Jefferson Sts., Philadelphia, Pa.**  
When Writing Mention Florists' Exchange

**WYCLAMING GIGANTEUM** 5 in. pots to be had and 3 1/2 in. to be had, \$1.25 per doz., \$10.00 per 100. **FOR FERN'S.** **J. AND E. DE WALT, Box 55, Carlisle, Pa.**  
When Writing Mention Florists' Exchange

## ROOTED CUTTINGS.

By the Thousand. By Mail.

Double Petalun, 50 varieties.....	Per 100	\$1.25
100 Varieties this year.....	100	1.50
Not less than 20 of a kind.....		
Begonia flowering, 23 varieties.....	\$1.50-2.00	
" Hugobwell.....	2.50	
Geraniums, variegated.....	1.50	
Ivy Geraniums, 10 varieties.....	1.50	
Azaleas, Boule de Neige.....	Splendid	
Yellow Pine.....	1.50	
Belton.....	1.50	
Malva's Hybrid.....	1.00	
Yellow Bell.....	1.00	
Cyprus, egg plant.....	.75	
Ageratum, white and blue.....	.75	

## PLANTS.

Primula Obconca, var. fine, 2 in., 500	
Chinese, 5 varieties, finest	5.00
English variety, 2 in.	5.00
Begonia Metallics and Margarita, 4 in.	4.00
Golden Star, 4 in.	2.00
Double Petalun, 2 in., 40 varieties	5.00
Giant California Daisy, 2 in.	3.00
Abnition 4 varieties, 2 in.	3.00
1000 SMILAX left, 2 in., to close out before our friends.....	.50
Cash with other piece.	

**GEORGE J. WUGHES, Berlin, N. J.**

# GOSTACK CANNAS.

Strong, dormant roots of the following varieties: A. Bouvier, Austria, Chas. Henderson, Columbia, Count de Bruchand, Italia, John White, Mrs. Crozy, Professor, Queen Charlotte and Souv. de A. Crozy. Prices on application.

## CYCLAMEN.

Giganteum, to color, 6 in. pots.....	Doz.	\$5.00
Mixed, 6 in. pots.....	5.00	40.00
6 in. pots.....	5.00	25.00
Mixed, 6 " " " " " " "	2.50	20.00
Perfumum Grandiflorum, 6 in. pots.....	75	5.00

The above are very fine stock and well set with buds. Order now as prices will advance next month.

Maranta bi-color, fine for fern	Doz.	100
parts 3 in.....	\$0.75	\$5.00
Nephrrolepis Exaltata, 5 in. pots.....	5.00	50.00
Nephrrolepis Cordata Compacts, from flats.....	75c.	per doz. \$10. per 100.
From 3 in. pots, \$1.50 per doz.; \$12.50 per 100.		
From 4 in. pots, \$2.50 per doz.; \$20.00 per 100.		

**SEAWAHAKA GREENHOUSES,**  
OYSTER BAY, QUEENS CO., N. Y.  
J. W. O'CONNOR, Supt. P. O. Box 34, W. L. SWAN, Prop.  
When Writing Mention Florists' Exchange

# LIVE FLORISTS' EXCHANGE

We are a straight shoot and aim to grow into a vigorous plant.

A WEEKLY MEDIUM OF INTERCHANGE FOR FLORISTS, NURSERYMEN, SEEDSMEN AND THE TRADE IN GENERAL.

VOL. IX. NO. 48. NEW YORK, NOVEMBER 27, 1897. One Dollar Per Year.

## LOOK AT THESE PRICES CLOSE HILL NURSERY.

Stock Offered at a Big Sacrifice in Order to Close Out Surplus.

### A BARGAIN IN FINEST NAMED TULIPS.

We offer, as long as unsold, finest named varieties at the price of common mixtures. Will apply the following sorts at only \$4.50 per 1000, viz:

Arms of Leiden,	Bizard Verdlet,	Cardinal's Hat,
Comteur Ponceau,	Crimson King,	L'immuable,
Duc von Thulzeart,	Flax Alba,	Duchesse de Parma,
Hiane Borde Pourpre,	gloria solis,	Queen Victoria,
Eleonora,	La Reine,	Pearcy Red,
		Titan.

The following sorts at \$9.00 per 1000, viz:

Chrysolora,	Rosamundi Huykman.
-------------	--------------------

**HYACINTHUS MINIATURE OF DUTCH ROMANS**, single and double finest named sorts, our selection, about equal proportion of dark red, rose, white, light and dark blue, only \$10.00 per 1000; regular price \$12.00.

**GLADIOLUS COLVILLI ALBA "THE BRIDE"**, \$3.00 per 1000; regular price \$6.00.

**NARGISSUS Von Sion**, extra selected mammoth bulbs or top roots, \$17.50 per 1000; regular price, \$18.00.  
**Principe and Trumpet Major**, \$10.00 per 1000; regular price, \$12.00  
**Alba Plena Odonata**, incomparable fl. pl., incomparable Stella, and **Campernelle Jonquil**, \$3.00 per 1000; regular price, \$6.00.  
**Pochius**, \$3.00 per 1000; regular price, \$4.50.  
**Orange Phoenix**, \$15.00 per 1000; regular price, \$16.50.

### A Fine Lot of SPIRÆA for Easter Forcing.

Case lots of **Spiræa Japonica**, \$9.00 per case.  
**Astiloides Floribunda**, \$12.50 per case.  
**Compacta Multiflora**, \$15.00 per case.

Terms to customers of approved credit, net 60 days, OR FOR CASH ACCOMPANYING ORDER, A FURTHER DISCOUNT OF 10 PER CENT. FROM THESE SPECIAL RATES, which will make many of these items less than cost. Can offer at this sacrifice only because it is late in the season and in order to close out stock. **Speak quick for what you want as stocks are going rapidly.**

**F. R. PIERSON CO.,**  
 TARRYTOWN-ON-HUDSON, NEW YORK.  
 When Writing Mention Florists' Exchange

THE LARGEST HORTICULTURAL ESTABLISHMENT IN AMERICA.

## OUR STOCK IS HOME GROWN. COOL GROWN.

... SPECIALTIES ...

- |                               |                                  |
|-------------------------------|----------------------------------|
| ARECA LUTESCENS . . . . .     | LIVISTONA ROTUNDIFOLIA . . . . . |
| COCOS WEDDELIANA . . . . .    | PHENIX RUPICOLA . . . . .        |
| KENTIA BELMOREANA . . . . .   | PHENIX RECLINATA . . . . .       |
| KENTIA FORSTERIANA . . . . .  | PHENIX CANARIENSIS . . . . .     |
| LATANIA BORBONICA . . . . .   | DRACÆNAS (in variety) . . . . .  |
| FICUS ELASTICA . . . . .      | ARAUCARIA EXCELSA . . . . .      |
| PANDANUS VEITCHII . . . . .   | FERNS FOR JARDINIERS . . . . .   |
| FERNS, IN SPECIMENS . . . . . | TREE FERNS . . . . .             |

The Largest and Finest Collection of

## STOVE GREENHOUSE PLANTS.

If you need anything in the Fancy Line for Private Places, call and see us. Write, telegraph or telephone and our carriage will meet you.

**SIEBRECHT & SON,** NEW ROCHELLE, N. Y.  
 NEW YORK OFFICE, 409 5TH AVE. Telephone, 151 N.Y.C.  
 When Writing Mention Florists' Exchange

## PALMER'S HOT BED MATS.

FROST PROOF.

MADE expressly for winter covering of hotbeds, cold frames, plants and seeds of all kinds.

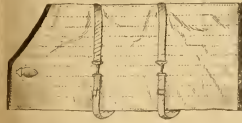


Indestructible, Cheap  
and Warm

Will not harbor mice or vermin. Easy handling. Have now been in practical use three years. Costing less than half as much as old-fashioned straw mats and entirely taking their place.

Made in regular sizes, 76x76 inches and 76x40 inches, or any size desired sold by the running foot 76 inches wide.

**WE ALSO MAKE  
 QUILTED  
 HORSE BLANKETS,**  
 The Cheapest, Warmest and  
 Strongest in the World,  
 WEIGHING 9 POUNDS.



**THE R. T. PALMER CO.,**  
 Or New London, Conn. 113 Worth Street, New York.  
 When Writing Mention Florists' Exchange

## GERANIUMS

Strong, Well-Established Stock, from 2 Inch Pots.  
 The Following Varieties Now Ready: . . . . .

Mme. Jones, Mme. de la Ronx, La Favorite, W. A. Chalfant, Pres. Dubois, Madonna, Alph. Ricard, Leonard Kelway, Beante Pottevin, S. A. Nutt, Rev. Atkinson, Mme. Buchner, Mrs. A. Blanc, Muret, Double Gen. Grant, Mme. Ch. Molli, Glori de France and Ateson.

For Later Delivery—J. J. Harrison, E. Leguere, R. Audiguere, Comtesse de Deane, Bonnat, Mary Hill, Bonne de Villeneuve, Comtesse de Castris, Triumph of Nancy, William Pflizer, Mme. Javilla, H. de Bornier, Comtesse de Harcourt, Athlete, Olivia, Dr. Rothera, James Kelway, L. Swartling, Mrs. F. G. Hill, H. Danthony, Mme. Brunat, Ben. Schroeder, Columbia, Midsummer, Gertrude Pearson, Marchion, Silver Queen, Gettysburg, also a fine collection of very Geraniums and Pelargoniums.

## CANNAS

REMEMBER we hold the entire stock of James Dean's PEDIGREE SEEDLINGS.

**President William McKinley**, Columbia brilliant crimson, with scarlet shading. Plant dwarf, growing from 2 1/2 to 3 feet high in rich soil. Foliage deep green, with heavy chocolate margin. Plant stools freely and is an abundant and very early bloomer. The flower shades are highly colored as in Alphonse Bouvier. The trusses are large, of good shape, and held well above the foliage, and the growth is compact and even. This variety may be considered a marked improvement upon Chas. Henderson, Columbia and other crimson cannas. The effect when massed is extremely brilliant, the color contrasting finely with the deep green foliage. We place this variety at the head of the list of crimson cannas, and believe that it will prove invaluable for bedding purposes. Certificated. Trade price, 75 cents each; \$60.00 per 100, from 4 inch pots.

**Defender**, Color clear yellow, striped with bright scarlet. Height 3 to 3 1/2 feet. Habit somewhat resembling Columbia. An early, very profuse bloomer, producing fine large heads of broad petalled flowers. Foliage clean, distinct, and a good grower. This canna will prove very effective for massing, as it produces a greater proportion of flowers to the foliage than almost any other yellow canna. Certificated. 75 cents each; \$60.00 per 100, from 4 inch pots.

Also all the other standard varieties of Cannas.  
 It will pay you to send us a list of what you need and allow us to make you special quotations.

**THE COTTAGE GARDENS, Queens, N. Y.**  
 When Writing Mention Florists' Exchange

# TAKE YOUR TIME

We have a few more cases left of



- LILY VALLEY, Hamburg grown, ex. selected, 1000, \$10.00  
Original cases, 2500 24.00
- UNXLD HOLLY, smooth-leaved, nicely bred, 2x2x4 cases 5.00
- BOUQUET GREEN, Northern New York grown, bags 100 lbs 6.00
- MUSHROOM SPAWN, NEW, 100 lbs 8.00
- IMMORTELLES, Red, White, Blue and Yellow, dozen bunches 3.00
- COPE FLOWERS, lb .75
- CHINESE LILIES, 100 4.00

**WILLIAM ELLIOTT & SONS, 54 and 56 Dey St., New York.**  
When Writing Mention Florists' Exchange



## JAPAN BULBS

Orders sent before **NOVEMBER 10th**, will receive discount of 5 per cent. from catalogue prices. Sent for first last.  
Also "CALIFORNIA GROWN SEEDS" SWEET PEA, and all other FAVORITE FLOWER SEEDS.  
Address **H. H. BERGER & CO.,** St. Paul's Building, 220 Broadway, New York.

- LILIAM HARRISII, 5x7, \$20.00
- LILIAM LONGIFLORUM, Japan grown, 7x9, \$40.00 per 1000.

Roses, hybrid, low-budded, in only the best market varieties.  
**Spiraea Japonica** and **Compacta Multiflora**, just arrived.  
**Lily of the Valley** will be in this week.

WRITE FOR LOWEST PRICES IF YOU WANT FINE STOCK.  
**F. W. O. SCHMITZ,** - - - **JERSEY CITY, N. J.**  
When Writing Mention Florists' Exchange

# GLADIOLUS

FOR FORCING.

- SHAKESFARE, white.....Per 1000, \$10.00; per 100, \$5.00
- ISAAC BUCHANAN, yellow....." 25.00; " 3.00
- MONNERET, pink....." 10.00; " 1.00
- WHITE AND LIGHT MIXED....." 25.00; " 3.00

CASH WITH ORDER FROM UNKNOWN CORRESPONDENTS.

**CHAS. H. ALLEN,**  
FLORAL PARK, N. Y.

When Writing Mention Florists' Exchange

# Imperial Japanese.... Morning Glory Seed

GROWN BY

**A. W. SMITH, AMERICUS, GA.**

Crop of 1897, now ready for delivery, is the product of selected seed from product of the best seed I could buy in 1898, paying \$45.00 per pound for same, and much more for others in packets. This seed is from blooms measuring to 1 3/4 inches across, infinitely superior in every respect to product of seed bought in 1896.  
This seed will produce blooms single, semi-double, double, plain, quilled, ruffled, crimped, scalloped, and slashed; containing every hue and color, except yellow, including all shades of red, violet, darkest purple, blue (from indigo through Ecstasy) to electric pink, chocolate, smoke, shrimp, and white. In solid colors, as well as some colors marked with white, and whites marked with blue, pink, smoke, chocolate, and purple; some blooms are one-fourth to one-third purple, pink or blue, with remainder white, and others have markings so frankish as to be indescribable; the whole surpassing in size, beauty and markings any plants in any other season. American or Japanese, and reaching me to offer the best seed that money can buy. The blooms generally have throats differing in hue from body of bloom.

Price, per pound, \$6.00.

For large quantities write for quotations to....

**A. W. SMITH, (The Moon Flower Man)  
AMERICUS, GA.**

The largest grower in the world of these Seeds, Smith's Hybrid Moon Flowers, Ipomoea Setosa and Northern Light.

When Writing Mention Florists' Exchange

# AMERICAN BULB COMPANY,

Proprietors  
**U. S. EXOTIC NURSERIES,**  
Wholesale Growers and Importers. Specialties: BULBS, PALMS, FERNS,  
AND FLOWER SEEDS.

Special estimates on Horticultural Stock of all kinds cheerfully made on

When Writing Mention Florists' Exchange

**W. and D's "SURE CROP"  
MUSHROOM SPAWN**  
HYACINTHS, TULIPS, NARCISSUS, &c. &c.  
SPECIAL PRICES TO CLUBS.  
**WEBER AND DON,** Seed Merchants and Exporters,  
114 Chambers St., New York, N. Y.  
When Writing Mention Florists' Exchange

**GLADIOLI BULBS**  
White and light, artists' mixture..... 100 12.00  
" 2 1/2 inch, white..... 50 6.00  
" standard mixture..... 50 6.00  
" 2 1/2 inch, pink, white and yellow..... 30 3.00

Separate colors, red, pink, white and yellow. Large undivided seed clumps. Best kinds for forcing in Aug., \$2.00. Cash or reference.  
**WM. A. FINNER, Hicksville, L. I.**  
When Writing Mention Florists' Exchange

**CLUCAS & BODDINGTON CO.,**  
Importers, Exporters and Growers' Agents of  
Plants, Seeds and Bulbs,  
601 and 603 W. 13th St.  
Telephone Call, 405 15th St., NEW YORK CITY.  
When Writing Mention Florists' Exchange

**BURPEE'S SEEDS**  
PHILADELPHIA  
WHOLESALE PRICE LIST  
FOR FLORISTS AND MARKET GARDENERS  
When Writing Mention Florists' Exchange

**COSMOS**  
GIANT FLOWERED, EARLY BLOOMING.  
Six splendid varieties, separate, \$1.00 per ounce mixed, 25 cts. per ounce.  
New Callipaula Inc. grand, vibrant flowered Callipaula, 1000 seeds, \$1.50 per ounce. Special prices on quantity.  
Apple Coreopsis, 1000, 1000 seeds; \$7.50 per 10000 seeds.  
Marian Kestrel or Arystallan Banana, 75 cts. per 100 seeds; \$6.00 per 1000 seeds.  
New for this season, after October 1st, 40 cts. per 100; \$3.00 per 1000 seeds.  
Celia Lily, 2500, price on application.  
Send for Trade List of Nougata, Seeds, Plants, Bulbs and Cacti.

**MRS. THEODOSIA B. SHEPHERD**  
Ventura-by-the-Sea, Cal.  
When Writing Mention Florists' Exchange

**SEEDS**  
KENTUCKY BLUE GRASS (*POA PRATENSIS*),  
**CHAS. E. PRUNTY,**  
MAIN AND MARKET, SAINT LOUIS.  
When Writing Mention Florists' Exchange

## TOBACCO STEMS

Strong and Fresh, 900 lb. bales, \$1.50 per bale.  
**TOBACCO STUB,** \$1.00 per bag, 50 lbs.  
MUSHROOM SPAWN, BULBS, Etc., at lowest prices.

**H. G. FAUST & CO.,** 61 & 63 N. Front St.  
Philadelphia, Pa.  
When Writing Mention Florists' Exchange

**BARGAINS IN BULBS**  
Hyacinths..... Per 1000 \$12.00  
Roman, 11-12 cm..... 17.50  
" 12-15..... 20.00  
Single Dutch bedding, separate colors..... 23.00  
" " forcijac..... 25.00  
" " Named forcing, in sorts, 24 size..... 45.00  
" " lat..... 35.00  
Lilium Longiflorum, Japan, 2-5 in..... 8.00  
Narcissus Trumpet Von Sion..... 23.00  
Trumpet Trumpet..... 7.00

**CASH WITH ORDER.**  
**HULSEBROEK BROS., Englewood, N. J.**  
When Writing Mention Florists' Exchange

**PALM**  
Seed FRESH ON HAND  
Cocoen Weddeliana \$18 00 3000  
" " " 125 00 2500  
" " " 125 00 2500  
**L. L. SCHILLER, 404 E. 34th St., NEW YORK**  
When Writing Mention Florists' Exchange

## MONEY IN BULBS

Chinese Narcissus, true, per 120 bulbs, \$1.50; per 1000 \$20.00.  
Lilium Longiflorum, 5-7, per case 500, \$8.00; 7-9, per case 100, \$8.00.  
White Roman Hyacinth, 12-15, per 1000, \$17.00; 11-12, per 1000, \$10.00.  
Paper White Narcissus, per 1000, \$45.00.  
Buttercup Oxalis, per 1000, \$5.00.  
Freesia Lily, extra Alba, per 1000, \$5.00.  
Lily of the Valley, from cold storage, for Christmas blooming, per case 250, \$20.00.  
Tulips, Keizerscroon, Yellow Prince, La Helme, Duo von Toel, scarlet, Double, single, in mixture.  
Also Named Hyacinths, Yellow Crown Narcissus Trumpet Major, etc., at closing out prices.

**C. H. JOOSTEN, IMPORTER,**  
103 GREENWICH STREET, NEW YORK.  
When Writing Mention Florists' Exchange

**DREER'S  
Mushroom Spawn**  
New shipment for second crop planting just received, plant in December for Spring cutting which is the most profitable.  
\$7.50 per 100 lbs.  
70.00 per 1000 lbs.  
250 lbs. or over at 1000 lb. rate.  
**HENRY A. DREER,**  
714 Chestnut St., PHILADELPHIA.  
When Writing Mention Florists' Exchange

SEED TRADE REPORT

Points and information from seedsmen, and all interest in this column, solicited. Address in care of Florists' Exchange, P. O. Box 107, New York.

AMERICAN SEED TRADE ASSOCIATION. 100 Broadway, N. Y. President: E. B. CLARK, Milford, Conn. 1st Vice-President: S. F. WILLARD, Waterford, Conn. Secretary and Treasurer.

New York.—Henry Peterson & Co., 35-37 Cortland street, announce that after December 15 they will retire from the wholesale and jobbing seed trade, and will in future deal direct with the planter.

C. Morse, of Santa Clara, California, was a visitor this week. Mr. Neuhard, representing Young & Halsted, of Troy, N. Y., was also a visitor.

ROCHESTER, N. Y.—Henry B. Hathaway, the assignee of Crossman Bros., seedsmen, has been granted permission by the Court to continue his business in the usual way until June 1, 1898. The creditors that have agreed to this represent 150 out of 170, and \$129,119.31 out of a total indebtedness of \$154,740.75.

Tin-foil Paper.

A recent decision of the General Appraisers is to the effect that tin-foil is dutiable on surfaced-ent paper at 30 per cent, under paragraph 308.

OBITUARY.

Oliver Landreth.

Oliver Landreth, the well-known seed merchant, died of heart disease at his home, 617 Walnut street, Philadelphia, November 21st. He was born in this city in 1830. After a public school education he entered the seed house established by his grandfather, David Landreth, in 1850, where his name became the death of his father, whose name was also David, Oliver Landreth, from that time.

He was for the past thirty years a vestryman in St. Andrew's Protestant Episcopal Church, and was one of the Board of Managers of the Episcopal Hospital, and was noted for his successful management. He was a member of the executive committee of the Board of Trade. He leaves two sons, William Dixon and Lucius S.

THE NEW PURE YELLOW DABLIA.

Clifford's "Blue" Dahlias.

And all the leading new and old Dahlias are now in full bloom on our Dublin farm at Atco, N. J. All hybrids are cordoned and invited to visit us and inspect them.

W. P. PEACOCK, Atco, N. J.

40,000 FIELD-GROWN RHODODENDRONS

10,000 HARDY PINKS.

Labels of true name, in 50 fast vans. Great care has been taken in handling and labeling roots, so all well sustained and in excellent condition. Collection contains such varieties as A. J. Lincoln, White Star, Queen Victoria, Mrs. G. L. Lincoln, Miss Wood, Pearl Park, Queen Victoria, Mrs. G. L. Lincoln, Zola, General, Mrs. Bird of Paradise, Cleopatra, Mrs. Wood, Beauty, W. P. Peacock, etc. etc. Our selection of 100, 500, 1,000, 1,500 per lot. \$5.50 per 100; \$30 per 1,000. Send for list.

50,000 GERANIUMS.

of 50 varieties, root cuttings, in best assort. ment, labeled, in 50 fast vans. W. P. Peacock, etc. etc. Our selection of 100, 500, 1,000, 1,500 per lot. \$1.00 per 100; \$5.00 per 1,000. Send for list.

A. B. DAVIS & SON, Parcelsville, Va.

When Writing Mention Florists' Exchange

European Notes.

Flower Seeds.

The cleaning up of the aster crop proceeds apace and reveals shortage on several of our variety, particularly the later sorts. At the same time growers have considerably reduced their prices of the most useful kinds, by which it is easy to discover that a large supply of 1896 seed still remains on hand. This is very hard on those growers who do not carry yearling stocks, for the exigencies of modern trade demand that they who desire to hold their own position together shall be able to meet any fair (and often very unfair) competition in price. As a rule, so far as late varieties are concerned, the crop has proved satisfactory. The Tom Thumb varieties have only given an adding crop even in the best situations, while Empress of India and King Theodore are very short indeed. Wallflower, candy-tul, godetia, clarkia, and harkpur are fairly abundant.

Vegetable seeds call for little comment just now beyond a passing reference to the present crop of extra early corn. The shortages observed during the past week are worse than those previously noted, and many growers have heavy stocks on your side; if this be the case there will probably be enough to go.

The National Chrysanthemum Society of England has held its annual exhibition during the present week. It is very interesting for the different seed firms to make a display of the products of their seeds at this show, and many of the most successful exhibits have been particularly good. This was especially the case with the St. Andrew's carrot, which has many other or other of its many synonyms on every stand. In one very important category, however, the present crop has excelled. This is evidently the carrot of the future, for although the past season has been very bad for the carrot, and especially for this vegetable, all the roots exhibited were of fine shape, large size and perfect color.

BOOKS RECEIVED.

THE WATER GARDEN.—By William Tricker. A. T. De La Mare Printing and Publishing Co., Ltd., New York, Philadelphia, P. O. Box 107.

The appearance of this handsomely gotten-up volume is another proof of the progress which has been made in any particular line attains a certain stage of development, it demands a better and more complete type of the greater interest it naturally creates. The progress made in aquatic cultivation has been phenomenal during the past decade; and the enthusiasm in this most interesting class of plants continues to study to the matter, which here, comes at a most opportune time, and from its very nature is bound to attract the attention of the horticulturist to which it is devoted. Besides being an example of the highest type of the printer's art—for the letter press, plates, and engravings are specimens of the highest quality—the book offers the grand advantage of having been written by one who has devoted years to the study of the subject, and his treatment, Mr. William Tricker's name has been synonymous with all that is good in the horticultural world. His thorough and practical acquaintance with them shines forth in every line. He has the scope of a master, and his descriptive, embracing such topics as the construction of ponds, adopting natural means, planting, hybridizing, seed sowing, propagation, building an aquatic house, wintering, correct dosing and planting of bulbs and marine, together with cultural directions for all ornamental aquatics. All these have been valuable to the horticulturist, and in addition, there are furnished very valuable lists of water plants, and a list of plants, largely new, suitable for the aquatic garden, hardy perennials suitable for growing in water, and many other suitable trees and shrubs for wet and moist situations. Margins of ponds, and the scope of the mirror, plates and eighteen full page views, several show very handsome effects, each one of which will well take its own part, by all who favor this style of garden adornment. The professional as well as the amateur will find much to interest in Mr. Tricker's book that will both interest and instruct. It is a useful and valuable work, and one in which we have pleasure in recommending it to all concerned.

CALIFORNIA PRIVET.

California Privet, extra fine plants! low rates. Prices given on application.

HYDRANGEA OTAKSA, strong plants for forcing, 8 cts. and 15 cts.

AMPELOPSIS VEITCHII, field-grown, very heavy. Prices on application.

THE ELIZABETH NURSERY COMPANY, - Elizabeth, N. J.

When Writing Mention Florists' Exchange

CALAS.

Philadelphia, best red. Maiden's Bust, best pink. Alsace, best white. Fine plants SPIRAEA ANTHONY WATERER. LOGANBERRY TIPS. Ask for prices. THE CONARD & JONES CO. WEST GROVE, PA.

When Writing Mention Florists' Exchange

ASTERS. This year's crop. Queen of Marlow, mixed, etc. 75 cts. Separate colors, white, dark blue, rose or pink, etc. 50 cts. ready in all blue, free. Cheaper than Washington's dry seeds. W. H. BALLER, W. Adams, N. Y.

When Writing Mention Florists' Exchange

GRAPES!

True Berlin and Hamburg Pips, A1 quality, and very evenly assorted, 3 import prices, in case lots only

J. L. SCHILLER, 404 E. 34th St., New York. Sole Agent for F. C. Pomrencke, Hamburg.

When Writing Mention Florists' Exchange

CHINESE SPORED LILIES.

One of the best selling bulbs for the retail consumer.

Sinclair Chaco Stock, 100, \$4.75; 1000 \$43.00. Write for prices on quantities.

We have a few choice Japan grown Lillium longiflorum etc. Write for prices.

VAUGHAN'S SEED STORE 84 & 86 Randolph St., Chicago. 14 Barclay Street, New York.

When Writing Mention Florists' Exchange

LETTUCE PLANTS. Fine transplanted, true Grand Rapids Lettuce Plants, 100, \$2.00; 1,000, \$15.00. See what we can do for you.

A. J. BALDWIN, Newark, O. When Writing Mention Florists' Exchange

SEEDLINGS AND CLIONS.

of Apple, Cherry, Pear and Plum.

APPLE GRAFTS

Low Prices. Send List of Wants to D. S. LAKE, Shenandoah, Iowa.

When Writing Mention Florists' Exchange

JACKSON & PERKINS CO., NEWARK, NEW YORK.

Have to offer for season of 1897-98 a choice assortment of Field grown Roses, new and old varieties Clematis, Ornamental Shrubs, and Trees, Fruit Trees and Small Fruit Plants.

WRITE FOR PRICE LIST. When Writing Mention Florists' Exchange

LETTUCE PLANTS.

Big Boston, Boston Market, Tennis Ball, White Leaf, Grand Rapids, and Hetcher's. Forcing, 15 cts. per 100; \$1.00 per 1,000. If by mail add 10 cts. per 100.

Cash with order. R. VINCENT JR. & SON, White Marsh, Md. When Writing Mention Florists' Exchange

CALIFORNIA PRIVET

Good two year old plants well branched, 24 to 30 inch, \$1.00 per 100; \$10.00 per 1,000. Light two year old plants, \$1.00 per 100; \$10.00 per 1,000. If sample is wanted send 25 cents which will be credited on account.

GRAPE VINES.

Small Fruits. Describe the variety. Extra fine stock of CLEMATIS, including the new and unequal WILDER, Lowest rates Quality guaranteed. T. B. WILSON, St. Paul, Minn.

When Writing Mention Florists' Exchange

Strong, one year field-grown plants, of all the leading varieties, at \$15.00 per 100.

GEORGE BROS., East Penfield, N. Y.

When Writing Mention Florists' Exchange

2 YEAR HYBRID PERPETUAL ROSES

assorted from best assortment of field-grown plants at 10 cts. Light plants, one for planting, etc.

CLEMATIS VIRGINIANA. Finest American climber, small white flower, 2 year old, at 50 cts. Fastigiate form, in all colors, 2 year old, large flower, 10 cts. Curran's, Green's, Goodwin's, etc.

W. H. SALTER, - Rochester, N. Y. When Writing Mention Florists' Exchange

PEACH AND PLUM TREES.

Reliable and cheap stock, at low moderate rates. All desirable leading varieties of PEACHES, and now in fruiting orchards. Have the new FRUITS, Green Gages, and Sweet Fruiting. Buds can be supplied in buds at low rates. Very large stock of PLUM TREES all on plum roots, one and two years. Buds can be supplied of these also, either from current or orchard trees. Have all the leading Japanese varieties. Abundance, Burbark, Chabot, Salsburg, Willard and others; also the new Red June and Wickson in good supply. Usual supply sizes of American Trees to offer.

ALEXANDER PULLEN, Milford Nurseries, Milford, Del. When Writing Mention Florists' Exchange

THE WICK O'HMER

STRAWBERRY

The best Strawberry I have ever grown. It has all the good qualities and none of the poor ones. \$55 per 1000 to the trade.

WRITE FOR CIRCULAR. Also CHOICE GLADIOLUS BULBS at prices that will suit you.

M. CRAWFORD, Cuyahoga, Falls, O.

When Writing Mention Florists' Exchange

P. OUWERKERK,

1123 Summit Ave., Jersey City, N. J.

Just received from our Holland Nurseries: RHODODENDRONS, AZALEAS, SPIRAEA JAPONICA, LILIUM SPECIOSUM, PEONIES, BLEEDING HEART, POT GROWN LILACS, HYDRANGEA IN SORTS.

CLEMATIS and H. P. ROSES, in the best sorts. PRICES MODERATE. When Writing Mention Florists' Exchange

CYCLAMEN GIGANTEUM 1 in. pots in bud and ...

PRIMROSES

Extra-stout plants from 34 to 46. Single varietals ...

ROOTED CUTTINGS.

Ageratum Monstrosum. A dwarf variety with blue flowers ...

"LA PURITE"

This New Single White Geranium, which is without a peer ...

100,000 CINERARIAS

Grown from the choicest seed, plants which were awarded last prize at the Horticultural Show, England ...

BEGONIAS

- At HALF PRICE. To close out ...
Therapist, 3/2 inch ...
Therapist, 3/4 inch ...
Therapist, 3/8 inch ...
Therapist, 1/2 inch ...
Therapist, 1/4 inch ...
Therapist, 1/8 inch ...

SMILAX!

Extra 2 in., \$1.50 per 100; \$4.00 per 1,000; \$20.00 per 10,000.

GLADIOL BULBS

May, White and Light Yellow. Fine Mixed.

LOOK HERE

The following plants are in 14 condition. Average Plantation ...

ADIANTUM CUNEATUM

Seeds, 1 1/2 per 100; \$1.00 per 1,000; \$20.00 per 10,000.

ASPERGILLUS SPRENGERI

Fine stock, 2 1/2 inch pots, at \$7.00 per 100; 3/8 inch, \$12.00; 1/2 inch, \$20.00.

A. BLANC & CO. Philadelphia, Pa.

TORONTO FLOWER SHOW.

The Awards.

Group of chrysanthemums - palms, ferns, and orchids, occupying space of 90 square feet.

Group of foliage plants arranged for effect, a few chrysanthemums being included.

Group of twelve varieties—First, Sir Casimir Gzowski; second, North Toronto Floral Co.; third, Sir Casimir Gzowski.

Three specimens, pink—First, Sir Casimir Gzowski; second, Exhibition Park.

Three specimens, yellow—First, Sir Casimir Gzowski; second, Exhibition Park.

Two varieties, single stem and flower—First, Horticultural Gardens; second, Exhibition Park.

Two white distinct varieties, single stem and flower—First, Horticultural Gardens; second, Exhibition Park.

Two yellow distinct varieties, single stem and flower—First, Horticultural Gardens; second, Exhibition Park.

Two white distinct varieties, single stem and flower—First, Horticultural Gardens; second, Exhibition Park.

Two yellow distinct varieties, single stem and flower—First, Horticultural Gardens; second, Exhibition Park.

Two white distinct varieties, single stem and flower—First, Horticultural Gardens; second, Exhibition Park.

Two yellow distinct varieties, single stem and flower—First, Horticultural Gardens; second, Exhibition Park.

Two white distinct varieties, single stem and flower—First, Horticultural Gardens; second, Exhibition Park.

Two yellow distinct varieties, single stem and flower—First, Horticultural Gardens; second, Exhibition Park.

Two white distinct varieties, single stem and flower—First, Horticultural Gardens; second, Exhibition Park.

Two yellow distinct varieties, single stem and flower—First, Horticultural Gardens; second, Exhibition Park.

Two white distinct varieties, single stem and flower—First, Horticultural Gardens; second, Exhibition Park.

Two yellow distinct varieties, single stem and flower—First, Horticultural Gardens; second, Exhibition Park.

Two white distinct varieties, single stem and flower—First, Horticultural Gardens; second, Exhibition Park.

Two yellow distinct varieties, single stem and flower—First, Horticultural Gardens; second, Exhibition Park.

Two white distinct varieties, single stem and flower—First, Horticultural Gardens; second, Exhibition Park.

Two yellow distinct varieties, single stem and flower—First, Horticultural Gardens; second, Exhibition Park.

Two white distinct varieties, single stem and flower—First, Horticultural Gardens; second, Exhibition Park.

Two yellow distinct varieties, single stem and flower—First, Horticultural Gardens; second, Exhibition Park.

One specimen fern—First, Exhibition Park; second, Mantion Bros.; third, Horticultural Gardens.

Collective orchids and nepenthes—First, Mantion Bros.; second, Exhibition Park.

Group of twelve varieties—First, J. H. Dunlop; second, Exhibition Park; third, Horticultural Gardens.

Group of twelve varieties—First, J. H. Dunlop; second, Exhibition Park; third, Horticultural Gardens.

Three specimens, 6-inch pots—First, Sir Casimir Gzowski; second, Horticultural Gardens.

Six pots of callas, not larger than 10-inch pots—First, J. H. Dunlop; second, Horticultural Gardens.

Twenty-five white—First, North Toronto Floral Co.; second, H. Dale; third, J. H. Dunlop.

Twenty-five pink—First, H. Dale; second, Miller & Sons; third, North Toronto Floral Co.

Twenty-five yellow—First, Geo. Mills; second, Miller & Sons.

Twenty-five mixed—First, North Toronto Floral Co.; second, H. Dale (Brampton); third, Miller & Sons.

Fifty, one variety, arranged loosely in groups—First, North Toronto Floral Co.; second, H. Dale (Brampton); third, Miller & Sons.

Twenty-five distinct varieties, single stem and flower—First, Horticultural Gardens; second, Exhibition Park.

Twenty-five distinct varieties, single stem and flower—First, Horticultural Gardens; second, Exhibition Park.

Twenty-five distinct varieties, single stem and flower—First, Horticultural Gardens; second, Exhibition Park.

Twenty-five distinct varieties, single stem and flower—First, Horticultural Gardens; second, Exhibition Park.

Twenty-five distinct varieties, single stem and flower—First, Horticultural Gardens; second, Exhibition Park.

Twenty-five distinct varieties, single stem and flower—First, Horticultural Gardens; second, Exhibition Park.

Twenty-five distinct varieties, single stem and flower—First, Horticultural Gardens; second, Exhibition Park.

Twenty-five distinct varieties, single stem and flower—First, Horticultural Gardens; second, Exhibition Park.

Twenty-five distinct varieties, single stem and flower—First, Horticultural Gardens; second, Exhibition Park.

Twenty-five distinct varieties, single stem and flower—First, Horticultural Gardens; second, Exhibition Park.

Twenty-five distinct varieties, single stem and flower—First, Horticultural Gardens; second, Exhibition Park.

Twenty-five distinct varieties, single stem and flower—First, Horticultural Gardens; second, Exhibition Park.

Twenty-five distinct varieties, single stem and flower—First, Horticultural Gardens; second, Exhibition Park.

Twenty-five distinct varieties, single stem and flower—First, Horticultural Gardens; second, Exhibition Park.

Santa Barbara, Cal.

Santa Barbara is considered one of the most lovely spots in the United States.

It is almost entirely a tropical city. You do not think there is another place known where it can be seen so many beautiful plants, flowers and fruits, hardy, half-hardy, and tropical, from all parts of the world.

growing side by side, as at Santa Barbara, an unsurpassed variety. It is never very hot nor very cold.

Santa Barbara is a very clean city; the streets are well kept and watered several times a day with sea water, which keeps down all weeds and grass.

The streets are planted with palms in various grades, etc.; the effect is not so pretty as it might be, owing to the promiscuous planting.

Dr. F. Francessi is trying very hard to get the city to plant nothing but Cocos plumosa. This has been done in some parts, and it generally adopted the effect of a tropical association.

It is not the money in it that there was some years ago. Oranges will not grow nearer the city.

At the establishment of the Southern California Horticultural Association, one can see many plants of interest, both old and new, from all parts of the world.

It is not the money in it that there was some years ago. Oranges will not grow nearer the city.

At the establishment of the Southern California Horticultural Association, one can see many plants of interest, both old and new, from all parts of the world.

It is not the money in it that there was some years ago. Oranges will not grow nearer the city.

At the establishment of the Southern California Horticultural Association, one can see many plants of interest, both old and new, from all parts of the world.

It is not the money in it that there was some years ago. Oranges will not grow nearer the city.

At the establishment of the Southern California Horticultural Association, one can see many plants of interest, both old and new, from all parts of the world.

It is not the money in it that there was some years ago. Oranges will not grow nearer the city.

At the establishment of the Southern California Horticultural Association, one can see many plants of interest, both old and new, from all parts of the world.

It is not the money in it that there was some years ago. Oranges will not grow nearer the city.

At the establishment of the Southern California Horticultural Association, one can see many plants of interest, both old and new, from all parts of the world.

It is not the money in it that there was some years ago. Oranges will not grow nearer the city.

At the establishment of the Southern California Horticultural Association, one can see many plants of interest, both old and new, from all parts of the world.

It is not the money in it that there was some years ago. Oranges will not grow nearer the city.

At the establishment of the Southern California Horticultural Association, one can see many plants of interest, both old and new, from all parts of the world.

It is not the money in it that there was some years ago. Oranges will not grow nearer the city.

At the establishment of the Southern California Horticultural Association, one can see many plants of interest, both old and new, from all parts of the world.

It is not the money in it that there was some years ago. Oranges will not grow nearer the city.

Parkersburg, W. Va.

The florists of this city gave a chrysanthemum show the past week.

It was a fine lot of well-grown specimen plants of chrysanthemums in 8 and 10-inch pots, and a lot of good ferns and cut chrysanthemums.

The weather was very good.

HARRY PATWORTH.



## CORRESPONDENCE.

**Chrysanthemum Peter Kay.**

Editor Florists' Exchange.

In 1893 Mr. Peter Kay, employed by the Hon. J. J. Belden, of Syracuse, sent me a yellow chrysanthemum which he stated had originated with him, and had been grown locally for two or three seasons. I purchased the stock and control, and in the Fall of 1894 staged it before the Chrysanthemum Society of America under the name of Jeannie Falconer, and was awarded a certificate. In 1895 I distributed the variety to the trade. On visiting the American Institute Fair recently I was surprised to find the same variety again staged and certificated under the name of Peter Kay; doubly so, seeing that the same committee awarded both certificates. I write this that the trade at large may be advised of the fact, and be protected against purchasing a so-called "new variety" at a high price, when the same can be procured in the market at from \$4. to \$5 per 100. If the memory of our judges is so short and fleeting that they cannot recollect

thee's investigation, instigated by Mr. Spaulding's letter, would tend to show that Peter Kay and Jeannie Falconer are synonymous varieties, the former name having been attached to the chrysanthemum prior to its purchase and distribution by the introducer of Jeannie Falconer. I have had frequent communications evidently puts the matter in its proper light.

Eugene Dalldorf,  
Chairman of Committee.

Mr. Eugene Dalldorf,

Your favor is to hand. Mr. Laurie can give me information regarding chrysanthemum Peter Kay, and before answering your letter has made inquiry of his friend in Syracuse who supplied the stock but has had no answer so far.

At the time that I wrote you, I also sent a letter of inquiry to Mr. Peter Kay, of Syracuse, who was reported to be the raiser of both varieties (or variety). In question, and I have received the following reply under date of 14th inst. "In order to answer your letter referring to chrysanthemum Peter Kay intelligently, it will be necessary to make the following explanation, and then you can form your own idea as to its proper name.

grower, with dark green and leathery foliage, similar to Harry May, stiff stem and foliage close to flower; good from either crown or terminal bud, and when taken from first or early crown bud will mature October 20, and from buds taken later will mature November 1 to 5. It is a remarkably good shipper and keeper. In color it resembles Major Bonaffon, in form is a graceful, loose, incurved, high-built dwarf, and has been grown 8½ inches in diameter, by 7½ inches high. The flower for which I took first premium "for largest bloom on exhibition" at our late show, was of above dimensions, and was grown and exhibited in a 6-inch pot. It had no feeling of any description. The plant was 30 inches in height, with foliage close to flower and clear down to the pot. Crown bud taken September 6 matured November 1.

On the 27th of October, the Newport Horticultural Society awarded a medal for it, which was then supposed to be a new chrysanthemum; it was shown under the name of Peter Kay.

Later it was hinted that the variety exhibited was identical with Jeannie Falconer, which upon investigation proves

by comparison therewith what their standing is as to points. In the judging of chrysanthemum it seems to me that even two different judges, if they are the judges, were not equally competent as not having been familiar, for instance, with the color of the flowers of either, all equally perfect as Mr. Lawson seems to believe they were. Had Mr. Lawson said that the color of the flowers was perfect but all got good points, then it would indicate a deficiency in the point system. It is well known that the judges, and some given 55 and others 91, then the lack of a definite standard of comparison indicated. SAM. S. HAMILTON.

**Omaha.**

Our first chrysanthemum show was a great success. The exhibitors were 23 in number and each one was most enthusiastic. Occupying one of the most conspicuous positions was a large vase of pink chrysanthemums from E. G. Hill & Co., who also displayed a vase of pink chrysanthemums from W. W. Brennan. Farther on and in no less prominent positions were vases of chrysanthemum from J. C. Vaughan, and the splendid vase of the Queen, Modesto, Thanksgiving, The Times, New York, Nivens, and many others. The first vase of Seneca was represented by a vase of Mrs. C. H. Pierce. This elegant new yellow variety occasioned considerable comment, but not so much as a vase of Mrs. Geo. M. Bradt carnations, and another vase of carnations from Wm. Donner & Son, which contained Gold Nugget and other varieties. J. F. Wilhelm of Council Bluffs displayed vases of Beauty roses and chrysanthemums, the latter embracing V. H. Haddock, Geo. W. Childs, Emma Fitzgerald, Gretchen Buckner, Mrs. Perrin and others which compared favorably with any show. An exceedingly large vase of Golden Wedding from Jordan & Son was much admired. Chapin Bros., of Lincoln, exhibited good vases of Pink Ivory and Major Bonaffon.

Of the many exhibits of roses, one from Ellis & Holloway, of Milwaukee, was the most attractive; it contained vases of different varieties. The Mendenhall greenhouse of Milwaukee sent a magnificent display of cut chrysanthemums containing a great many of the best varieties. Roses from the new seedling chrysanthemum Assarion was exhibited to advantage, and in color (a fine lavender, running from white to a good red) and size it promises well, and should become popular. Commodore, The Queen, Golden Wedding, L'Amethyste, Golden Wedding, and other chrysanthemums shown by them compared very favorably with those seen from Eastern growers.

In the second hall devoted to pot plants, palms, ferns, begonias, etc., and divided from the first by a series of palm and fern decorations in the form of pyramids, banks, etc., were some of the pots of Ivory grown by Donaghe, also a pyramid of chrysanthemum from Chapin Bros. A collection of 32 varieties of red begonias grown by Paul Fitch, were well worth a moment's notice. Chapin Bros., of Lincoln, occupied half of one side with an elegant display of chrysanthemums of well-known varieties. Across the hall and forming a perfect screen of tropical verdure, was a magnificent display of chrysanthemums from Latabia horbonica, Phœnix reclinata, Pandanus Veitchii, Atheris excelsa, Cycas, and others. In the same hall, Erdling exhibited a fine specimen of Ficus elastica with a very effective and unique arrangement of well-known varieties and some fine ferns. Peterson Bros. Cycas revoluta were worthy of special mention. The Queen, Golden Wedding, and Ben Hoar displayed good pots of chrysanthemums. A fine piece shown by Donaghe, was a very attractive one of a semi-circular race track with exact marking the quarter posts, designed by Leonard J. Rohlf. Unget showed some good pot chrysanthemums. Elderberg presented a fine vase of hanging baskets of good pots of chrysanthemums. A pair of fern baskets composed of chrysanthemum and other plants, designed by Donaghe, helped to beautify the halls.

No prizes were offered and the plants were not entered for competition or comparison, but the show was financially successful. The following are the names of those who will go to the treasury of the Florists' Society.

Wm. Donner & Co. has moved their office to the corner of Broadway and Sixteenth street. They have opened up a new branch at a new location.

A. D.

**Partial view of Omaha's First Flower Show.**

or distinguish a variety placed before them within three years, of what protection are certificates to the purchasing public?

THOS. H. SPAULDING.

Editor Florists' Exchange.

Regarding the chrysanthemum Peter Kay, the only explanation that the New York committee of the Chrysanthemum Society of America can offer is that the right blooms exhibited before them on October 15 were entirely distinct from what is considered the proper type of those of Jeannie Falconer. The stem and foliage were superior, the flowers were broader and differently distributed; in fact the entire make-up of the flower was different, while in color there was no comparison. The blooms before the committee this year were darker and showed no traces of the clear color expected in a Jeannie Falconer chrysanthemum. Another notable distinction was the absence of the naked and weak neck, which usually characterizes the latter variety.

The committee simply judged the variety presented before them, and it scored 97 points, thus gaining a certificate. Its principal merits were a strong, rigid stem and neck, well furnished; good petalage and size; its color being its weakest point, the very reverse of what would apply to a true Jeannie Falconer in this respect.

However, the result of the commit-

tee was raised by me some six or seven years ago; I gave it out among the boys here and it became known as Peter Kay; settles the case here and the question of a doubt; the whole trouble being simply a case of misunderstanding between the parties named.

It appears to me Mr. Spaulding is the only one who can settle the question by giving us the pedigree of Jeannie Falconer. As far as I can see, they are one and the same thing, and Jeannie Falconer having been registered in 1894, would, I suppose, have the right to the name.

ALEX. MACLELLAN, Newport.

The following from Mr. C. A. Phillips, Syracuse, answers Mr. Spaulding's question, also throws some light on this subject:

Peter Kay was originated here six or seven years ago by Peter Kay, then gardener for Hon. J. J. Belden, and has been grown by our local growers here four or five years.

Mr. Thos. Bishop, our city park superintendent, I think, sent some of the stock to a friend (whose name I've forgotten) in the vicinity of New York, and I think this is the man who exhibited it as a seedling and won a medal.

Mr. Kay at one time sold part of the stock to Spaulding, of New Jersey. It is a dwarf and very strong and healthy

true. In letters which I have from Peter Kay, the raiser, and Thomas Spaulding, the disseminator, evidence is given which settles the case here and the question of a doubt; the whole trouble being simply a case of misunderstanding between the parties named.

It is in the interest of the trade that this information be made public. Mr. Laurie who exhibited Peter Kay here has already had inquiries for stock of same. In justice to Mr. Laurie, let it be said that he had no knowledge whatever of the variety in question having been introduced under another name by Alex. MacLellan, Secretary Newport Horticultural Society.

**Point System of Judging.**

Editor Florists' Exchange.

Replying to Mr. Rawson's inquiry in your issue of November 13, there does not seem to be any standard of comparison to be found in the chrysanthemum cut, or the case of the Mrs. Arthur J. Caxon chrysanthemum would not stand as at present.

If Mr. Rawson will look over my paper again he will see that "advocate" establishment of a standard for variety, by which all that should be judged, and of which he will be competent to judge who is fully acquainted with the standard. The standard one set, and all the job, familiar with it, the flowers will show

## MONTEAL FLOWER SHOW.

The Montreal Gardeners and Florists' Club's chrysanthemum show was held on November 10, 11, 12, at the Hotel Metropole, a number of plants and bloom were in advance of previous years; but this seems to be the case to a large extent. The plants grown by one or two exhibitors had to be put to a test of competition, and thus while we saw a couple of dozens of exceptionally fine plants from other florists, we are sorry to have to say that we did not need to have when the quality was not as good as now. Unless other growers could be found to compete with the exhibitors, we will have to be content to compete with those being exhibited now, our show will become so contracted that we will have to look to find enough plants to fill the hall.

In cut blooms the same thing is showing, though not to such an extent, as seems easier to grow the mammoth blooms than the mammoth plants. It will be necessary to rearrange the prize list for future shows so as to encourage those who have dropped out of the race. The sections for groups might be better filled, and perhaps the executive might arrange to have challenge cups for these in the case of 24 blooms and 24 plants, and so increase the competition. Other could also be arranged to have a competition for decorations made-in-work. All credit is due to those who do well, and we can't help but exhibit on these lines. There is no lack in quality in any of the exhibits; what is needed is more.

In reviewing the varieties of chrysanthemums, we find some of the older kinds doing things that seem to have been never ones to be better. In cut blooms, Mrs. H. Weeks, grown by Thos. McHugh, stands out as a variety of a fine and never one is better. In stem blooms, Mrs. E. L. Weeks, grown by Thos. McHugh, Mrs. E. D. Adams, Mrs. W. C. Egan, Mrs. Mme. Ed. Arnet, Rinaldo, Le Colosse, Grenoble, Mirreer, E. M. Bigelow, all do well. Mrs. Perry, also a fine one of last year, but still good. Princess of Chrysanthemums, Silver Clod, Golden Wedding, all hold their own with a few new ones. Westminster King was very much improved on those exhibited last year. In the next, Mrs. Perry, Mrs. Davis, the competition was very keen; in this class, there being only 1 1/2 plants in the exhibit. Mrs. Perry, Mrs. Davis, between second and third. McHugh is champion, but Mrs. Perry and Wm. Whiere are running him hard, and will not be so easy as it once was to predict a winner.

The second and third exhibits were cut with longer stems which showed them to be better than the following, and all varieties were conspicuous, being large, well-finished flowers. Mrs. Egan, Georgian, Pitcher, Emerald, Philadelphia, Col. Smith, Major Romanoff, Mrs. J. Jones, E. Dailledonne, Mrs. H. Robinson, Cms. Davis, Vivian-Morel, Mirral, Friend, Mrs. G. A. Magee, C. E. Whittall, Golden Wedding, Mrs. Perrin, Nemesis, Mrs. C. M. B. Marley, etc. The decorations were filled with much the same varieties, Vivian-Morel taking the prize for best. Mrs. Perry took the prize for best, Mrs. Perry took 12 roses and Myra for 12 pink yolk.

In plants Mrs. Perrin took the judge's eye. Mrs. Perry took 12 roses and Myra for 12 pink yolk. A splendid pair both in first and second twelve, Geo. Bonhous, carrying off the prize for best in second. Mrs. C. M. B. Marley and Maude. G. W. Childs, J. H. Troy, W. H. Perdue, Ivory and Ivanhoe, Golden Gate, Chas. C. Davis, exhibited by George Robinson, Yellow Queen, Pitcher and William Pitterson, J. C. Schaffner, Lager, M. Henderson, V. Morel, L. Canuing, Ivory, G. W. Childs, and I. Lafant took 12 flowers, and Mrs. C. M. B. Marley a Pinetree exhibited in both groups, and had also a fine assortment of palms and cactuses and an arrangement of ferns in the hall. C. Campbell had also two fine groups of palms and foliage plants, which he took to exhibit at the Metropolitan hall. Other conspicuous exhibits were a fine bunch of Barboursa grapes weighing 11 pounds, and a similar one weighing 10.4. Mrs. C. M. B. Marley had a fine specimen of Yanda carnium, Cypripedium, Pedicularis, Scilla, and others. We were very unfortunate in the choice of days, as the weather was miserable, and the crowds and attendance were small to good attendance, and as a result, the report is not so favorable as in other years. W. Whillson.

## THE MEN WE MEET.

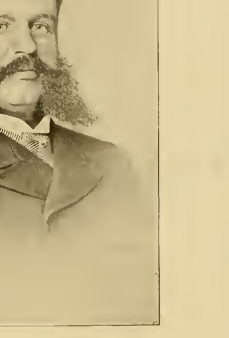
No. 1.—ALEX. S. BURNS.

Numbered in the ranks of the florist trade in America are many men who by their own exertions have pushed themselves to the forefront; men who are a credit and an honor to the profession, to whom their less-successful confreres look up with pride, and whose example to the rising generation is signaled out as being worthy of emulation. Generally speaking each one of these has made his mark through concentrating his energy and skill along one particular line; in other words, there is some speciality in which he excels and on which he is considered an authority.

"This week we have pleasure in presenting to our readers the portrait of one of the successful men in business whose position may be termed unique, and that outside the scope of our present sketch there is no other one man in America whose experience embraces suc-

cessfully all the phases of the three branches of the business ably mentioned, his opinion on each of these divisions are naturally interesting. Of the three his preference is for the growing part. Said he: "Were I to begin life anew I should certainly make a choice of the occupation of a grower; for I am perfectly satisfied there is still money in it, if conducted on business principles. A selection of a location is a part of paramount importance, and a beginner ought to secure a place, where soil, exposure, etc., are alike favorable. But the growing branch is one in which previous ownership of capital is imperative, more so than in the others. One may scratch into the retail business with but very little; and, as recent developments tend to show, into the commission business, with still less capital; but not so in the growing department."

Advertising to his first love—the retail branch—Mr. Burns attributes his success chiefly to the strict economy in its conduct, practiced by him. It is the small leaks that run away with the profits, and these the greatest attention should be given. Of course, times have materially changed within the past few



Alex. S. Burns.

essfully the three principal divisions of the industry—retailer, wholesaler and commission dealer, and grower.

ALEXANDER S. BURNS, whose portrait accompanies this, was born February 1846, at Donaghmore, County Tyrone, Ireland. His father and grandfather were both farmers, the latter a Scotchman who settled in Ireland about 1787.

Coming to New York in April, 1861, Mr. Burns obtained employment with Mr. Henry A. Siebrecht, who was then superintendent of the Post-office, second, third and fifth avenues. In 1870 Mr. Burns started in business as a retailer, his local name being Forty-ninth street and Madison avenue.

In 1872 he opened a retail store at 840 Sixth avenue, which he sold out to his brother eighteen years later; when Mr. Burns formed a partnership with John J. Keyner, as wholesale and commission cut-flower dealers at 11 West Twenty-eighth street, removing in 1891 to the corner of Broadway and Twenty-ninth street. This firm was the first to settle in Twenty-eighth street, which has now become the office of the florists of New York City. The partnership was dissolved in 1895, when Mr. Burns began to devote his whole time and attention to his greenhouse establishment located at Woodside, L. I. The latter was acquired by him in 1896.

Mr. Burns was president of the New York Florists' Club in 1892-93, and vice-president of the Society of American Florists for New York State in 1890, being still an active member of both associations.

Knowing all the phases of the three branches of the business ably mentioned, his opinion on each of these divisions are naturally interesting. Of the three his preference is for the growing part. Said he: "Were I to begin life anew I should certainly make a choice of the occupation of a grower; for I am perfectly satisfied there is still money in it, if conducted on business principles. A selection of a location is a part of paramount importance, and a beginner ought to secure a place, where soil, exposure, etc., are alike favorable. But the growing branch is one in which previous ownership of capital is imperative, more so than in the others. One may scratch into the retail business with but very little; and, as recent developments tend to show, into the commission business, with still less capital; but not so in the growing department."

Advertising to his first love—the retail branch—Mr. Burns attributes his success chiefly to the strict economy in its conduct, practiced by him. It is the small leaks that run away with the profits, and these the greatest attention should be given. Of course, times have materially changed within the past few

years, necessitating greater expenditures on the part of the retail florist; but there are some, and these of a lavish nature, too, which Mr. Burns thinks are not wholly indispensable, as for instance, the elaborate outfits of liveried drivers, gaudily decorated wagons, and so on. There is also great need for stricter business methods in the management of the retail stores of to-day.

It is probably the biggest bugbear, and one that requires complete overhauling, as the retail florist of to-day is generally over-curved. The entrance of the Greek into the retail business is not viewed with any degree of favor by our growers. In many respects, that individual is a benefit to the grower. His purchases are largely for cash, and are usually made under the same terms—a system that could well be emulated by others in the business.

Mr. Burns' experience of the wholesale business is that the commission man's faith is not strewn with roses, though his living is largely dependent on their sale. For the present condition, which is largely responsible for the failure, he lays the onus of the blame on the growers. A grower should, at all times, be prepared to sell his stock on terms sufficiently well as to know what his stock is selling for, and prominently should be looked upon as a banker. To the propriety to be continually changing a grower can place the disappointing business in the hands of the buyer's care. It is a custom that does not pay; but it

is a factor that confronts the wholesale buyer every day, and who is naturally influenced are patent to all. Mr. Burns believes that a central market for the production of flowers, and that the grower trade is one of the institutions of the future; "but," added he, "you will continue to have to dispose with the services of the commission man; he is an absolute necessity in the trade, and as such he will continue to exist."

"In connection with what is here stated, it may not be out of place to refer to a matter which has attracted the attention of the commission merchant, from a bulletin on Marketing, farm produce, from the United States Department of Agriculture, as follows: "Beware of being tempted to the market place by a false advertisement that they get you by irregular merchant."

"It is also a legal point which it will be well to bear in mind. In most, if not all, states when a commission merchant receives goods on consignment he becomes the shipper's agent, and any attempt to defraud his principal is a felony punishable by fine or imprisonment or both. Not so if he buys the goods outright, promising to pay for them a certain price. If he does not pay the shipper's only recourse in case he fails to receive the contract price is a civil suit, which results in a judgment, but which involves no more than the paper it is written on. To great care should be exercised in such cases, especially in those which arise, except to a well-known house of good reputation, the seller or producer should see to it that the goods he consigns to his own order, making draft through banks or express companies, and attaching to it the bill of lading received from the railroad company, property insured, and the commission merchant cannot will then present the draft and surrender the bill of lading only on payment, so that the commission merchant cannot obtain the goods until he has paid for them."—Ed.]

The success of Mr. Burns as a grower man is best shown in the excellent condition of his crops. Especially is this the case with his carnations, all of which are of the first quality, and exhibiting particularly fine.

## Seeding Chrysanthemums.

CHRYSA.—The following seedlings were sent to the Chicago committee November 20: From Nathan Smith & Son, Adrian, Mich., Rustique, an incurved half-yellow, some specimens showing a red tinge, large sized, even built flower; with stem and foliage both good. From same grower, Kilo, yellow, Sam Derbych X Modesto; very large, 11 inches from tip to tip of flower; broad-petalled, flat flower, rather loose in make-up, showing considerable aecid, and stem too slight to hold up the flower. From same grower, Japanese, white, incurved, Japanese, broad-petalled, well built flower of the class likely to carry, with stem and foliage both good.

From Fred. Dörner & Son, Lafayette, Ind., two specimens of a variety of very stout stem, foliage well up to the flower, and good petalage, showing a little yellow, but which in the early outer reflexed, making a striking, well-built bloom for market purposes.

The only members of this committee acting this year are George Stollery and C. W. Johnson. E. A. Kimball not having been able to attend, the committee had to accept from first, but to assist the committee, allowed all boxes to be sent to his office for conveyance.

CINNAMON.—Quite a number of seedlings were sent to the committee before the committee Saturday, November 20. Nathan Smith & Son, Adrian, Mich., had acream-vanilla, No. 169; foliage, stem and size all that could be desired, but it lacked substance in the stem, and the flowers were small in size, but possessing all the other qualities of a good variety. Rustique was another variety, put up for a certificate by Nathan Smith & Son, and it is quite a good exhibition variety.

Mrs. Wm. B. Adams is a graceful white, globular, incurved, double variety. It was scored 88 2/3 per cent, by the Cincinnati Florists' Society, and awarded a certificate. It was the property of Theo. Hack, of Hamilton, O. He also had a couple of blooms of a pink flower, which he took in the year's crop. E. G.



# ROSES

**10,000 STRONG PLANTS FROM 4 IN. POTS. BENCH GROWN.**

Archduke Charles, Mms. C. Barbed, Mosella, Samborini, White Silence, Papa Gontier, Mms. S. Barbed, Bride, Mms. Victoria, Kaiserin Victoria, G. Souper, Maman Cochet, La France, Gen. Lee, White Star, Mms. Jos. Schwartz, Mms. Schwaner, Vic. Hugo, Mms. Camille, Mms. Margolin, La Paquette, La Princesse Vera, Pres. Gaulain, Mms. Bresset Metz, Mms. Watteville, White La France, Mms. Lambert, Frances Kruger, Marie Van Houstel, Stanis La Ferme, Marie Guillot, Devoulez, Perle.

The above roses are in fine condition and must be selected with care to make room. Can be sent by freight or express only, not less than five of a kind and \$2.00 per dozen. Price for last one hundred. No checks accepted and for cash only. Samples, 25c. per pair. Price for 100 plants \$20.00 per 100.

**R. H. MURPHEY, Urbana, Ohio.**  
When Writing Mention Florists' Exchange

## 2 YEAR ROSES 2 YEAR ...OLD... ..OLD...

These Roses have been potted this time and have made a nice bushy growth. I offer them while they are still young.

**PERPETUAL BLOOMING ROSES.**  
Clothilde Souper, Leonie Osterath, Mms. DeWatteville, Princesse de Sagan, Froile de France, Mms. Bernhart, Mms. Welche, Francis Kruger, Malkinson, Christine du Noy, Duchesse de Brabant, Marie Van Houstel, Rambou. Pink Souper, Bride, Marie, Triump. de Geran. Perle Kaiserin, H. M. Stanley, Marie Lambert, Marie Guillot, Pierre Guillot, Yellow Souper, Bridemaid, Perle, Chas. Legrand, Mrs. Legrand, Marie Van Houste, Maman Cochet, Louis Richard. The above list in 3/4 inch pots at \$1.25 per rose; \$20.00 per 100.

**CLIMBING ROSES.**  
Two year old plants in the following varieties, per doz. 75c. per doz. \$2.00 per doz. White Rambler, Yellow Rambler, Pink Rambler, Climbing Climber. The above list in 3/4 inch pots at \$3.50 per doz.; \$30.00 per 100.

**CLIMBING ROSES.**  
Two year old plants in the following varieties, per doz. 75c. per doz. \$2.00 per doz. Crimson Rambler, Impress of China, Golden Rambler, Rose Wichramna, Climbing Perle, Mary Washington, M. Nin. The above list in 3/4 inch pots at \$2.25 per doz.; \$20.00 per 100.

**HYBRID PERPETUAL ROSES.**  
Two year old plants in the following varieties, per doz. 75c. per doz. \$2.00 per doz. Paul Neyron, Coquette Des Alps, Magna Charta, Vera, Grand Duke, Eliza Gilbert, The above list in 3/4 inch pots at \$3.00 per doz.; \$25.00 per 100.

**JOHN A. DOYLE, Springfield, Ohio.**  
When Writing Mention Florists' Exchange

# ROSES

Hildesmaid, sunset, Watterville, Bride, Perle, Bernart. Price for 3 inch pots, per 100; \$20.00 per 100 4 8.00 70.00

**CARNATIONS.**  
Albertin, Boston d'Or, Rose Queen, Dead Heat, Armandy, Alaska, Star of Wars, Grand Duke, Eliza Gilbert, Bridemaid, Ivory, L. Mcgowan. Price, 1st size, \$8.00 per 100; \$50.00 per 1000. 2d " 4.00 " 30.00

**CYCLAMEN**  
Persicum giganteum, per 3 1/2 in. pots, \$1.00 per 100; \$5 in. pots, \$5.00 per 100.

**SMILAX.**  
Strong plants from 3 1/2 in. pots, \$2.50 per 100 \$20.00 per 1000.

New Trade List on Application.  
**WOOD BROS., Fishkill, N.Y.**  
When Writing Mention Florists' Exchange

# CHRYSANTHEMUM STOCK.

**SPECIAL LOW PRICES FOR NOVEMBER.**  
Order at once and secure strong stock at cheapest rate. We have thousands of plants of Novelty and Standard Varieties, in strong, healthy condition.

**Novelties.** Beck's, Hill's, May's, N. Smith & Son's, Spaulding's and others, \$2.00 per doz.; \$15.00 per 100.

**Commercial Varieties.**—Merry Monarch, Bergmann, Mrs. H. Robinson, Helen Wright, May Bower, Wamamker, Perry, Mrs. J. Jones, Yvonne, Gold Leaf, Gold Orange, Pickler, Clara Goodman, Mollida, H. W. Herman, Golden Wedding, Liberty, Wm. Simpson, K. Leech, Mms. F. Nevins, H. Bloodgood, Francis B. Hayes, Mand Dean, \$1.00 per doz.; \$7.50 per 100. Not less than one doz. at above rates. 50 to 100 rates.

**CASH WITH ORDER. THEO. F. BECKER, Glenfield, Pa.**  
When Writing Mention Florists' Exchange

## NEW WHITE CHRYSANTHEMUM FRANK HARDY

The mid-season market whites of the future, indispensable for the market grower and for the exhibitor. Highest honors at the leading shows in New York, Boston and Philadelphia in competition with all the best whites on the market.

**Strong young plants ready March 1, 1898.** Price per plant? **50c.**; per 25, \$12.00; per 100, \$20.00; per 1000, \$150.00. Not less than 25 at 100 rates, and 50 at 1000 rates. Cash from young correspondents.

**A. HERRINGTON, Florham Farms, MADISON, N. J.**  
When Writing Mention Florists' Exchange

## GERANIUM cuttings, double Grant per 100, \$125; per 1000, \$1250. Single varieties, per 100, \$125; per 1000, \$1250. Appopple Vetchin, 2 1/2 inch, \$3.00 per 100 3 inch, \$4.00 per 100. Saxifraga Seedlings, 30 cts. per 100. Coleus, Golden Bedder and Varochastli. Carnation cuttings, deliver when you want them

**EVERITT & INSALL, Hackettstown, N. J.**  
When Writing Mention Florists' Exchange

**PRIMROSES,** nice plants from choice seed, 3 in. pots, \$1.50 per doz.

**PELAGONIUMS,** assorted varieties of R. A. Sanford, 3 in. pots. J. Heidl, 3 1/2 in. pots, \$1.00 per doz.

**CYPERUS ALTERNIFOLIUS,** 3 in. pots, \$1.00.

**GEOR. H. BENEDICT, Yorkville, N. Y.**  
When Writing Mention Florists' Exchange

## Rooted Cuttings of the New Geranium Mms. BRUANT

I am able to now furnish this wonderful distinct variety by the hundred and thousand. No sort can be without this variety, being certainly the finest plant novelty of the year. A large well rooted stock ready now. Shipped to any part of the Union by mail or express, prepaid, 5c. per doz.; \$5.00 per 100; \$25.00 per 1000. Cash with order. Order at once, no better stock can be had. Address: **FRED. SCHNEIDER, 751 Crawford Rd., Cleveland, O.**  
When Writing Mention Florists' Exchange

## ..ROSES..

Leading varieties. Write for prices.  
**CUT SMILAX, 15 cents per string.**  
**CHOICE CUT ROSES, \$3.00 per 100.**  
**PANSY PLANTS, strong, \$4.00 per 1000.**  
**THE NATIONAL PLANT CO., Dayton, Ohio.**  
When Writing Mention Florists' Exchange

## BUSHY FIELD GROWN CARNATIONS

With plenty of roots. Send for prices.  
**Geo. HANCOCK & SON, Grand Haven, Mich.**  
When Writing Mention Florists' Exchange

## MORELLO

Field-Grown, at \$1.50 per dozen; \$10.00 per 100.  
**HOPP & LEMKE,**  
Paul Post Office. EAST GRAND RAPIDS, MICH  
When Writing Mention Florists' Exchange

## H. WEBER & SONS, CARNATIONS OAKLAND, MD.

When Writing Mention Florists' Exchange

## ...BAKER'S...

## NEW CARNATIONS

Grown and tested Five Years.  
**ONEIDA** Pure pink, no trace of purple, good grower, continuous producer, blooms of largest size.

**RED JACKET** bright red, of largest size, healthy, no rust, continuous producer, long stiff stems, never bursting open.

**\$10.00 Per Hundred.**  
Orders backed up to be shipped in rotation as fast as rooted.

**CHAS. F. BAKER, Utica, N. Y.**  
When Writing Mention Florists' Exchange

## CARNATIONS

After the early Chrysanthemum are thrown out, many Florists plant carnations. We have a few thousand plants heeled in, in the cold houses, suitable for this purpose; they are fine size plants, the last of 94,000 set out in the Spring.

**3000 Grace Wilder 200 Seot**  
**2400 Silver Spray 800 Ercowood**  
**1300 Albertin 1000 Armandy**  
**3000 Dan Hole 100 Mrs. Carnegie**  
**1000 Fortia**

**\$4.00 per 100.**  
**J. L. DILLON, - Bloomsburg, Pa.**  
When Writing Mention Florists' Exchange

## EXCELSOR

## Carnation Supports

Not an experiment, as they have been in practical use for four years; over one million in use. Endorsed by prominent growers. Made of Galvanized wire, will last a lifetime. Cheapest, most easily adjusted of any on the market.

**LENGTH—10, 13, 15, 18 and 20 inches.**  
**PRICES—per 100, \$1.00; per 1000, \$5.00; per 5000, \$27.50; per 10,000, \$70.00.**

**FLORA HILL.** The best will flourish over sent out. Orders backed up for rooted cuttings.

**CABINATION FERTILIZER**—Containing 5 per cent. potash; one half per cent. nitric acid; when manure and cut 2 1/2 inches the results; 2c. per 100 lbs.

**GROUND HONE.** The best and purest. \$1.50 per 100; \$25.00 per ton. Sample free, postpaid.

**H. F. LITTLEFIELD, Worcester, Mass.**  
When Writing Mention Florists' Exchange

**HARRISON'S WHITE CARNATION.**  
NEW CARNATION.  
Sport From *Wm. Scott*.  
ALL LEADING CARNATIONISTS ARE PURCHASERS.  
STRONG, VIGOROUS GROWER, REQUIRING NO SUPPORT.  
Described and Illustrated in Florists' Exchange, Nov. 21, 1896, page 1044.  
Price: \$5 per 100; \$20 per 500; \$40 per 1000.  
Cash or Satisfactory Reference. All orders filled in rotation.  
**JOHN HARRISON,**  
New Bedford, Mass., U.S.A.  
739 Bergen Ave., New Brunswick, N. J.  
Take Bayonne or Greenville Line from Pennsylvania R. W. Ferry. Get off at Ridgely A. V.



## Point System Competition.

A careful perusal of the communications of the different competitors demonstrates that all have given considerable thought and attention to the matter. Mr. Hamilton makes the following declaration of his system, in general use, viz.: "The decimal system of notation in which 100 stands for perfection." He points out that it contains more good properties than any growers, critics, and judges will allow. It also declares the rating of the system. In judging cut flowers, it places all of one variety on the same footing; it prevents the judge from using his own preconceived ideas; but in paragraph 5 he admits that it will not cover quite a number of subjects, thus proving that it is faulty, inasmuch as it is not of general applicability. Further, he does not suggest any method whereby the system may be improved; and the competitor, who is a champion of the system, rather than to defend old ones. These are the weak points of Mr. Hamilton's otherwise excellent article.

Theo. Beck also champions the cent system, but admits that in the eyes of the chrysanthemums he places his greatest value on the "balance of the plant," which means that in this quality, and advances a similar argument for judging carnations. Other competitors, however, do not have any of the various societies now in use. His only new suggestion is as regards the question of how many flowers to be simply a change of the present wording and division of the numbers. The rules of the National Chrysanthemum Society of America call for: Form 25, fullness 15, size 15, and petalage 10. Now, any bloom which is not a specimen of a total of 65 must of necessity be well balanced. The standards of comparison used and which it would be difficult to prove cumbersome. When it comes to comparing varieties, no rule can be laid down for a committee of judges to go it. It is had enough to have to conform to a scale of points as a basis of analysis of a flower's merits. It would seem necessary that something be left for the exercise of the expert's knowledge, judgment, and taste. In other words, there would be but little check on worthless varieties. To give a man a list of kinds as he would find them, and to make it unimprovable. Although he may be a skillful grower, there will be many varieties and he would not know which he will not be acquainted, for it is seldom that the same varieties are found in all localities. For instance, Kioto is now rarely, if ever, seen offered for sale in New York.

The arguments advanced by Grove P. Rawson surpass those of the other two competitors in their practical applicability. All of his propositions admit of being carried out by any competent grower, and the simple nature of the scale greatly facilitate the now oftentimes arduous work of judging. His suggestions have to do with the system. By making 10 the maximum, a judge is not encumbered with a lot of figures, and the smaller the scale is the easier to make him careful in awarding values; whereas under the 100 point system, a judge is apt to be careless and give worthless varieties have a fictitious value placed upon them, the judge being only required to ascertain if such varieties scoring the necessary points to obtain a certificate. In other words, a variety which is known to be unjust, yet by analysis of its individual qualities, and its growth, is allowed to judge 60 or 70 points, through certain of its characteristics meeting fully the set requirements as to color, form, size, or fullness. Mr. Rawson's proposition as regards new varieties might be improved upon, inasmuch as that is a variety failing to score more than half the total 10 points should be considered as worthless and not redressed for made of it. He has, however, suggested an original system of application and is therefore entitled to the prize.

## New York.

## Wholesale Market.

It is satisfactory to be able to report a general improvement in the condition of the cut flower market, and with it a corresponding advance in prices. The wholesale market for carnations has been a steady improvement until, at this time of writing, values have increased to the extent of 25 per cent. over. This week's business may be regarded as the best in very many months, and for the first time this period it has been in favor of the grower.

There is a decided shortage of stock, especially in the reds, and it is likely to remain so for at least three weeks yet. This, in turn, will help forced to sell, such as wall, tooth and white, etc. One notable feature of the present increased demand, and at the same time somewhat shortened supply, is the diligent and careful manner in which agents advance prices. The long spell of depression has left the grower in a fix, and created a fear of slumps that seems hard to shake off. Under the conditions of a few years ago such a boom would have seen an advance of at least 300 per cent., and perhaps more, but the discipline of the years passed through, previous such a circumstance now. As an example, Beauty this week is selling at \$4 per 100, while last week it was at \$1.50 advance of \$1; while in the times noted above they would have made at least \$7.50. The price of the London Beauty in the former figures before many days. Brille, Bridemaid and show a larger increase, the former being at \$3.00 per 100, extra large in vase; No. 2 and No. 1 are making from \$3.50 to \$10.00, extra large specimens \$8 to \$10.

Carnations have not held quite so firm as roses, but they were not to be bought at between \$1 and \$1.50, with \$2 the top figure, except for fancy, large, double and extra large. Some include seedlings not yet disseminated and new kinds of the first year, like Emerald, Erythra, Flora Hill, Maccio, and Charles A. Dana.

Roman hyacinths and paper-white narcissus are not so plentiful in the open place, and are realizing \$1.50 to \$2 per 100 spikes. It is almost certain that the prices of these flowers in New York will be forced next last year. Orchids are doing well, at least carnations, but not so forward. Roman being forced next last year. No. 1 blooms of either are held at 40c, each, No. 2 at 30c. Cypripedium, Brille, and Bride, all show a fine advance of 100 per 100.

Violas continue to be the excellent variety in the market. They close on report a week ago, although the tendency at this time is to weaken rather than strengthen. A large quantity was still Wednesday for good bloom, and for a few specials straight sales at \$2.50 were effected. This week's business was disappointing, prices falling to \$1.50.

## Retail Trade.

This branch has had quite a boom. Over 60 weddings of importance are being planned, and quite a number of dinners, etc. The opening of the new Delmonico's was one of the features of the week's doings, and it is estimated that the new ball room was used for the first time when the Chamber of Commerce gave a dinner of 500 persons at 120th annual dinner; 411 members and guests sat down to dinner at nine tables, and the majority of the guests were pink carnations or cypripediums. On the tables and in the decorations 6,000 carnations were used, and on the sides others were used; also a quantity of orchids, white over the palms, many of them of great size, did very well at the room and were used as a screen for the music stand. The room was plentifully employed about the walls and over the ten great mirrors which are on the wall. The great hall itself is of old-rose color, cream and gold in harmonious blending, and the walls of the lower story are covered with alternating with panels of looking glass, which, reflecting the chandelier and the light from the mirrors, is so brilliant that the proportions of the hall and of the attendance.

A son had the decoration. This firm had the Burden funeral at the Waldorf. Among other things they had a large quantity which entirely covered the casket.

## Auction Sales.

William Elliott & Sons have received per S. Ohland a large collection of roses, rhododendrons, azaleas, clematis, and magnolias from the celebrated grower, C. Roebegren, of the coop-

Holland, these will be sold by auction Tuesday next.

J. P. Cleary & Co., on the same day, will sell a quantity of chrysanthemums. They announce a sale of old orchid sale and offering of a general assortment of valuable plants.

Jacob M. Weeks, Florist, Bayside, is one of the jurors on the Thorn trial at Long Island City.

## Plants From a Boring Transportation.

A recovery by Henry A. Stehrsch in the City Court against the Pennsylvania Railroad Company for the value of 100 cut flowers which were shipped from him from Chestnut Hill, Penn., on February 16, 1905, and which were damaged while in transit, was a judgment of \$100 in transportation, has been affirmed by the Second Term in an opinion by Justice McAdam. The writ of freezing after the usual time for transportation expired was in the defendant's favor. Justice McAdam said, "and the evidence was sufficient to require the submission to the jury the question whether the freezing occurred while the defendant was in default, and they found that it occurred during that period from causes for which, by reason of its neglect, the defendant became liable. Where the loss of the flowers was due to two causes, one of which would establish liability and the other excuse the defendant, and the jury found that which did cause it is inmaintainable, the verdict of the jury is conclusive.

## N. Y. Gardeners' Society.

The monthly meeting of the Gardeners' Society was held Saturday, November 20. John Scott, Brooklyn, presided. The members of the year were elected as associate members. John Scott exhibited a grand plant of Freesia maculata with 22 spikes, averaging five to eight flowers each. The plant showed remarkable vigor and the flowers were of a fine shade of pink. The nomination of officers resulted as follows: For president, W. Scott, gardener; for secretary, W. M. Watson, N. Y. City; Executive Committee, R. Brett, P. R. Pierkowski, W. Anderson, and J. W. Watson; for treasurer, W. Sage, and A. J. Wenger.

The manager of the late exhibition, H. J. Caldwell, reported the receipts were \$2,310, expenditures \$1,550, leaving a total of \$750 to be given to charity.

Supt. Falconer of Shenley Park, Pittsburgh, was a visitor this week.

## Philadelphia.

Trade News. Thanksgiving brought a decided boom to business, both in cut flowers and plants. All the stores appear to have been crowded with orders much more than was anticipated. As regards cut flowers it was found on Thanksgiving that the demand for all kinds, and the wholesale dealers were using the wires in all directions; even on the day following Thanksgiving a sufficient flowers on hand to fill all demands, the scarcity being felt most in the case of the white carnations. Choice flowers, sold at \$3.50 and \$4 per dozen; choice teas, Carnot \$8 to \$10 per 100; choice white carnations, Meteor \$6 per 100; Perle, Niphetos, and Gonter \$4 to \$5 per 100.

The plants which are reached for fancy carnations was \$2, while the bulk of the stock sold at \$1.50. Everything of fair quality could be obtained at \$1.00. Flowers left over being a few white.

Violas have sold well also; \$1.50 has been obtained for the best of the good double; the majority of the stock of fair quality selling at 75c, per 100. The bulk of the plants were selling 50c per 100.

All the plant growers report good sales the week. The local trade in good kentias, arecas and latanias has been very good, as also the business in ferns. A number of bunches of decorative plants having been dispatched during the past week. The Pennsylvania buyer was Mr. Freeman, of Washington.

## Florida's Bowling Club.

A Theatre benefit has been arranged for at the Grand Street Theatre on Wednesday evening, December 16, the play company to be the "New York" club committee, have the tickets on sale and anyone who has not been reached by the committee should purchase them at the hall itself at the club room. There are

## Exclusively a Trade Paper.

Entered at New York Post Office as Second-Class Matter.

Published EVERY SATURDAY by

A. T. DE LA MARE PTC. AND PUB. CO. LTD.

2, 4, 6, 8 Duane St., New York.

P. O. Box 1867. Telephone 2154 Central.

## REGISTERED CABLE ADDRESS

Commercial Cable Florist, New York.

## SUBSCRIPTIONS:

52.00 per year to United States, Canada and Mexico. \$1.00 per year to foreign countries, including postal union. Payable in advance. New subscriptions will commence with the number at first receipt unless otherwise ordered. Back numbers can be supplied when wanted. The date on address label shows when the subscription expires and is the subscriber's receipt. No other receipt is sent.

## ADVERTISEMENTS:

Copy must reach this office not later than Thursday in order to assure insertion in issue of the following Saturday. Rates: \$1.00 per line. Special positions extra. Discounts on contracts for one month or longer. Orders from unknown parties must be accompanied by cash or satisfactory references.

## Exclusively a Trade Paper.

THE FLORISTS' EXCHANGE is published in the interests of those commercially identified with the Florist, Seed and Nursery business. New subscribers are requested to enclose business card or other proof of their connection with these trades.

## Contents.

BOOKS RECEIVED	1071
CARNATIONS	1082
CHANGES IN BUSINESS	1083
CHRYSANTHEMUM SOCIETY OF AMERICA	1082
CHRYSANTHEMUM SEEDLINGS	1075
CORRESPONDENCE	1074
WHO WE MEET, THE	
W. S. Burrill (Portrait)	1075
POINT SYSTEM COMPETITION	1078
PLANTS AND FLOWERS	1079
QUESTION BOX	1073
FLOWER SHOWS:	
Toronto	1072
Omaha (Illus.)	1074
Montreal	1073
Grand Rapids, New Bedford, Syracuse	1072
Cleveland	1082
SEED TRADE REPORT	1071
TRADE NOTES:	
Santa Barbara	1072
Hartford, Conn., San Diego	1073
New York, Philadelphia	1078
Boston	1079
Baltimore, Chicago	1080
Cincinnati, Providence, St. Paul	1082
Toronto, Washington	1083
Ozark, Syracuse	1084

## For the Busy Man.

Oliver Landreth, of the firm of D. Landreth & Sons, seedsmen, Philadelphia, is dead.

It has come to light that the chrysanthemum Peter Kay, certificated by the Chrysanthemum Society of America, is a synonym of the variety Jeanne Falconer.

The Florists' Mutual Fire Insurance Association will meet at Farway, Ind., on December 8, to adopt by-laws and elect officers.

Peter Henderson & Co., New York, announce their retirement from the wholesale and jobbing trade, and will in future deal direct with the planter.

A meeting of those interested in the proposed plant market will be held at Lynch's restaurant, corner Canal and West streets, New York, Wednesday, December 1, at 7:30 P. M.

## Mutual Fire Insurance.

The members of the Florists' Mutual Fire Insurance Association will meet at the office of Vesey & Heaton, Fort Wayne, Ind., on December 6, to adopt By-Laws and elect officers.



**Chicago.**

**Market Conditions.**

Trade the past week has been fair, but there have been no big gains. There are some appearances of stock being kept back for Thanksgiving, but a general planting of roses seems inclined to crop. The Robinsons say their firm and Hildebrand will show fair-sized quantities of stock for sale; and the growers would show a mass of white roses, then for a time, hardly any color at all except as they come in from other years. Others claim they have increased this feature, but the market slackened up towards the end of last week, and the beginning of this. The quantity of the growers seem to have an usual quantity of long-stemmed and medium flowers, with fewer shorts. Chrysanthemums are still with some, complain that there is not enough of the smaller grades of flowers, the Southern stock cutting no figure in this market this year. In the writer's opinion, there is a future for the chrysanthemum grown with a view of furnishing cheap bunches of flowers on one stem. The large, long-stemmed blooms here their place, but the same quantity of color contained in one of these, selling retail at 25 to 35 cents each, spread over half a dozen or more flowers for the same price, is better suited to the pockets of numbers of buyers in certain localities of this city. The Peckham Bros. who grew a vast quantity, say they had not enough of the small cheaper grades. The Illinois Cut Flower Co. have had some grand flowers the past week—ex. recently from the same grower. For example, was quoted at \$4 per dozen wholesale. Mrs. Perrin and Modesto have been satisfactory, and Bonafant is still a capital yellow. Carnations sell well, and prices are going up; standard bunches bring \$5; standards \$1 to \$1.50. Violets are late getting into condition here, fair quality flowers are worth \$1.25. Harriid lilies are now showing up.

**Thanksgiving Price.**

A fair Thanksgiving trade is looked for, but will be lots of chrysanthemums, as some growers have been holding them for the occasion. After this week these flowers will be on a down grade. Prices range all the way from \$5 to \$25 per 100, a few fancy ones may go higher.

In roses, heavy, long stems, will bring \$25 to \$35; medium \$15 to \$20; shorts \$7 to \$8. Tea, Carot, Kaiser and Meteor, \$5 to \$7; other \$3 to \$5. Carnations, good, average \$1.25 to \$1.50; standards \$1.75 to \$2; fancy \$3 to \$4. Violets \$1 to \$1.50; valley \$4 to \$6; smilax \$1 to \$1.5; admantium 75c. to \$1; asparagus \$60 to \$75; romans and sparrows, \$3 to \$4; Harriid in culture \$10 to \$20. We do not look for a bad break in prices this year, if the growers only send in their stock early enough.

**Trade Paper Changes.**

A somewhat remarkable change has taken place in the office of your contemporary in this city. The American Florist, on November 20, G. L. Grant severed his connection with that paper and since has been filled by W. R. Rudd. Mr. Rudd is well known to the trade as a specialist in the chrysanthemum and carnation fields, also a president of the American Carnation Society for this year. He is in the prime of life, and native of Illinois, but has been born on Blue Island, a village of Cook Co., ad-joining this city. As is well known also, Mr. Rudd has been a member of the Chicago Horticultural Society as secretary, manager, treasurer, etc. Mr. Grant has been in the prospect of a new florist trade paper which will be started the first of December 2, and is to be called "The Florist's Review." The office will be at 530-535 Caxton Building.

**around Town.**

F. F. Smith, till lately manager of the A. F. Bennett greenhouses, 37 Stryker

seventh street, has left for Denver, Col. The new manager is E. Pullen, who has been on the place since its starting in 1878. Mr. Bennett himself is in California.

Chrysanthemum plants appear to have sold off very well in this city, and this is probably due in part to a better class of market plants being grown. EDGAR SANDERS.

**Baltimore.**

**Trade Is Slow.**—After a week of brisk trade it has again fallen away. Chrysanthemums are nearly gone. Roses are plentiful with only moderate demand. Carnations are scarce. The quantity of the growers stock, being hardly in sufficient quantity for the market. Prices are ruling low in a whole.

**The Club.**

A very enthusiastic meeting was held last week. The question of holding a chrysanthemum show next year, was considered, and much animated discussion was had. The prevailing sentiment seemed to be that the holding of a show was one of the duties of the club, but the point is, as some one expressed it, an exhibition. The matter was finally referred to the executive committee, with instructions to ascertain the probability of holding a show and report at our next meeting. Joseph E. Freeman, Washington, sent a communication in regard to the distribution of cut flowers and plants by the government. The chief of a department had stated recently that this distribution of florists' stock was beneficial to the trade, and that Baltimore florists were in favor of it. Mr. Freeman wanted to know whether this was true. The club not knowing the facts of the case, deferred action until a committee of five should investigate the matter, and if they find matters to be as represented by the Washington florists, the club will, no doubt, pass resolutions condemning a practice which seemed to be so detrimental to the trade of our fellow-craftsmen.

**A Fern Question.**

Does Adiantum Farleyense ever produce spores, and are they fertile? was a question asked. No definite answer was given. Several of the members stated that they had seen fronds bearing spores, but did not know if same were fertile.

[Adiantum Farleyense is supposed to be a sterile form of Adiantum Capillus Veneris, and though reported as having been raised from spores from more than one source, the fact has never been demonstrated satisfactorily.—Ed.]

**Notings.**

Mr. Wm. B. Sands, treasurer of our Club, has been appointed judge of the Orange County show.

R. Eutter, a large, successful violet grower, died recently. He was a very large and fine flowerer. In his a kind, good, and honest man has passed away.

Isaac Moss, of Gowanus-town, mourns the loss of his mother. The craft sympathy with him, and his wife, EDWIN A. SEBASTY.

**Dayton, O.**

The school children of this city made a very interesting show here last week. The idea of this exhibit originated with J. B. Hedges, and it was due to his close of the school year, he gave each child in the school three or four small plants for them to take home and cultivate. Then he offered prizes of palms to the most successful of the little florists. Mr. Hedges also gave the teachers the necessary instructions for the growth of the plants, and they in their turn, imparted this knowledge to their pupils. The show was a grand success.

**Mason City, Ia.**

The Wheeler Floral Co. are building an addition to their greenhouse.

**PLAGE HOLIDAY ORDERS FOR KELSEY'S BRILLIANT GREEN AND BRONZE GALAX LEAVES and LEUCOTHOE SPRAYS**

**NOW and avoid the coming rush. FINEST LEAVES and PACKING.**

**PRICES.**  
**GALAX**, large or small, either color, per 1000, \$1.00; 5000 lots at 75c. rate, per 1000.  
**LEUCOTHOE SPRAYS**, per 100, 15c.; at 1000, \$6.00, \$6.00.  
**CASE A**—5000 GALAX, assorted sizes and colors, for \$3.75.  
**CASE B**—Same as case A—and 200 **LEUCOTHOE SPRAYS** additional for \$5.00.  
**CASE C**—10,000 GALAX, assorted sizes and colors, for \$7.50.  
**TERMS CASH**, shipments from Boston or North Carolina. Give explicit shipping directions, otherwise I use best judgment. Telegraph orders save time. Order one or more cases as above, or in very large quantities by thousands, either color or size. Leucotthoe Sprays by hundreds or thousands. Samples and full information free.  
 Address all communications to **HARTMAN P. KELSEY, 1102 Tremont Building, BOSTON, MASS.** to the introducer.... Addressee in Advance.

When Writing Mention Florists' Exchange

**HARDY FERNS**  
 WARRANTED FIRST QUALITY,  
 SPECIAL ATTENTION PAID TO SUPPLYING WHOLESALE DEALERS.  
 Write for Prices.

**BOUQUET GREEN, SPHAGNUM MOSS, CHRISTMAS TREES,**  
 Etc., Etc., Etc.  
**L. B. BRACUE, — HINSDALE, MASS.**  
 OLDEST, LARGEST, and MOST RELIABLE DEALER IN THE UNITED STATES

When Writing Mention Florists' Exchange

**ASPARAGUS PLUMOSUS NORON,** Cut Strigs, 8 to 10 feet long 50 cts. each.  
 Shipped to any part of the country.  
**W. H. ELLIOTT, — Brighton, Mass.**  
 When Writing Mention Florists' Exchange

**ASPARAGUS ROOTS**  
 FOR FORCING.  
 Has a large stock of Asparagus Roots, 3 and 4 years of age, about 1000 lbs. in greenhouses, Conover's, Barry's and Palmers. Orders will be looked after now for **XMAS HOLLY,** December shipment. Prices of the above on application. State quantity desired.  
**ALEXANDER PULLEN, Milford, Del.**  
 When Writing Mention Florists' Exchange

**Galax Leaves.**  
**CHAS. H. RICKSECKER, Linville, N. C.**  
 When Writing Mention Florists' Exchange

**HOLLY and BOUQUET GREEN.**  
 Don't delay. Give your order early. These special prices will last only a short time.  
**Holly, \$2.50 each. Choice Holly, \$3.00 each. Bouquet Green, \$2.25 per 100. Sphagnum Moss, \$2.00. Bright Green Clump Moss, 75c. Holly Wreath, \$1.00. Laurel Roping, made at lowest price.**

A. LUSBY & CO., 2552 N. 18th St., Phila., Pa.  
 When Writing Mention Florists' Exchange

**HEADQUARTERS**  
 ...OF...  
**PALMS PUMES**  
**CALIFORNIA**  
 Tree and Shrub Seeds, Smilax, Cobaea, Grevillea robusta,  
**PALM SEEDS, Etc.**  
 Ask for Special Prices.  
**GERMAIN FRUIT CO., LOS ANGELES CAL.**  
 When Writing Mention Florists' Exchange

Furnishors of  
 Ferns, Mosses, Hardy Cuttings, Laurels and Princess Pine Festooning, Mosses, Wreaths of Holly, Christmas Trees, Laurel Wreaths, always for First Quality Stock. Write for prices on all goods catalogued at 27 Beacon St., Boston, Mass. Home Office, Milwaukee, Wis.  
 When Writing Mention Florists' Exchange

**BOUQUET GREENS, WILD SMILAX, IMMORTELLES, CAPE FLOWERS, MOSS WREATHS, METAL DESIGNS,**  
 Send for MONTHLY PRICE LIST Just Issued.  
**STUMPP & WALTER CO.,**  
 Formerly with F. E. McALLISTER CO., 50 BARCLAY ST., New York







**JOHN GONLEY & SON,**  
MANUFACTURERS OF  
**TIN FOL**  
2 and 4 Domick Street,  
NEW YORK.

When Writing Mention Florists' Exchange

**THE BEST**  
FOR ALL  
Florists.

FOR SALE BY  
Seed Stores,  
For Free  
Pamphlet,  
write to  
LOUISVILLE  
SPRINT CURIO  
TOBACCO CO.,  
Louisville, Ky

When Writing Mention Florists' Exchange

**STANDARD • POTS.**

We are now ready to supply a superior quality of Pots in unlimited quantities. Catalogues and price lists furnished on application.

**A. H. HEWES & CO.,**  
107 NORTH CAMBRIDGE, MASS.  
When Writing Mention Florists' Exchange

**STANDARD  
FLOWER POTS**  
In any quantity, and of the best quality.  
Get my price list before ordering elsewhere.

**W. H. ERNEST,**  
Jenison M. N. E., WASHINGTON, D. O  
When Writing Mention Florists' Exchange

**PLANT LABELS**  
Best grade of stock, 15 cts. per 1000.  
Florists' other printed supplies at  
corresponding prices. Send for  
samples.

**PAYTON & BENNETT, Printers,**  
4 and 60, Linden Street,  
SPRINGFIELD, OHIO.  
When Writing Mention Florists' Exchange

*Syracuse, N. Y.*

The past week was a very busy one, owing to a number of weddings and a great deal of funeral work, several orders coming from out-of-town.

Bannister Bros. have rented a fine store on the corner of West Geneva and Clinton streets, and Walter Menelly has taken part of a store on James street. P. R. Quillen Co. have had some fine Cattleya labiata, but it does not sell readily here.

The Horticultural Society held a meeting on Saturday evening, and after a rough estimate of the expenses and receipts of the flower show, it was found that the balance was not in favor of the treasury. The bad weather was blamed in part, as it rained on two of the three nights. The attendance was first-class on the fair day. Several good suggestions were made for next year's show of which many more later. Notable exhibits mentioned last week were a vase of cut-arranged Argyle, from Stollery Bros., Argyle Park, Chicago. The color is most pleasing, being of a rosy-pink. The seedlings Onaida and Red Jacket exhibited by H. Baker, of Utah, were also well described recently in the EXCHANGE. Both received a great deal of attention here. While anyone seems able to raise so good pink, it is seldom one has the good fortune to produce no good a scarlet as Red Jacket. It is a sure winner. Walter Menelly exhibited a fine pink which has been named Queen of Scots. Its color is good, fragrance extra, but its chief peculiarity is its good keeping quality. It was quite fresh at the end of the exhibition, long after most of the seedlings had everlastingly retired. Chrysanthemum seedling "Big Blue" for the Yellow Willow was said by many good judges to be the best ever yet produced. Compared with Golden Wedding, the color is shades lighter than that variety, and is perfectly diffused throughout the bloom, being of

a uniform golden-yellow from the tip to the base of the florets. In shape it is somewhat flat on the top, the outer petals drooping gracefully, the inner cutting neatly, making a perfect center. Stem and foliage leave nothing to be desired. Altogether it is a most attractive chrysanthemum, having an unmistakable air of elegance. If public admiration is any criterion, seedling 129 is a great future. The booths for the sale of cut flowers and candy were beautifully decorated and well patronized, the proceeds amounting to 10 per cent. to the Society.

C. BAISON.

*Ottawa.*

On Tuesday and Wednesday of last week the annual chrysanthemum show of the Ottawa Horticultural Society took place, and was said to be, in every respect, the best ever held by them. The plants were generally ahead of those usually exhibited, and the cut blooms were fully up to the standard of the day, and as every exhibit was Ottawa-grown, the interest was great. C. Scrim was the most successful exhibitor, the next being J. Graham, J. McNeil, Geo. Keyes, B. Thibault and W. J. Graham.

In plants, C. Scrim captured seven firsts, and one second; J. McNeil got one first and four seconds; P. G. Keyes, two seconds; J. A. Ellis, one second. In cut blooms Mr. Scrim took all the firsts except for the vase of violets, one variety, which went to J. Graham.

In roses Mr. Scrim was first for red, white, and yellow, and J. Graham for pink.

In carnations Mr. Scrim was first in all colors, also in cuttings and plants. Although C. Scrim took a majority of the first prizes, in many classes the contest was close. The most noticeable features of the exhibits were in plants of Glory of the Pacific, Georgienne Brant, Miss George, Queen of the West, Robinson, Ivory, and Bonaffon. In cut blooms The Queen, Niveus, Vivand, Starred, Standard, and Grandiflorum. Mrs. Peabody, Mrs. Robinson, Leaveau, and above all Modesto. The flowers of these as well as many others were very fine.

The contest in twelve blooms of any variety in a vase was very close. Graham with twelve Vivand-Morel beating C. Scrim with twelve Niveus. Either vase would have been noticeable in any show.

Owing to bad weather the good show for this year was very fine. A large crowd as H. deserved. (Almost a chestnut.)

On Thursday C. Scrim moved from his old quarters to a new store in the next block, which had been fitted up specially for him, and furnished with every hand-somely, with every convenience for use and comfort, and with a very fine light-plant display. The store has one of the finest stores in Canada. The move came at the right season of the year to enable him to give his customers "at home," to which he invited his many friends and patrons, and he left nothing undone to make it a pleasure and a treat.

There were large vases of Modesto, The Queen, Morel, Fitch, and Robinson, Peabody, Mrs. Murdoch, etc., placed in every direction. One of the features of the decorations was a mound in the center of the store, which is very capacious. The border was a circle of large tubs of Adiantum quantum in fine condition, next a row of Ivory plants, then a row of Georgiana Pitcher, the whole surmounted by large vases of fine specimens of Vivand-Morel, which made a very pleasing combination. All available space was occupied with chrysanthemum plants of many varieties mixed in with palms. One counter was filled with specimen blooms in vases of chrysanthemums, roses, and other flowers, with a fine batch of azaleas in full bloom. The whole with the many chrysanthemums, many arranged in an enchanting picture, and if the number of people who visited him on this occasion is any criterion of his popularity as a florist, the new "shop" will pay.

Mr. French, another of our prominent florists, is thinking of changing his list to take charge of his retail department. Business in chrysanthemums has been very good, and there is a steady demand for roses, carnations and violets. E.

**Clear Cypress  
Greenhouse Material.**

This with us means the best growth of Cypress Lumber and the best grade of that growth; and from this grade all the sap—bright sap, which only experts can detect—as well as stained sap, knots and other defects cut out. Others do not equal our quality. It is not hard to see the reason; You can not buy gold dollars at fifty cents each. Experienced growers know that the best is not too good and cheapest in the long run.

Write for Circulars  
or Estimates.

**Lockland Lumber Co.,**  
LOCKLAND, O.

When Writing Mention Florists' Exchange

**Standard Flower Pots.**

Send for our New Price List with extra discounts. All our Pots from 7 in. and upwards, have for Patent Excess Bottom, which is a great advantage, as it insures perfect drainage.

A FULL LINE OF BULB PANS.  
**THE WHILLDIN POTTERY CO., 713 to 719 Wharton Street, PHILADELPHIA**  
BRANCH HOUSES: Jackson Ave. and Pearson St., Long Island City, N. Y.  
When Writing Mention Florists' Exchange

**FLOWER POTS**

We are Manufacturing a Full Line of  
**STANDARD FLOWER POTS and HANGING BASKETS**  
OF THE BEST QUALITY.

Shipping Facilities First-Class, thereby Securing Lowest Freight Rates.  
Our goods are well packed, and breakage is nominal. Give us a trial. Send for Price List.  
Address THE SYRACUSE POTTERY CO., 403 N. SALINA ST., SYRACUSE, N. Y.

**EVERY FLORIST OUGHT TO  
INSURE HIS GLASS AGAINST  
MAIL.**

For particulars address:  
**JOHN G. ESLER, Secy, Saddle River, N. J.**  
When Writing Mention Florists' Exchange

**MASTICA**  
For Glazing Greenhouses. A substitute for putty. Superior to any other. MASTICA and MASTICA GLAZING MACHINES are among the highest award of A. A. at Pittsburgh. Address for circular, F. O. PIERCE CO., 170 Fulton St., N. Y.

Sole Manufacturers.  
When Writing Mention Florists' Exchange

**IF YOU WANT  
A GOOD SASH LIFT**  
For a Very Little Money Out



For Descriptive Catalogue Send to  
**J. D. CARMODY, Evansville, Ind.**  
When Writing Mention Florists' Exchange

**SCOLLAY'S  
IMPROVED  
PUTTY BULB**

For Glazing Sash, Etc.,  
—ALSO THE—  
**PATENT PATRIOT SPRINKLER**  
For sale by your hardwareman or sent, postpaid, for \$1.00.  
**JOHN A. SCOLLAY,**  
74 & 76 Myrtle Ave.,  
BROOKLYN, N. Y.  
SEND STAMP FOR CATALOGUE.  
When Writing Mention Florists' Exchange

**CYPRESS**  
IS MUCH MORE DURABLE THAN PINE.  
**CYPRESS  
SASH BARS**  
UP TO 32 FEET IN LENGTH OR LONGER.  
**GREENHOUSE  
AND OTHER BUILDING MATERIAL.**  
Send for our Illustrated Book  
"CYPRESS LUMBER AND ITS USES."  
Send for our Special Greenhouse Circular.  
**THE T. STEARNS Lumber Co.,**  
Newspapers, Boston, Mass.

When Writing Mention Florists' Exchange

**CYPRESS**  
GREENHOUSE  
MATERIAL  
OF THE  
BEST DESCRIPTION

**JOHN C. MONINGER  
Co.**  
412 to 422  
HAWTHORNE AV.  
CHICAGO, ILL.

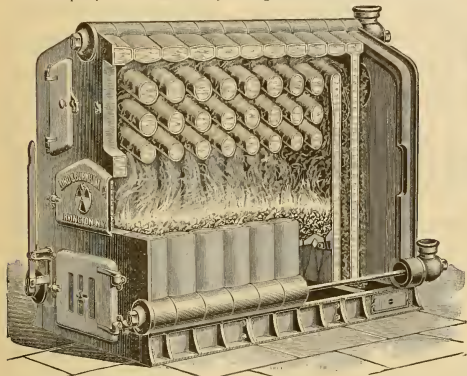
When Writing Mention Florists' Exchange

**LORD & BURNHAM CO.,**

Horticultural Architects and Builders and Manufacturers of Heating and Ventilating Apparatus.

(Established 1856.)

Plans and estimates furnished on application for Heating and Ventilating Apparatus erected complete, or for material only. Highest Awards at the World's Fair.



NEW SECTIONAL HOT WATER HEATER.

Specially adapted to large ranges. Will heat up to 16,500 feet of glass. Highest economy. Moderate cost. Also heaters for smaller work. Send six cents postage to New York office for latest catalogue of Heating and Ventilating Apparatus.

NEW YORK OFFICE:  
180 FIFTH AVE., COR. 21ST ST.

GENERAL OFFICE AND WORKS:  
IRVINGTON-ON-HUDSON, N. Y.

When Writing Mention Florists' Exchange

**GLASS**

FOR GREENHOUSES, CONSERVATORIES, GRAPERIES, HOTBEDS AND FLORISTS' USE GENERALLY, AT LOWEST RATES.

L. HARRIS & SON,  
487 W. BROADWAY, NEW YORK, 89 LIBERTY ST., NEW YORK  
Sole Dealers and Stockists N. Y.

When Writing Mention Florists' Exchange

**DON'T SYRINGE WITH COLD WATER**

It lowers the vitality of your stock, but write for particulars of my Tempering Apparatus  
**HENRY W. GIBBONS, 134 LIBERTY STREET, NEW YORK.**

When Writing Mention Florists' Exchange

**SHEET GLASS**

**ALL KINDS** Get our Prices.

**JOHN LUGAS & CO., Philadelphia.**

When Writing Mention Florists' Exchange

Make an Early Season **TILE** by using our **AGRICULTURAL DRAIN** Every man of experience knows that land that is tile-drained may be worked weeks in advance of that which is undrained.

**ROUND TILE** Sewer Pipes, Red Pressed Brick, Fire Brick, Chimney Tops, Flues, etc., made by the **WALSH** process. Write for circular to **JOHN H. JACKSON 17 Third Ave., Albany, N. Y.**

When Writing Mention Florists' Exchange

**PIPE VALVES**

Wrought Iron Pipe, Valves, Gaskets, Fittings, also, for Steam and Hot Water; Rubber Hose, Pumps and Well Points.  
**WM. H. KAY, 42 Day St., New York.**

When Writing Mention Florists' Exchange

**MYERS & CO., Greenhouse Builders,**

Steam and Hot Water Engineers.

1814-1820 S. Ninth St., Philadelphia.

When Writing Mention Florists' Exchange



**VALVES and FITTINGS**

For Pipe and Tubing, **VENTILATING APPARATUS.**

**COLUMBELL, HILCOX CO.,**

Newburgh, N. Y.

SEND FOR CATALOGUE

Mention paper.

**Evans Improved Challenge**

Roller bearing, self-oiling device, automatic stop, will lift & clamp makes the IMPROVED CHALLENGER the most perfect apparatus in the market.

Write for catalogue and prices before placing your orders elsewhere.

**Quaker City Machine Co., RICHMOND, IND.**

When Writing Mention Florists' Exchange

**SUMMER IN WINTER**

By Using **Standard Greenhouse Boilers**

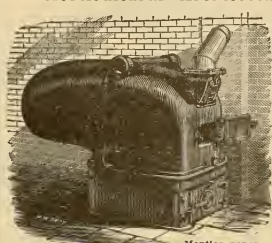
One cent goes on Catalogue.

**GIBLIN & CO., - Utica, N. Y.**

When Writing Mention Florists' Exchange

**GREENHOUSE HEATING AND VENTILATING,**

Horticultural Architecture and Building.



Mention paper

**Hitchings & Co**

ESTABLISHED 1844.

233 Mercer Street, NEW YORK.

**FIVE PATTERNS OF BOILERS.**

NINETEEN SIZES.

Perfect Sash Raising Apparatus.

Rosehouses, Greenhouses, Etc., of Iron Frame Construction erected complete or the Structural Iron Work shipped ready for erection.

Iron Frame Benches with the "Perfect Drainage Bench Tile" or Slate Tops.

SEND 4c. POSTAGE FOR ILLUSTRATED CATALOGUE.

**GLASS! For Greenhouses, Conservatories, Graperies, Hotbeds and all other purposes, at Lowest Rates. GLASS!**

**N. COWEN'S SON, 392 & 394 West Broadway, New York,** Formerly 184 and 156 So. Fifth Avenue.

Get our Figures before buying Glass. - Estimates Freely Given When Writing Mention Florists' Exchange.

**CALIFORNIA RED CEDAR Never Decays.**

**A. DIETSON & CO. 619 Sheffield Avenue, CHICAGO.**

RED CEDAR AND CYPRESS GREENHOUSE MATERIAL.

When Writing Mention Florists' Exchange



**THE VAN REYPER**

**PERFECT GLAZIERS' POINTS**

No rights or lefts. Price per box of 1000, 60c. by mail, 75c.; lots of 5000 by ex., 55c. per 1000

**HENRY A. DREER, 714 Chestnut St., Phila., Pa.**

When Writing Mention Florists' Exchange

**The New Automatic Cable Ventilator**

As it is put up in the house complete. We also give you prices with a guarantee that each machine sent out will operate your house successfully. Both machines now made in two sizes.

**A. Q. WOLF & BRO., Dayton, Ohio.**

When Writing Mention Florists' Exchange

**STANDARD VENTILATING MACHINE.**

NONE EQUAL IT IN Strength AND Durability



NOTHING Flimsy OR Complicated about it.

**E. HIPPARD, YOUNGSTOWN, OHIO**

When Writing Mention Florists' Exchange

**TRADE GREENHOUSES. THE BEST MADE.**

"Florists" Get Your Plans and Estimate from **PLENTY'S HORTICULTURAL WORKS,**

148-156 Randolph Ave., JERSEY CITY, N. J.

When Writing Mention Florists' Exchange

**J. K. ALLEN,**  
Wholesale Commission Dealer in  
**CUT FLOWERS,**  
57 W. 28th St., New York.  
Orders by mail or telegraph promptly attended to.  
Telephone Call, 262-28th St.  
**ROSES AND VIOLETS SPECIALITIES.**

**W. S. ALLEN,**  
Wholesale Commission Dealer  
45 West 28th St., New York.  
Correspondence Solicited.

**J. B. EZECHIEL,**  
Wholesale Florist,  
42 West 28th St., NEW YORK.  
Telephone 2723-18th.  
Asparagus, Valley, Carnations,  
Specialities. Consignments Solicited.

**FORD BROS.**  
Wholesale Florists,  
111 West 30th Street,  
NEW YORK.  
Consignments Solicited. Telephone 252 28th St.

**WM. H. CUNTRER,**  
Wholesale Florist  
VIOLETS and CARNATIONS a SPECIALTY.  
Consignments Solicited.  
30 West 29th St., New York.  
Telephone, 300-328th Street.

**MICHAEL A. HART,**  
Wholesale & Commission Florist,  
113 W. 30th St., New York.  
Telephone Call, 137-30th St.  
All kinds of Roses, Violets and Carnations a specialty.  
**ORDERS PROMPTLY ATTENDED TO.**

**H. A. HOFFMANN,**  
Wholesale Florist  
44 W. 29th St., New York.  
Telephone Call, 135-30th St.  
American Beauties, White Violets, Adanshams,  
Specialties. **CONSIGNMENTS SOLICITED.**

**EDWARD C. HORAN,**  
Wholesale & Florist,  
No. 34 W. 29th St., New York.  
The Bride, Mermet and American  
Beauty, Specialties.

**J. M. KING,**  
Wholesale Commission Florist,  
49 W 29th St. NEW YORK CITY.  
Wishes to inform growers and others, that he has  
changed his place to three times its former size,  
and is now able to handle a much larger quantity  
of stock than before.  
**CONSIGNMENTS SOLICITED.**  
Telephone 1673-2C

**JULIUS LANG,**  
Wholesale Florist  
53 WEST 30th ST.  
Consignments Solicited. NEW YORK.

**BUY DIRECT FROM THE GROWER**  
**ERNST G. ASMUS**  
Wholesale Florist.  
**ROSE SPECIALITIES:**  
Am. Beauty, Prnc. Carnot, Mrs. Morgan, Bridesmaid, Cusin, Testout, Victor  
**K. A. Victoria**  
VIOLETS, ORONDIS, CHRYSANTHEMUMS and CARNATIONS.  
Grower of the only VALLEY receiving a N.Y. CUT FLOWER CO. Award of Gold Medal.  
Special attention given to shipping orders. 112-114 W. 24th St., N.Y.  
When Writing Mention Florists' Exchange

**PRICE LIST MAILED ON APPLICATION**

A. L. VAUGHAN. CHAS. W. MCKELLAR. E. F. WINTERSOHN  
**VAUGHAN, MCKELLAR & WINTERSOHN,**  
**WHOLESALE COMMISSION OBBERS**  
In Cut Flowers, Plants, Bulbs, Seeds, Xmas Holly, Bouquet Green,  
and all Florists' Supplies, Manufacturers, Wholesale. W. 23rd St.  
**45, 47, 49 WABASH AVENUE, CHICAGO, ILL.**  
When Writing Mention Florists' Exchange

**Wholesale Prices of Cut Flowers**

NAMES AND VARIETIES.	NEW YORK		BOSTON		PHILADELPHIA		CHICAGO		ST. LOUIS	
	Nov. 26, 1897	Nov. 24, 1897	Nov. 24, 1897	Nov. 24, 1901	Nov. 24, 1897	Nov. 24, 1897	Nov. 24, 1897	Nov. 24, 1897	Nov. 24, 1897	Nov. 24, 1897
A. JORDY, fancy and special	75.00 to 81.00	60.00 to 65.00	25.00 to 30.00	43.00 to 48.00	36.00 to 41.00	30.00 to 35.00	25.00 to 30.00	20.00 to 25.00	15.00 to 20.00	10.00 to 15.00
"No. 1.	2.00 to 2.50	1.50 to 2.00	1.00 to 1.50	2.00 to 2.50	1.50 to 2.00	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
"Culls and ordinary.	1.00 to 1.50	0.50 to 1.00	0.50 to 1.00	1.00 to 1.50	0.50 to 1.00	0.50 to 1.00	0.50 to 1.00	0.50 to 1.00	0.50 to 1.00	0.50 to 1.00
Beretta, Louis	3.00 to 4.00	2.50 to 3.50	2.00 to 3.00	4.00 to 5.00	3.50 to 4.50	3.00 to 4.00	2.50 to 3.50	2.00 to 3.00	1.50 to 2.50	1.00 to 2.00
Bride	3.00 to 4.00	2.50 to 3.50	2.00 to 3.00	4.00 to 5.00	3.50 to 4.50	3.00 to 4.00	2.50 to 3.50	2.00 to 3.00	1.50 to 2.50	1.00 to 2.00
Bride maid	3.00 to 4.00	2.50 to 3.50	2.00 to 3.00	4.00 to 5.00	3.50 to 4.50	3.00 to 4.00	2.50 to 3.50	2.00 to 3.00	1.50 to 2.50	1.00 to 2.00
K. A. Victoria	3.00 to 4.00	2.50 to 3.50	2.00 to 3.00	4.00 to 5.00	3.50 to 4.50	3.00 to 4.00	2.50 to 3.50	2.00 to 3.00	1.50 to 2.50	1.00 to 2.00
L. Princes	3.00 to 4.00	2.50 to 3.50	2.00 to 3.00	4.00 to 5.00	3.50 to 4.50	3.00 to 4.00	2.50 to 3.50	2.00 to 3.00	1.50 to 2.50	1.00 to 2.00
Mermat	3.00 to 4.00	2.50 to 3.50	2.00 to 3.00	4.00 to 5.00	3.50 to 4.50	3.00 to 4.00	2.50 to 3.50	2.00 to 3.00	1.50 to 2.50	1.00 to 2.00
Mme. Tarnot	3.00 to 4.00	2.50 to 3.50	2.00 to 3.00	4.00 to 5.00	3.50 to 4.50	3.00 to 4.00	2.50 to 3.50	2.00 to 3.00	1.50 to 2.50	1.00 to 2.00
Mrs. F. Morgan	3.00 to 4.00	2.50 to 3.50	2.00 to 3.00	4.00 to 5.00	3.50 to 4.50	3.00 to 4.00	2.50 to 3.50	2.00 to 3.00	1.50 to 2.50	1.00 to 2.00
Nippon	3.00 to 4.00	2.50 to 3.50	2.00 to 3.00	4.00 to 5.00	3.50 to 4.50	3.00 to 4.00	2.50 to 3.50	2.00 to 3.00	1.50 to 2.50	1.00 to 2.00
Papa	3.00 to 4.00	2.50 to 3.50	2.00 to 3.00	4.00 to 5.00	3.50 to 4.50	3.00 to 4.00	2.50 to 3.50	2.00 to 3.00	1.50 to 2.50	1.00 to 2.00
Perle	3.00 to 4.00	2.50 to 3.50	2.00 to 3.00	4.00 to 5.00	3.50 to 4.50	3.00 to 4.00	2.50 to 3.50	2.00 to 3.00	1.50 to 2.50	1.00 to 2.00
Son of Woodrow	3.00 to 4.00	2.50 to 3.50	2.00 to 3.00	4.00 to 5.00	3.50 to 4.50	3.00 to 4.00	2.50 to 3.50	2.00 to 3.00	1.50 to 2.50	1.00 to 2.00
Ulrich Trauer	3.00 to 4.00	2.50 to 3.50	2.00 to 3.00	4.00 to 5.00	3.50 to 4.50	3.00 to 4.00	2.50 to 3.50	2.00 to 3.00	1.50 to 2.50	1.00 to 2.00
Waterfall	3.00 to 4.00	2.50 to 3.50	2.00 to 3.00	4.00 to 5.00	3.50 to 4.50	3.00 to 4.00	2.50 to 3.50	2.00 to 3.00	1.50 to 2.50	1.00 to 2.00
ADANSHAM	3.00 to 4.00	2.50 to 3.50	2.00 to 3.00	4.00 to 5.00	3.50 to 4.50	3.00 to 4.00	2.50 to 3.50	2.00 to 3.00	1.50 to 2.50	1.00 to 2.00
ADANSHAM	3.00 to 4.00	2.50 to 3.50	2.00 to 3.00	4.00 to 5.00	3.50 to 4.50	3.00 to 4.00	2.50 to 3.50	2.00 to 3.00	1.50 to 2.50	1.00 to 2.00
ASTER	3.00 to 4.00	2.50 to 3.50	2.00 to 3.00	4.00 to 5.00	3.50 to 4.50	3.00 to 4.00	2.50 to 3.50	2.00 to 3.00	1.50 to 2.50	1.00 to 2.00
CHRYSANTHEMUMS	1.00 to 1.50	0.50 to 1.00	0.50 to 1.00	1.00 to 1.50	0.50 to 1.00	0.50 to 1.00	0.50 to 1.00	0.50 to 1.00	0.50 to 1.00	0.50 to 1.00
Specials.	1.00 to 1.50	0.50 to 1.00	0.50 to 1.00	1.00 to 1.50	0.50 to 1.00	0.50 to 1.00	0.50 to 1.00	0.50 to 1.00	0.50 to 1.00	0.50 to 1.00

For Prices of Fancy and Special Stock see our Correspondence Columns.  
Prices are for quantities of one hundred unless otherwise noted.  
Prices cut above are given only after very careful inquiry, and while we do not  
guarantee their accuracy, they will be found practically correct up to the date mentioned.

**REINBERG BROS.,** Wholesale Growers of Cut Flowers... 500,000 Feet of Flowers...  
We can fill all orders on short notice with all leading varieties of **ROSES** and **CARNATIONS**. We are headquarters for fine **AMERICAN BEAUTIES**. Give us a trial and convince yourself.  
**SALESROOM 51 Wabash Avenue, CHICAGO, ILL.**  
When Writing Mention Florists' Exchange

**SAMUEL S. PENNOCK,** Wholesale Florist.  
A fine stock of **Roses, Violets, Carnations, Smilax, Etc.**, coming in, of which we can fill orders on the shortest notice.  
**EXTRA FINE STOCK OF BEAUTIES.**  
Fine crop of **CYRIPEDIUM**, now ready, \$12.00 per hundred.  
**1612-1614 Barker St., bet. Chestnut & Market St., Philadelphia, Pa.**  
Local and Long Distance Phone 2231. Open until 9 P. M.  
When Writing Mention Florists' Exchange

**CITY HALL CUT FLOWER MARKET**  
15 Province St. and 9 Chapin Place,  
**WELCH BROS.** (Long Distance Telephone 2071), Boston, Mass.  
New England headquarters for Choice **Chrysanthemums**, **American Beauties**, and other varieties of **Roses**, **Carnations**, **Violets**, etc. Orders can be filled promptly from the produce of sixty-five growers, if not will telegraph.  
**Hardy Ferns**, **Southern Smilax**, **Galax Leaves**, always on hand.  
When Writing Mention Florists' Exchange

**MacDonald & McManus,**  
**Wholesale Florists**  
AND DEALERS IN  
**CUT FLOWERS,**  
50 W. 30th St., NEW YORK.  
8th shipment of Cut Flowers on Com-  
mission. Best market prices guaranteed.  
Telephone, 272-B 28th Street.

**FRANK MALLANG,**  
Wholesale Commission Dealer  
...in Cut Flowers...  
408 East 34th St., New York City.  
Cut Flower Exchange, Telephone Call, 104-38th.

**THE NEW YORK CUT FLOWER CO.**  
119-121 West 23d Street,  
112-114 West 24th Street,  
Telephone 733-15th. NEW YORK.  
**CONSIGNMENTS SOLICITED.**  
Special Attention Given to Shipping Orders.

**W. F. SHERIDAN**  
Wholesale Commission Dealer in  
**CUT FLOWERS**  
39 West 24th St., New York.  
Telephone, 214-38th St.  
**PRICE LIST SENT ON APPLICATION.**

**FRANK H. TRAENDL,** **CHARLES SCHNECK,**  
**TRENDY & SCHENCK,**  
Wholesale Florists,  
38 W. 28th St. and CUT FLOWER EXCHANGE,  
NEW YORK.  
Telephone 861-19th St.  
Consignments Solicited

**JOHN YOUNG,**  
Wholesale Florist,  
51 WEST 28th ST.,  
NEW YORK.

**FRANK S. HICKS,**  
Wholesale Florist,  
**40 BOERUM PLACE,**  
Tel. 1225 Brooklyn. Brooklyn, N. Y.  
Consignments Solicited.

**C. A. KUEHN,**  
Wholesale Florist,  
1122 Pine St., St. Louis, Mo.  
A COMPLETE LINE OF WIRE DESIGNS.

**C. W. WORS,**  
Wholesale Florist,  
313 N. LEFFINGWELL AVENUE,  
STY. LOUIS, MO.  
FINE ROSES—shipped carefully to all  
parts of the country.

**Buffalo Cut Flower Exchange**  
**WHOLESALE COMMISSION.**  
CONSIGNMENTS SOLICITED.  
481 Washington St., BUFFALO, N. Y.  
Telephone, Seneca, 1895.

**Wholesale Florists**  
 (Wholesale Branch)  
 CINCINNATI,  
 OHIO,  
 U.S.A.

*N. F. W. White*

**JOBBER IN  
 FLORIST'S  
 SUPPLIES.**

**FLORISTS' VASES.**  
 Horticultural Auctioneers,  
 84 HAWLEY STREET, - BOSTON.

**GEO. A. SUTHERLAND,**  
 Successor to WM. J. STEWART,  
**CUT FLOWERS and FLORISTS' SUPPLIES**  
**WHOLESALE.**  
 67 Bromfield St., Boston, Mass.

**WM. J. BAKER,**  
**Wholesale Florist**  
 1432 So. Penn Square,  
 Philadelphia, Pa.

**DUMONT & CO.,**  
**WHOLESALE FLORISTS**  
 CARNATIONS A SPECIALTY.  
 No. 1, 05 Filbert St., Philadelphia.  
 'PHONE, 3922 D.

**New Haven, Conn.**

There being no combined chrysanthemum show here, Smith T. Bradley hit upon an idea which was both novel and highly successful. A card of invitation was mailed advertising in conjunction with a flower show a vocal and musical concert each evening from 7 to 8, by Edison's phonograph, during the week of November 8-13. Although the weather was unfavorable part of the time, the place was crowded with an appreciative audience who carried off flowers for which they paid, and small plants such as cactus as souvenirs for which they did not pay. Taken all in all, including the cost of the special officers to keep the crowd in order, it was a most profitable undertaking which will doubtless be repeated next year.

John Champion and S. H. Moore both have the displays. The Yale-Princeton football match created a demand for yellow chrysanthemums and violets that was difficult to fill.

H. Vetter & Son have made an improvement to their store by the addition of a show case in the front. Cut flowers can be displayed to greater advantage.

W. J. Kove is picking tomatoes from a side bench, for which 30c. per pound is obtained wholesale—quite a nice little item when flowering stock is bringing such low prices. I understand that the veteran Archibald Vetch is quite sick. It is to be hoped he will soon pull around.

**Wallingford, Conn.**  
 Geo. H. Bowden is growing for holiday trade lilies and rhododendrons in pots. He has had several calls for such, presumably from customers who have visited the big cities. Cinerarias have been a specialty with him for many years. He does this plant well. W. M.

**Wait 'till December first**  
 When our new Catalogue now in the printer's hands will be ready for mailing. Send us a card and get one.

**H. BAYERSDORFER & CO.,**  
 56 North 4th St., Phila., Pa.  
 When Writing Mention Florists' Exchange

**S. FROWET,**  
**Wholesale Florist,**  
 17 North 13th Street,  
 PHILADELPHIA, PA.  
 Consignments Solicited. Special Attention Given to Shipping Orders.

**CHAS. H. MILLER,**  
**Wholesale Florist**  
 No. 6 So. 19th Street,  
 PHILADELPHIA, PA.

**EDWARD REID,**  
**Wholesale Florist**  
 1526 RAINSTEAD STREET,  
 Bet. Market & Chestnut Sts., PHILADELPHIA.  
 All CUT FLOWERS in Season.  
 'Phone 3962 A.

**WM. C. SMITH,**  
**Wholesale Florist,**  
 40 S. 16TH ST.,  
 PHILADELPHIA.  
 Roses, Carnations, etc. Consignments solicited.

**ILLINOIS CUT FLOWER CO.,**  
 J. B. DEAMUD, MANAGER.  
 Wholesale Commission Florists,  
 51 Wabash Ave., - CHICAGO.

**KENNICOTT BROS. COMPANY,**  
**Wholesale - Cut - Flowers,**  
 88 Wabash Avenue,  
 CHICAGO, ILL.  
 WIRE WORK A SPECIALTY.

**ROGERS PARK FLORAL CO.,**  
**Wholesale Growers of Cut Flowers**  
 OFFICE AND SALESROOM,  
**41 WABASH AVE., CHICAGO.**  
 Headquarters for AMERICAN BRADIES.

**MAX RUDOLPH,**  
**Wholesale Florist**  
 All Seasonable CUT FLOWERS.  
 FINE ROSES.  
 Shipping orders a specialty. Consignments solicited.  
 11 W. 12th St. - CINCINNATI, O.

**H. L. SUNDERBRUCH CO.,**  
**Wholesale Commission Florists,**  
 4th and Walnut Streets,  
 CINCINNATI, OHIO.  
 Consignments Solicited. Special Attention Given to Shipping Orders.

**HEADQUARTERS** in Western New York. Try us  
**ROSES, CARNATIONS and ALL SEASONABLE FLOWERS.**  
**WM. F. KASTING,** Wholesale Commission Florist  
 495 Washington St., BUFFALO, N. Y.  
 Also Dealer in Florists' Supplies & Wire Designs

**St. Louis**  
**Cut Flower Co.**  
 WHOLESALE FLORISTS,  
 1620 Olive St.  
 ST. LOUIS, MO.

**E. G. HILL & CO.,**  
**Wholesale Florists,**  
 RICHMOND, INDIANA.  
 When Writing Mention Florists' Exchange

N. B. . . . . N. B.

**Growers, Dealers and Buyers,**

WE ARE OPEN AND READY FOR BUSINESS AT  
**4 Ordway Place, BOSTON, MASS.**

**GALVIN & CO.**

Wholesale Florists and Dealers in all Florists' Supplies

Fully equipped for Cut Flower Consignments, and can command the best market. . . . .

When Writing Mention Florists' Exchange

**"JADOO"**  
**FIBRE and LIQUID are used and endorsed by the leading growers. Try them and be convinced.**

**CHOCOLATE COOLER CO.,**  
 GRAND RAPIDS, MICH.  
 Manufacturers of  
**FLORIST'S REFRIGERATORS.**  
 Send for Circular.

When Writing Mention Florists' Exchange

**REED & KELLER**  
**FLORISTS' SUPPLIES**  
 122 W. 25th Street,  
 NEW YORK CITY.  
 When Writing Mention Florists' Exchange

**A SET OF Long's Florists' Photographs**  
 BELONGS IN EVERY WELL REGULATED RETAIL FLORIST'S ESTABLISHMENT. THEY HELP BUSINESS, AND GAIN IN PROFITS.

Sixteen page Catalogue FREE.

**DAN'L B. LONG, Publisher,** - - - BUFFALO, N. Y.  
 When Writing Mention Florists' Exchange

**GOLD FISH.**

**Fine Healthy Stock.**  
 Medium to large size, \$10.00 per 100. Cash with order. No charge for shipping cans. Gold Fish can be shipped by Express thousands of miles with safety and are a profitable and attractive stock to handle.  
 Full line of Aquaria Supplies.

**KEENAN'S SEED STORE.**  
 6112 and 6114 Wentworth Ave., CHICAGO.  
 When Writing Mention Florists' Exchange

**HAVE YOU EVER TRIED THE MEYER GREEN SILKALINE?**



Price \$1.25 per lb. For sale everywhere. Fancy colors for fine assortments. Order each case letter, gives away with first order of 500 letters.  
 Each Letter, 1 1/2 x 3 1/2 inch size, per 100, \$1.00.  
 Sample Letters, \$1.00.  
 Patterns with silk letter on card.  
 Sent by freight. Receive everywhere and for sale by all wholesale florists and supply houses.

**Boston Florist Letter Co.**



This wooden base nicely stained and varnished, 16-50 plates for fine assortments. Order each case letter, gives away with first order of 500 letters.  
 Each Letter, 1 1/2 x 3 1/2 inch size, per 100, \$1.00.  
 Sample Letters, \$1.00.  
 Patterns with silk letter on card.  
 Sent by freight. Receive everywhere and for sale by all wholesale florists and supply houses.  
**N. F. MCCARTHY, Treas. & Manager.**  
 100 State St., BOSTON, MASS., U.S.A.  
 When Writing Mention Florists' Exchange

A CHANGE OF AB. is often as necessary as a change of air, or change of diet, and for the same reason—to keep trade and body healthy.

# AN EXCEPTIONAL OPPORTUNITY

## ON TUESDAY and FRIDAY, NOVEMBER 30th, and DECEMBER 3d.

10 Cases of Holland Nursery Stock, consisting of Roses, Stapyleas, Viburnum, Lilacs, Azaleas, Aucubas, Cupheas, Retinosporas, Magnolias, Buxus, Rhododendrons, Paeonies, Ferns. Also 5 cases of Bulbous Stock, consisting of Hyacinths and Tulips, named. Also, 10,000 Chinese Lilies.

When Writing Mention Florists' Exchange

We will offer at our Salesrooms,  
**54 & 56 DEY ST., NEW YORK,**

**WM. ELLIOTT & SONS,**  
AUCTIONEERS.

# SAVE 50% DUTY

## ON METAL FLORAL DESIGNS

### PREPARED CVCS PALM LEAVES

All Florists' Supplies Second to None. Write for Catalogue.

**A. HERRMANN.** 404, 406, 408, 410, 412 East 34th Street, NEW YORK CITY.

Manufacturer of METAL FLORAL DESIGNS, Importer and Dealer in FLORISTS' SUPPLIES.

When Writing Mention Florists' Exchange

# Florists' Supplies.

Largest Stock in the Country.

All goods up to date, and of superior quality.

Write for prices and other information.

**H. BAYERSDORFER & CO.,**

88 N. FOURTH STREET, PHILADELPHIA, PA.

When Writing Mention Florists' Exchange



NO ADULTERATION. **BONE FLOUR** NO ACID.

Refer to Fred. Forner & Sons Co., La. Payette, Ind. John H. Taylor, Bayridge, L. I., N. Y.  
A. W. Livingston & Sons, Columbus, O. L. H. May & Co., New York, Minn.

**Geo. S. Bartlett, Successor to**  
Successor to W. 9th Street, CINCINNATI, O.  
CINCINNATI, O. CINCINNATI DESICCATING CO.

When Writing Mention Florists' Exchange

JADDOO

**FIBRE**--Every plant grown in it thrives without earth.

**LIQUID**--The best, safest and cheapest Fertilizer sold.

**THE AMERICAN JADDOO CO.,**  
U. S. Patent and Trade Mark. 811 Fairmount Avenue, PHILADELPHIA, PA.

When Writing Mention Florists' Exchange

# The New Chrysanthemum ... Pennsylvania

The finest yellow Chrysanthemum for cut blooms or exhibition ever produced. Certificate of National Chrysanthemum Society; Silver Medals by Pennsylvania Horticultural Society, New York Gardeners' Society and Kentucky Society of Florists.

Certificate of Merit from Philadelphia, Boston, New York, Indianapolis, Montreal, Canada, Cincinnati and Germantown.

PRICE OF PLANTS--50 cts. each; \$5.00 per doz.; \$35.00 per 100; \$250 per 1000.  
50 at 100, and 500 at 1000 rates. Delivered March 15th, 1898.

**HUGH GRAHAM,**  
104 South 13th Street, PHILADELPHIA, PA.

OR--GINATOR AND INTRODUCER.

When Writing Mention Florists' Exchange

## CLEMATIS PANICULATA

From 2 1/2 in. pots, \$3.00 per 100. CLEMATIS FLAMMULA, field-grown, \$5.00 per 100.

**VARIEGATED VINCAS,** field-grown, \$4.00 per 100.

**CALIFORNIA VIOLETS,** field-grown, \$4.00 per 100.

C. EISEL, 11th & Jefferson Sts., Philadelphia, Pa. When Writing Mention Florists' Exchange

## SUPPLIES

of all kinds for Florists' store, greenhouse and garden; Seeds of choicest strains, and Bulbs in season. Metal Floral (Pleasant) for cemetery decorating. New York. Pottery planters for the holiday trade. China and Glass Fern Vases in great assortment. Inexpensive. Send for new list to

**AGOST ROLKER & SONS,** 202 Bay St., New York.

When Writing Mention Florists' Exchange

## CAPE JESSAMINES 1/2 GARDENIA FLORIDA.

Strong and stocky, 3 to 10 in. \$3.00 per 100; 100 per 1000; 1 to 2 ft., \$5.00 per 100; 2 to 3 ft., \$10 per 100. JOHN MONROUSIE, Caddo Nurseries, JEWELLA, LA. When Writing Mention Florists' Exchange

Write **C. S. LODER, Sec'y,** NATIONAL FLORISTS' BOARD OF TRADE, 871 Broadway, New York City.

13 regard to Collections, Credits, etc. When Writing Mention Florists' Exchange

## MANURE

Fresh and well rotted horse manure. Manure for Manure and rotted a specialty. Excellent facilities for shipping by Express. New York, N. Y. & C. O. and also by boat. Wm. Abernethy, Room 310, 224 Fulton Street, Philadelphia, Pa.

When Writing Mention Florists' Exchange

## GENUINE PEAT AND LEAF MOULD

Large Barrels, \$1.00; 10 in hbl. lots, at 75 cts. per hbl.; F. O. B.

**JAMES L. REYNOLDS,** Mount Vernon, N. Y. When Writing Mention Florists' Exchange

## SHEEP MANURE

Cleaned and prepared especially for florists' use. You will find it the genuine article. For reference to its being first-class, refer to the report of Henry F. Mitchell, 103 Market Street, Philadelphia, Pa. Trial base of 10 lbs. at \$1 per cwt. \$2.00. 24 cts. on at our rate. "Last with order." Herein no horse will be taken in exchange.

**FREY ASCHMANN,** 1010 St., PHILA., PA. When Writing Mention Florists' Exchange

W. F. Gale  
811 Market Street

**SAVE THE BLOOMS!**  
**NIKOTENE**  
DOES NOT INJURE SENSITIVE PLANTS USED FOR FUMIGATION OR SPRAYING, INDOORS OR OUT. 200 POUNDS TRAZZED IN ONE PUN AMMUNITION.  
Price \$1.50. ALL SEEDSMEN.

When Writing Mention Florists' Exchange

**KILL IT**  
**KENTUCKY EXTRACT OF TOBACCO.**  
It is the most powerful and most effective of all the plants  
It kills your BUGS  
It is SURE  
In ONE Fumigation. For free pamphlet write to  
The Kentucky Extract Co., Columbus, O.  
FOR SALE BY ALL GROCERS.

When Writing Mention Florists' Exchange

.. Elixir ..  
**Fertilizer**

It is a pure natural product and a most nutritious food for plants.  
We have in comparison with all other FERTILIZERS and gladly send you a FREE LIBERAL TRIAL TO PROVE IT.  
Send your address to  
Elixir Fertilizer Co., 707 W. 14th St., New York.  
When Writing Mention Florists' Exchange

# Stationery for Florists.

Every florist in the land should have a complete supply of printed matter with which to conduct his business in bedding style. We have the largest outfit in America devoted solely to horticultural printing, and we understand the wants of the trade. Below we quote two combination offers and would be pleased to supply you.

**\$5.00** Combination offer includes....

- 250 Noteheads, 5 1/2 x 8 1/2 ins.
- 250 Envelopes, size 5 1/2
- 250 Billheads, 7 1/2 ins. wide, 5 1/2 ins. deep.
- 250 Business Cards, 2 1/2 x 4 1/2 ins.
- 250 Tags, size 2 1/2 x 4 1/2 ins.

Cash with order. Delivered F. O. B., N. Y.

**\$10.00** Combination offer includes....

- 500 Noteheads, 5 1/2 x 8 1/2 ins.
- 500 Envelopes, size 5 1/2
- 500 Billheads, 7 1/2 ins. wide, 5 1/2 ins. deep.
- 500 Monthly Statements, 5 1/2 x 8 1/2 ins.
- 500 Business Cards, 2 1/2 x 4 1/2 ins.
- Lower tags, 2 1/2 x 4 1/2 ins.
- One Day Book. If these are not wanted one subject subtract \$1.00.

Cash with order. Delivered F. O. B., N. Y.

PLEASE READ THIS BEFORE YOU ORDER.

Write plainly and send "copy" for each article wanted.

Noteheads will be furnished in smooth writing paper with ruled lines. Linen paper, ruled or unruled, can be had indexed as so ordered.

Envelopes are full commercial size and of good quality.

Billheads will be furnished as above, but size 8 1/2 ins. wide and 4 1/2 ins. deep will be substituted when so ordered.

Cards are of good quality and ample proportion.

Day Book and Ledger are large enough for ordinary purposes. Ledger is indexed and will hold 300 accounts.

Special designs, trade marks, etc., engraved to order. A rose, violet, or other flower can be printed on your letterheads and billheads, plain or in color, to order.

The quality of all the above work is guaranteed.  
**A. T. DE LA MARE Ptg. & Pub. Co., Ltd.**  
P. O. Box 1097, New York.

# FLORISTS' EXCHANGE

We are a straight shoot and aim to grow into a vigorous plant.

A WEEKLY MEDIUM OF INTERCHANGE FOR FLORISTS, NURSERYMEN, SEEDSMEN AND THE TRADE IN GENERAL.

VOL. IX. No. 49.

NEW YORK, DECEMBER 4, 1897.

One Dollar Per Year.

## IN ORDER TO CLOSE OUT STOCKS REMAINING UNSOLD

We Offer the Following Bulbs at Greatly Reduced Prices.

### A BARGAIN IN VON SION NARCISSES.

We have an unusually fine lot of selected, ten-month bulbs—what the Dutch term *top profs*—regular price of which has been \$10.00 per 1000, but which in order to close out we will offer at only **\$15.00 per 1000**, or **Full case lots 2000 bulbs** at **\$4.50 per 1000**.  
 We offer also a fine lot of the following named **NARCISSES**, viz.:  
**True Irish Princeps and Trumpet Major**, \$5.00 per 1000; regular price, \$12.00  
**Alba Fleurs Odorata**, incomparable fl. pl., **Incomparable Stella**, and  
**Campernelle Jonquill**..... \$3.50 per 1000; regular price, \$8.00  
**Orange Phoenix**..... \$15.00 per 1000.

### A BARGAIN IN HYACINTHS.

We offer a fine lot of **MINIATURE HYACINTHS**, or **DUTCH ROMANS**.  
 They are generally sold, as they bloom evenly and at one time. These bulbs will be found very profitable, and their use is largely increasing. They are not only valuable for growing for cutting, but are also desirable for growing in pots, and can even be used for bedding purposes, and will give surprisingly good results—altogether out of proportion to their cost. No one can mix a mistake in using these largely. We supply these in about equal proportions of dark red, rose white, light and dark blue at only **\$9.00 per 1000**; regular price, \$12.00.  
**Pink Roman Hyacinths French**, extra quality bulbs, only **\$12.00 per 1000**; regular price, \$16.00.

### TULIPS.

We sold most of the Tulips offered last week very shortly after the advertisement appeared. We now offer as long as unsold, your pick of the following sorts:

- |   |                       |                            |
|---|-----------------------|----------------------------|
| At only <b>\$9.00 per 1000</b> , regular price, \$9.00, \$10, \$100, \$5.00 and \$2.00. | <b>La Reine</b>       | <b>Gloria Solis</b>        |
| <b>Arms of Leiden</b>   | <b>Fanny Red</b>      | <b>Bianc Forte Pourpre</b> |
| <b>Queen Victoria</b>   | <b>Lady Grandison</b> | <b>Rose Blanche</b>        |
| <b>Rosalie</b>  | <b>Titania</b>        | <b>Silver</b>              |
| <b>Elizabeth</b>  | <b>Bybloss</b>        | <b>Gesneriana</b>          |
| <b>Darwins</b>  | <b>Golden Crown</b>   |                            |
- The following sorts at only **\$9.00 per 1000**; regular price, \$12.00.  
**Potbaker White**..... **Chrysolora**..... **Rosamundi Huysman**  
**Potbaker Yellow**..... **Speak Quick If You Want Them**.....

**GLADIOLUS COLVILIA ALBA**, "The Bride," \$4.50 per 1000; regular price, \$6.00.  
**ALLIUM NEAPOLITANUM**, \$4.50 per 1000; regular price, \$6.00.

### A Fine Lot of SPIRÆA for Easter Forcing.

Case lots of **Spiræa Japonica**..... \$9.00 per case.  
**250 clumps**..... **Ashtholow Fierbunda**..... \$12.00 per case.  
 as follows:..... **Compacta Multiflora**..... \$15.00 per case.  
**CALLAS**, large bulbs, 1 to 1 1/2 in. in diameter, \$5.00 per 100; regular price, \$7.50.  
 Net 60 Days, on Less 5 Per Cent. Discount for Cash With Order.

**F. R. PIERSON CO., TARRYTOWN-ON-HUDSON, N. Y.**

## PALMER'S HOT BED MATS.

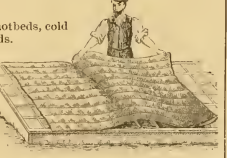
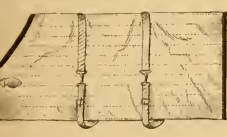
FROST PROOF.

MADE expressly for winter covering of hotbeds, cold frames, plants and seeds of all kinds.

Indestructible, Cheap and Warm

Will not harbor mice or vermin. Easy handling. Have now been in practical use three years. Costing less than half as much as old-fashioned straw mats and entirely taking their place.

Made in regular sizes, 76x76 inches and 76x10 inches, or any size desired sold by the running foot 76 inches wide.



WE ALSO MAKE QUILTED

## HORSE BLANKETS,

The Cheapest, Warmest and Strongest in the World,

WEIGHING 8 POUNDS.

## THE R. T. PALMER CO.,

Or New London, Conn. 113 North Street, New York.

When Writing Mention Florists' Exchange

## ROSE HILL NURSERIES.

THE LARGEST HORTICULTURAL ESTABLISHMENT IN AMERICA.

## OUR STOCK IS HOME GROWN. COOL GROWN.

... SPECIALTIES ...

- |                               |                                 |
|-------------------------------|---------------------------------|
| ARECA LUTESCENS . . . . .     | LIVISTONA ROTUNDFOLIA . . . . . |
| COCOS WEDDELIANA . . . . .    | PHENIX RUPICOLA . . . . .       |
| KENTIA BELMOREANA . . . . .   | PHENIX RECLINATA . . . . .      |
| KENTIA FORSTERIANA . . . . .  | PHENIX CANARIENSIS . . . . .    |
| LATANIA BORBONICA . . . . .   | DRACÆNAS (in variety) . . . . . |
| FICUS ELASTICA . . . . .      | ARAUCARIA EXCELSA . . . . .     |
| PANDANUS VEITCHII . . . . .   | FERNS FOR JARDINIÈRES . . . . . |
| FERNS, IN SPECIMENS . . . . . | TREE FERNS . . . . .            |

The Largest and Finest Collection of

## STOVE GREENHOUSE PLANTS.

If you need anything in the Fancy Line for Private Places, call and see us. Write, telegraph or telephone and our carriage will meet you.

## SIEBRECHT & SON, NEW ROCHELLE, N. Y.

NEW YORK OFFICE, 409 5TH AVE Telephone, 131 N.Y.  
 When Writing Mention Florists' Exchange

## INDICATIONS...

Point to a Scarcity of GOOD HOLLY

## Our XXX Brand is the Good Kind

and if you book order with us now we will make shipment when you say the word.

**EVERY CASE** re-inspected before it leaves our warehouse, and if quality is not right you don't get it. Per single case, \$5.00. **SPECIAL PRICE QUOTED FOR QUANTITIES.**

## BOUQUET GREEN

Write or wire for price on any quantity.

We can positively sell you this stock to advantage.

IMMORTELES,

CAPE FLOWERS,

RATAN,

And all Holiday Stock at Right Prices.

14 Barclay St., **VAUGHAN'S SEED STORE** 84 & 86 RANDOLPH ST., NEW YORK. CHICAGO.

When Writing Mention Florists' Exchange

# WATCH OUR SEASONABLE SUPPLIES



**Bouquet Green**, best quality, per 100 lbs., \$6 00  
**Holly**, best Maryland,..... per case, 6 00  
**Mistletoe**, English, case prices application  
**Cape Flowers**, strictly No. 1, per 100, 75c.  
**Immortelles**, White, Purple, feed,..... per doz. bunches, \$3 00  
**Yellow**..... per doz. bunches, 2 50  
**Stemmed Wire**, No. 21, 23, 25, 28, 1 15  
 No. 26; per lb., 26c.; per stone, 2 25  
**Tooth Picks**, No. 1..... per case, 5 00  
 No. 2; per doz., 50c.; per case, 3 00  
**Spiraea Japonica**, per 100 clumps, \$4.00; per 1000, 35 00  
**Spiraea Canadensis**, per 100 clumps, \$6.25; per 1000 clumps, 65 00  
**Lily of the Valley**, per 1000, \$10.00.  
 per case..... 24 00

**WILLIAM ELLIOTT & SONS, 54 and 56 Dey St., New York.**  
When Writing Mention Florists' Exchange

# LILY OF THE VALLEY

The finest in the market, \$12.50 per 1000. Fine, \$10.00 per 1000.  
**CHINESE SACRED LILIES**, 90 in a basket and 4 baskets to a bale,..... \$30.00 per 1000.  
**LILIUM HARRISII and LONGIFLORUM**, still a few left. *Rosae, Rhododendrons, Clematis*, etc., will be in this week.  
**F. W. O. SCHMITZ**, - - - - - **ROSSY CITY, N. J.**  
When Writing Mention Florists' Exchange

# GLADIOLUS

**FOR FORCING.**  
**SHAKESPEARE**, white,..... Per 1000, \$40 00; per 100, \$5 00  
**ISAAC HUCHANAN**, yellow,..... " 25 00; " 3 00  
**MONNETT**, pink,..... " 10 00; " 1 50  
**WHITE and LIGHT MIXED**,..... " 25 00; " 3 00

CASH WITH ORDER FROM UNKNOWN CORRESPONDENTS.  
**CHAS. H. ALLEN**,  
 FLORAL PARK, N. Y.  
 When Writing Mention Florists' Exchange

# DAHLIAS ARE THE RAGE!

No Catalogue Complete Without Them.  
**THE GRAND OLD FAVORITE**  
 "OUTCHRYSANTHEMUMS THE CHRYSANTHEMUMS."  
**WM. AGNEW**, intense red, 7 1/2 in. across. **CLIFFORD W. BRUTON**, purplish yellow, 6 1/2 in. across  
 36 1st PRIZES. **THREE DOZEN**, 36 1st PRIZES.  
 LARGEST and FINEST COLLECTION IN AMERICA.  
**300,000 FIELD ROOTS. 1000 VARIETIES.**  
 Cactus, Decorative, Show, Fancy, Pompan, Single. We make up catalogue collections of select prize-winning varieties. Write us in once for wants, prices, etc. **NOTE**—Our Dahlias have been exhibited in competition with all the leading growers and always carried off first honors.  
**W. P. PEACOCK, Atco, N. J.**  
 When Writing Mention Florists' Exchange



**DREER'S Mushroom Spawn**  
 New shipment for second crop planting just received, plant in December for Spring cutting which is the most profitable.  
 \$7.50 per 100 lbs.  
 70.00 per 1000 lbs.  
 250 lbs. or over at 1000 lb. rate.  
**HENRY A. DREER**,  
 714 Chestnut St., PHILADELPHIA.  
 When Writing Mention Florists' Exchange

**W. and D's "SURE CROP" MUSHROOM SPAWN**  
 HYGAINUS, TULIPS, HARCISUS, &c., &c.  
**SPECIAL PRICES TO CLEAR.**  
**WEBBER and DON**, Seed Merchants and Growers.  
 114 Chambers St., New York, N. Y.  
 When Writing Mention Florists' Exchange

**AMERICAN BULB COMPANY,**  
 Proprietors U. S. Exotic Nurseries.  
**WHOLESALE GROWERS and IMPORTERS.**  
**SPECIALTIES**—RELISH, P. L. M. S., PEIN, & ADD FLOWER SEEDS.  
*Special estimates on Horticultural Stock of all kinds direct or by mail on application.*  
**SHORT HILLS, NEW JERSEY.**  
 When Writing Mention Florists' Exchange

**Imperial Japanese....**  
**Morning Glory Seed**  
 GROWN BY  
**A. W. SMITH, AMERICUS, GA.**

Crop of 1897, now ready for delivery, is the product of selected seed from product of the best seed I could buy in 1896, paying \$42.00 per pound for same, and much more for others in packets. This seed is from blooms measuring 2 to 4 1/2 inches across, infinitely superior in every respect to product of seed bought in 1896.  
This seed will produce blooms single, semi-double, double, plain, quilled, frilled, crimped, scalloped, and slashed; embracing every hue and color, except yellow, including all shades of red, violet, darkest purple, blue from indigo through heavenly to electric, pink, chocolate, smoke, shrimp, and white in solid colors; as well as same colors mingled with white, and white spotted with blue, pink, smoke, chocolate, and purple; some blooms are one-fourth to one-eighth purple, pink or blue, with remainder white, and others have markings so freakish as to be indistinguishable; the whole embracing in size, beauty and variety nearly any catalogue. American or Japanese, and sending me to offer the best seed that money can buy. The blooms generally have throats differing in hue from body of bloom.

Price, per pound, \$6.00.  
...For large quantities write for quotations to...

**A. W. SMITH, (The Moon Flower Man)**  
**AMERICUS, GA.**

The largest grower in the world of these seeds, Smith's Hybrid Moon Flowers, *Ipomoea Selosa* and *Aethera Light*.  
When Writing Mention Florists' Exchange

**SEEDS**  
 KENTUCKY BLUE GRASS (*POA PRATENSIS*).  
**CHAS. E. PRUNTY**,  
 MAIN AND MARKET, SAINT LOUIS.  
 When Writing Mention Florists' Exchange

**BARGAINS IN BULBS**  
 Hyacinths, Per 1000  
 Roman, 11-12 cts. 21 00  
 12-16 " 25 00  
 Single Dutch heading, separate colors forcing, 20 00  
 " Named forcing, in sorts, 20 size 1st, 45 00  
 Lillium Longiflorum, Japan, 6-8 in. 18 00  
 Trumpet Princeps, 7-9 " 35 00  
 Narcissus Trumpet Von Slon, 9 00  
 Trumpet Princeps, 7 00  
**CASH WITH ORDER.**

**HULSEBROS BROS., Englewood, N. J.**  
 When Writing Mention Florists' Exchange

**CLUGAS & BODDINGTON CO.,**  
 Importers, Exporters and Growers Agents of  
**Plants, Seeds and Bulbs,**  
 501 and 503 W. 13th St.,  
 Telephone Call, 403 15th St., NEW YORK CITY.  
 When Writing Mention Florists' Exchange

**SEEDS**  
 FRESH ON HAND  
 Coco Weddellians, 300 1000 3000  
 100 2000 100 2000 100 2000  
 Mus Encke..... 125 10 00 75 00  
**J. L. SCHILLER, 404 E. 34th St., NEW YORK.**  
 When Writing Mention Florists' Exchange

**DAHLIAS!**  
 True Berlin and Hamburg Pips. At quality, and very evenly assorted, at import prices, in case late only  
**J. L. SCHILLER, 404 E. 34th St., New York.**  
 Sole Agent for F. C. Pommerene, Hamburg.  
 When Writing Mention Florists' Exchange

**40,000 DAHLIAS**  
 Whole field-grown roots in 80 best sorts, labeled, true. Price, \$3.50 to \$12.00 per 100; \$30.00 to \$50.00 per 1000.  
 Our price list of Dahlias, rooted cuttings of German Variations, including *Adonis*, *Red and flowering*, *Begonia*, *Colonia*, *Spiraea*, etc., and *Geranium* *Henry* *Pink*, will be mailed on address upon application.  
**PANDANUS UTILIS**, strong plants 5/8 in. tall, \$5.00 per 100; 4 in. roots, \$2.00 per 100.  
**SPECIMEN RUBBER PLANTS**, 2 1/2 in. high, \$4.00 per doz.  
**ASPARGUS SPRENGERI**, specimens in 5 in. pots, \$2.00 per doz.  
 Satisfaction guaranteed.  
**A. B. DAVIS & SON, Purcellville, Va.**  
 When Writing Mention Florists' Exchange

**BURPEE'S SEEDS**  
 PHILADELPHIA  
 WHOLESALE PRICE LIST FOR FLORISTS AND MARKET GARDENERS  
 When Writing Mention Florists' Exchange

**COSMOS**  
 GIANT FLOWERS, EARLY BLOOMING.  
 Six specimens in 1000 seeds, in case New California Mixed, 75 cts. per 1000. New California Mixed, 75 cts. per 1000. New California Mixed, 75 cts. per 1000. New California Mixed, 75 cts. per 1000. New California Mixed, 75 cts. per 1000.  
**MRS. THEODORE E. SHEPHERD**  
 Ventura-by-the-Sea, Cal.  
 When Writing Mention Florists' Exchange

SEED TRADE REPORT

Points and information from seedsmen, and all other matters connected with the Seed Trade. Editor SEED TRADE, care of FLORISTS' EXCHANGE, P. O. Box 1067, New York.

AMERICAN SEED TRADE ASSOCIATION. President: E. B. CLARK, Milford, Conn., Vice-President: S. F. WILLARD, Waterbury, Conn., Secretary and Treasurer.

New York.—Mr. Eug. Schachtel, the representative of Messrs. Florindriandrieux & Co., Paris, who has been visiting his firm in the United States, returned here during the last month, returning home on S. S. La Montagne, sailing December 11th.

Buffalo, N. Y.—The Whitney-Nees Seed Company will move from Binghamton, N. Y., to this city. The directors of the company recognize the superior facilities of this city for the handling and distribution of their goods. The first move for the company is one of the leading grass seed houses in the country.

It is the intention of the company to retain in Binghamton, N. Y., a small warehouse, so that the trade of a local nature may continue to go on as can be cared for.

European Notes

An Open Season. The middle of November finds us with flowers in abundance from the south and west, our gardens still gay with many hardy annuals and biennials in the north. Among the latter the single annual white-flowered gladiolus, both seen in the open near the end of July, are the most conspicuous. The flowers of the single annual white-flowered gladiolus are the most conspicuous of the numerous recent introductions and its merits have just been somewhat tardily recognized by the Royal Horticultural Society.

Crop Reports.

In the work of filling our orders the short crop of radish is already somewhat embarrassing, and if our home trade comes up to its usual dimensions we shall be obliged to go abroad. On the other hand, peas are much too plentiful and move off very slowly. Some of the best of the season will remain on hand to bear the market, while no more than four or five varieties are reported as under the average yield.

Radish in France and England has yielded fully good crops, but the German crop is short. There are a heavy amount from '96 in the hands of some dealers anxious to realize, hence the prices fall below a remunerative level.

Beans are turning out even worse than they were last reported, and the lucky grower who does the prevailing market for sacrifice prices does not affect their prices.

Peas are cleaning up badly and show a lot of waste; fortunately there is no prospect to spoil the value of the crop.

The Bull Trade.

The bull trade is exceptionally bright at the present time, but scarcely one of them is of a sufficiently striking character as to arouse any great amount of competition. The following are a few of the most generally useful: Aster, Triumph, white, valuable for winter bedding. Aster, Johannahting, (Midsummer day) the earliest of all the varieties in bulk, suitable for carpet bedding. Aster, Princess, dark crimson, a lovely and useful addition to this most perfect line.

Amaranthus quadri-color, the colors ranging from the darkest red to a pale, yellow, bright and deep, and almost black-green.

Campanula grandiflora alba, a very brilliant greenhouse plant for winter bedding, bearing pure white flowers; Campanula grandiflora rosea, (Queen) one of the best varieties of the year.

Balsam, Camphor, "alba perfoliata." It will be remembered that this is the first of such variety has been seen up to the present time.

Begonia, Golden Vernon, has the golden-yellow foliage of B. Bijou, but each leaf is marked with a wide dark red band, suitable for borders.

Begonia, Zulu King (Large Silver King) has the most striking foliage of B. Verona. When planted out during the summer, the whole plant changes to a brilliant red, and with their golden-yellow stems form a striking contrast to the extensive green foliage.

Campanula mirabilis is a perfect wonder. It belongs to the class of C. medium, but is much more than that. It flowers in large pyramidal bush about two feet in diameter, completely covered with flowers of a pale blue color. It is a wonderful flower, and one of the best that can be said in its favor, and that it resembles the aegretum.

Cyclamen, Bush Hill Pioneer, is a pure white variety with a distinct crest or feather of the same color on the face of each petal.

Cyclamen, Pappilo, a distinct strain very beautifully fringed. Three varieties are now offered, of which the one named Ombus is the most valuable. An extended notice of this strain appeared in the Florists' Exchange during February last.

Gloxinas are represented by two new ones not offered, of which the one named Gloxinia is the most valuable. An extended notice of this strain appeared in the Florists' Exchange during February last.

Gloxinia are represented by two new ones not offered, of which the one named Gloxinia is the most valuable. An extended notice of this strain appeared in the Florists' Exchange during February last.

Gloxinia are represented by two new ones not offered, of which the one named Gloxinia is the most valuable. An extended notice of this strain appeared in the Florists' Exchange during February last.

Gloxinia are represented by two new ones not offered, of which the one named Gloxinia is the most valuable. An extended notice of this strain appeared in the Florists' Exchange during February last.

Gloxinia are represented by two new ones not offered, of which the one named Gloxinia is the most valuable. An extended notice of this strain appeared in the Florists' Exchange during February last.

Gloxinia are represented by two new ones not offered, of which the one named Gloxinia is the most valuable. An extended notice of this strain appeared in the Florists' Exchange during February last.

Gloxinia are represented by two new ones not offered, of which the one named Gloxinia is the most valuable. An extended notice of this strain appeared in the Florists' Exchange during February last.

Gloxinia are represented by two new ones not offered, of which the one named Gloxinia is the most valuable. An extended notice of this strain appeared in the Florists' Exchange during February last.

Gloxinia are represented by two new ones not offered, of which the one named Gloxinia is the most valuable. An extended notice of this strain appeared in the Florists' Exchange during February last.

Gloxinia are represented by two new ones not offered, of which the one named Gloxinia is the most valuable. An extended notice of this strain appeared in the Florists' Exchange during February last.

Gloxinia are represented by two new ones not offered, of which the one named Gloxinia is the most valuable. An extended notice of this strain appeared in the Florists' Exchange during February last.

Gloxinia are represented by two new ones not offered, of which the one named Gloxinia is the most valuable. An extended notice of this strain appeared in the Florists' Exchange during February last.

The report states that the satisfactory result of the trial grounds maintained at Kenilworth, New Jersey, has given us the opportunity to give the public a glimpse of what nothing could more enhance the value of the department's seed distribution than a trial ground test of the seeds. It is proposed to distribute. The command by the department of a trial ground test of the seeds is given to the agricultural science, lending, as it necessarily would, to a scientific study of field crops. The department would be enabled, as it should, to record of all the new plants distributed in this manner, not only of the sample of the seed, but also an authoritative specimen of the plant itself, grown in the trial ground and suitably preserved for future reference.

After the transfer of the national herbarium to the National Museum building, the importance of creating at the department a reference herbarium of economic plants began to be appreciated. During the past year the beginning of such a collection has been made by preserving a full series of best specimens of all varieties of peas and beans, grown on the trial grounds, besides a large number of seedlings of various other plants, and many drawn from greenhouse germination tests, a series of weeds collected in the vicinity of the trial grounds, and other correspondents, and a series of poisonous and medicinal plants obtained in the same manner.

The division of botany assumed the task of making germination and purity tests of all seeds distributed by the department under the specific appropriation for that purpose. All seeds falling below a standard of vitality were rejected, and the remainder were tested under various conditions, so as to determine any possible causes for the correctness of the result. It was necessary to make over 5,000 tests, in order to secure a sufficient number of thousands of varieties of vegetable seeds, and about 100 varieties of flower seeds. The report states that the system of purchasing the seeds, so as to secure all of one variety in one lot, and the cost of testing would be much reduced.

THE EXPERIMENT STATIONS.

NOTES ON PEASING. Bulletin No. 56, Nebraska Agricultural Station, Lincoln, Neb. FERTILIZERS FOR PEAS. Bulletin No. 58, Maine Agricultural Experiment Station. REPORT OF ENTOMOLOGISTS. Bulletin 48, Louisiana Agricultural Experiment Station, Baton Rouge, La.

CATALOGUES RECEIVED.

RYOBEI PEAR ET PILON, LYON, FRANCE.—List of novelties in seeds. ROBERT KROEGER, Hamburg, Elbeck.—Catalogue of seeds and plants. HAAGE & SCHMIDT, Erfurt, Germany.—List of novelties in seeds. W. W. BARNARD & CO., Chicago.—Catalogue of material suitable for Christmas decorations. F. J. BOWLING, Buffalo, N. Y.—Catalogue of flower and other seeds, etc. W. H. SALTER, Rochester, N. Y.—Price List of Fertilizers, with full instructions as to care of "The Window Garden."

GAPE JESSAMINES! GERMANIA FLORIDA.

Strong and stocky, 5 to 10 in., \$3.00 per 100; \$5.00 per 500; 10 to 12 in., \$4.00 per 100. JOHN MONKHOUSE, Caddo Nurseries, JEWELL, La. When Writing Mention Florists' Exchange

LETUCE PLANTS.

Plants transplanted, trans. Grand Rapids Lettuce Plant Nursery, Grand Rapids, Mich. A. J. BALDWIN, Newark, O. When Writing Mention Florists' Exchange

2 YEAR HYBRID PERPETUAL ROSES

Warranted to be the best, strong, dark green plants at \$6. CLEMATIS VIRGINIANA. Best American climber, small white flower, 2 years old, \$1.00 per 100. CLEMATIS VIRGINIANA. Best American climber, small white flower, 2 years old, \$1.00 per 100. W. H. SALTER, Rochester, N. Y. When Writing Mention Florists' Exchange

LETUCE PLANTS.

Plants transplanted, trans. Grand Rapids Lettuce Plant Nursery, Grand Rapids, Mich. A. J. BALDWIN, Newark, O. When Writing Mention Florists' Exchange

LETUCE PLANTS.

Plants transplanted, trans. Grand Rapids Lettuce Plant Nursery, Grand Rapids, Mich. A. J. BALDWIN, Newark, O. When Writing Mention Florists' Exchange

PRIVATELY

California Privet. Amelops Velthuis. Field-grown. Prices on application.

THE ELIZABETH NURSEY CO., Elizabeth, N. J. When Writing Mention Florists' Exchange

LETUCE PLANTS.

Big Boston, Boston Market, Tennis Ball, White Leaf, Grand Rapids and Brothert's Fortingale, 15c per 100; \$1.00 per 1000. When Writing Mention Florists' Exchange

Cash with order. R. VINGET JR. & SON, White Marsh, Md. When Writing Mention Florists' Exchange

CALIFORNIA PRIVET

Good two-year old plants, well branched, 2 1/2 to 30 inches, \$5.00 per 100; \$20.00 per 1000. In 24 inches, \$10.00 per 100; \$40.00 per 1000. Stock cleared as represented. If you want seed 25 cents, which will be credited on account if plants are ordered. Address CHAS. BLACK, Hightstown, N. J. When Writing Mention Florists' Exchange

SEEDLINGS AND GIONS.

of Apple, Cherry, Pear and Plum. APPLE CRAFTS. Low Prices. Send List of Want to D. S. LAKE, Shenandoah, Iowa. When Writing Mention Florists' Exchange

JACKSON & PERKINS CO.

JACKSON & PERKINS CO. JEFFERSON, N. Y. Have to offer for season of 1897-98, a choice assortment of Field-grown Roses, new and old varieties Clematis, Ornamentals, and Small Fruit Plants.

WRITE FOR PRICE LIST.

When Writing Mention Florists' Exchange

LARGE-FLOWERING

Strong, one year field-grown plants, of all the leading varieties, at \$15.00 per 100. GEORGE BROS., East Penfield, N. Y. When Writing Mention Florists' Exchange

PEACH AND PLUM TREES

Reliable and clean stock at low prices. Rates. All desirable fruit trees of the varieties of PEACHES, and new in fruiting orchards. Have the new variety of Peach, the new variety of Plum. Buds can be fruited in season at low rates.

When Writing Mention Florists' Exchange

PEACH AND PLUM TREES

Reliable and clean stock at low prices. Rates. All desirable fruit trees of the varieties of PEACHES, and new in fruiting orchards. Have the new variety of Peach, the new variety of Plum. Buds can be fruited in season at low rates.

When Writing Mention Florists' Exchange

PEACH AND PLUM TREES

Reliable and clean stock at low prices. Rates. All desirable fruit trees of the varieties of PEACHES, and new in fruiting orchards. Have the new variety of Peach, the new variety of Plum. Buds can be fruited in season at low rates.

PEACH AND PLUM TREES

Reliable and clean stock at low prices. Rates. All desirable fruit trees of the varieties of PEACHES, and new in fruiting orchards. Have the new variety of Peach, the new variety of Plum. Buds can be fruited in season at low rates.

PEACH AND PLUM TREES

Reliable and clean stock at low prices. Rates. All desirable fruit trees of the varieties of PEACHES, and new in fruiting orchards. Have the new variety of Peach, the new variety of Plum. Buds can be fruited in season at low rates.

PEACH AND PLUM TREES

Reliable and clean stock at low prices. Rates. All desirable fruit trees of the varieties of PEACHES, and new in fruiting orchards. Have the new variety of Peach, the new variety of Plum. Buds can be fruited in season at low rates.

PEACH AND PLUM TREES

Reliable and clean stock at low prices. Rates. All desirable fruit trees of the varieties of PEACHES, and new in fruiting orchards. Have the new variety of Peach, the new variety of Plum. Buds can be fruited in season at low rates.

OUR NEW CANNA ROSEMAWR

THE CONARD & JONES SEED GROVE, P. A. When Writing Mention Florists' Exchange

CHICAGO FLOWER SHOW.

Premiums Awarded. CUT CHRYSANTHEMUMS.

Forty blooms, one variety, white—First, W. N. Rudd; second, N. Smith & Son; third, C. Vaughan.

Six blooms, one variety, yellow—First, W. N. Rudd; second, F. D. B. G. Hill & Co.;

Six blooms, one variety, white—First, H. J. & J. C. Vaughan; second, N. Smith & Son;

Twenty varieties, one bloom each—First, W. N. Rudd; second, N. Smith & Son;

Six blooms, one variety, yellow—First, W. N. Rudd; second, E. G. Hill & Co.;

Six blooms, one variety, white—First, H. J. & J. C. Vaughan; second, N. Smith & Son;

Best collection cut orchid blooms—First, H. S. Kildgaard, gardener for E. G. Uhllein, Esq.

PLANTS—CHRYSANTHEMUMS. Specimen plant, white—First, W. N. Rudd; second, Martin A. Ryerson.

Specimen plant, yellow—First, Martin A. Ryerson; second, W. N. Rudd.

Specimen plant, pink—First, Martin A. Ryerson; second, W. N. Rudd.

Specimen plant, white—First, Martin A. Ryerson; second, W. N. Rudd.

Specimen plant, yellow—First, Martin A. Ryerson; second, W. N. Rudd.

Specimen plant, pink—First, Martin A. Ryerson; second, W. N. Rudd.

Specimen plant, white—First, Martin A. Ryerson; second, W. N. Rudd.

Specimen plant, yellow—First, Martin A. Ryerson; second, W. N. Rudd.

Specimen plant, pink—First, Martin A. Ryerson; second, W. N. Rudd.

Specimen plant, white—First, Martin A. Ryerson; second, W. N. Rudd.

Specimen plant, yellow—First, Martin A. Ryerson; second, W. N. Rudd.

Specimen plant, pink—First, Martin A. Ryerson; second, W. N. Rudd.

Specimen plant, white—First, Martin A. Ryerson; second, W. N. Rudd.

Specimen plant, yellow—First, Martin A. Ryerson; second, W. N. Rudd.

Specimen plant, pink—First, Martin A. Ryerson; second, W. N. Rudd.

Specimen plant, white—First, Martin A. Ryerson; second, W. N. Rudd.

Ten foliage plants, six varieties—First, H. S. Kildgaard.

Best arrangement—First, Martin A. Ryerson; second, Art Floral Company.

Best decorative plant other than second and third—First, J. C. Vaughan; second, H. F. Halle, Chicago.

Best arrangement of pots—First, J. C. Vaughan; second, George Wittbold.

Best arrangement of pots—First, J. C. Vaughan; second, George Wittbold.

Best arrangement of pots—First, J. C. Vaughan; second, George Wittbold.

Best arrangement of pots—First, J. C. Vaughan; second, George Wittbold.

Best arrangement of pots—First, J. C. Vaughan; second, George Wittbold.

Best arrangement of pots—First, J. C. Vaughan; second, George Wittbold.

Best arrangement of pots—First, J. C. Vaughan; second, George Wittbold.

Best arrangement of pots—First, J. C. Vaughan; second, George Wittbold.

Best arrangement of pots—First, J. C. Vaughan; second, George Wittbold.

Best arrangement of pots—First, J. C. Vaughan; second, George Wittbold.

Best arrangement of pots—First, J. C. Vaughan; second, George Wittbold.

Best arrangement of pots—First, J. C. Vaughan; second, George Wittbold.

Best arrangement of pots—First, J. C. Vaughan; second, George Wittbold.

Best arrangement of pots—First, J. C. Vaughan; second, George Wittbold.

Best arrangement of pots—First, J. C. Vaughan; second, George Wittbold.

Best arrangement of pots—First, J. C. Vaughan; second, George Wittbold.

Best arrangement of pots—First, J. C. Vaughan; second, George Wittbold.

Best arrangement of pots—First, J. C. Vaughan; second, George Wittbold.

Best arrangement of pots—First, J. C. Vaughan; second, George Wittbold.

Best arrangement of pots—First, J. C. Vaughan; second, George Wittbold.

Best arrangement of pots—First, J. C. Vaughan; second, George Wittbold.

Best arrangement of pots—First, J. C. Vaughan; second, George Wittbold.

ORDER NOW FOR... CRISTMAS CELEBRATION.

Best English Mistletoe, Fine Delaware Holly, cases 16 cubic feet, Lycopodium in crates, 100 lbs., Laurel and Hemlock Roping, Wreaths, etc.

FOR PRICES, ADDRESS C. H. JOESTEN, 193 Greenwich St., N. Y.

When Writing Mention Florists' Exchange

ASPARAGUS PLUMOSUS NANUS. W. H. ELLIOTT, Brighton, Mass.

PRIMROSES FOR XMAS! Thrifty large bud colors, from 3/4 and 1/4 pots, in bud and bloom, at \$5.00 per 100.

MRS. M. CAVANAUGH, Millers Corers, N. Y. When Writing Mention Florists' Exchange

Neprolepis Davidioides ... Furcans ...

6 in. panos, extra line, bushy, 50c and 60c. Neprolepis Sastoniaensis, 3/4 in. fine salable buds, 25c per 100.

Seignolia Emilia, 3/4 in. at 5c. Neprolepis Furcans, extra fine panos, 10 in., at \$1.25 and \$1.50 each.

ORANGES FOR XMAS! Florida, extra large, 75c per 100. R. G. HANFORD, Newark, Conn.

FOR XMAS TRADE

Litsea Borcheota, from 7 in. pot, 4 ft. high, \$2.00 each; 5 in. pot, \$1.50 each; 6 in. pot, \$2.00 each.

FEANS. Neprolepis D. Furcans, excellent plants, from 5 in. pot, \$2.00 each; 6 in. pot, \$2.50 each.

ORANGE TREES. From 5 in. pot, \$1.00 each; 6 in. pot, \$1.50 each; 7 in. pot, \$2.00 each.

ORANGE TREES. From 5 in. pot, \$1.00 each; 6 in. pot, \$1.50 each; 7 in. pot, \$2.00 each.

ORANGE TREES. From 5 in. pot, \$1.00 each; 6 in. pot, \$1.50 each; 7 in. pot, \$2.00 each.

ASPARAGUS ROOTS FOR FORGING.

FOR FORGING. A large stock of American Roots, 3 and 4 years' root, preserved long for forging.

ALEXANDER PULLEN, Milford, Del. When Writing Mention Florists' Exchange

Cut String, 8 to 10 foot long 30 cts. each. Shipped to any part of the country.

Brighton, Mass. When Writing Mention Florists' Exchange

Best Selected, Full of Berries, Good Foliage. \$3.00 Per Case, Full of 16 CUBIC FEET.

Well packed in light boxes. Cheap freight rates. Cash with order.

H. A. PENNOCK, GOLDSBORO, N. C. When Writing Mention Florists' Exchange

Stationery for Florists.

Every florist in the land should have a complete supply of printed matter with which to conduct his business in befitting style.

\$5.00 = Combination offer includes...

250 Noteheds, 5x8 1/2 in. 500 Envelopes, size #5. 250 Billheads, 7 1/2 in. wide, 5 1/2 in. deep.

250 Business Cards, 3x5 1/2 in. 750 Labels, size 5 1/2 x 4 1/2 in. One Ledger, 6 1/2 x 11 in. Cash with order. Delivered F. O. B., N. Y.

\$10.00 = Combination offer includes...

500 Noteheds, 5 1/2 x 8 1/2 in. 500 Envelopes, size #5. 500 Billheads, 7 1/2 in. wide, 5 1/2 in. deep.

250 Monthly Statements, 5 1/2 x 8 1/2 in. 250 Cards, 3 1/2 x 5 1/2 in. 500 Tags, 2 1/2 x 3 1/2 in. One Day Book. If these are not wanted. One Ledger, 6 1/2 x 11 in. Cash with order. Delivered F. O. B., N. Y.

LEASE READ THIS BEFORE YOU ORDER. Write plainly and send "copy" for each order.

Noteheds will be furnished in smooth writing paper with ruled lines. Linen paper, ruled or unruled, can be had instead if so ordered.

Envelopes are full commercial size and of good quality. Billheads will be furnished as above, but size 8 1/2 in. wide and 4 1/2 in. deep will be substituted when so ordered.

Cards are of good quality and ample proportions. Day Book and Ledger are large enough for ordinary purposes. Ledger is indexed and will hold 300 accounts.

Special designs, trade marks, etc., engraved to order. A rose, violet, or other flower can be printed on your letterheads and billheads, plain or in color, to order. The quality of all the above work is guaranteed.

A. T. DELA MARE PTO. & PUB. CO., Ltd. P. O. Box 1697, New York.

# HOLLY—MISTLETOE

When Writing Mention Florists' Exchange

**BOUQUET GREENS, WILD SMILAX, IMMORTELLES, CAPE FLOWERS, MOSS WREATHS, METAL DESIGNS.**  
Send for HOLIDAY PRICE LIST just issued.

**STUMPP & WALTER CO.,**  
Formerly with F. E. McALLISTER CO., 50 BARCLAY ST., New York.

## Galax Leaves.

CHAS. H. RICKSECKER, Linville, N. C.  
When Writing Mention Florists' Exchange

## HOLLY

Well berried, green; can cut either long or short branches to order. Prices are advanced, write at once for them. Also, Evergreens, Cedar, Fench trees, Strawberry plants, Appazagus, Apple trees. Write for Catalogue.

HARRISON'S NURSERY, Berlin, Md.  
When Writing Mention Florists' Exchange

### HOLLY AND BOUQUET GREEN.

Don't delay. Give us your order now as these special prices will last only a short time. Holly, \$3.00 case. Choice Holly, \$3.00 case. Bouquet Green, \$3.00 per 100. Spaghnum Moss, 50c. per 100. Green Clump Moss, 75c. per 100. Holly Wreath, Bouquet Green, and Laurel Keping, made at lowest price. Cash with order.

A. LUSBY & CO., 2552 N. 18th St., Phila., Pa.  
When Writing Mention Florists' Exchange

## HOLLY.

The best that can be cut. "No rusty foliage." Order now and will cut to order. Per case, 10 cubic feet, \$3.00. Cash with order.

WYLLIS S. CLARK,

613 12th St., N. W., WASHINGTON, D. C.  
When Writing Mention Florists' Exchange

## HARDY FERNS

WARRANTED FIRST QUALITY.

SPECIAL ATTENTION PAID TO SUPPLYING WHOLESALE DEALERS.



FANCY.

DAOGER.

— ALSO DEALER IN —

Write for Prices.

**BOUQUET GREEN, SPHAGNUM MOSS, CHRISTMAS TREES, Etc., Etc., Etc.**

L. B. BRAGUE, - - - HINSDALE, MASS.

OLDEST, LARGEST, AND MOST RELIABLE DEALER IN THE UNITED STATES

When Writing Mention Florists' Exchange

PLACE HOLIDAY ORDERS FOR KELSEY'S BRILLIANT GREEN AND BRONZE GALAX LEAVES and LEUCOTHOE SPRAYS

NOW and avoid the coming rush. FINEST LEAVES and PACKING.

### PRICES

**GALAX**, large or small, either color, per 1000, \$1.01; 5000 lots at 75 cts. per 1000.

**LEUCOTHOE SPRAYS**, per 100, 75 cts.; per 500, \$6.00.

Wholesaler Supplied at Very Special Rates. In packing Original Assorted (see: for Florists, as follows:

**CASE A—5000 Galax**, assorted sizes and colors, for \$3.75.

**CASE B—same as case A— and 200 Leucothoe Sprays** additional for \$5.00.

**CASE C—10,000 Galax**, assorted sizes and colors, \$7.50.

**TERMS CASH.** Shipment from Boston or North Carolina. Give explicit shipping directions, otherwise I use best judgment. Telegraph orders save time. Order one or more cases as above; or in very large cases. Galax by thousands, either color or size, Leucothoe Sprays by hundreds or thousands. Samples sent full information free. Address all communications **HARLEY P. KELSEY, 110 Tremont Building, BOSTON, MASS.** to the Introducer....

When Writing Mention Florists' Exchange

**HOLLY** Cheap for Cash. Fresh from the woods and well berried. \$1.50 per case of 10 cubic feet; three cases for \$5.00. Strong plants of Double Leafed, Sweet Olive from 50c. to 1.00 per 100. **J. PALMER GORDON, Florist, Ashland, Virginia.**



Forchibers of Evergreen, Hardy Cut Flora, Laurel and Princess Pine Festooning, Mosses, Wreaths of all kinds. Lowest Prices. Always for First Quality Goods. Write for prices on all goods enclosed. 27 Beacon St., Boston, Mass. Home Office, Millington, Tenn.

## HEADQUARTERS

...OF...

## PAMPAS PLUMES

### CALIFORNIA

Tree and shrub seeds, Smilax, Cobaea, Grevillea robusta,

### PALM SEEDS, Etc.

Ask for Special Prices.

**GERMAIN FRUIT CO., LOS ANGELES CAL.**  
When Writing Mention Florists' Exchange

# DO YOU EVER THINK?

Doubtless you do, but did it ever occur to you how small this old world is when measured by Telegraph or Railroad time?

Do you know that **Caldwell's Christmas Greens** are only 40 hours from Boston, Buffalo, St. Paul or Minneapolis? 30 hours from New York or Chicago?

We can reach you in 24 hours if you are in Washington or St. Louis, and only two or three hours more if in Baltimore or Philadelphia.

Indite us a message some morning, noon or night, and the wires have hardly coiled before the goods are at your door—fresh from the woods, glossy and green, and the dew yet sparkling on each spray.

**"Speed Our Specialty."**

**"Always On Time."**



MANTEL DECORATION.

## Now Think!

Does it pay you to handle Holly that is fresh? We can give it to you gathered only a few hours before you need it. It comes to your door all charges paid.

Do you get Mistletoe that is dry and wrinkled from age? Well, you ought to see ours! Like our Holly it is fresh. Berries white as snow.

We have Smilax, Ilex Cassinia, Magnolia Foliage, Palm Leaves, Palm Crowns, and Long Needle Pines all the same way.

Did you ever use **Caldwell's Greens**? If so, you know them, if not you need them. It pays to use the best. We have it in our line. "A little higher in price, but..."

Plenty of time yet to get our handsome pamphlet, "Southern Evergreens." It comes for the asking.

of FIVE DOLLARS to the man who will sit on a bunch of our "smooth-leaved" Southern Holly" and stay there, is still open to all comers.

## NOTE OUR OFFER

# CALDWELL THE WOODSMAN COMPANY, EVERGREEN, ALABAMA

When Writing Mention Florists' Exchange

Dreer's Special Offer



AZALEAS

The Quality this season is fully equal to what we have sent out for several seasons past, which has given universal satisfaction...

The Tariff which has been increased to 25 per cent. on this class of stock will not affect the price, as we have been successful in making such arrangements with our Belgian growers...

The Varieties we offer are such only as are known to us as the best suited to the American market, and all are bushy, well shaped plants, well set with buds.

These will be supplied at the following prices until December 30th, at which time stock will be put up and prices will advance:

- 10 to 12 inch crowns, bushy and well set, \$35.00 per 100
10 to 12 " " " extra heavy " 40.00 "
13 to 15 " " " " 60.00 "
13 to 15 " " " " extra heavy " 45.00 "
Specimen Plants, 18 to 24 inches in diameter, \$24.00, \$30.00 and \$36.00 per doz.

HENRY A. DREER, 714 Chestnut Street, PHILADELPHIA. When Writing Mention Florists' Exchange

LAST... OFFER OF AZALEA INDICA

In the best market varieties. Only a few of each now left in stock. 10-12 in. diameter, \$30.00 per 100; 12-14 in. diameter, \$42.50 per 100; 13-15 in. diameter, \$50 per 100.

Spiraea Japonica, \$3.50 per 100. Spiraea Multiflora Compacta, \$5.00 per 100.

SPIRAEA ASTILBOIDES FLORIBUNDA, \$5.00 per 100.

L. C. BOBBINK, - RUTHERFORD, N. J. Branch of The Horticultural Company, Boskoop, Holland. When Writing Mention Florists' Exchange

AZALEA INDICA.

10 to 12 inch crowns... \$38.00 per 100
13 to 15 " " " " 60.00 "
13 to 15 " " " " 50.00 "
Order these early and have them shipped by fast freight, saving heavy express charges.

ASPARAGUS PLUMOSA. FERNES. In fine assortment, 2 1/2 in. pot plants, \$4 per 100; \$35 per 1000.

FIGUS ELASTICA. Crimson Rambler, \$15 per 100; strong two year plants, 3 to 10 shoots, 3 to 5 feet long. This rose flowers readily and makes splendid specimens for Easter sales. Common varieties Climbing Roses, strong two year plants, \$6 per 100.

ARACARIA EXCELSA. Excellent plants in fine condition.

10 to 12 inches high... \$12.00 per doz.
12 to 15 " " " " 15.00 "
15 to 18 " " " " 18.00 "

PALMS.

A large stock in fine shape, of Kentia Belouencana and Forsteriana, Arca Interpres and Lantanias. See Special Florists' Trade List No. 5, for sizes and prices.

HYDRANGEAS.

Hortensis and Thomas Hogg, 4 in. pot plants, \$6 per 100.

HERBACEOUS PÆONIAS.

Large stock in choice varieties. Also a choice assortment of other hardy perennial plants.

THE STORRS & HARRISON CO. Painsville, O. When Writing Mention Florists' Exchange

LOOK HERE

The following plants are in Al condition.
Asparagus Plumosa Nanae, true climbing... \$1.00 per 100
Adiantum Capnifolium, 2 inch, \$3.00 per 100; \$24 inch, \$4.00 per 100.
Mixed Ferns for ferneries, \$3.00 per 100.
2 1/2 in. Hartmannia, strong, 2 inch pots, \$25.00 per 100; same rate for 2 1/2.
TRENS CASI OR C. O. D.

C. MERKEL & SON, Mentor, Ohio. When Writing Mention Florists' Exchange

ASPARAGUS SPRENGERI

Five stock, 2 1/2 inch pots, at \$7.00 per 100; 3 1/2 inch \$12.00; 4 inch, \$16.00. Seed, \$1.00 per 100; \$12 per 1000.
NEW CANAS of our own introduction Philadelphia, \$3.00 per 100; 2 1/2 inch of New Brunswick, pink Duke of Marlborough, darkest. Klondike, pure orange with silver list, 2 1/2 inch, largest of all. Copse, pale yellow. And others. Send for Price List of above and all other popular Canas.

Dabbling. All the latest novelties at lowest prices. Balise. Fine assortment. Seed for reduced list.

A. BLANC & CO. Philadelphia, Pa. When Writing Mention Florists' Exchange

AZALEA INDICA In all varieties.

We have three 20x100 ft. houses devoted exclusively to Azaleas; give us a trial order, we will please you.
1 1/2 inch crowns,..... \$3.00 per doz.
1 3/4 inch "..... 4.00 "
10 to 12 "..... 5.00 "
13 to 15 "..... 5.50 "

Write for prices on larger quantities. All the above plants are full of bud.

WHITTON & SONS. Wholesale Florists, City and Green St., Ulica, N. Y. When Writing Mention Florists' Exchange

SPECIAL OFFER OF A LIMITED NUMBER OF THE FOLLOWING VARIETIES OF PALMS

at very low prices to make room. They are good, strong plants.
ARIZONIA SPINOSA, 8 inch pots, 75 to 100 stems high, 3 in a pot.
COCO PALM, 8 inch pots, 75 to 100 stems high, 3 in a pot.
LANTANA HERBERTIANA, 2 and 3 inch pots.
COCOS WEDDELIANA, 3 inch pots.
LEMUEL BALL, Wisconsining, Pa.

When Writing Mention Florists' Exchange

PALMS, Pandanus Veitchii, Ferns and Aracarias,

IN ANY QUANTITY. JOHN SCOTT, Keep St. Greenhouses, BROOKLYN, N. Y. When Writing Mention Florists' Exchange

Cyperus Alternifolius.

2 1/2 in. pots, 40 cents per doz.; \$25.00 per 100.
GERVILLE ROBUSTA, 3/4 in. pots, 40 cents per doz.; \$25.00 per 100.
ASPARAGUS TENUISSIMUS, 3 in. pots, 50 cents per doz.; \$25.00 per 100.
CALIFORNIA VIOLETS, field-grown, \$4.00 per 100.
CARNATIONS, Maipiedra (new), \$8.00 per 100. Medium sized plants of the following standard varieties, \$4.00 per 100.
PORTIA, Wm. Scott, Della Fox, The Street and Tidal Wave.

NATHAN SMITH & SON, Adrian, Mich. When Writing Mention Florists' Exchange

ROSES.

The most in favor this season is the worst time of the year—dark days combined with extremely bad weather. In consequence of our late winter trying with lots of cold rains. Spraying has been almost abandoned, thus giving red spider a chance to get in as usual. We have found it very practicable, instead of spraying a whole house during these times to cover one bench and only one so—those that are most likely to be infested with spider—and the corners. By doing this the time is very much quicker than if the whole house is sprayed at one and the same time, and but very little harm, if any, is experienced. On no account should red spider be allowed to get the upper hand; I would rather take my chances with anything else than let this pest once get a strong foothold.

It seems hardly necessary for me to make any remarks on watering, as in previous notes the subject has been well explained. Under the most favorable circumstances after cases and I would advise not to wait for a bright day on which to do much but to keep the beds well looked after in this respect without regard to the weather, and when a heavy shower comes, we will be able to center our whole energy on spraying. No especially, spraying should be done as quickly as possible, and as early as the temperature will permit, giving the plants the most possible chance to dry off by nightfall.

Where a man has rather an extensive territory to cover with this work, he will find a very valuable time if he has to water all at the same time. Despite the excessive of the time in this work as well as spraying, in such miserable weather a petal or two on some of the buds and blossoms will get spotted, and if allowed to remain the entire flower will be spoiled. This is often the case with American Beauties, but to take only a short time to go through a house and pick over what few there are. It pays.

A bad weather will shut the garden out, we will be obliged to the safe side in using water as well as stimulants, as the atmosphere is very dry. It is very probable working with more freedom atoning to a great degree for the lack of sunshine. The chrysanthemum house is probably taking a good deal of our time lately, making us liable to neglect some of the current work in the rose house. The holidays will soon be here, and good roses will unquestionably be in demand at good prices. To get the good blooms on straight stems it is very essential that the plants be kept tied up, and last but not least, disbudded. I think this latter operation is not given the attention by many that it deserves. There are a few who tie it a six to cut off side buds because such growers believe they are out so many flowers. In one sense they are, and this opinion may cut these who have no competition and whose customers don't know what a good bloom is or ought to be, but when the latter is on edge is broad, the advantage of disbudding will not only very much increase the quantity of flowers, but an item that will receive constant attention. By disbudding the flowers are finer quality blooms are obtained, and at the same time a large amount of strength is diverted to other channels, obviating to a great extent the excessive drain on the plant producing so many flowers to the shoot.

In some instances the crown or center bud of such varieties as Perle and Meteor at the tip of the main stem, may be cut off or bulbous, in which case they should be pinched out, leaving the most promising side bud. H. H.

SMILAX! SMILAX!

Extra 2 in. - \$1.50 per 100; \$10.00 per 1000; \$35.00 per 3000.

GLADIOLUS BULBS May, White and Light Red, Yellow, Fine Mixed. New Road.

BETSCHER BROS., Canal Dover, Ohio. When Writing Mention Florists' Exchange

SEE A. Schultzeis, College Point, N.Y. P. O. Box 78, Telephone Call 51 F.

FOR PALMS AND FLOWERING PLANTS FOR XMAS!

Erica Fragrans from 50c. up. Specimen over 3 ft. high, about 2 ft. in diam., extra large.

Erica Wilmoreana, pink trumpet, a grand lot from 50c. up.

Cyclamen Persicum plants from 25c. up. We have over 200 large plants with growth, from 10 to 14 in. across.

PERIS TREMULA ALL SOLD. Few PERIS SERULATA at \$3.50 a 100. Strong Nephrolepis Exaltata, N. Exaltata

Azaleas from \$5.00 per doz. to \$5.00 each, a few extra large plants.

Adiantum Parryense, in excellent condition, to 3 in. pots, ready to shift, \$3.00 per 100. R. WITERSATZTER, Sedamsville, Ohio.

WILLOWED GARDENS. (J. M. W. KITCHER, Prop'r.) PLANTS BLOOMS

Most complete commercial collection in America. Show collections for retail florists a specialty.

JULIUS ROEHR'S, Headquarters for Palms and Decorative Plants, RUTHERFORD, N. J.

700 Address, Carlton Hill, N. J. When Writing Mention Florists' Exchange

AZALEAS, PALMS. . . . . ARAUCARIAS, BAY TREES, BEGONIA and GLOXINIA BULBS in any quantity.

SANDER, BRUGES, BELGIUM. A. DIMMOCK, Agent, 60 Vesey St., N.Y.

ADIANTUM CUNEATUM ... Seedlings, \$1.25 per 100; \$10.00 per 1000

Adiantum Pubescens, 1/2 in. pots, \$2.50 per 100; \$20.00 per 1000. Pteris Adiantoides, 2 in. pots, \$2.00 per 100.

LATANIA PALM PLANTS 2 1/2 to 3 feet in height and diameter, 9 to 11 in. in diam. \$2.00 per doz. to \$10.00 per doz.

J. W. COLLESE, 53d and Woodland Ave., Phila When Writing Mention Florists' Exchange

SWORD FERNS. Per 10 Per 100 Nephrolepis exaltata, 8 in., \$1.00 \$9.00

W. J. HESSER, Gardener, Plattsmouth, Neb. When Writing Mention Florists' Exchange

Write at Once CORNELIUS S. LODER, Secretary, NATIONAL FLORISTS' BOARD OF TRADE,

Solangeia Emblana, 2 in., \$2 1/2 in. \$3 per 100. Lotus Polychroas, 3 in., 60c. per doz.

John G. EISELE, 2018 & Ontario Sts., Phila. Pa. When Writing Mention Florists' Exchange

Nephrolepis Exaltata Bostoniensis. The Handsomest Decorative Plant in Cultivation.

MINE IS THE GENUINE STOCK. FRED C. BECKER, - - - 1730 Cambridge Street, CAMBRIDGE, MASS.

READY FOR DELIVERY - Aucatum, Rubrum Album, and other Japan Bulbs, CALIFORNIA FLOWER SEED.

H. H. BERGER & CO., 220 Broadway, N. Y. Branch: San Francisco, Cal. (Established 1871)

The Boston Fern - Nephrolepis Exaltata Bostoniensis. The best house plant yet introduced.

L. H. FOSTER, 45 King Street, Dorchester, Mass. When Writing Mention Florists' Exchange

Established 1857. \*Phone, L. V. 136. GEO. WITTBOLD, Grower and Importer of TROPICAL PLANTS,

1708 NORTH HALSTED STREET, Corner Aldine Avenue, - - - CHICAGO, ILL.

The following is a list of our stock. It is in excellent condition, and we are confident that we can please you, both as to quality and value.

Measurements taken from top of pot to top of tallest leaf. VARIETIES.

Arcaea Lutescens, 3 plants in pot. .... 4 " 12-14 8-10 1.00 \$3.00 \$30.00

Corypha Australis, 3 plants in pot. .... 7 " 48-25 7-8 1.50 19.00

Kentia Belmoreana, 4 " 14-18 4-5 50 3.00 30.00

Forsteriana, 4 " 35-24 3-5 2.25 15.00

Latania Borbonica, 4 " 14-18 1-2 1.00 12.00 10.00

Phoenix Reclinata, 10 " 18-20 4-5 50 5.00 60.00

FERNIS. Nephrolepis Exaltata, from 3 in. pots. . . . . Per 100 \$4.00

FERNIS JUST THE SIZE FOR FERN DISHES. Adiantum pubescens, Nephrolepis exaltata, Cymodium

MISCELLANEOUS PLANTS. Pandanus Plumosus Nanus, from 3 in. pots. . . . . Per 100 \$8.00

LYCOPODIUM WREATHING, in any quantity at 8c. per yard, up. Order now for your holiday trade. All orders from unknown parties must be accompanied by cash or acceptable references.

EVERY FLORIST OUGHT TO INSURE HIS CLAIM AGAINST MAIL. For particular address JOHN G. EISELE, Sec'y, Middle River, N.J.

FERNS! FERNS!! The best variety for fern dishes, etc. grown in cool, air, moist, shady place. 2 1/2 in. pots, \$3.00 per 100; \$30.00 per 1000. From flats, \$1 per 100.

H. WESTON, Hempstead, L. I., N. Y. When Writing Mention Florists' Exchange

SPECIAL OFFER FOR THE HOLIDAY TRADE PALMS

Arcaea Baueri, 5 in. pots. . . . . Each. Doz. \$1.00 \$9.00 Lutescens, 4 in. pots. . . . . 20.00 200.00

Arcaea Excelsa, grand from culture. . . . . Each. Doz. \$1.00 \$9.00 Aspidistra Fendleri, 5 1/2 in. pots. . . . . 2.00 20.00

Nephrolepis Exaltata (sword fern). . . . . 35.00 350.00

F. LUDEMANN, Nursery, San Francisco, Cal. When Writing Mention Florists' Exchange

Drive in Ferns We must have Room . . . . .

2 1/2 inch ferns, 3 varieties, at \$1.50 per 100; \$30.00 1000.

FERNIS 3 inch in 20 varieties. . . . . \$1.00 per 100

COCOS WEDDELIANA, good color, growth. 10c. per 100. \$10.00 per 1000. Samples for Stamps.

REDFIELD, - Glenside, Pa. When Writing Mention Florists' Exchange

FINE STOCK OF PALMS

Arcaea Lutescens, 4 in. pots. . . . . Each. Doz. \$1.00 \$9.00 \$25.00 \$250.00

Kentia Forsteriana, in pot. . . . . 30 3.00 30.00

Plumosa Elasticus, good stock, from 20c. to 41c. each. Ferns, well grown, assorted stock, 2 1/2 in. pots. \$2.00 per 100.

JOHN BADER, Allegheny City, Pa. When Writing Mention Florists' Exchange

Palms! Palms! Palms!

PHOENIX RECLINATA. Well established, in 3 and 6 inch pots, ready for 8 inch, 30 to 35 inches high from top of the pot; perfect plants, finest ever offered for the money. \$45.00 per 100.

JUSTIN ST. MARD, Florist, SARATOGA FERNERIES, Delachaise and Saratoga Sts. NEW ORLEANS, LA.

When Writing Mention Florists' Exchange \$500.00 Worth.

That large lot of ours sold \$200.00 worth of plants. Morris Floral Co., Morris, Ill., Nov. 29, '97.

OBITUARY.

William Gray.

"After a brief illness this prominent and much-respected gardener passed away on November 25, at his home on the Corning farm, Albany, N. Y.

William Gray was a Scotchman, born at Greenlaw, Berwickshire, February 18, 1823. When still young, in the spring of 1851 he came to the United States and spent a time in the nurseries of James Wilson, Lydius street, Albany. He was gardener to Mr. Joel Rathbone, at Kenwood, and about a year later he went to the westward, settling in Western Iowa, intending to become a nurseryman. But finding the winter season unpropitious for his journey to the East, and accepted a position as head gardener to Mr. John T. Horton, of Farmington, Conn., where he remained about four years, after which time he was in charge of the choice collections of Gen. A. F. Rathbone until engaged as superintendent by the late Hon. Erastus Corning. Here he had remained until his death, and here, too, he did his life's work.

The Late William Gray.

The deceased was a great lover of orchids and the collection under his charge was one of the most famous and noted in existence, being rich in choice hybrids that had been raised in the place.

Mr. Gray was also a well-known entomologist and spent many years in pursuit of this study, his collection, embracing over 30,000 specimens, was rich in perfect specimens and in many new types, and were obtained from all parts of the globe; especially, was it rich in Spilididae, Noctuidae and Ichneutid and Dimorphic forms.

He leaves behind a wife, three sons (all in the profession), and two daughters. His many friends will learn of his death with regret.

Francis Ludlow.

The deceased, who died in Chicago, on November 25, was one of the city's old-time gardeners and florists. He was born near Derby, England, on December 3, 1823. When a young man he was on the point of leaving his native home for the Cape of Good Hope, but this intention being so much against the wishes of his family, it resulted in his emigrating to the United States in 1853. Coming directly to Chicago, he there worked with its first florist—Samuel Brooks. About 1854 he became gardener to Dr. McCagan, then who at that time had the finest greenhouse, and the first to be heated with hot water, in the city. He subsequently became foreman to Edgar Saunders, which place he retained until he was married. Mr. Saunders' eldest daughter, Sarah Jane, and in 1872 started into business for himself. Miller was in Chicago at that time for a time at the Rose Hill Cemetery Greenhouses, and for the past 16 years had been on the staff of the Horticultural Exchange. His father was a brickmaker in England, but

Frank took to flower growing, finishing his education at Fulham, London, being employed as a florist by the late son and three daughters, the youngest 13 years of age. He had hosts of friends among the florists of the city, and was largely attended; many beautiful flowers marking the esteem in which he held by his fellow-craftsmen.

IMMEDIATE NOVELTIES.

Under this heading we will publish brief descriptions and occasional illustrations of novelties of immediate interest. Growers and disseminators are requested to send us the necessary particulars together with the cuts for our intended descriptions to appear in this paper assuming no responsibility for the accuracy of the same, but also reserving the right of selection.

Continental Novelties.

Mr. ERNST BENARY, Erfurt, Germany, has submitted for our notice a fine collection, of which we condense the descriptions from his catalogue:—*Angelonema grandiflora* (Benary).—The *Angelonema grandiflora* is a graceful greenhouse plant, of aromatic odor, and bearing lilac flowers, which appear at the same season as the seed is sown. The first variety, which I have now obtained, is more than half the size of the more numerous pure white flowers standing out in contrast with the elegant dark green foliage. It is well adapted for use, particularly adapted for room or conservatory decoration, being a good winter bloomer, and it can be had in any quantity for the table.  
*Myosotis palustris* Tom Thunb (Benary).—This is a dainty form of the marsh forget-me-not, the plants forming little tufts, as in *Spergola piliferum*, from whence spring up an abundance of delicate sky-blue flowers. It comes true from seed, blooms abundantly from May until frost, and is admirably adapted both for borders and for pot culture.

tensively used as cut flowers at present. Growing about two feet in height, it bears a single, large, dense bud and produces its long stemmed flowers in the greatest abundance. The disc is brown, the ray-florets are yellow, with large velvety brown spots at the base—a coloring which may be compared to that of *Chelidonia palmistris*, or that of the dwarf French marigold *Legion of Honor*.

Mr. F. C. HEINEMANN, Erfurt, catalogues the following: Heinemann's New Emperor, *Salspurgiosus*, a novel variety grows as thick as a finger, and bears on its end a bouquet of flowers. One of them is richly veined with gold, and considerably larger than the other. The throat is wide open and short. The edge of the flower is not so deeply incised as with the old variety, which gives it a more round shape.  
Sky-blue, pillar-shaped *Forget-me-not*.—A variety striking by its very unique structure. All branches that form the plant grow perpendicularly. By this compact growth every plant forms a regular pillar or column. This habit makes it a most desirable form as a specimen plant for market sale, or as edging for flower-beds, and many other decorative purposes. The color is a variety of glaucious, pansy, cerise, bell, etc.

FREDERICK ROEMER, Quedlinburg, offers *Filianthus annuus*, Golden.—Single-stemmed variety of the variety of golden leaves. The plants are of luxurious but stout growth and reach a height up to six feet. The leaves are regularly striated with most distinct markings, the colors varying from golden yellow to bright red. The flowers are regularly striped and blotched in some of the color approaches a clear golden yellow.  
*Myosotis palustris* Tom Thunb and vigorous habit this novelty will prove to be a most useful ornamental plant, either if planted singly or in groups.

Newest Orchid-Flowering Cannas.

The list of this new race of cannas, of which Austria and Italy were the first to raise the standard, is contained in the circular, and I believe that two grades of certificates would be desirable for the plants raised in Austria and the second 75 points. I also believe that the date of points as awarded by the judges of the Horticultural Exchange, and embodied in the certificate when issued to the grower. A certificate might be framed something like the following:

Atlanta.—Height about three feet. Large grayish-green foliage with a dark border; flowers deep orange-carmine and very large; of very rich color. Very large flowers, five to six inches in diameter, salmon-red, the inner petals are darker.  
Paris.—About four feet. Dark green, brown bordered foliage. Very large flowers, five to six inches in diameter, salmon-red, the inner petals are darker.  
Rome.—About three feet; lively green, of strong growth and bearing abundant flowers of a canary-yellow color, spotted but not veined with red.  
Phoebe.—About six feet high; glaucous leaves, luxuriant growth, flowers similar to the preceding, but with a yellow, turning later on into a whitish yellow, petals spotted carmine, the inner petals more so.  
Professor Treub.—About four feet. Broad lanceolate leaves, brown-red, with large flowers, five to six inches in diameter, salmon-red, the inner petals are darker.  
Roman.—About three to four and a half feet. Growth extremely luxuriant, with large, dark green, heavily veined large panicles; flowers large, with yellow ground flamed salmon-red.  
Sardinia.—About four feet. Leaves brown, with a metallic blue, flowers of a middle size and a brilliant crimson.  
Sardinia.—About four feet. Bright green, of luxuriant growth. Flowers very numerous and large, of a deep orange to a paler yellow. A very pure color.

CORRESPONDENCE.

Insertion will be given in this column to all communications free from cost. The Editor reserves the right to not accept or to edit or to use as he may see fit.

American Carnation Society.

In reply to your request for my views on the proposed amendment to by-laws of the Carnation Society, I think that the amendment is a very desirable one. There may be some practical difficulty in the way of securing proper tests of varieties, but I believe that the Society, and, however, some varieties of the varieties that will bear hard upon many of the smaller growers and proprietors, and they will be inclined to think that the expense and restriction will make it unprofitable for ordinary growers to follow the production of such varieties, and this fact may lead to the Society some considerable support among the smaller men.  
While I have doubts about any great good being accomplished by the Society's attempting to determine in advance of introduction the value of the various commercial varieties, I am still willing to see the matter tried, although I should not like to see the Society's certificate until all of the seedlings that I may grow through the Society's certificate until I have been convinced that that was the best method for all concerned.

However guarded the Society might be in its selection of plants and varieties, and, I believe, and however successful it might be when the seedling had been tested, invariably upon a certified form, there is still the same chance of failure that has attended heretofore. There is no possible objection to the Society's having introduced a certified seedling from cutting the stock back, taking every possible precaution to insure the vigor of the health and vigor of the variety, as has been done heretofore, so that possibly in the future it may be possible to raise the new conditions might not be of any more value than those which have been granted.

I should favor holding forth more encouragement to the grower of seedlings of the highest quality, and I believe that two grades of certificates would be desirable for the plants raised in Austria and the second 75 points. I also believe that the date of points as awarded by the judges of the Horticultural Exchange, and embodied in the certificate when issued to the grower. A certificate might be framed something like the following:

John Doe, having exhibited carnation Minnie Cook, has been awarded a first-class certificate of merit with the following rating of 85 points:

Color	9
Form	9
Stem	9
Foliage	10
Flair	10
Calix	10
Plant	10
General Effect	18
(Signed) Total	85

(Signed) \_\_\_\_\_ Judges.

Or, to be gotten up in any form that would show the above certificate, and the Society should award the press should publish all of the above details and these details in the annual proceedings of the Society. We would then have a record of the certificate when issued to the grower, and it would be possible for them to see if they would enable the purchaser of the seedling to "size up" its general characteristics, and it would be possible to do heretofore; and it would also enable him to place his own estimate as to the value of the variety. The Society, as well as to observe more clearly the work as well as the strong features of any variety.

Possibly some may object to the second-grade certificate, but there will be no objection to the Society's publishing all of the above details, which, while not in the opinion of the judges sealing the required 85 points, would be of great value to the Society; and the second-grade certificate would cover that class and act as a check upon the grower, and it would enable growers who might otherwise become disgusted and discouraged, and quit ex-

hibiting, as well as quit supporting the Society. Every effort should be made to induce other growers, aside from the few dominating ones; as in the end the Society's support must come from the mass of smaller men acting in conjunction and accord with the Society, and in order to secure the support of this class the Society must offer them some inducements that are within their reach.

By-laws, rules, regulations, scales of prices, and all things, unless intelligently carried out and the best and wisest laws fall in the hands of improper judges. If the Society succeeds in securing each year an intelligent, capable and unbiased set of men, they may need for a time, at least, in doing good work; but an incompetent president might do a great deal of harm in dominating the affairs, and the well-known influence of the members of the Society might permit that harm to be carried out, even though the members have a right to turn down the nominations of the president. By general consent that is almost never done, so that the success of the plan would practically be in the hands of the president alone, and to that extent is dangerous.

C. W. WARD, QUEENS, N. Y.

**The Southern Yessamine Industry.**

**Editor Florist's Exchange.**  
We wish to tell your readers something of the Yessamine industry as conducted here.

The common cape, grown so extensively in the South, has raised here; it usually begins to bloom in this latitude about the 23rd of April, and continues until the 20th of May, or thereabouts, and the grandiflora variety follows it about a week or two, continuing for a month. It is popularly supposed that this variety originated near Alvin, about 1870, by a man, the name of whom named Snow (now deceased), and we believe it is not propagated commercially at the present time in any country.

About one-fourth of the entire output is taken in Texas, probably because they are the only buyers in that state. Kansas takes second in bulk for the same reason, closely followed by Missouri. The states which follow are: greater bulk, Ohio, Illinois, Indiana, Tennessee, Kentucky, Iowa, Pennsylvania, New York, Arkansas, Nebraska, Colorado, and Indian Territory, in the order named, with scattering shipments to every other state in the Union, except Florida. Montana uses a great many thousands this year, as did also Wyoming.

The business gives employment during the month of May to about 50 people including pickers, packers, box-makers, stencillers and shipping clerks, and it is worth a long trip to see the activity and busk at the double ends during the month of the season. I have seen six and seven big Fargo-like trucks loaded to the fullest capacity, waiting to be forwarded, on one single train.

And the business is only in its infancy, which is shown by the fact that the entire year in '95 (figures from florists list) the total sales of cut flowers in Texas were only about \$5,000. We do not know what the exact figures were for May, this year, but I am positive that the total sales were over \$2,000, and probably \$4,000 would be a moderate estimate. Hundreds of shipments are made by tonnage, and in fact the entire year in '95 (figures from florists list) the total sales of cut flowers in Texas were only about \$5,000. We do not know what the exact figures were for May, this year, but I am positive that the total sales were over \$2,000, and probably \$4,000 would be a moderate estimate. Hundreds of shipments are made by tonnage, and in fact the entire year in '95 (figures from florists list) the total sales of cut flowers in Texas were only about \$5,000.

The grandiflora cape does not bloom in the Fall, as it follows the habit of the magnolia, with which, it is said, the connection is very intimate. In the present common cape blooms here from September 1st until about the 25th of December, or thereabouts, but the supply is limited, and it is not extensively advertised, and it is accordingly in demand. In the United States the Fall sales do not amount to more than \$300 or \$400, as a rule.

About one-fourth of the entire output is for Decoration Day use, the other three-fourths being in the hands of the prime from the 20th to 25th. In June, from the 1st to 5th, many thousands are made and placed in cold storage, as they have a large ice plant here, and shipments are made from storage as late as the 17th of the month. Some seasons, but this stock is inferior in size, and the storage does not improve the quality of any of the flowers. The moderate demand for storage stock, and about 50,000 were sold this Spring. C. W. BENSON, TEXAS.

**CLEVELAND FLOWER SHOW.**

*The Awards.*

CHRYSANTHEMUMS.

Ten plants, white—First, Mollenkopf Bros.; third, G. M. Stenger.

Ten plants, pink—First, Casper Aul; second, Mollenkopf Bros.; third, G. M. Stenger.

Ten plants, yellow—First, J. M. Gasser; second, Fred Aul; third, Mollenkopf Bros.

Ten plants, red or bronze—First, J. M. Gasser; second, Mollenkopf Bros.

Six plants, six varieties—Second, J. M. Gasser.

Single specimen bush plant—First, C. Merkel & Son; second, E. Cunningham. Wm. H. Lincoln was the variety shown in each case.

Single specimen, standard plant—First, C. Merkel & Son with Georgiana Filcher; second, E. Cunningham, with G. W. Childs; third, W. Stude.

Ten single-stem plants, white—First, Fred Aul; second, Mollenkopf Bros. with Mrs. Jerome Jones; third, E. J. Paddock.

Ten single-stem plants, pink—First, E. J. Paddock; second, J. M. Gasser.

Ten single-stem plants, yellow—First, Mollenkopf Bros., with Bonaffon; second, E. J. Paddock; third, J. M. Gasser.

Ten single-stem plants, red or bronze—First, E. J. Paddock; second, Mollenkopf Bros.

CUT FLOWERS.

Fifteen varieties, five blooms each—First, Nathan Smith & Son; second, C. Merkel & Son; third, H. Toung.

Ten single-stem plants, each—First, Nathan Smith & Son; second, Carl Hagenburger; third, G. M. Stenger.

30 blooms, white—First, Jas. Eadie, with Queer; second, J. M. Gasser.

Thirty blooms, pink—First, H. A. Hart; second, Jas. Eadie with Vivand; third, G. M. Stenger.

Thirty blooms, yellow—First, Jas. Eadie, with Modesto; second, Nathan Smith & Son; third, A. K. Auld.

Thirty blooms, red or bronze—First, Jas. Eadie, with Harry May; second, Nathan Smith & Son; third, A. K. Auld.

Fifteen blooms, white—First, G. Laed; second, Nathan Smith & Son; third, A. K. Auld.

Ten plants, red or bronze—First, Mrs. Jerome Jones; third, Nathan Smith & Son, same variety.

Fifteen blooms, yellow—First, Jas. Eadie, with Maud Dean; second, H. A. Hart; third, Nathan Smith & Son.

Ten plants, yellow—First, Jas. Eadie, with Eugene Bailloence; second, H. A. Hart; third, Nathan Smith & Son.

Ten plants, red or bronze—First, E. J. Paddock; second, A. Schmitt; third, Nathan Smith & Son.

POMPON FLOWERING.

Five varieties, ten blooms each—First, G. M. Stenger. The varieties shown were: Black Douglas, Mrs. Moutels, Rose Marguerite, Mme. Senter and Mrs. Jerome Jones.

For best and largest display of blooms in one vase, certificate of merit was awarded to E. Cunningham.

ROSES.

Twenty-five American Beauty—Second, J. M. Gasser.

Fifty Bride—First, Jas. Eadie; second, J. M. Gasser.

Fifty Mrs. Jones—First, Jas. Eadie.

Fifty Bride—First, Jas. Eadie; second, J. M. Gasser.

CARNATIONS.

Fifty blooms, white—First, Merkel & Son, with Flora Hill; second, A. Graham Smith, with same variety; third, Hagenburger, with McGowan.

Fifty blooms, red—First, A. Graham & Son, with Jubilee; second, J. M. Gasser, with Outcast.

Fifty blooms, yellow—J. M. Gasser, with Mrs. Jerome Jones.

Fifty pink, lighter than Scott—First, Carl Hagenburger; second, H. A. Hart.

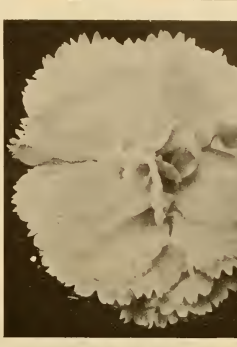
Fifty pink, darker—First, J. M. Gasser; third, Smith & Son.

Fifty pink, lighter than Scott—First, J. M. Gasser; second, H. A. Hart; third, Carl Hagenburger.

DECORATIVE PLANTS.

Display 150 square feet—First, A. Graham & Son; second, Eliza Grant Wilson; third, J. M. Gasser.

Display 75 square feet—First, S. N. &



**HARRISON'S WHITE.**

**NEW CARNATION.**

*Sport From Wm. Scott.*

ALL LEADING CARNATIONISTS ARE PURCHASERS. **STRONG, VIGOROUS GROWER, REQUIRING NO SUPPORT.** Described and Illustrated in *Florist's Exchange*, Nov. 21, 1896, page 1044.

**ROOTED CUTTINGS.**

Price: \$5 per 100; \$20 per 500; \$40 per 1000. Cash or Satisfactory Reference. All orders filled in rotation.

**JOHN HARRISON,**  
739 Bergen Ave., Near Hillwell, Avon, Greenfield, JERSEY CITY, N. J.

Take Bayou or Greenville from Pennsylvania R. R. Ferry, Get off at Hillwell Ave.

When Writing Mention Florist's Exchange

W. J. Puntosed; second, A. Schmitt; third, E. J. Paddock.

Ten plants not over 10-inch pots—J. M. Gasser.

Ten plants suitable for window decoration—First, H. A. Hart; second, Mollenkopf Bros.; third, E. J. Paddock.

Table decorations—First, J. M. Gasser; second, A. Graham & Son; third, E. J. Paddock; fourth, Jas. Eadie; Eliza Grant Wilson, honorable mention.

Basket chrysanthemum—First, J. M. Gasser; second, Jas. Eadie; third, Eliza Grant Wilson.

Tridial bouquet—First, J. M. Gasser; second, Jas. Eadie.

Floral arrangement—First, J. M. Gasser; second, Jas. Eadie; third, Eliza Grant Wilson.

G. A. T.

**BUSHY FIELD GROWN CARNATIONS.**

With plenty of roots. Send for prices.

**GEO. HANCOCK & SON,** Grand Haven, Mich.

**CARNATION CUTTINGS.**

**CARNATION SUPPORTS.**

**CARNATION FERTILIZER.**

H. F. LITTLEFIELD, Worcester, Mass.

**THERE WE ARE AGAIN!**

Rooted Carnation Cuttings

for Summer flowering. Ready for immediate delivery.

**FREE OF RUST.**

Minnie Cook, Eldorado, Enallais, Kitty Green, 100 per 100 Alaska, Wm. Scott, Fortia, 1.00 Princess Boston, 1.00

Cash with order.

**GALLERT & CO.,** Carnation Growers, COLMA, - SAN MATEO CO., CAL.

When Writing Mention Florist's Exchange

**NEW CARNATIONS**

Grown and Tested Five Years.

**ONEIDA** pure pink, no trace of purple, good grower, continuous producer, 100 per 100, 1.00.

**RED JACKET** bright red, of largest size, continuous producer, long stiff stems, never nodding only 1.00.

**\$1.00 Per Hundred.** Orders booked now to be shipped in rotation as fast as possible.

**CHAS. F. BAKER, Utica, N. Y.,** When Writing Mention Florist's Exchange

**CARNATIONS**

After the early Chrysanthemums are thrown out, many florist plant carnations. We have a few thousand plants seeded in in the city, suitable for this purpose; they are first-class plants, the best of them set out in the spring.

800 Grace Wilder 200 Scott  
2000 Silver Spray 600 Ericsson  
1200 Alt. Monthly 400  
800 Jean Hole 100 Armandine  
1500 Fortia 100 Mrs. Carnegie

\$4.00 per 100.

**J. L. DILLON, - Bloomsburg, Pa.** When Writing Mention Florist's Exchange

**H. WEBER & SONS, CARNATIONS, OAKLAND, MD.**

When Writing Mention Florist's Exchange

**EDW. J. TAYLOR**

**Wholesale Carnations**

SOUTHPORT, CONN.

When Writing Mention Florist's Exchange

**CARNATIONS**

Double Velours, Svalsona and Forget-me-not outtings; the latter especially for winter blooming. All ready January 1.

**JOSEPH RENARD, Unionville, Chester Pa. Co. Pa.** When Writing Mention Florist's Exchange

**CARNATIONS**

**F. DORNER & SONS CO.,** La Fayette, Ind.

When Writing Mention Florist's Exchange



## THE MEN WE MEET.

No. 2.—ERNEST GEORGE ASMUS.

The name of Asmus is synonymous with all that is progressive in rose-growing in America. That that is not the only reason why the name of Asmus in this week's sketch has made a success.

Ernest George Asmus, of Bergenwood avenue, Jersey City, is a young man who can be classed, without fear of contradiction, in the very first rank of those who have succeeded in making good and natural shrewdness have been the great factors in the successful development of his career.

The self-made men of America are her mainstay and the foundation of her commerce, and the recognition that must be accorded Mr. Asmus for elevating himself from a hard-working boy who had to fight the battle of life, single-handed and without outside help, into a position of comparative affluence, gaining the respect of the trade for his integrity and sterling qualities. Born in the year 1841, on the 27th of November, at Hamburg, the son of Christian A. Asmus, a carpenter, he obtained two years' schooling in Germany and two years in this country, and then, in 1855, he emigrated and settled on Staten Island. In 1854 the family moved to Hill, N. J., where he first worked as a carpenter, and in 1856 to Angelen street, West Hudson, where he worked for some time with the brother and sister. A year after their start as flower sellers they became independent growers, and in a length in 1872 Mr. Asmus rented a place on Bergenwood avenue, near Schaeffer's Park, where these greenhouses, 60 feet long, heated by flues. The next removal was to a place on Nevelevoer's road, now occupied by Koegge Bros.; here they stayed for ten years. In the year 1880 Mr. Asmus bought out Peter Schuam, an old-time florist, and here he laid the foundation of his prosperity. The estate consisted of two acres and sixteen houses. Now we find the property covered by fifty greenhouses, representing not less than 150,000 square feet of glass.

Mr. Asmus is a wholesale grower of the cut-flower trade, making specialties in the various kinds of chrysanthemums and lily of the valley; the latter he grows all the year round. His reputation is as a rose grower is known throughout the length and breadth of the land. He has a large and successful competitor at all horticultural shows, and his private office is filled with silver trophies and certificates, and from 1884 captured at Boston, New York, Philadelphia, and other horticultural centers.

He is a member of the S. A. F. and of the New York Florists' Club, in the work of which bodies he takes a keen interest. His aims, modestly by the foundation of his success to hard work and plenty of it, and is indeed a tireless worker, and in the conduct and management of his large establishment by his two sons, Adolf and Ernest, who have inherited the business. But that energy which has brought their rise to the leading position he now holds.

As a horticulturist and as a specialist in the societies in which he has won his spurs are always interesting. Prior to entering the florist trade, Mr. Asmus gained considerable fame as a grower of plants for the market, also in bolls forcing, each of which he has written upon. He has found unprofitable, owing to increased supply or otherwise, in which he points to the necessity of growing a specialty "cesses to prove a good investment. Mr. Asmus declines.

As regards roses there are not now the good property they once were, when some of the best and other varieties than those now forming the staples, were the rule; when long-stemmed, large-bloomed roses were cultivated, but very few are now known, and quantity took the precedence of quality. Perhaps the most notable in quantity is the one that at this place is seen in the matter of hybrids. At one time these occupied about one-third of the business during the winter months; now there are only two houses devoted to hybrid varieties, and most of them are now grown by Mr. For this condition Brien and Meteor are responsible, the former having supplanted the latter in the market.—*Continued.*

That has created the greatest triumph in the history of the florists' industry. The varieties grown are Daybreak, Victor, Storm King, in lesser quantities. Amongst the Florists' Meteor, the great grower, which in it is

remembered that some of the kinds thus affected produced double the number of buds that Brideismad does. But the grower has no alternative; the trade demands Brideismad, and that variety must be grown. The following comparative yearly yield will show the prolificacy of the varieties named, in a house 100 feet by 15½ feet, containing, relatively, the same number of plants:

Cuda produced.....	44,175	salable buds.
Brideismad produced.....	22,774	“
Its highest record.....	28,263	“
Flotte produced.....	19,963	“
Waterlily.....	14,156	“
Toutou.....	12,857	“
Meteor.....	10,416	“
Victor.....	10,140	“
Beauty.....	16,715	“

As an indication of what the trade now calls for in roses, we cannot do better than summarize the houses allotted to each variety: Beauty 9, Brideismad 6,

M. Bratt, and Harrison's White. Among these new kinds his selection is Flora Hill, Mrs. Fingre, and Mrs. Bratt. Of the former he cannot say too much, its only defect being a rather weak neck for the immense bloom it throws. However it will be grown extensively next year. Jubilee, as will probably discard; its behavior hasn't been satisfactory. An unnamed seedling, scarlet, is to be preferred. Lily Jean is also disappointing. Victor is a grand variety, the house of it being a beautiful sight. The variety Mrs. Bratt is also in favor with Mr. Asmus; its large flower, rigid stem and other qualities being alike satisfactory. Some of the English varieties have been tested and found wanting.

Lily Valley is still extensively grown by Mr. Asmus, and forms one of his leaders. The increased tariff and the high price of first-class pipes have materially reduced profits. Valley, to be profit-

Mrs. W. B. Brown; flower scarcely exceeded that of the others. It has a compact ball of sharp pointed buds; raised from Queen X with Stevens. This variety is either a natural or a small growth, or it might be considerably enlarged in size if grown as are the plants of the old standard.

New York.—Saturday, November 27, was the last meeting of the New York committee of the season. Only one rose was presented, this one from George P. Rawson, Elmira, N. Y., and considering the late season, it was very valuable one, and should show up as acceptable as a late white. The type is a double one, and the petals are well distributed, curving to the center; while the outer or ray petals show a disposition to separate, to a pretty manner. The substance of the flower is also good, and the bloom bears evidence of making a good shippable color. It will have to be classed as a white, but in this quality it evidently is not constant, for some of the flowers presented inclined to pink cast, even more pleasing than in the case of Mrs. Jerome Jones, which it so excels, and this is saying a good deal. The stem and foliage are both good. Some indication is likely to arise from the name under which it is presented, viz., H. Chadwick, the same exhibitor having presented a yellow variety, under the same name one year ago, and the committee called attention to this fact.

## Plant Market for New York.

The enthusiasm which characterized the inception of this movement continues unabated, and that a large portion of Clinton Market, Canal and West streets, New York, will be given up as a permanent plant market, indoors, is now almost an assured fact. The meeting of plantmen called for Wednesday evening last, was well attended, and resulted in the formation of a permanent association for the market men, which may prove but the beginning of an organization of plant men in other parts of the city. The market—at least those most interested in their own welfare—

and chairman of the committee, appointed at this meeting to wait on the Board of Health, to present to them a rough diagram showing the number of stands available for the plantmen. There are 65 stands in 32 lots on the front on Canal and Washington streets. Superintendent Rapp, of the Clinton Market, stated that the rental of the stands varied according to the location; those in the interior of the building averaged 10¢ per stand, those in front of Canal and Washington streets, running from \$1.25 to \$1.37 weekly. Every standholder was entitled to "sidewalk" privileges. The smallest stands represent an average floor space of ten feet square. Mr. Asmus, who has been a member of the committee, and suggested the formation of a committee to wait upon the incoming Board of Health, and to secure such concessions could be made in the rental in the event of the stalls being taken up. He also stated that it might be practicable to auction the plants left over after the meeting. The meeting resolved to organize under the title of the New York Florists' Chamber and Association, and the following gentlemen were elected office-holders: President, F. Lehlig, Newark, N. J.; Vice-president, H. C. Steinhoff, West Hoboken, N. J.; Association dues were fixed at \$4 and the following were elected: President, H. C. Steinhoff, West Hoboken, N. J.; Secretary, A. D. Ross, 200 West Side street, New York, N. Y.; Treasurer, H. C. Steinhoff, West Hoboken, N. J.; Secretary, A. D. Ross, Leach Bros., Jersey City, N. J.; John Richards, artist, New York, N. Y.; John B. Bayome, N. J.; A. Schultze, College Point, N. J.; L. I.; F. Wachsauer, Middle Village, L. I.; and C. Schaefer, Woodside, L. I.

The Association will meet in Lynch's restaurant, corner Canal and West streets, the first of January, and the very first of things were passed to Mr. Lynch for the use of the meeting room, and the following gentlemen were elected: F. Lehlig and James W. Withers, after which the meeting adjourned.



Ernest George Asmus.

Bride 4, Meteor 4, Testout 2½, Carnot 2, Casin 2, Morgan 2, Kaiserin Augusta Victoria 1.

The novelties being tested this year are yet in an uncertain stage. The most promising is a hybrid rose, under name of Meteor, which for color will supersede Meteor, if otherwise satisfactory. Another is an exquisite shell pink, but almost entirely without value, but more to the withdrawal of the hybrids which formerly formed a succession crop to the chrysanthemums.

These six or seven houses were devoted to the latter; the varieties that proved of greatest value being Mrs. Traver 1, Park, glory of the Pacific, Mrs. Henry Robinson, Major Bonaffon, W. H. Lincoln, Evangeline, H. W. Resman, Mrs. Fern, Mrs. J. J. Gieseler, Mrs. Jerome Jones, Mayflower, Sunrise, the best earliest dark variety, he says; Defender, also a good dark kind, and Western King, which has also done exceedingly well.

Mr. Asmus finds that carnations, with him, are a less profitable crop to grow than roses, and that the greater extent of the carnation is being raised by the former. Here again, the higher grade of bloom now looked for, has militated against the carnation, proportionately. Six houses are devoted to carnations; three of the houses are now devoted to the greater extent of the carnation. The varieties grown are Daybreak, Victor, Storm King, in lesser quantities. Amongst the Florists' Meteor, the great grower, which in it is

able, should average \$4 per 100 sprays—then only a small margin is realized. Those connected with the valley market the past two years, will readily understand that little or no profit on it has been made, and that it will be difficult, if possible to produce valley every day in the year, is also an important department, and that the act of growing to the loss resulting from deterioration of the pipes, almost to the extent of cutting to produce the flowers.

When asked his views on the causes which have led up to the depreciation in stock, Mr. Asmus attributes it to the preponderance of roses during the past few months as compared with former years, which limits the demand for such plants.

Lane forcing, which was at one time a great feature of this establishment, will be abandoned after this year, owing to a general reconstruction of the section of greenhouses now devoted to that purpose.

## Seedling Chrysanthemums.

CHICAGO.—The undenoted varieties were before the committee on November 27. From George P. Rawson, Elmira, N. Y., W. H. Chadwick, in many respects a remarkable flower, of the largest size, an untraced Japanese, fore and back, bowl shaped; center fully covered, stem and foliage first-class. The flower is ex-labeled, but very similar to color similar to that of the Carnot rose, which is said to come when the variety is grown in a cool house; the other is ivory-white, which follows if grown in a warm house. It is said to be gooder grown in a cool house, and later flower.



### Exclusively a Trade Paper.

Entered at New York Post Office as Second Class Matter

Published Every SATURDAY by

A. T. DE LA MAR, Ptg. and Pub. Co., Ltd.,

2, 4, 6 & 8 Duane St., New York

P. O. Box 1697, Telephone 2154 Cortlandt

REGISTERED CABLE ADDRESS  
Commercial Cable) Florez, New York.

**SUBSCRIPTIONS:**  
\$1.00 per year to United States, Canada and Mexico. \$2.00 per year to foreign countries in postal order. Payable in advance. New subscribers will continue with the first number after receipt unless otherwise ordered. Back numbers can be supplied when wanted. The date and address label shows when the subscription expires and is the subscriber's receipt. No other receipt is sent.

**ADVERTISEMENTS:**  
Copy must reach this office not later than Thursday in order to secure insertion in issue of the following Saturday.  
Rate, \$1.00 per line. Special positions extra. Discounts on contracts of one month and over.  
Orders from unknown parties must be accompanied by cash or satisfactory references.

### Contents.

BOSTON PUBLIC GARDEN, VIEW IN	1105
BUSINESS DIFFICULTIES	1106
CAN. NEW YORK GARDEN FLOWERING	1106
CARNATION ARMOLE (ILLUS)	1106
CATALOGUES	1107
CATALOGUES RECEIVED	1101
CHRISTIANITY, THE FRIEND OF	1107
CHRYSANTHEMUM SOCIETY OF AMERICA, 1110	
CONGRESSIONAL STATEMENTS	1106
CRIMINALS	1106
FLORISTS' ASSOCIATION	1106
FLORISTS' SHOWS:	
St. Louis	1108
FRANKEL BROTHERS	1108
GLASS TRADE ST-ICE THE	1108
HANSON, DECORATED (ILLUS)	1108
H. P. FLETCHER	1108
MEN'S MEET, THE	1109
MILWAUKEE ANNUAL (Portrait)	1109
MONTHLY EXHIBITIONS	1100
NOTICE TO MEMBERS	1109
OBITUARY:	
William W. Gray, Wm. Gray (Portrait)	1109
PLANT MARKET FOR NEW YORK	1109
QUESTION BOX	1102
REMARKS ON CURRENT TOPICS	1102
REMARKS ON CURRENT TOPICS	1102
REMARKS ON CURRENT TOPICS	1102
STAKE, A NEW REPORT	1104
THE FLOWERS:	
Boston	1104
New York	1105
Baltimore, Buffalo, Syracuse	1105
Chicago, Providence	1105
Philadelphia, Pittsburgh, St. Louis	1105
Cleveland, Philadelphia, Washington	1110

### For the Busy Man.

William Gray, the well-known gardener and orchard specialist, is now dead.

Owing to the glass workers' strike, prices on some kinds of glass have advanced forty per cent.

The Hoover & Gates Nursery Co. is reported to have gone into the hands of a receiver.

The Whitney-Grove Seed Co., of Birmingham, N. Y., will shortly remove their headquarters to Buffalo.

The outlook for Christmas trade, all over, is bright in some portions and dull in others. The outlook is in short supply.

Quite a number of new retail stores have been opened in the following districts: Allentown, N. Y. City, the past week.

The Washington Florists have formed an organization, its principal object being an effort to prevent the free distribution of cut flowers by the government.

The plant growers in favor of securing Clinton Market New York for a permanent plant market, organized on the following day last, under the title of the New York Florists' Association.

The point to which the project being carried out.

### FRUITS and FLOWERS.

WHITE SPURT FROM MAID DEAN CHRYSANTHEMUM.—John Lewis Childs, Floral Park, N. Y., sends us a white spurt from the Maiden variety. The characteristics of the parent are seen in the fruit, form and build being the same as in the type; the only difference noted is in color, which is a pleasing white. A few, however, show a tinge of pink. The fruit is very plump flowers on the ray and in the center.

Value for money expended, and not sentiment, should govern all business transactions.

THE SECRET of

## Success in Advertising

Consists in KNOWING what mediums to use.

No man so far as the Florists' Exchange is concerned who has used its advertising columns, or any other of its valuable returns but today has successfully yielded them, and the general consensus of opinion among business men is that it is most advisable to patronize one strong substantial medium freely than many weaker ones even sparingly.

Ninety out of every one hundred progressive florists and seedsmen are *bons fide* paid subscribers for our articles in the Florists' Exchange. This is saying a good deal, but our assertion is true and it is well known that our increase in business, from year to year, since the paper was founded in 1888.

It is the mainstay, backbone and soul of trade; and, all other things being equal, this item of business expenditure should be the last trimmed down. Do not curtail your advertising, but use discretion in placing it where it will do the most good.

Don't advertise unless you have the goods to sell. And don't try to sell goods unless they are equal to your representation—a dissatisfied purchaser is your worst enemy. And don't be too anxious to make sales for the sake of making sales; if you don't know your real best customer (who wants time), investigate him before you ship. An honest man courts a fair price and a good standing. In our trade, as in all others, there are harpers every ready to take advantage of the unwary.

### Monthly Exhibitions.

The past few years have witnessed a very large increase in the number of monthly exhibitions given by various florists' clubs throughout the country; a fact as gratifying as the shows are needed. These exhibitions have assumed different positions, their nature depending upon the individual choice of the exhibitor. In fact, the exhibitor in the West and Northwest, as well across the border among our Canadian friends, seems to be that of devoting a meeting entirely to one particular subject and having a discussion by the members on the various phases of the exhibition. In other words, the exhibitor might it is carnations, another chrysanthemum, and so on through the list of the staples embraced in the present day commercial floriculture. The New York Florists' Club was among the first to inaugurate these monthly shows, and, unfortunately, among the last to give them up. We are glad, however, to observe that the Club has again resolved that such exhibitions shall be held, and as an incentive to that end, has offered its gold medal to be competed for and awarded to the exhibitor whose display, as shown, scores the highest number of points, during the year 1898. There is no restriction on the display, which may partake of a general or specific character. Of course, it is understood, that the same exhibits will not be presented in competition with each other. This resolution was made by the Club for a double purpose, viz., to hold the members together, and also as a means of disposing of the gold medal which has been lying in oblivion for a number of years.

During the progress of the discussion a point was raised which might be worth while referring to here. It was this: Will a general exhibit, if first-class, be likely to draw an attendance, as one of new and rare things, pure and simple? It was argued, that as well-grown roses,

caranations, etc., could be seen in the leading florists' stores of any city, in their season, the only thing that the Club meeting would therefore prove of attraction to the general public, would be on the ground, a mostly exhibit of new or rare meritorious things which would not fall into the category, of course, having in mind that these exhibitions are exclusively for the benefit of club members. This refers to novices in design work as well.

Our own opinion is that if the exhibition is one of the sort, only a detriment, let the show be a general one—the more varied the better; if for the benefit of the members, the more rare, let new and rare things be the dominant feature; an announcement of which should be made to each member being made to the members prior to the date thereof.

There arises another phase of this question: Does the throwing open of these exhibitions, free of charge to the public, prove an advantage or a detriment when the annual show is held? It has been stated that the free weekly exhibitions of the Massachusetts Horticultural Society have militated against the attendance at its general exhibitions. The same objection may have been experienced in other places. It would therefore seem a wise policy to restrict the number of exhibitors of admission to these monthly shows, having in view the financial success of the annual exhibition. It would more likely be ensured when the people are accustomed to making a payment in connection with all flower shows, than if they are admitted free to all except the annual one.

We hope to see these monthly shows become still more popular in our clubs; that if that possibility, if all will, will be met by the public. A general monthly show, restricted to club members only, is the better plan. It is a matter of sense; while on the other hand, the benefits accruing from open exhibitions will be the same. The exhibition should be held at an early hour; or the doors could be closed in time to allow the business portion of the day to be completed, before a late hour, as is now done in several cities.

### Naming Chrysanthemums.

A difficulty, not hitherto experienced, so far as we are aware, has just arisen in connection with chrysanthemum nomenclature. Last year a seedling yellow Japanese variety named "H. C.," which was exhibited before the committees at Chicago and New York, but it failed to come up to the scale requirements necessary to be certificated. For that reason we assume the R. Y. (Mr. Grove P. Lawson, of Elmira, N. Y.) discarded the variety, but as it was named the same name, he presents another seedling chrysanthemum, this time a white Japanese inured, for adjudication by the various committees.

Now the question comes up, Can the Chrysanthemum Society of America certify the new variety that has been named to it a name which has already been bestowed upon a variety that has never entered into commerce, whose appearance before the committees was its first and last on earth, and which, to all intents and purposes, is dead?

The answer to this question will to a large extent, depend upon whether or not the variety named is a new one. If the answer be the committees are equivalent registration, and whether, seeing the variety named, the exhibitor had a chrysanthemum world than the presentation and christening stage, the committee should give its sanction of publication of the name such variety here.

In a matter of this kind there must, of course, be a duplication of names and varieties in a work to which the Chrysanthemum Society has already given its sanction, and in which it has been fairly successful. This, it has accomplished, through its efforts, and it is to be regretted. Despite its vigilance, however, there have been established precedents for Mr. Lawson's case. The variety named is the varieties Philadelphia and William Simpson; and while these may be adjudicated favorably, it is not likely to prove the validity of the practice.

It has been argued that priority of

name is maintained by several factors among them, the most important being, according to the Paris Code of Botanical Nomenclature, the date of the International Botanical Congress, is held "to consist of the . . . distribution among the public of the name of the variety." In 1896, the name of the variety "H. Chlawick in 1896, belongs that name, whether such variety was disseminated prior to or after the date of the Congress cannot perpetuate that name because the original seedling so named has ceased to exist, and no one has, to the same reason, could any other grower claim that name from him for the purposes of applying it to another seedling chrysanthemum. In other words, the name must live or die with the variety first holding it, so far as the chrysanthemum family is concerned.

This is an important point, and opens up another phase of naming chrysanthemum seedlings. The Society has hinted that it "would be well for those who exhibit seedlings under number to also provide the committee with a name to be used in case the variety is considered, and the name to be used in the certificate to be named rather than number." This liberal suggestion, as we believe, was thrown out by the committee, and the name of this kind: A grower may desire to compliment a friend, relative or acquaintance, and name an exhibit in honor of a chrysanthemum, and be naturally willing to bestow the name upon a certificate to be given to the exhibitor, and be popular. He would feel it an insult to the latter to have the seedling become the property of the committee. The Society foreseeing this contingency, and in order not to permit such acts under number; but expressed the preference to *certificates* worthy kinds, and the name to be used in the certificate his friend's disappointment following upon rejection. That being so, there is no objection to the name of the exhibitor, one name, however great may be the anxiety to pay the compliment. Exhibit the name of the exhibitor, and the certificate that does gain a certificate, then christen it—and all will be well.

It should be most abundantly that "one-name" practice is very evident, and we feel sure to no one is it more patent than in the case of the exhibitor. It is to be the aim of every chrysanthemum grower to render as high as possible the value of his name, and to be regarded as regards duplication of names and varieties, and one of the strongest and most important reasons for the same, is the cooperation by the association of some rule covering cases similar to the one under discussion. The name of the exhibitor, if used for a chrysanthemum and made public, can never be applied to another chrysanthemum under any circumstances.

### From Small Beginnings.

Some institutions, like large business enterprises, had their origins in small beginnings. One of these was the New York Exchange, Thirty-fourth street, New York, the origin of which was widely told last Wednesday by John Nicol, of Jersey City, in the deliberations upon the advisability of securing Clinton Market for a permanent plant market for New York City. The origin of the Exchange is of historical interest, and not generally known, we think it worth mentioning here. The first grower to cater to the New York cut-flower trade was the late John Henderson, of New York. He was succeeded by John Johnson, and to sell from door to door, so to speak, from his home in Jersey City. He was followed by the retailers, anxious to secure the flowers at the earliest moment, met Mr. Grove P. Lawson, of Elmira, N. Y., and the first street, and adjournment was had to the saloon located there, which for many years and to the present day, has congregated in the back parlor of the saloon, where they huddled together, they discussed the business of the day. It was the brighter and more progressive minds conceived the idea of securing the present Clinton Market for a permanent plant market. The beginning has proved an uninterrupted success, the investment having for several years returned to the exhibitor, paying a dividend of no less than 10 per cent. Here each grower has his stand,



## WESTERN BOX.

OPEN TO ALL . . . FREE TO ALL  
Answers Solicited from Those Who Know.

(144) **Hydrocyanic Acid Gas in old Green-houses.**—Can hydrocyanic acid gas be used on violets in small quantities in old houses that are very open, although ventilation? Will the gas rise to the upper or lower end of house? Which is the better for use—night or day?—  
H. H. NORRIS, N. J.

—Hydrocyanic acid gas may be used under the conditions named in Mr. Norris's letter. It is not believed, however, that the results which would be obtained under such circumstances would prove satisfactory, the gas would hardly be open to allow the gas to escape in such quantity as to render ventilation unnecessary, the plants would hardly be killed; and, on the other hand, if the house is not sufficiently open to allow the gas to escape after twenty or thirty minutes, the plants might suffer severely. The gas diffuses very rapidly to all parts of the house. It should be used at night and only on nights when the temperature is high enough to allow a thorough ventilation for at least an hour.  
F. H. DOUGLASS, Assistant, Division of Plant and Physiological Pathology, U. S. Department of Agriculture.

(145) **Utilizing old Building Material, etc.**—We have four V-shaped houses, 100x10, two V-shaped houses 20x100, etc., which we intend moving to re-building. Would you use the 6-foot rafters on 10-foot houses for short-span, and the 12-foot rafter on 20-foot houses or long-span, and make the whole range 3-span; or are some small houses preferable for general florist stock; or, in other words, were you to build new 15,000 sq. ft. houses, you would make the houses all 3-span for general florist stock?—M. F. CO.

A direct reply to the above inquiry cannot be given, as it would depend largely upon the extent of the land available for greenhouse purposes. Its grades, and the location of the property with regard to the points of the compass. Assuming the land to be about level and of ample area, the best shape of the greenhouses for general purposes, would be their length about north-south, with their length running north and south. The reason for this preference are, first, because such a house receives the greatest possible duration of sunlight; the sun on rising over in the east, penetrates one slope of the roof; at midday it shines through both slopes, and enters the western slope in the afternoon, and in all cases, excepting for a short period in the middle of the day, casting the least possible shadow of the roof bars, which is that made by the angle of the sun above the horizon. It is but slightly increased. Secondly, convenience and consequent economy of labor in hauling the material to any one level, thus avoiding the expense and inconvenience of the steepled benches of the present type-span houses, and the wear and tear of climbing around them. Thirdly, greater ease in control of the temperature, as the air is more likely to contain one-half to five cubic contents than the three-quarter-span shape, and it also

has the protection of the potting shed and offices at the north end.

The three-quarter-span shape of house has but one merit, namely, that it receives a little less shade from the bars at midday, and gets its sunlight slightly longer than the other shape. It is worthy of more consideration in connection with the growth of some kinds of stock, but for general purposes, the disadvantages are: first, the absence of sunlight through the roof in the earlier and later portions of the day; secondly, the increased shadow of the depth of the bars interfering; cold northern exposure, and the expense of building and repair in consequence of the high north side, and the expense and inconvenience of the steeper benches.

HENRY W. GIBBONS, New York.

(146) **Diseased Carnation Folage.**—Find enclosed diseased carnation foliage, please let us know cause and what remedy to apply. There are only a few plants of big break affected. These were particularly young ones when they were planted, the man who planted them also tied them up as soon as they were planted, and they grew together, and when water was applied some of it remained in the center and, I think, caused the trouble.—MRS. E. HAYS.

—The enclosed specimens reveal the presence of what is commonly termed as "black rot." This disease is of a fungus nature, and will make its appearance whenever plants are deprived of light and more particularly when they remain on the plants. The treatment the plants have received since housed, as regards tying up and watering, is just precisely how they became affected, or what caused a spread of the pest; as it is very common to water plants to originate in the field, particularly if the bottom branches rest on the ground, and to tie up a plant with a string. To abate the trouble, untie the plants and allow them to stand at least partially open, and if the plants are already put black mould to flight. To expedite matters give the plants a good hand watering, and if the plants are in a free circulation of air, for in no other way can the disease be kept from spreading. If the plants are in a head watering is a detriment to the health of the carnation. During winter months, if the plants are in a head watering, if the foliage is kept dry. When given water, apply it to the soil directly.  
—H. WATSON.

**PROPAGATING LATE BLOOMERS**

The propagation of late blooming varieties should be commenced as early as the stock at your disposal is limited. By a timely commencement good results will be obtained, thus rendering it unnecessary to scrape every available pip together, regardless of the quality of the material. In order to propagate early and keep the cuttings growing to a healthy, vigorous condition, the best way to make such varieties profitable.

Carnation plants which do not come into flower until late in the season, or even later (as some varieties will do) when they have had improper treatment, can be made profitable and saleable. Some may deem this forcing, or continual burying along, detrimental, and that when persisted in year after year, it will cause deterioration. On the contrary, nothing is further from the truth, when better results are obtained as a result of careful judgment and judicious management and culture, always keeping within conservative limits, we can be assured that we are imitating Nature.

New and scarce kinds should also be propagated at once, and as soon as possible, planted in the open, and given a few inches of good soil, well enriched, about 2½ or 3 inches apart each side, and covered with a layer of soil to a good height before cutting back. To grow late varieties, it is necessary to sow early in the ground. This practice is one of the severest checks which a small plant can receive. It is necessary to sow early to the ground. This practice is one of the severest checks which a small plant can receive. It is necessary to sow early to the ground. This practice is one of the severest checks which a small plant can receive.

I have before dwelt on the injurious effects of cutting back carnations early in the ground. This practice is one of the severest checks which a small plant can receive. It is necessary to sow early to the ground. This practice is one of the severest checks which a small plant can receive. It is necessary to sow early to the ground. This practice is one of the severest checks which a small plant can receive.

cuttings, in every way. I think, as good as slips taken from old plants.

The danger of propagating from young plants lies in taking the slips from roots which are sufficiently well hardened. When propagating from the young plants, the danger lies in the fact that the young plants are not sufficiently hardened, and the liquid manure may be injurious to the young stock plants which can be handy to use in the propagation of carnations of all kinds. They will also make excellent subjects for early blooming in the open ground, and the results will prove very profitable. H. WEBER.

**A New Stake.**

The cut herewith shows a new invention for the support of lilies and other tall single stem plants. The support consists of stiff wire rod, the desired height, with two short wires fraily twisted near the lower end so that these and the end of the original wire form a triangle. This triangle will spread and driven into the ground makes the whole stand firm. The inventor of this triangle is Mr. Theron Parker, who is also the inventor of the model carnation support.

**The Glass Trade Strike.**

The price of glass continues to advance, and the shortage of stock is up as much as 40% since work has been stopped. There is a shortage of stock in the country. Florists' supplies are particularly scarce, but most of the trade have brought all they want for this season.

**Buffalo**

**Thanksgiving Notes.**  
Pleasant weather at Thanksgiving time gave trade some impetus, and while the weather was not so good as existed for all the good blooms available, some kinds inclining to scarcity for the week. The weather has become colder and wintry, three inches of snow on Wednesday morning this week, attesting the severity of the weather.

New enterprise is taking on full swing in the store line. Harry J. Millatt announces the establishing of a new store at 515 Main street.

Behind the screened windows of 588 Main street, Thrall & Peck are still preparing new quarters. They promise to open in a few days.

Mr. Bradford has added another branch to his former two places of business. This third one at 104 Elk street, where no doubt he will secure a large share of the East side business.

Progress in the new conservatory in the Dotter's Garden is well advanced, owing to irregularities in details preparation. It is expected that the winter will be a success again. The chrysantheums attracted the most of the visiting public, and recently, and a display of numerous orchids is in good promise for the near future.

**Recent Visitors.**

Lloyd B. Pease, Lockport; Gustavus Schoenfeld, Westfield; J. H. Gould, Middleport; John Holbe, of Hildesheim, Ont.; J. A. Valentine, Denver, Col.; J. E. Killen, N. Y. City.

**Niagara Falls, N. Y.**

Vineat & Co. have newly opened a flower store on Falls street, in a central business location. The "Co." of this concern is a local florist, and carries a locally noted violet grower, and who will largely supply the stock for this new venture.

E. A. Butler's houses show an improved look throughout, he reporting also a fair business this Fall, but collections slow.

John Dobbin has retired from his store on the east side of the river. On the occasion of our recent visit at his home place at Niagara Falls, Ont., he was in the best of health, and chrysantheums in profuse numbers. His young roses show up the also. The store of Mr. Dobbin has been sold, and he has passed into the hands of A. N. Whittier.

**Baltimore.**

**The Year.**  
The battle between the chrysantheum and other children of the floral world has ended; again peace reigns and the florists are glad to see the first of their heads with pride. Prices have advanced, Stock shortened, especially at the beginning of the year. The market for the trade were busy. Stock continues in good demand. Violets are very scarce.

**Jottings.**

All the rift is agitated in regard to holding a stock cut year. All recognize the vast importance of giving one; but the great drawback is the money for a guarantee fund. "From nothing comes nothing."

Several growers and dealers have their businesses in the market for sale. Dealers in Dutch bulbs are not so well satisfied with the result of this year's trade. Tulips have sold better than hyacinths. Crocuses and the finer varieties of narcissi have been sold out.

Sam Frost & sons have obtained a fine crop of asparagus seed; they are remarkably successful with this specialty.

EDWIN A. SELDREY.

**Syracuse, N. Y.****Thanksgiving Trade.**

Trade has been exceedingly lively during the past week, almost every available flower being sold. Thanksgiving business is not so good as it was in spite of the wretched weather which prevailed during the week, in fact the same may be true. Tulips have sold better than hyacinths. Beauty were the flowers most called for, and sold at \$5 to \$9 per dozen. Sam Frost & sons have brought in such as much as \$3 per 100, roses other than Beauty, \$1 per dozen. A few valley were sold at a profit. The weather is not so figure here until Christmas. This seems to be a mistake on the part of the growers. The weather has been so cold at this time of year, and it pushed a little it would sell readily.

The annual meeting and banquet of the Central New York Horticultural Society will be held at the St. Cloud Hotel on Wednesday afternoon. The afternoon session will dispose of business and the evening will be devoted to talks by prominent men. The attendance of women has been sent out to neighboring florists and a large attendance is expected.

C. B. DANSON.

**Brooklyn, Mass.**

Trade was good during Thanksgiving week, but has again fallen of some. Copeland & Cooper had a big wedding trade. The annual meeting of the Florists' Club met November 30, and was previously arranged. A constitution and by-laws were adopted. The meeting was held at the first Tuesday of each month, and the Metropolitan Hotel will be used for that purpose. The meeting was very successful, and a general horticultural society rather than a florists' society was recommended, and with that object in view, it was decided to obtain a charter as soon as possible. The meeting was very successful, and a general horticultural society rather than a florists' society was recommended, and with that object in view, it was decided to obtain a charter as soon as possible.

John D. Belmont, treasurer; Carl J. Dane, 243 Kildergan street; Brockton, secretary; H. E. Farrow, 100 South Street; and A. Copeland, Brockton; C. Maynard, North Easton; and C. E. Field, 100 South Street.

Other carnations on exhibition.

**Malden, Mass.**

Frank J. Walsh, son of John Walsh, and his wife, Mrs. John Walsh, were the victim of a serious shooting accident last week. The patient was shot in the chest by a loaded revolver by a young clerk, one of the chamber was discharged, and the bullet entered the chest, severing the facial nerve and burying itself in his neck. He now lies in a private hospital, and the patient is quite comfortable.

Wm.

They are fresher  
are good on NICOTINE  
are good on NICOTINE  
are good on NICOTINE  
are good on NICOTINE

are good on NICOTINE  
are good on NICOTINE  
are good on NICOTINE  
are good on NICOTINE  
are good on NICOTINE

are good on NICOTINE  
are good on NICOTINE  
are good on NICOTINE  
are good on NICOTINE  
are good on NICOTINE



## SITUATIONS WANTED.

Rate, 10 cents per line of words, each insertion, both with orders. The rate applies only to situation wanted advertisements and when not enclosed a deposit of \$1.00 for the advertisement in our care and 10 cents to cover expenses of forwarding.

COLIN OGSTON, West Atlanta, Georgia, now open for an engagement as a first-class grower of wholesale or retail stock.

SITUATION wanted, florist, age 25, able to take charge of private or commercial plant, 10, 15, 20, 25, Philadelphia, Pa.

SITUATION wanted by an experienced grower, S. strictly sober; to take charge of wholesale or retail stock in an office or store, Philadelphia, Pa. Address New York, care Florists' Exchange.

## WANTED.

Situation by American all-round florist; good propagator and designer; violets, roses, carnations, good references. Private place preferred. J. P. H., Hinfanger Springs, Ct.

## HELP WANTED.

## WANTED

A seedsman fully capable of buying, selling, and generally managing a seed department. Please send references. Address New York, care Florists' Exchange.

THE GEO. A. WEAVER COMPANY,  
19 Broadway, Newport, R. I.

## WANTED.

An assistant (single man) in a commercial place. State wages expected, with board. Address P. O. Box 35, Sing Sing, N. Y.

## MISCELLANEOUS WANTS

## WANTED.

150 ft. additional pipe, 12 or 14 inch. Preference given to one of price is right. Address, box 504, Westfield, N. J.

HOT-HOUSE TOMATOES  
AND MUSHROOMS WANTED.

BRADLEY REFIELD, Commission Merchant,  
11 West Street,  
Market prices and prompt returns guaranteed. Write for cards and quotations. Address New York, care Florists' Exchange.

## WANTED.

To buy or rent a greenhouse establishment or dwelling house and ground, suitable to build upon, in a healthy location near New York City. Address, with full particulars, Responsible, care of this paper.

## BUSINESS OPPORTUNITIES

## TO LET.

Florist Establishment with good local trade, near New York. Good for an enterprising party. Address H., care Florists' Exchange.

## FOR SALE.

Greenhouses, in one of the best cities in Wisconsin. A good investment and a money maker for a hustler. Owner must retire on account of poor health. For particulars, write

ELLIS & POLLWORTH,  
MILWAUKEE, Wis.

## Address List ...

The Nursery and Seed Trade Postal and Telegraphic Address List, 1897.

An alphabetical list of the nurserymen, seedsmen, florists, growers in horticultural sundries, wholesale florists and commission salesmen of the United Kingdom. This book will be of great service to all desiring to establish a trade connection with those on the "other side."

Price, postpaid, 50 cts.

A. T. De La Mare Ptg. and Pub. Co. Ltd.,  
2 Duane Street, New York.

When Writing Mention Florists' Exchange

Concluded from page 1095.

SEEKING CHRYSANTHEMUMS AND CAR-  
NATIONS.

Selected seedlings, premium society's certificate of merit:

Yellow, ten blooms—H. Graham's Pennsylvania.

Pink, ten blooms—E. G. Hill & Co.'s Autumn Glory.

Red, ten blooms—E. G. Hill & Co.'s Black Hawk.

Bronze, ten blooms—E. G. Hill & Co.'s Madison.

Any other color (light W. Buckbee's Mrs. Robert R. Hitt (light pink).

First year's seedlings:

White, two blooms—First, E. G. Hill & Co.'s Exhantres; Second, E. G. Hill & Co.'s Onyx.

Yellow, two blooms—First and second prizes divided between three seedlings, all given by E. G. Hill & Co.—Genuine Gold, Caroline, and Elma.

Pink, two blooms—First, E. G. Hill & Co.'s Clo.

Red, two blooms—E. G. Hill & Co.'s Phil Sheridan.

Bronze, two blooms—E. G. Hill & Co.'s Any Other color, two blooms—Second, E. G. Hill & Co.'s Percival (pink).

## SPECIAL MENTION.

Tested seedlings, carnations:

Twenty, pink, not lighter in color than William Scott—Stollery Bros'; Argyle; W. N. Ridd, No. 16.

Twenty, pink, lighter in color than William Scott—Hopp & Lempe, Kathleen Fausell.

Chrysanthemum:

Yellow chrysanthemum—E. G. Hill & Co.

White chrysanthemum—E. G. Hill & Co.

The judges made honorable mention of the goose plant shown by W. H. Chadwick.

The Society's certificate of merit for best twenty blooms, carnation seedlings, not lighter in color than William Scott was given to Peter Fisher for Mrs. Thomas Lawson.

Best vase of roses, W. J. Smyth, a magnificent four-foot high stand of Mme. Salmon; first; second, Art Floral Co., Kaiserin and Erie.

Best vase of chrysanthemums, went first, W. J. Smyth, a fine group of Helen Floodgood; second, John Alois, with Verdand-Morel.

Best specimen plant in bloom, other than chrysanthemum, five entries, a six-foot stand of geraniums finely flowered, exhibited by George Bakvin, gardener to Nathan Meigs, Esq., got first; a double white bush geranium, second, W. N. Ridd.

Fred. Dornier & Son, Lafayette, Ind., exhibited at the show a white seedling carnation named Mary Wood; first; Queen, a very pure white, No. 11-94, light pink, No. 82-94, pink, Gold Nugget, a very deep yellow. It was very noticeable how well the old standard by Lizzie McGowan showed up in several of the exhibits. It is the white set for general purposes around here.

EDGAR SANDERS.

## Chrysanthemum Society of

## America.

## Secretary's Official Report.

Since last report, seedlings have been examined and reported as follows:

CHICAGO, November 20, 1897.

Mrs. C. H. Peirce, exhibited by F. Dornier & Sons Co.; La Fayette, Ind.; Japanese, deep yellow, scored, commercial scale, 90 points.

Stellata, exhibited by Nathan Smith & Son, Adrian, Mich.; Japanese reflexed yellow, scored, commercial scale, 83 points.

Insitigue, by same exhibitors; Japanese incurved, light bronze, scored, commercial scale, 85 points.

Merza, by same exhibitors; Japanese incurved, white, scored, commercial scale, 85 points.

Madison, exhibited by E. G. Hill & Co., Richmond, Ind.; Japanese incurved, bronze, scored, commercial scale, 79 points.

November 27.

Wm. H. Chadwick, exhibited by Grove P. Rawson, Elmira, N. Y.; Japanese incurved, blush white, scored, commercial scale, 93 points.

Mr. W. B. Brown, exhibited by Theo. Bock, Hamilton, O.; incurved, white, scored, commercial scale, 75 points.

Boston, November 20.

Arline, exhibited by Nathan Smith & Son, Adrian, Mich.; incurved, white, scored, commercial scale, 90 points.

Thornden, by same exhibitors; Japanese deep chrome-yellow, scored, commercial scale, 92 points; exhibition scale, 94 points.

Mrs. C. H. Peirce, exhibited by F. Dornier & Sons Co.; Japanese, bright yellow, scored, commercial scale, 91 points.

November 27.

Wm. H. Chadwick, exhibited by G. P. Rawson; Japanese incurved, white, scored, commercial scale, 92 points; exhibition scale, 93 points.

PHILADELPHIA, November 20.

Spotswood, exhibited by Robert G. Carey, Chestnut Hill, Pa.; incurved, light yellow, scored, commercial scale, 91 points; exhibition scale, 88 points.

Mina Nevada, exhibited by John N. May, Summit, N. J.; Japanese pink, scored, commercial scale, 81 points; exhibition scale, 77 points.

Dolores, by same exhibitor; scored, commercial scale, 84 points; exhibition scale, 85 points.

Mrs. C. H. Peirce, exhibited by Fred. Dornier & Sons Co., La Fayette, Ind.; incurved, yellow, scored, commercial scale, 90 points; exhibition scale, 87 points.

November 27.

W. H. Chadwick, exhibited by Grove P. Rawson, Elmira, N. Y.; Japanese incurved, blush white, scored, commercial

scale, 80 points; exhibition scale, 89

points.  
Sport from Mrs. Jerome Jones, exhibited by Ferdinand Heck, Reading, Pa.; Japanese incurved, light yellow, scored, commercial scale, 90 points; exhibition scale, 90 points.

Our Old friend, exhibited by W. K. Hoyle, Philadelphia, Pa.; Japanese incurved, canary-yellow, scored, commercial scale, 89 points; exhibition scale, 88 points.

NEW YORK, November 27.

Wm. H. Chadwick, exhibited by Grove P. Rawson, Elmira, N. Y.; Japanese incurved, light yellow, scored, commercial scale, 86 points.

CINCINNATI, November 20.

Arline, exhibited by Nathan Smith & Son, Adrian, Mich.; incurved, white, scored, commercial scale, 84 points.

Insitigue, by same exhibitors; Japanese incurved, bronze yellow, scored, commercial scale, 75 points.

Mrs. C. H. Peirce, exhibited by F. Dornier & Sons Co.; Japanese reflexed yellow, scored, commercial scale, 87 points.

No. 169, exhibited by E. G. Hill & Co., Richmond, Ind.; Japanese incurved, white, scored, commercial scale, 81 points.

Mrs. W. B. Brown, exhibited by Theo. Bock, Hamilton, O.; Japanese incurved, white, scored, commercial scale, 84 points.

NOTE—Stellata was exhibited as Klio, and the change was made to avoid a clash with Klio, exhibited this season.

Thornden was shown as Golden Gem; the change was made necessary as the latter name has been applied already to a chrysanthemum. In last report No. 131 listed as Klio, of Chicago, should have read 83 instead of 87 points.

ELMER D. SMITH, Sec'y.

Boston.

State of Trade.

November has not, as a whole, been a successful month for the florists, proving as it has with many dealers, the winter record, however, with the advent of December better things are looked for, and with more reasonable weather the chances are good that the winter will materialize. Last week was good in all directions, and Thanksgiving gave all hands a good rest, but the winter has been a decided drop and conditions are but little more favorable than they were two or three weeks ago. Chrysanthemums are still coming in in more than sufficient quantities to supply demand. Carnations and roses are abundant and violets have dropped in price very nearly 50 per cent. But the winter has been a reasonable and unfavorable and good, as seen by the florists of this section are hoping for.

The wholesalers all speak in satisfaction of the trade. The florists' trade. Business has held with them in other lines and the distant dealers are lying in wait for their stock of supplies. Sample Holly has made its appearance at Sutherland's and will be in the other stores in a few days. It was only a few weeks all hands will doubtless find ample opportunity to work off their supplies.

Wholesale.

The garden committee of the Massachusetts Horticultural Society visited the estate of David Nevins, Esq., at South Framingham, on Wednesday, to see Alex. McKim's collection.

Winifred Rolker has been about town for some days.

Galvin & Co. are having good success with the large consignments of Hartsell Blue that they have secured.

Manager Kennedy of the Flower Market was made happy last week by the arrival of a fine stock of supplies.

Last Friday and Saturday the upper and lower halls of the Horticultural Building were filled with the plants of the Massachusetts school children competing for the herbarium prizes offered by the Society. It was an interesting collection indeed.

The December meeting of the Boston Gardeners and Florists Club will occur next Tuesday evening.

Paul Berkowitz, of Philadelphia, has been looking up trade in Boston.

W. K. W.

## The Water Garden

BY WILLIAM TRICKER.

PRICE, \$2.00. 25 per cent. off to subscribers to American Gardening and Florists' Exchange.

This work contains nine beautiful plates, eighteen full page descriptive views of leading Water Gardens and Ponds, and numerous smaller pictures prepared with special reference to this work. On heavy enameled paper.

Elegantly bound. Large octavo.

The text describes all operations from the growing of plants in tubs to the large water garden, excavation of grounds, construction of ponds, adapting natural streams, planting, hybridizing, seed saving, propagation, the aquatic house, wintering, correct designing and planting of banks and margins, and all other necessary details.

A. T. DE LA MARE PTG. & PUB. CO. LTD., P. O. Box 1657, New York City

Mutual Fire Insurance, mutual  
Hail Insurance and a membership in  
a recognized Protective Association,  
are good holdings. Secure them and  
breathe freely.

New York.

Wholesale Market.

The boom of last week was short-  
lived. On Sunday it was gone and so far  
this week has not returned. Saturday  
was a good day; Monday and Tuesday  
very poor, with but little, if any im-  
provement since. Business for the week  
has been extremely light and uncertain.  
Strenuous efforts have been made to  
maintain the quotations of last week,  
but it has been impossible, except at in-  
tervals far removed, and then only for  
small quantities. The supply generally  
has been very light and had there been  
anything like a brisk demand, fancy  
prices would have possible; but the  
fancy trade was only able to take care of

now seen are Indiana, Invincible, Lib-  
erty, The Harriet, a few Mrs. Jean-  
Jones, and some strugglers that have  
missed their season.

Carnations are again on the down  
track, having weakened in value consid-  
erably from last week. No. 1 stock  
ranges from \$1.50 to \$2.25 per 100;  
novelties vary from \$3 to \$5 per 100.  
Quite a large list is included among these,  
two very popular ones being Victor and  
Flora Hill. Lower grades and blooms  
two days old, command only \$1 per 100,  
and are often retailed at this figure.

Violets are scarce, the pick being very  
light indeed; but this is fortunate at the  
present time, for the demand is lighter  
still and prices have dropped from those  
of last week. \$1.50 is the top notch,  
with 75c. and \$1 the most prevalent  
taking figures, and sales have been made  
at much lower rates. Considerable spec-  
ulation prevails concerning the future of  
this crop. Some dealers, thinking that  
the demand is going to be good and that  
the supply light all winter, are making very

enth and Seventy-eight streets under  
the firm name of Hauff & Milling. In the  
same block L. Hart has leased commodi-  
ous premises and will erect a greenhouse  
in the rear and probably hopes to have a  
very handsome store ready for business.  
The West End Hort. Co. has the title of  
another new concern, between Eighty-  
fourth and Eighty-fifth streets West  
of the Hudson, and has formerly em-  
ployed by H. Hession, is the manager.  
Another recently established business is  
that of the Hoffman, Seventy-  
eighth street West and Boulevard.

Auction Sales.

These sales are still in full swing,  
and a general assortment of plants is  
being offered.

Ch. H. Weis, Stettin, Germany, arrived  
in New York, Sunday last, per S. S.  
Pennsylvania, bringing with him 9,000  
German-grown roses, including 200  
Marshall Niel (standards). W. J. Elliott  
will sell these, with other stock, Tues-  
day.

J. P. Cleary & Co., on the same day  
will offer large shipments of Ghent  
roses, named rhododendrous, roses,  
bulbs, etc.

A Prominent Sportsman.

The sporting publications are giving  
Ernst Asmus considerable prominence  
at the present time. He is now looked  
upon as one of the foremost sportsmen  
of the day. This honor is the result of  
his recent shooting trip in Newfound-  
land. When other sportsmen are not  
only shot his limit by law, but succeeded in  
killing several large animals on  
record. The authors show 52 points.  
Efforts are being made to get this grand  
sportsman ready for the coming Sports-  
men's Exhibition at Madison Square  
Garden, but it is feared the taxidermist  
will not be able to get it out on time.

Omaha.

Thanksgiving trade was very light,  
probably owing to the inclemency of the  
weather. First-class stock is scarce, and  
the best of the chrysanthemums are over-  
sold. J. F. Wilcox and McPherson & Reed,  
both growers and wholesalers of Council  
Bluffs, Iowa, have opened up retail  
stores in that city. J. F. Wilcox at 521  
Broadway, and McPherson & Reed at 6  
Pearl street. Council Bluffs is now well  
supplied with retail stores. A. D.

Society of American Florists.

The proceedings of the thirteenth an-  
nual meeting of the Society of American  
Florists, held at Providence, R. I., in  
August last, has now been received. The  
book contains the full transactions and  
deliberations of the Society. In the  
appendix some new features are this year  
presented. A detailed statement of the  
receipts and disbursements of the super-  
intendent of the trade exhibition is  
given, showing the total receipts from  
this feature to have been \$645,91. of  
which \$110.66 is reported outstanding.  
The expenditures foot up \$542.44. In ad-  
dition to the unpaid bill of the carpenter  
which amounts to \$60.

Cat Flower Exchange, 34th St.

The later hour at which this mar-  
ket now opens is giving great satisfac-  
tion, and this center is receiving very lib-  
eral patronage. Carnations are at the  
present time one of the leading features;  
these are seen here in great quantities  
and of excellent quality.

New Enterprises.

A new store has been opened on  
Madison avenue between Seventy-sev-

**JOHN CONLEY & SON,**  
MANUFACTURERS OF  
**TIN FOIL**  
2 and 4 Domicil Street,  
**NEW YORK.**  
When Writing Mention Florists' Exchange

**CHRYSANTHEMUMS.**  
Fine stock plants of White and Pink Ivory,  
Marion Henderson, Glorioso, John E. Laver,  
Glorv of Pacific, Marquis de Montmort, Mrs.  
Henry Robinson and Yellow Queen.  
**60c. PER DOZ.; \$3.00 PER 100.**  
**JOHN HOAC, SING SING, N. Y.**  
When Writing Mention Florists' Exchange

**PRIMROSES**  
Extra strong plants, not drawn, from 3 in.  
pots, "Dree's choice strain," at \$5.50 per 100;  
also 2 in. at \$10.  
**CENTRE ARIA, 3 in. at \$2.50 per 100.** Ex-  
ceptionally fine stock for prices quoted.  
**HENRY M. HUMFELD,**  
900 E. Wabash St., - - Frankfort, Ind.  
When Writing Mention Florists' Exchange

**FERNS.**  
In fine assortment, from  
\$14 in. pots, \$3.75 per 100;  
2 1/2 in. \$3.00 per 100.  
**CHAS. T. DARLING, Stony Brook, L. I. N. Y.**  
When Writing Mention Florists' Exchange

**ROSES**  
**100,000 STRONG PLANTS FROM**  
**2 1/2 INCH POTS.**  
Bride, Bridesmaid, Sambroil, Duke of Edinburgh, Mrs. Perrot Fiere, La France, Vallee de Chamouni, Marie Van Houtel, C. de Neve, Mme. Schwiter, Souv. de Wootton, Dr. Grill, Papa Goodier, Mrs. Golden Gate, G. de Watisville, Gen. Robt. E. Lee, M. de la Roche, Princess de Sagan, M. de la Roche, Malmison, Pink Souper, Snowflake, Mamie Cochet, Sufrano.

**PRICE**—\$25 per 100; \$20.00 per 1000; by mail, 25c. per 100 additional. No order accepted for less than 100, and 5000 for one thousand rates.

**Samples 25 cts., prepaid.**  
**R. H. MURPHEY, Urbana, Ohio.**  
When Writing Mention Florists' Exchange

**Seventy-Five Per Cent.**  
Please stop my advertisement for the present as I am all sold out, thanks to the ECONOMER. Fully three-fourths of the orders come through your paper.  
**DENIS ZIRNGEBEL,**  
Needham, Mass., Oct. 21, '97.



Aquatic Pond in Boston Public Garden.

The higher grades and could in no way  
help to work off the poorer stock.  
Street stands and fakirs have had mat-  
ters pretty much their own way, and  
stocked up heavily, but they in turn  
failed to sell, that class of business  
also being light.

In roses, long stem, fancy, and special  
Beauty have not yet passed the \$4 per  
dozen mark; in fact, that figure is the  
exception not the rule, more selling for  
\$2 and \$3 per dozen, and quantities of  
high-grade flowers only realize \$10 per  
100. The quality, generally speaking, is  
excellent. Good Bride, as against Brides-  
maid, is hard to sell; extras and specials  
of the last named are being looked for.  
There are too many of inferior grades;  
and as a rule, small roses are very poor  
in quality. While the cut of Meteor is very  
light, it also is having a hard time.  
Chrysanthemums are nearly over, and  
no steady price exists; there are but few  
that exceed \$2 per dozen. The varieties

tempting offers to growers. One retail  
storekeeper has made an offer of \$2 per  
100 to a certain grower to supply him  
direct with 5,000 per day for the months  
of January and February, and the bal-  
ance of the present month. There was a  
good deal of this kind of juggling three  
years ago, and then the growers got the  
worst of it; the contracts not being bind-  
ing. They were set aside at the very first  
shump.

# Our 1898 Catalogue

We can illustrate and print it for you, and the  
work will be well done, and delivered on time.  
We have the experience and every facility.  
First come naturally best.

A. T. De La Mare Ptg. & Pub. Co., Ltd., Nos. 2 to 8 Duane Street, New York.

WEEKLY MAGAZINES AT REDUCED PRICES for 1898. Save Money by ordering them through us.

Below we print a comprehensive list of the leading publications of the day. When more than one is wanted in club will be pleased to send you an estimate.

Our list has been carefully selected, and the price at which we offer magazines, etc. in club with the Florists' Exchange has been made as low as possible, in order to induce our friends to place their orders through us...

The first column of figures (A) indicates regular yearly subscription price; the second column (B) our price, including THE FLORISTS' EXCHANGE for one year.

Table with 4 columns: Magazine Name, Price (A), Price (B), and General-Cont. Price (A). Includes titles like American Agriculturist, Breeder's Gazette, Country Gentleman, etc.

Table with 4 columns: Magazine Name, Price (A), Price (B), and Horticultural, etc. Price (A). Includes titles like Canadian Horticulturist, Garden and Forest, Gardening (Chicago), etc.

Table with 4 columns: Magazine Name, Price (A), Price (B), and Poultry. Price (A). Includes titles like Poultry Review Advocate, American Poultry Review, Farm Poultry, etc.

Table with 4 columns: Magazine Name, Price (A), Price (B), and General. Price (A). Includes titles like Advance (Cong's) new, American Field, American Kitchen Magazine, etc.

Pittsburgh. Trade Improving. For the last few weeks trade has been moving along nicely and looks as if it would continue so for the balance of this year. Thanksgiving business was very satisfactory...

The News. Secretary Loughans, of the Florists' Club, has been on the sick list the past week. Superintendent Falconer, of Shenley Park, is back from his visit to Washington and the East...

Cincinnati. Market News. Thanksgiving week business improving much, and all good stock in the market sold off rapidly and at good prices...

John W. Knaz, the genial manager of the Florists' Club, is limping about and nursing his right foot very tenderly. Cause his fondness for the popular game of Rugby and a large stone that was in front of the ball when he attempted to kick a goal.

Knnoxville, Tenn. H. Youell has left this place, having secured a position as a private gardener in Chicago. This has been the most remarkable Fall on record. As yet we have not had a killing frost, and gardens are quite gay...

NEPTIS STOK CHRYSANTHEMUM STOCK. SPECIAL LOW PRICES FOR NOVEMBER.

Strong, dormant root, of the following...

CYCLAMEN. Doz. 100... 5.00... 5.00...

Maranta bi-color, line for det. Doz. 100... 5.00... 5.00...

SEAWANAKA GREENHOUSES, OYSTER BAY, QUEENS CO., N. Y.

NICE PLANTS, at \$3.50 a 1000. Cash with order.

JOS. H. CUNNINGHAM, Delaware, Ohio When Writing Mention Florists' Exchange

CYCLAMEN GIGANTEUM 3 in. pots in bud and...

FARQUHAR VIOLETS Strong plants that will bloom this Winter...

CHRYSA NTHEMUMS STOCK PLANTS FROM BENCH.

CHAS. L. MAR-HALL, LOWELL, MASS. When Writing Mention Florists' Exchange

GERANIUMS PREPAID 100,000 rooted cuttings...

A Surprise Collection FOR \$1.00

THE MORRIS FLORAL CO. MORRIS, ILL. When Writing Mention Florists' Exchange

CHAS. TRAUTH, 410 Lincoln Road, FLATBUSH, L. I.

Order at once and secure strongest stock at cheapest rate. We have thousands of plants of Novelties and Standard Varieties, in strong, healthy condition.

Novelties.—Bock's, Hill's, May's, N. Smith's, Spaulding's and others, \$2.00 per 100.

Commercial Varieties.—Merry Smooth, Bergmann, Mrs. H. Robinson, Helen Wright...

Cyclamen for Christmas. PANSIES. Large plants in bud and bloom, finest colors...

J. C. SCHMIDT & CO., Bristol, Pa. Wholesale Pansy Grower.

LARGE PANSIES FOR THE JENNINGS STRAIN. FLOWERING. They are the finest to date.

SEED, FINISH MIXED, at \$1.00 per pig. 60¢ per oz. Cash with order.

E. B. JENNINGS, 115 Southport, Conn. GROWER OF THE FINEST PANSIES.

REAR'S PANSIES FINE PLANTS. CARNATIONS. My experiences with the old and the new will be ready November 15th...

ALBERT M. HERR, - - - Lancaster, Pa. When Writing Mention Florists' Exchange

100,000 VERBENAS. THE CHOICEST VARIETIES IN CULTIVATION.

Fire pot plants, \$2.50 per 100; \$20 per 1000. Rooted Cuttings, 75 cts. per 100; \$6.00 per 1000.

\*NO RUST OR MILDEW\* Packed light and satisfaction guaranteed. Send for circular.

NEW WHITE CHRYSANTHEMUM FRANK HARDY

The mid-season market white of the future, indispensable for the market grower and for the exhibitor.

A. HERRINGTON, Florham Farms, MADISON, N. J. When Writing Mention Florists' Exchange

CYCLAMENS! CYCLAMENS!! BEFORE ORDERING ELSEWHERE, DON'T FAIL TO PAY US A VISIT AND SEE THE FINEST CYCLAMENS IN THE COUNTRY.

10,000 nice, dwarf plants, in full bloom for Christmas, in 5, 6, 7, 8 inch pots, and 10 and 12 inch pans.

10,000 PRIMULAS extra fine plants, in 5 inch pots, in good bloom, \$12 to \$15 per 100.

CHAS. TRAUTH, 410 Lincoln Road, FLATBUSH, L. I. When Writing Mention Florists' Exchange

Field-Grown VERBENAS Dormant Stock.

Flourishing and Polyantha sorts, Hermosa, Queen Scarlet, D. D. Brandant, Minuteman, Mms. Cecile...

Doz. 100... 5.00... 5.00... Rooted Cuttings, Best Mammoth, \$3.00 per 100...

CYCLAMEN Pereland giganthemum in bud and bloom...

GERANIUMS. All the leading sorts, pot plants and rooted cuttings. Prices on application.

MISCELLANEOUS. Aceratum, blue and white, at \$1.00 per 100...

WOOD BROS., Fishkill, N. Y. When Writing Mention Florists' Exchange

2 YEAR OLD ROSES 2 YEAR OLD... These Roses have been potted some time and have made nice healthy growth...

PERPETUAL BLOOMING ROSES. Clothilde Soupert, Leonie Osterheim, Mme. DeWavrin...

CLIMBING ROSES. Two year old plants in the following varieties, \$1.00 per doz; \$8.00 per 100...

CLIMBING ROSES. Two year old plants in the following varieties, per doz., 75¢; per 100, \$6.00.

HYBRID PERPETUAL ROSES. Two year old plants in the following varieties, per doz., 75¢; per 100, \$6.00.

JOHN A. DOYLE, - Springfield, Ohio. When Writing Mention Florists' Exchange

ES. Leadoff varieties. Write for prices.

CUT SMILAX, 15 cents per string. CHOICE CUT ROSES, \$3.00 per 100.

PANSY PLANTS, strong, \$4.00 per 100. THE NATIONAL PLANT CO., Dayton, Ohio.

BUDED CYCLAMEN and PRIMULAS JUST RIGHT FOR CHRISTMAS.

CYCLAMEN in 4 colors, in 4, 5, 8 inch pots, extra fine...

ROOTED GERANIUMS Double Giant, Mme. de la Roche, Tulliant and La Favorite...

THE FLORISTS' EXCHANGE is the most perfect fact in the floriculture of the U. S. W. B. DUFFY, Mattituck, L. I., June 8, 97.

**J. K. ALLEN,**  
Wholesale Commission Dealer in  
**CUT FLOWERS,**  
57 W. 28th St., New York.  
Orders by mail or telegraph promptly attended to.  
Telephone Call, 382-2813 St.  
**ROSES AND VIOLETS SPECIALITIES.**

**W. S. ALLEN,**  
17 West 28th St., New York.  
Correspondence Solicited.

**J. B. EZECHEL,**  
Wholesale Florist,  
42 West 28th St., NEW YORK.  
Telephone 2733-1810.  
Asparagus, Valley, Carnations, Specialities,  
Carnations Sold.

**FORD BROS.**  
**WHOLESALE FLORISTS,**  
111 West 30th Street,  
NEW YORK.  
Consignments Solicited. Telephone 202-2812 St.

**WM. H. GUNTHER,**  
Wholesale Florist  
VIOLETS AND CARNATIONS A SPECIALTY.  
Consignments Solicited.  
30 West 29th St., New York.  
Telephone, 202-2818 Street.

**MICHAEL A. HART,**  
Wholesale & Commission Florist,  
113 W. 30th St., New York.  
Telephone Call, 1307-3823 St.  
All kinds of Roses, Violets and Carnations  
& Specialities.  
**ORDERS PROMPTLY ATTENDED TO.**

**H. A. HOFFMANN,**  
Wholesale Florist  
44 W. 29th St., New York.  
Telephone Call, 1553-3812 St.  
American Beauties, White Violets, Admans,  
Specialties. CONSIGNMENTS SOLICITED.

**EDWARD C. HORAN,**  
**WHOLESALE FLORIST,**  
No. 34 W. 29th St., New York.  
The Bride, Mornnet and American  
Beauty, Specialities.

**J. M. KING,**  
Wholesale Commission Florist,  
49 W 29th St., NEW YORK CITY.  
Wishes to inform growers and others, that he has  
arranged his place to handle three times his former size,  
and now will be able to handle a much larger quantity  
of stock than before.  
CONSIGNMENTS SOLICITED.  
Telephone 1672-325.

**JULIUS LANG,**  
Wholesale Florist  
53 WEST 30th St.,  
CONSIGNMENTS SOLICITED. NEW YORK.

When Writing Mention Florists' Exchange

**ERNST C. ASMUS**  
Wholesale Florist.  
**ROSE SPECIALITIES:**  
Arl. Beauty  
Bride  
Bridemaid  
Toucan  
K. A. Victoria  
VIOLETS, GERANIUMS, CHRYSANTHEMUMS  
AND CARNATIONS.  
Grover of the only VALLEY receiving a N.Y. CUT FLOWER CO.  
World's Fair Medal. 116-121 W. 23d St.  
Special attention given to shipping orders. 112-114 W. 24th St., N.Y.  
When Writing Mention Florists' Exchange

**A. L. VAUGHAN.** **O. HAS. W. MCKELLAR.** **E. F. WINTERSON**

**VAUGHAN, MCKELLAR & WINTERSON,**  
**WHOLESALE COMMISSION JOBBERS**  
In Cut Flowers, Plants, Bulbs, Seeds, Xmas Holly, Bouquet Green,  
and all Florist Supplies. Manufacturers of Wire-work.  
45, 47, 49 WABASH AVENUE, CHICAGO, ILL.  
When Writing Mention Florists' Exchange

**\* Wholesale Prices of Cut Flowers \***

NAMES AND VARIETIES	NEW YORK	BOSTON	PHILADELPHIA	CHICAGO	ST. LOUIS
	Dec. 3, 1897	Dec. 2, 1897	Dec. 2, 1897	Dec. 1, 1897	Nov. 30, 1897
A Beauty, fancy and special	25.00 to 31.00	20.00 to 25.00	35.00 to 40.00	15.00 to 20.00	25.00 to 30.00
"extra	10.00 to 15.00	10.00 to 15.00	25.00 to 30.00	5.00 to 10.00	10.00 to 15.00
No. 1	10.00 to 15.00	10.00 to 15.00	25.00 to 30.00	5.00 to 10.00	10.00 to 15.00
Cutis and ordinary	2.00 to 4.00	4.00 to 10.00	6.00 to 12.00	5.00 to 7.00	10.00 to 15.00
Beauty	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
Bride	1.00 to 2.00	3.00 to 6.00	4.00 to 8.00	3.00 to 6.00	5.00 to 8.00
Bridemaid	1.00 to 2.00	3.00 to 6.00	4.00 to 8.00	3.00 to 6.00	5.00 to 8.00
V. A. Victoria	1.00 to 2.00	3.00 to 6.00	4.00 to 8.00	3.00 to 6.00	5.00 to 8.00
L. France	1.00 to 2.00	3.00 to 6.00	4.00 to 8.00	3.00 to 6.00	5.00 to 8.00
Mornnet	1.00 to 2.00	3.00 to 6.00	4.00 to 8.00	3.00 to 6.00	5.00 to 8.00
Alle Lestoff	1.00 to 2.00	3.00 to 6.00	4.00 to 8.00	3.00 to 6.00	5.00 to 8.00
Mrs. F. Morgan	1.50 to 5.00	3.00 to 6.00	4.00 to 8.00	3.00 to 6.00	5.00 to 8.00
Nightie Louise	1.00 to 2.00	3.00 to 6.00	4.00 to 8.00	3.00 to 6.00	5.00 to 8.00
Papa Outlay	1.00 to 2.00	3.00 to 6.00	4.00 to 8.00	3.00 to 6.00	5.00 to 8.00
Ferie	1.25 to 4.00	3.00 to 6.00	3.00 to 6.00	2.00 to 3.00	2.00 to 4.00
Sons de Woodson	1.00 to 2.00	3.00 to 6.00	4.00 to 8.00	3.00 to 6.00	5.00 to 8.00
Ulrich Brother	1.00 to 2.00	3.00 to 6.00	4.00 to 8.00	3.00 to 6.00	5.00 to 8.00
Walden	1.00 to 2.00	3.00 to 6.00	4.00 to 8.00	3.00 to 6.00	5.00 to 8.00
ADAMANTS	1.00 to 2.00	3.00 to 6.00	4.00 to 8.00	3.00 to 6.00	5.00 to 8.00
A PARADISE	1.00 to 2.00	3.00 to 6.00	4.00 to 8.00	3.00 to 6.00	5.00 to 8.00
CARNATIONS	1.00 to 2.00	3.00 to 6.00	4.00 to 8.00	3.00 to 6.00	5.00 to 8.00
Specials	1.50 to 3.00	3.00 to 6.00	4.00 to 8.00	3.00 to 6.00	5.00 to 8.00
ALL colors, interior	15.00 to 20.00	10.00 to 15.00	20.00 to 25.00	10.00 to 15.00	20.00 to 25.00
White	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
STANDARD	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
VARIETIES	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50	1.00 to 1.50
*FANCY	1.50 to 2.50	1.50 to 2.50	1.50 to 2.50	1.50 to 2.50	1.50 to 2.50
(V. A. Victoria) Pink	1.50 to 2.50	1.50 to 2.50	1.50 to 2.50	1.50 to 2.50	1.50 to 2.50
(V. A. Victoria) Red	1.50 to 2.50	1.50 to 2.50	1.50 to 2.50	1.50 to 2.50	1.50 to 2.50
(V. A. Victoria) Yellow	1.50 to 2.50	1.50 to 2.50	1.50 to 2.50	1.50 to 2.50	1.50 to 2.50
(V. A. Victoria) White	1.50 to 2.50	1.50 to 2.50	1.50 to 2.50	1.50 to 2.50	1.50 to 2.50
(V. A. Victoria) Other	1.50 to 2.50	1.50 to 2.50	1.50 to 2.50	1.50 to 2.50	1.50 to 2.50
CARNATIONS	25.00 to 35.00	20.00 to 25.00	30.00 to 40.00	15.00 to 20.00	25.00 to 30.00
Lilies-Auratus	10.00 to 15.00	10.00 to 15.00	12.00 to 15.00	10.00 to 12.00	12.00 to 15.00
Longiflorum	4.00 to 5.00	4.00 to 5.00	4.00 to 5.00	4.00 to 5.00	4.00 to 5.00
Lily of the Valley	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00	3.00 to 4.00
MIDWINTER	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
NARSISUS, Paper White	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
ROMAN HYACINTHS	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
SNELLS	6.00 to 10.00	5.00 to 10.00	12.00 to 15.00	10.00 to 12.00	12.00 to 15.00
VIOLETS	7.00 to 15.00	1.00 to 1.50	7.00 to 15.00	1.00 to 1.50	7.00 to 15.00

For Prices of Fancy and Special Stock see our Correspondence Columns.  
Prices are quoted for quantities of one hundred unless otherwise noted.  
Prices quoted above are given only when very careful buyers and while we do not  
warrant their accuracy, they will be found practically correct up to the date mentioned.

**REINBERG BROS.,** Wholesale Growers of Cut Flowers.  
..... 5,000,000 Feet of Glass.  
We can fill all orders on short notice with all leading varieties of ROSES and  
CARNATIONS. We are headquarters for fine AMERICAN BEAUTIES.  
Give us a trial and convince yourself.  
**SALESROOM 51 Wabash Avenue, CHICAGO, Ill.**  
When Writing Mention Florists' Exchange

**SAMUEL S. PENNOCK, WHOLESALE  
FLORIST.**  
A fine stock of Roses, Valley, Carnations, Smilax, Etc., coming in, of which  
we can fill orders on the shortest notice.  
**EXTRA FINE STOCK OF BEAUTIES.**  
Fine crop of CYPRIDIUMS, now ready, \$2.00 per hundred.  
1612-1614 Barker St., Bet. Chestnut & Market Sts., Philadelphia, Pa.  
Local and Long Distance 'Phone 5310. Open until 8 P. M.  
When Writing Mention Florists' Exchange

**CITY HALL CUT FLOWER MARKET**  
15 PROVIDE ST. and 9 Chapman Place,  
**WELCH BROS.,** (Long Distance Telephone 2071), Boston, Mass.  
New England headquarters for Choice Chrysanthemums, American  
Beauties, and other varieties of Roses, Carnations, Violets, etc. Orders  
can be filled promptly from the produce of sixty-five well equipped  
Hardy Ferns, Southern Smilax, Galax Leaves, always on hand.  
When Writing Mention Florists' Exchange

**MacDonald & McManus,**  
Wholesale Florists  
AND DEALERS IN  
**CUT FLOWERS,**  
50 W. 30th St., NEW YORK.  
A select assortment of Cut Flowers on Com-  
mission. Best market prices guaranteed.  
Telephone, 372-2818 Street.

**FRANK MILLANG,**  
Wholesale Commission Dealer  
...in Cut Flowers...  
408 East 34th St., New York City.  
Cut Flower Exchange. Telephone Call, 304-2828.

**THE NEW YORK CUT FLOWER CO.**  
119-121 West 23d Street,  
112-114 West 24th Street,  
Telephone 733-1325. NEW YORK.  
CONSIGNMENTS SOLICITED.  
Special Attention Given to Shipping Orders.

**M. F. SHERIDAN**  
Wholesale Commission Dealer in  
**CUT FLOWERS**  
39 West 28th St., New York.  
Telephone, 214-2818 St.  
PRICE LIST SENT ON APPLICATION.

**FRANK H. TANSELD, CHARLES SCHENCK,**  
**TREANDY & SCHENCK,**  
Wholesale Florists,  
38 W. 28th St. and CUT FLOWER EXCHANGE,  
NEW YORK.  
Telephone 921-1818 St.  
Consignments Solicited

**JOHN WYCK,**  
Wholesale Florist,  
51 WEST 28th St.,  
NEW YORK.

**FRANK S. HICKS,**  
Wholesale Florist,  
40 BOERUM PLACE,  
Tel. 1225 Brooklyn. Brooklyn, N. Y.  
Consignments Solicited.

**C. A. KUEHN,**  
WHOLESALE FLORIST,  
1122 Pine St., St. Louis, Mo.  
A COMPLETE LINE OF WIRE DESIGNS.

**C. W. WORS,**  
Wholesale Florist,  
913 N. LEFFINGWELL AVENUE,  
ST. LOUIS, MO.  
FINE ROSES—Shipped carefully to all  
parts of the country.

**Buffalo Cut Flower Exchange**  
WHOLESALE COMMISSION.  
CONSIGNMENTS SOLICITED.  
481 Washington St., BUFFALO, N. Y.  
When Writing Mention Florists' Exchange

**Wholesale Florists**      **JOBBER IN**  
ALWAYS OF HAND:  
 CARNATIONS,  
 GIBBERNADI,  
 VASES.

*N. F. W. Carter*      **FLORIST'S**  
**SUPPLIES.**  
**FLORISTS' VASES.**  
 Horticultural Architects,  
 84 HAWLEY STREET, - BOSTON.

N. B. . . . . N. B.  
**Growers, Dealers and Buyers,**

WE ARE OPEN AND READY FOR BUSINESS AT

4 Ordway Place, BOSTON, MASS.  
**GALVIN & CO.**  
 Wholesale Florists and Dealers in all Florists' Supplies

Fully equipped for Cut Flower Consignments, and can command the best market. . . . .

When Writing Mention Florists' Exchange

**GEO. A. SUTHERLAND,**  
 Successor to WM. J. STEWART,  
**CUT FLOWERS and FLORISTS' SUPPLIES**  
**WHOLESALE.**  
 67 Bromfield St., Boston, Mass.

**WM. J. BAKER,**  
**Wholesale Florist**  
 1432 So. Penn Square,  
 Philadelphia, Pa.

**DUMONT & CO.,**  
**WHOLESALE FLORISTS**  
 CARNATIONS A SPECIALTY.  
 No. 1 05 Filbert St., Philadelphia.  
 'Phone 3622 D.

**S. FROWERT,**  
**Wholesale Florist,**  
 17 North 13th Street,  
 PHILADELPHIA, PA.  
 Consignments Solicited. Special Attention Given to Shipping Orders.

**Titusville, Pa.**  
 W. Bay will open a new down-town store on December 7.

**Omaha, Neb.**  
 McPherson & Reed have opened a down town store at G Pearl street.

**Anderson, Ind.**

During the past Summer Stuart & Haugh consolidated two plants, which were widely separated. They have erected six new houses and added 70 feet to boiler shed. Three of the new houses are each 100 feet by 20, and three 100 feet by 10 feet. They now have eleven houses, and more than 2,000 feet of glass, all of modern construction.

**Holyoke, Mass.**  
 The Shaw Co. were rushed with funeral work at time of my visit, so I did not call over the hill to the plant of E. J. Howland who has had a remarkable run upon chrysanthemums. This may be owing to his success at the recent show held at Springfield, where of seventeen entries he secured fifteen premiums. His grower, Harry Snelser, has quite a batch of seedlings, one, a beautiful white from Mutual Friend and Queen, promises well.

**Hagerstown, Md.**

Henry Holzappel has a fine house of roses, and of carnations. His Beauty and Ferkel are extra fine. Overy is a specialty of this establishment, and one can see acres of this celery as is grown anywhere.

W. H. Bester has a good lot of Kaiser roses; his carnations also are looking well. His store under Hotel Hamilton is a drawing card here. Mr. Bester has built up an extra fine trade.

Mr. Bester, a brother of the above, grows a large lot of carnations and chrysanthemums. His roses this year are remarkably fine.  
 A. Jaenicke, successor of Mrs. Dayhoff, had some fine Robinson and Philadelphia chrysanthemums on exhibition which were a great credit to him.

EDWIN A. SELDENWITZ.

**CHAS. H. MILLER,**  
**Wholesale Florist**  
 No. 6 So. 19th Street,  
 PHILADELPHIA, PA.

**EDWARD REID,**  
**Wholesale Florist**  
 1526 RANSTED STREET,  
 Bet. Market & Chestnut Sts., PHILADELPHIA.  
 All CUT FLOWERS in Season.  
 'Phone 3066 A.

**CHOCOLATE COOLER CO.,**  
**GRAND RAPIDS, MICH.**

**FLORIST'S REFRIGERATORS.**  
 Send for Circular.

When Writing Mention Florists' Exchange

\*\*\*\*\*  
**"JADOO"**  
 \*\*\*\*\*  
 FIBRE and LIQUID are used and endorsed by the leading growers. Try them and be convinced.  
 \*\*\*\*\*

When Writing Mention Florists' Exchange

NOW A PRINTED NOVELTY!  
**Floral Calendars**

For Florists  
 Novel and Original  
 A Harmony of Art and Nature  
 Very Flowery Effects  
 Extolled by Everybody  
 Variety in Styles and Sizes  
 Prices Moderate  
 Needed Now by Every One  
 Samples mailed on receipt of 20 cents in stamps

**DAN'L B. LONG, Publisher,**  
 BUFFALO, N. Y.

When Writing Mention Florists' Exchange

**WM. C. SMITH,**  
**Wholesale Florist,**  
 40 S. 16TH ST.,  
 PHILADELPHIA.  
 Roses, Carnations, etc. Consignments Solicited.

**HEADQUARTERS** in Western New York. Try us  
**ROSES, CARNATIONS and ALL SEASONABLE FLOWERS.**  
**WM F. KASTING,** Wholesale Commission Florist  
 495 Washington Street, BUFFALO, N. Y.  
 Also Dealer in Florists' Supplies & Wire Designs

**GOLD FISH.**  
 Fine Healthy Stock.

Medium to large size, \$10.00 per 100. Cash with order. No charge for shipping cases. Gold Fish can be shipped by Express thousands of miles with safety and are a profitable and attractive stock to handle. Full line of Aquaria Supplies.

**KEANAN'S SEED STORE.**  
 6112 and 6114 Westworth Ave., CHICAGO.  
 When Writing Mention Florists' Exchange

HAVE YOU EVER TRIED  
**THE MEYER GREEN SILKALINE?**



Price \$1.25 per lb. For sale everywhere. Fancy colors for trim purposes. JOHN C. MEYER & CO., 82 Sumner Street, Boston, Mass., U. S. A.  
 When Writing Mention Florists' Exchange

**REED & KELLER**  
 When Writing Mention Florists' Exchange

**Emil Steffens** SUCCESSOR TO N. STEFFENS AND STEFFENS BRO.  
**FLORISTS**  
 ESTABLISHED WIRE DESIGNS AND SUPPLIES.  
 335 EAST 21<sup>ST</sup> STREET, NEW YORK CITY  
 When Writing Mention Florists' Exchange

**KENNICOTT BROS. COMPANY,**  
**Wholesale - Cut - Flowers,**  
 88 Wabash Avenue,  
 CHICAGO, ILL.  
**WIRE WORK A SPECIALTY.**

**ROGERS PARK FLORAL CO.,**  
**Wholesale Growers of Cut Flowers**  
 OFFICE AND GALLERY,  
 41 WABASH AVE., CHICAGO.  
 Headquarters for AMERICAN BEAUTIES.

**MAX RUDOLPH,**  
**Wholesale Florist**  
 All Seasonable CUT FLOWERS.  
**FINE ROSES.**  
 Shipping orders a specialty. Consignments \$ 11 W. 12th St., - CINCINNATI, O.

**H. L. SUNDERBROCK CO.,**  
**Wholesale Commission Florists,**  
 4th and Walnut Streets,  
 CINCINNATI, OHIO.  
 Consignments Solicited. Special Attention Given to Shipping Orders.

**St. Louis**  
**Cut Flower Co.**  
**WHOLESALE FLORISTS,**  
 1620 Olive St., ST. LOUIS, MO.

**E. G. HILL & CO.,**  
**Wholesale Florists,**  
 RICHMOND, INDIANA.

When Writing Mention Florists' Exchange

**Boston Florist Letter Co.**



This wooden box nicely stained and varnished, 18x30 fit made in two sections, one for each size letter, gives 300 lines of type on 600 letters.  
 (Type 1000) 2 1/2 inch size, per 100, \$2.00  
 (Type Letters) \$4.00  
 Fully guaranteed and for sale by all florists, florists and supply dealers.

**N. F. MCCARTHY, Treas. & Manager,**  
 250 N. BOSTON, MASS. - or -  
 100 N. BOSTON, MASS.

When Writing Mention Florists' Exchange

**FLORISTS' SUPPLIES**  
 122 W. 25th Street,  
 NEW YORK CITY.

**Philadelphia.**

**Market News.**

The market the past week has been in much better condition; cut flowers have been rather scarce and prices have, as a result, become firmer. Choice roses are in good demand; the majority of the stock, however, is of second grade. Beauty is now bringing \$5 per dozen for choice flowers, which are selling very readily. Good Carnot are selling at \$8 and \$10 per 100; choice Bridemaid, Bride and Kaiserin at \$6 per 100, a few extra choice bringing \$8.

Carnations are very scarce. A few extra good ones, including some new varieties, are selling at \$2 per 100. The bulk of the stock of good flowers sells at \$1.50 per 100. The quality of the flowers is much improved, but the stems are yet rather short. White flowers have been scarce and in demand all week; in fact, many choice flowers sell almost as soon as they arrive. Violets have also been in good demand; choice doubles are selling

this city now has a model commission house.

**Florists' Club.**

The regular monthly meeting will be held on Tuesday next, at this meeting Robert K.H. will review the new chrysanthemus introduced this year. A large attendance is expected. The club room is now well patronized, the alleys being in use every night and some good scores are recorded. A. L. Brown had the highest score the past week of 210. The averages for November were: First class, A. L. Brown, 157; second class, David Rust, 131; third class, Wm. Rohler, 127. DAVID RUST.

**Cleveland.**

**Thanksgiving Trade.**

Thanksgiving week brought with it the most pronounced boom in trade in almost every line; a heavy demand for cut flowers, while the demand for deco-

**Bowling Club.**

The Florists' Bowling Club met on Monday evening last, and it was decided to arrange for "ladies night" on Monday evening of next week. A committee consisting of H. A. Hart and Wm. Stadle was appointed to secure light requirements. An enjoyable time is expected by the members.

**Notes.**

The range of houses owned and operated by G. W. Helsler & Co., situated on Euclid avenue, east, and it was decided recently been leased by the Bates Bros., four young men well known to the trade in this city. They will make rose growing a specialty.

C. Merkle & Sons, Mentor, Ohio, have just completed two new houses of latest design, 10x100 ft. built 3/4-span, short span to south. These two houses are now filled with carnations in excellent condition; the stock in one house covers entirely of seedlings.

F. E. Kilen, representing C. H. Joosten, New York, was a visitor this week.

**Washington, D. C.**

The florists here have organized the Commercial Florists' Association. A constitution and by-laws were adopted, and the following officers were elected: J. R. Freeman, president; Robert Bowler, vice-president; John Boyle, secretary; F. H. Hart, treasurer. President Freeman appointed an auditing committee, consisting of J. H. Ley, G. Henson, and J. R. Freeman. It was agreed that the association should meet every second or third Tuesday, beginning this month. The object of the association is to prevent the free distribution of cut flowers, and to secure for the florists claim that if the distribution should be stopped the wages of their employees could be raised from 10 to 25 per cent. ...

**Davenport, Ia.**

Last Monday morning Chas. Danbacher had his boiler shed and one greenhouse destroyed by fire and some plants destroyed by frost. To estimate the loss \$2,000.

H. L. Bills has been ill and confined to the house for the past fifteen weeks, but is now convalescing.

**Fall River, Mass.**

The greenhouses of John Wright, 459 Snell street, were last week damaged by fire to the extent of \$450. Overheated pipes caused the blaze.

**Plainfield, N. J.**

Brooks Carson is suing the Central Railroad of New Jersey for \$200 for damage done to his plants, which he alleges to have been caused by the carelessness of the railroad employees handling the boiler during transit.

**Wesley, R. I.**

Louis Reuter, son of S. J. Reuter, the Beach street florist, is home from the Agricultural College at Kingston.

**A Decorated Hansom.**

The illustration is from a photograph of a hansom decorated with flowers, etc., by T. J. Totten in connection with the recent celebration. The angle iron top was filled in with white asters and a few cape flowers. The sides of the hansom were decorated with tall strings of carnations of pink and white asters, with white doves dotted here and there as if they were to be sent to the owners. The side window was a star made of red geranium flowers. The wheels were first covered with cloth, then with yellow hydrangea blooms, a frame that fitted each wheel being covered with yellow linum and a piece of ribbon to match the asters in pink and white were tied here and there. Pampas plumes were placed on each side of the horse's head and the harness was covered with hydrangeas made into small roping and tied in or twisted to harness. The door of the hansom was banked with hydrangeas.

**MASSTICA**

For Glazing Greenhouses. A substitute for putty. Superior in every way. Sold in 5 lb. cans. Made in U. S. A. MACHINES were given Highest Award of S. A. F. at Pittsburgh. Address for circular, F. D. PIERCE CO., 170 Fulton St., N. Y.

**Hot-Bed Sash**

Tenons white-laced. Corners secured with ironed-down pins. Every detail of construction perfect. Made of Clear Cypress Lumber.

**Quick Shipments.**  
We have in stock and can ship immediately:  
3 ft. x 6 ft., 3 rows 10 in. glass,  
3 ft. 3 in. x 6 ft., 4 " 8 in. "  
4 ft. x 6 ft. 6 " 8 in. "  
Not glazed, 1 1/4 in. thick.

**Delivered Prices.**  
Quoted on application. State size and quantity wanted. No order too small to receive careful attention, and none too large for our facilities.

**LOCKLAND LUMBER CO.,**  
Lockland, Ohio.  
When Writing Mention Florists' Exchange

**MYERS & CO.,**  
**Greenhouse Builders,**  
Steam and Hot Water Engineers,

1614-1620 S. Ninth St., Philadelphia.  
When Writing Mention Florists' Exchange



**SUMMER IN WINTER**  
By Using  
**Standard Greenhouse Boilers**

One cent gets you Catalogue.  
**GIBLIN & CO.,** - Utica, N. Y.  
When Writing Mention Florists' Exchange



**CYPRESS**  
IS MUCH MORE DURABLE THAN PINE.  
**CYPRESS SASH BARS**  
UP TO 3 1/2 FEET IN LENGTH OR LONGER.  
**GREENHOUSE**  
AND OTHER BUILDING MATERIALS.  
Send for our illustrated book "CYPRESS LUMBER AND ITS USES."  
Send for our special Greenhouse Circular.  
**THE T. STEARNS LUMBER CO.,**  
Newport News, DORSET, MASS. E.  
When Writing Mention Florists' Exchange



Hansom Decorated for Saratoga Fête by T. J. Totten.

at \$1.25 to \$1.50. There has been much more call for the large singles during the past week.

Valley brings \$4 to \$6, according to quality, and is selling well. Saxifex realizes 15c., and is in sufficient supply for all demands. Romas are selling fairly well, so far, at \$3 per 100.

The retail stores have all been doing a fairly good business. The list of young ladies "coming out" this season appears to be very large, and teas have been quite numerous. The flower work appears to have been very evenly distributed; bouquets are ordered more freely than in some time past. The list of balls for this city for the coming season is a large one, and from present indications the season will be a good one for the florists.

**Japanese Plants.**

An auction sale of the dwarf hardy evergreen trees, peculiar to Japan, was held at Davis & Harvey's rooms the past week, and some very high prices were obtained, which was quite unexpected. Some of the dwarf trees, from two to three feet in height, sold at \$60 to \$80 each. The plants were from the Japanese Tea Garden at Atlantic City.

**Jollies.**

Louis B. Eastburn has been sending in to W. J. Baker a few blooms of a new white seedling carnation, which bids well to become a grand variety. It has a stiff stem, the flowers being fragrant, of good substance, and it has proved to be an excellent keeper.

Sam S. Fenwick has now completed the alterations at his wholesale commission store, and has a very commodious establishment. He has acquired the adjoining property, and taken down the dividing wall, making one large room. He will use the new addition for grading and shipping purposes. He also has added a new refrigerator, which is 8 feet deep, 10 1/2 feet high, and 12 feet long. The office has also been enlarged, and

rative work was fully equal to that of former seasons. Most stock which has been so plentiful was closely used up, and a decided advance in prices was shown. On Wednesday evening very little good stock was available. At the present writing prices remain about the same as they did a week ago, and while trade has shown some falling off, it still remains brisk, and most dealers feel greatly encouraged over the outlook.

**Present Values.**

Roses.—Some kinds are now very short, retailing at \$1 to \$1.50 per dozen; wholesale prices are \$4 to \$6 per 100. Beauty, some very good home-grown stock is in demand, but it is not so plentiful as out of town; retail prices \$4, \$5, \$6 per dozen; wholesale \$6 and \$10 and upwards, according to quality.

Carnations have taken a decided leap upward as regards prices; wholesale prices are getting up to \$6, to \$1 per 100 a few weeks ago, the growers now realize \$1.25 and \$1.50 on good stock, and the indication is that good carnations will be in very short supply before long. Retail prices range from 35c. to 50c. a dozen. Romas are now quite plentiful, and sell at retail at 75c. and \$1 per dozen. Growers retail at \$3 per dozen.

Some Hartsill blooms were seen; excellent stock, but not home-grown, now selling at \$3 per dozen.

Violets are exceedingly short, and those offered are of none too good quality. Local growers seem to have none to offer. Stevia holds a prominent place on the retail counter, and is now much used in floral work. It retails at 50c. per dozen. Chrysanthemums are about gone, and their absence not only causes a greater demand for other flowers in decorative work, but leaves a bare spot on the retail counter and in the show window that is difficult to cover with the limited variety of flowers now in market. The blooms offered sell at \$1 to \$2 per dozen.

# LORD & BURNHAM CO.,

Horticultural Architects and Builders Steam and Hot Water Heating Engineers.

(Established 1856.)

Plans and estimates furnished on application for Greenhouses, Conservatories, and all kinds of Horticultural Buildings, erected complete with our patent iron construction; or for material only, ready for erection.



Largest Builders of Greenhouse Structures. Plans and construction embrace latest improvements. Six highest awards at the World's Fair. . . . .

NEW YORK OFFICE: 160 FIFTH AVE., COR. 21ST ST. GENERAL OFFICE AND WORKS: IRVINGTON-ON-HUDSON, N. Y. When Writing Mention Florists' Exchange

**IF YOU WANT A GOOD SASH LIFT**  
For a Very Little Money Get



For Descriptive Catalogue Send to J. D. CARMODY, Evansville, Ind

**CYPRESS GREENHOUSE MATERIAL**  
OF ANY DESCRIPTION.  
SEND FOR CATALOGUE.

JOHN C. MONINGER CO.  
412 N. 425 WASHINGTON AV. CHICAGO, ILL.

When Writing Mention Florists' Exchange

**GLASS** FOR GREENHOUSES, CONSERVATORIES, GRAPERIES, HOTBEDS AND FLORISTS' USE GENERALLY, AT LOWEST RATES.  
L. H. FERRELL & SON, 147 W. BROADWAY, NEW YORK, 119 LIBERTY ST., NEW YORK  
When Writing Mention Florists' Exchange

**DON'T SYRINGE WITH COLD WATER**  
It lowers the vitality of your Stock, but write for particulars of my Tempering Apparatus  
**HENRY W. GIBBONS,** 134 LIBERTY STREET, NEW YORK.  
When Writing Mention Florists' Exchange

**GLASS!** For Greenhouses, Conservatories, Graperies, Hotbeds and all other purposes, at Lowest Rates. **GLASS!**  
N. COWEN'S SON, 392 & 394 West Broadway, New York, Formerly 124 and 126 So. Fifth Ave.  
Get our Figures before buying Glass. Estimates Freely Given  
When Writing Mention Florists' Exchange

**CALIFORNIA RED CEDAR**  
Never Decays.  
A. DIETSCHE & CO., 610 Sheffield Avenue, CHICAGO.  
MANUFACTURERS OF RED CEDAR AND CYPRESS GREENHOUSE MATERIAL.  
When Writing Mention Florists' Exchange

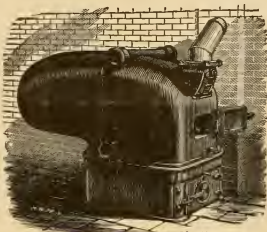
SEND FOR OUR NEW CATALOGUE, WHICH SHOWS  
**The New Automatic Cable Ventilator**  
As it is set up in the house complete. We also give you prices with a guarantee that our machine set out will operate your house economically. 801 machines now made in two sizes.  
A. Q. WOLF & BRO., Dayton, Ohio.  
When Writing Mention Florists' Exchange

**FOR GLASS AND PAINT LOW PRICES HIGH QUALITY**

# TRY LUCAS

When Writing Mention Florists' Exchange

## GREENHOUSE HEATING AND VENTILATING, Horticultural Architecture and Building.



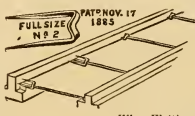
## Hitchings & Co

ESTABLISHED 1844. 238 Mercer Street, NEW YORK.

**FIVE PATTERNS OF BOILERS, NINETEEN SIZES, Perfect Sash Raising Apparatus, Rosehouses, Greenhouses, Etc., of Iron Frame Construction erected complete or the Structural Iron Work shipped ready for erection.**

Iron Frame Benches with the "Perfect Drainage Bench Tile" or Slate Tops.

SEND 4c. POSTAGE FOR ILLUSTRATED CATALOGUE.



## THE VAN REYPER PERFECT GLAZIERS' POINTS

No rights or lefts. Price per box of 1000, 60c. by mail, 75c.; in lots of 5000 by ex., 55c. per 1000

HENRY A. DREER, 714 Chestnut St., Phila., Pa.

When Writing Mention Florists' Exchange

# TRADE GREENHOUSES. THE BEST MADE.

"Florists" Get Your Plans and Estimate from **PLENTY'S HORTICULTURAL WORKS,** 148-156 Randolph Ave.; JERSEY CITY, N.J.

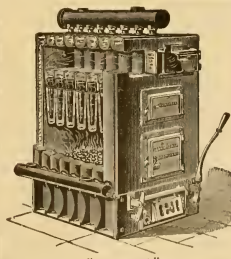
**STANDARD VENTILATING MACHINE.**

**EQUAL IT IN Strength AND Durability**

**NONE**

**NOTHING F'imsy OR Complicated about it.**

Send for Catalogue. **E. HIPPARD, YOUNGSTOWN, OHIO.**



## The Scollay Boiler FOR GREENHOUSE HEATING, ETC.

Hot Water or Steam. "FARMINGTON, Conn., March 9, 1896. The Invincible Boiler you placed in my I did not have to run the boiler hard even when the thermometer stood 18 deg. below zero. It has proved "Invincible" in every respect."  
HIGH CHESNEY, Florist.

Send Stamp for Catalogue and Price List. Estimates cheerfully given.

**JOHN A. SCOLLAY,** 74 and 76 Myrtle Ave., Brooklyn,

—AND— 231 Water St., New York.

When Writing Mention Florists' Exchange

**& CO., JOHN, 141 N. 4th ST. PHILADELPHIA NEW YORK & CHICAGO**

**Messrs. W. ELLIOTT & SONS,**  
 Will Offer at their Rooms,  
**54 & 56 DEY STREET, N. Y.,**  
 ON  
**TUESDAY and FRIDAY, DEC. 7 and 10,**  
 In all probability this will be our last sale.

**AN EXTRA LARGE LOT**  
 of Holland Grown Roses, Rhododendrons, Azaleas,  
 Buxus, Magnolias, Aucubas, Lilacs, Staphyleas,  
 Cupheas, Retinosporas, Etc., Etc.

**WM. J. ELLIOTT, Auctioneer.**

When Writing Mention Florists' Exchange

**SAVE 50% DUTY**

**ON METAL FLORAL DESIGNS** By Buying of the Manufacturer. Also on  
**PREPARED CYCAS PALM LEAVES** Largest Stock. Best Goods. Lowest Prices.  
**ALL FLORISTS' SUPPLIES SECOND TO NONE.** WRITE FOR CATALOGUE.

**A. HERRMANN.** 404, 406, 408, 410, 412 East 34th Street, NEW YORK CITY.  
 Manufacturer of METAL FLORAL DESIGNS, Importer and Dealer in FLORISTS' SUPPLIES.  
 When Writing Mention Florists' Exchange

**Florists' Supplies.**

**Largest Stock in the Country.**  
 All goods up to date, and of superior quality.  
 Write us for prices and other information.

**H. BAYERSDORFER & CO.,**  
 66 N. FOURTH STREET, PHILADELPHIA, PA.  
 When Writing Mention Florists' Exchange

**TOBACCO DUST**

Owing to a large supply on hand at present we will furnish the trade at \$1.00 per 100; \$4.50 per 500; \$5.00 per 1000; \$15.00 per 2500. Cash with order. Send for our Wholesale Catalogue on the Eastern strawberry crown, 100 other varieties. **THOMPSON'S SONS, Rio Vista, Va.**  
 When Writing Mention Florists' Exchange

**Standard Flower Pots.**  
 Send for our New Price List with sales discounts. All our Pots, from 1 in. and upwards, have our Patent Excelsior Bottom, which is a great advantage, as it insures perfect drainage.  
**A FULL LINE OF BILLS' PATENT.**  
**THE WILLIAM POWERS CO., 713 to 719 WARREN STREET, PHILADELPHIA**  
 BRANCH HOUSES: } Kenney and Westside Aves., Jersey City, N. J.  
 } Jackson Ave. and Pearson St., Long Island City, N. Y.  
 When Writing Mention Florists' Exchange

**FLOWER POTS**

**STANDARD FLOWER POTS and HANGING BASKETS**  
 OF THE BEST QUALITY.  
 Shipping Facilities First-Class, thereby Securing Lowest Freight Rates.  
 Our goods are well packed, and breakage is nominal. Give us a trial. Send for Price List.  
 address **THE SYRACUSE POTTERY CO., 403 N. SALINA ST., SYRACUSE, N. Y.**

**"JADOO"**

Plant Your Spring Bulbs in **JADOO FIBRE** Water Them With **JADOO LIQUID**

We will offer **CASH PRIZES** at all Exhibitions in 1898 for all plants grown in **JADOO** that win scheduled **FIRST PRIZES.**  
 Send for List of 1897 Prize Winners and Fullest Particulars.  
**THE AMERICAN JADOO CO., 811 Fairmount Ave., Philadelphia, Pa.**  
 When Writing Mention Florists' Exchange

**MANUFACTURED BY**  
 Fresh and well rotted horse manure, with  
 Mushroom growing a specialty. Enriches  
 soil, kills all insects, and is sold  
 and by boat. **Wm. Abernethy**  
 Philadelphia, Pa. Telephone 538



**Elixir Fertilizer**  
 In a more natural product and more nutritious for plants.  
 We invite comparison with all other FERTILIZERS and will gladly send you a FREE LIBERAL SAMPLE TO PROVE IT.  
 Send your address to **Elixir Fertilizer Co., 107 N. 14th St., New York**

**MANUFACTURED BY**  
 Fresh and well rotted horse manure, with  
 Mushroom growing a specialty. Enriches  
 soil, kills all insects, and is sold  
 and by boat. **Wm. Abernethy**  
 Philadelphia, Pa. Telephone 538



**Elixir Fertilizer**  
 In a more natural product and more nutritious for plants.  
 We invite comparison with all other FERTILIZERS and will gladly send you a FREE LIBERAL SAMPLE TO PROVE IT.  
 Send your address to **Elixir Fertilizer Co., 107 N. 14th St., New York**

**TOBACCO STEMS.**

Strong and Fresh, 300 lb. bales, \$1.50 per bale.  
**TOBACCO DUST,** \$1.00 per bag, 50 lbs.  
**MUSHROOM SPAWN, BULBS, ETC.,**  
 at lowest prices.  
**H. G. FAUST & CO., Philadelphia, Pa.**  
 When Writing Mention Florists' Exchange

**SUPPLIES**

of all kinds for Florists' stores, greenhouse and garden. Stock of choicest strains, and bulbs in season. Metal Floral Designs on cast-iron decorations. Markets. Flower-stands for the holiday trade. China and Metal Fern Baskets. Assortment of Iron-ware, Cape Flowers, Christmas Greens and Seed for plants in the house.  
**AUGUST RÖLKER & SONS,**  
 52 DEY ST., NEW YORK.  
**HOLLY**  
 When Writing Mention Florists' Exchange

**SHEEP MANURE**

Cleaned and prepared expressly for florists' use. You will find the most satisfactory, for reference to its being first-class I refer you to Henry F. Nichols, 403 West 23rd St., New York. First class \$1.10 per ton, \$2.00 per ton, \$3.00 per 1000 at 100 rate. Cash with order.

Hermon River will be taken in exchange.  
**COFFEY & SCHMIDT,**  
 1012 Ontario St. PHILA., PA.  
 When Writing Mention Florists' Exchange

**SAVE THE BLOOMS!**  
**NIKOTEEN**  
 DOES NOT INJURE SENSITIVE PLANTS SUCH AS  
**COFFEE & CHERRY**  
 OR SPRAYING INDOORS OR OUT.  
 200 POUNDS TOBACCO IN ONE PAIL INVENTED.  
 Price \$1.50 ALL SEEDS MEN.



When Writing Mention Florists' Exchange

**MILDEW & RED SPIDER DESTROYER**

Incurable for all sorts of plants which have used it as the basis for the purpose on the market to-day. It is made up of the pipes and then sprayed with water while pipes are hot and the vapor carries down over the plants and smothering them to a point 2.000 ft. of 2 in. pipe, \$1.00. Testimonials and full description in applic. circ.  
 Cash with order, please.  
**CHARLES B. STOW, Sole Manufacturer,**  
 261 West Broadway, NEW YORK, N. Y.  
 When Writing Mention Florists' Exchange

FOR SALE BY Seed Stores.

**THE BEST**  
**FOR ALL**  
**Florists.**  
**ROSE LEAF EXTRACT OF TOBACCO INSECTICIDE**



For Free Pamphlet, write to  
**LOEBSTEIN'S SPIRIT CURED TOBACCO CO.,**  
 Louisville, Ky.

When Writing Mention Florists' Exchange

**NEW PRICE LIST**

**Neponset Flower Pots**

Made of Waterproof Cardboard, of nice Terra Cotta color, etc.

Terms - Net cash with order. If ordered expeditiously, the price will be 5% below the above.

	Packed in	Gross Weight	Net Weight
2 in.	Crate of 100	10 1/2 lbs.	9 1/2 lbs.
3 1/2 in.	" " "	" " "	" " "
4 in.	" " "	" " "	" " "
5 in.	" " "	" " "	" " "
6 in.	" " "	" " "	" " "
8 in.	" " "	" " "	" " "
10 in.	" " "	" " "	" " "
12 in.	" " "	" " "	" " "
14 in.	" " "	" " "	" " "
16 in.	" " "	" " "	" " "
18 in.	" " "	" " "	" " "
20 in.	" " "	" " "	" " "

Standard Pot Measure.  
 Less quantities than listed, at 100 rates.  
**F. W. BIRD & SON, Manufacturers.**  
 Address orders to our Agents,  
**August Rölker & Sons**  
 52 DEY STREET, NEW YORK.  
**R. J. FARQUHAR & CO., Boston, Mass.**  
 When Writing Mention Florists' Exchange

**CHINESE PRIMROSES FOR THE Holiday Trade**

Fine plants, in bud and bloom, in four separate colors, from 3 in. pots, \$1.00 per 100; from 5 in. pots, \$2.00 per 100.  
**Double Primulas,** white and red, from 2 1/2 in. pots \$1.00 per 100.  
**Double Geraniums,** prepaid, Double Geranium, S. Nutt. La Favorite, Miss. Salerby, 15 leaf varieties in six colors, strong and well rooted, \$1.00 per 100; from 3 1/2 in. pots, \$2.50 per 100.  
**Chrysanthemums** 2 1/2 in. pots, 100, \$1.00; small yellow 1 1/2 to 2 in. pots, 100, \$1.00.  
**Helianthus** Argenteo-plumbeus, rooted, \$1.50 per 100; from 3 1/2 in. pots, \$2.50 per 100.  
**Batrachium** variegatum.  
**W. J. MADDEY, East Stroudsburg, Pa.**  
 When Writing Mention Florists' Exchange

**DRACAENA SANDERIANA** from 3 in. pots, \$3.00 per doz  
**ANTHERICUM PICTURATUM** from 4 in. pots, \$5.00 per doz.  
 per doz; 3 in. pots, 75c. per doz.

**VARIEGATED VINGAS,** from 4 in. pots, \$5.00 per 100

**C. EISELE, 11th & Jefferson Sts., Philadelphia, Pa.**  
 When Writing Mention Florists' Exchange

**GERANIUM**

varieties; double Geraniums; double Geraniums in six colors, strong and well rooted, \$1.00 per 100; from 3 1/2 in. pots, \$2.50 per 100.  
**Antelope,** \$1.75, 2 1/2 inch, \$3.00, 100; \$10.00  
**Swiss** Seedlings, 30c. per 100.  
**Cornelia,** Golden Broom and Verschaltit.  
 Caravan cutting, delivery when you want them  
**EVERITT & INSALL, Hackettstown, N. J.**  
 When Writing Mention Florists' Exchange

**Smilax,** strong, 1 year, one basket, \$1.00 to \$2.00 per 100.  
**Paeonia,** herbaceous, choice assortment, \$2.50 per 100.  
**Narcissus,** Poet's, double and single, 75c. per 100.  
**Daisies,** Scotch and standard, \$1.00 per 100.  
**H. P. Roses** in assortment, \$10.00 per 100.  
**Clematis** in choice assortment. Write for prices.  
**Downing's Gloire de France** one and two year rooted Jacket clematises, best large red.  
**F. A. BALLER, Bloomington, Ill.**  
 When Writing Mention Florists' Exchange

**PRIMROSES,** nice plants from choice seed, \$1.00 per 100, \$3.00 per 300.

**PELAGONIUMS,** assorted varieties of R. Sanderford, 3 in. pots, \$1.00, \$1.50, \$2.00 per 100.

**CYPERUS ALTERNIFOLIUS,** 3 in. pots, \$2.00 per 100.

**GEO. H. BENEICT, Yorkville, N. Y.**  
 When Writing Mention Florists' Exchange

**DO YOU WANT A STOCK? HERE IT IS!**

**Primrose,** 3 in., \$1.00; 2 1/2 in., \$1.00; 2 in., \$2.00 per 100.  
**Cyclamen,** not rooted plants, \$1.25 per 100; \$3.00 per 100.  
**Geraniums** 1 1/2 in. pots, \$2.50 per 100.  
 Write your order now for rooted cuttings of **Caravans** and **Blue Stock.**  
**Price for prices, they will surprise you.**  
**GEO. W. EMMANS, Newton, N. J.**  
 When Writing Mention Florists' Exchange

**STANDARD POTS.**

We are now ready to supply a superior quality of Pots in unlimited quantities. Catalogues and price lists furnished on application.

**A. H. HEWS & CO.,**  
 NORTH CAMBRIDGE, - MASS.  
 When Writing Mention Florists' Exchange

**STANDARD FLOWER POTS**

In any quantity, and of the best quality. Get my price list before ordering elsewhere.

**W. H. ERNEST,**  
 Station M. N. E., WASHINGTON, D. C.  
 When Writing Mention Florists' Exchange

# THE FLORISTS' EXCHANGE

We are a straight shoot and aim to grow into a vigorous plant.

A WEEKLY MEDIUM OF INTERCHANGE FOR FLORISTS, NURSERYMEN, SEEDSMEN AND THE TRADE IN GENERAL.

VOL. IX. NO. 50.

NEW YORK, DECEMBER 11, 1897.

One Dollar Per Year.

## NOVELTIES IN CHRYSANTHEMUMS

We are Now Booking Orders for the Following Prize Winners. Plants Ready for Delivery March 1st. Place Your Orders at Once. Orders Filled in Order Received.

**FRANK HARDY.** This fine chrysanthemum has created a sensation wherever exhibited this season. It has a future, and is bound to find favor both for commercial and for exhibition purposes. It is a masterpiece in every way; erect stem, good keeper; foliage right up to flower.

**MRS. H. WEEKS.** This is an ideal variety for exhibition purposes, and takes on a size and final cut to be found in any other white. Its merits may be judged by the fact that it won first prize for the best twenty-five white in competition with the finest examples of Queen and Mrs. Henry Robinson that it has ever been the fortune of the writer to see. Stem, neck, and foliage are all perfect.

Price of the above two sets, \$3.00 per dozen; \$20.00 per 100.

**PENNSYLVANIA.** The first yellow chrysanthemum for cut blooms or for exhibition ever produced.

We also call particular attention to **AUTUMN GLORY, SOLAR QUEEN, BLACK HAWK and QUIGO.**

Price of the above five sets, \$5.00 per dozen; \$35.00 per 100.

We can also supply all other novelties of the season at intro' users' prices, and will be glad to book orders for any varieties wanted. Our collection of standard sorts is large and complete. We will be glad to quote prices on any of our standard varieties.

WE ALSO CALL ATTENTION TO OUR LARGE STOCK OF

## PALMS AND OTHER DECORATIVE PLANTS.

We will be glad to mail our special offer of these for holiday trade on application.

We are offering bargains in **LARGE ARECAS, ARUCARIAS, NEPHROLEPIS EXALTATA BOSTONIENSIS** (The Boston Fern), **PANDANUS VEITCHII, FICUS, KENTIAS, LATANIAS,** etc., etc.

## F. R. PIERSON CO.,

TARRYTOWN-ON-HUDSON, NEW YORK.

When Writing Mention Florists' Exchange

## PALMER'S HOT BED MATS.

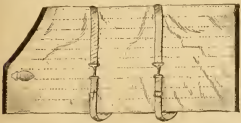
FROST PROOF.

MADE EXPRESSLY for winter covering of hotbeds, cold frames, plants and seeds of all kinds.

Indestructible, Cheap and Warm

Will not harbor mice or vermin. Easily handled. Have now been in practical use three years. Cost less than half as much as old-fashioned straw mats and entirely take their place. Made in regular sizes, 76x76 inches and 76x40 inches, or any size desired sold by the running foot 76 inches wide.

That these mats are a much needed improvement over anything heretofore used for the same purpose, is demonstrated by the large demand and many testimonials from prominent men in the trade. Everyone using Hot Bed Mats should give them a trial.



WE ALSO MAKE  
**QUILTED HORSE BLANKETS,**  
The Cheapest, Warmest and Strongest in the World,  
WEIGHING 9 POUNDS.

## THE R. T. PALMER CO.,

Or New London, Conn. 113 Worth Street, New York.

When Writing Mention Florists' Exchange

## ROSE HILL NURSERIES.

THE LARGEST HORTICULTURAL ESTABLISHMENT IN AMERICA.

### Chance of a Life Time!

WE ARE OFFERING AT A GREAT BARGAIN FOR TWO WEEKS FOR CHRISTMAS TRADE.

#### 100 ALSOPHYLLA AUSTRALIS

7 inch and 8 inch pots, beautiful specimens, 8 to 8 leaves, 18 inches high.....\$1.50 each

#### 200 NEPHROLEPIS DAV. FURCANS

The "finest House Fern in cultivation." "We have the grandest in the country."

8 inch pots, 15 inches across. Specimens.....\$1.25 each  
9 inch pots, 18 inches across. Specimens..... 1.50 each  
10 inch pots, 2 to 2 1/2 feet across. Specimens..... 2.00 each  
12 inch pots, 3 feet across, extra fine specimens..... 4.00 each

#### FICUS ELASTICA

Fine specimens, 3 feet high.....50c. each; \$5.00 per dozen

The above are a few fine specimens for Holiday trade and we shall fill orders as long as they last. Order quick if you want two or three pairs of them. We have a grand lot of

**Palms, Ferns, Pandanus Veitchii, Araucaria.**

The finest assortment in the country. We invite personal selection or prices sent on application.

Write, telephone or telegraph and our carriage will meet you.

## SIEBRECHT & SON, NEW ROCHELLE, N. Y.

NEW YORK OFFICE, 409 5TH AVE.

When Writing Mention Florists' Exchange

## Four Grand Early Pink Chrysanthemums

### ROSE OWEN.

One of the best very early pink chrysanthemums of recent introduction. Ready list September to 10th of October. Height, 35 feet. Clean, neat grower, perfect stem, with bright, waxy foliage well up to the bloom. Color bright clear pink. V. Morel shade. Involved Japanese flower, large to extra large when well grown. Will bear close planting as foliage is not dense. We offer this variety with much confidence, knowing it will give satisfaction as an early commercial pink. Every bloom sent to New York market was snapped up at once by leading florists. Having a fine, clean stock, we shall be prepared to fill large orders. No grower who needs a clean, bright, first early pink should neglect Rose Owen. Dozen, 75 cents; 100, \$5.00; 100, \$45.00.

### J. H. WOODFORD.

A beautiful, large shell pink, shaded to center; high globular form with heavy broad closely involving petals, strong stem and fine foliage; extra early. Can be cut October 20 to 10th. Crowns or terminals; on crowns color is pure white, H. A grand early pink to follow Rose Owen. Nothing better in its color for a second early. Dozen, 75 cents; 100, \$5.00.

### GEO. F. ATKINSON.

Clear shell or mermaid pink, high built globular bloom of great substance and largest size. Early, flowering immediately after J. H. Woodford. Still stems and splendid foliage. A fine commercial sort, 95 feet. Dozen, 75 cents; 100, \$5.00.

### BELLE OF CASTLEWOOD.

Rich, emerald shell pink globular bloom of great substance, early flowering Japanese, distinct and pleasing shade. Immense bloom on a grand stem with splendid foliage. Too much cannot be said in favor of this variety as it is one of the most chosen and beautiful chrysanthemums in existence. No grower should be without it. Dozen, 75 cents; 100, \$5.00.

## THE BEST TWO VERY LATE WHITE CHRYSANTHEMUMS.

**DOROTHY DEYENS.** Undoubtedly the very best late white. Magnificent snow white, largest size globular form, clear delicate pink grand stem, rich deep green foliage. December 1st to 10th. Doz., 75c; 100, \$3.00.

**MRS. R. CRAWFORD.** November 20th to December. Extra large clear white, fine in every way. Flower large and well built; one of the very best. 3 feet. Dozen, 50 cents; 100, \$3.00.

### A GRAND LATE PINK.

**THE HARRIOTT.** Deep Rose, silvery reverse, large bloom of great substance, 9 feet. Ready December 1st to 10th. A grand commercial pink. Dozen, 75 cents; 100, \$4.00.

If you need Carnations, Geraniums, Kentias, Boston Fern, &c., write for our Jan. list.

## THE COTTAGE GARDENS, C. W. WARD, QUEENS, N. Y.

When Writing Mention Florists' Exchange

# WATCH OUR SEASONABLE SUPPLIES



Bouquet Green, best quality, per 100 lbs., \$3 01  
**Holly**, best Maryland, per case, 6 00  
 Mistletoe, English, case price in application  
**Cape Flowers**, strictly No. 1, per lb., 75c  
 Immortelles, White, Purple, Red, per doz. bunches, \$3 00  
 Yellow, per doz. bunches, 2 50  
 Steaming Wire, No. 21, 25, 28, 35, 25c per lb., 50c per stone, 1 15  
 No. 35, per lb., 25c, per stone, 2 25  
**Tooth Picks**, No. 1, per doz., 50c  
 No. 2, per doz., 50c, per case, 5 00  
**Spruce Japonica**, per 1000, \$4 00; per 1000, 35 00  
**Spruce Compacta**, per 1000, 35 00  
**Lily of the Valley**, per 1000, \$10 00; per case, 100 00; 24 00

**WILLIAM ELLIOTT & SONS, 54 and 56 Dey St., New York.**  
 When Writing Mention Florists' Exchange

## CYCAS REVOLUTA STEMS

Now is the time to order your **CYCAS STEMS** for Spring delivery. We will give you the very lowest price on early orders, and guarantee extra fine stock **READY FOR DELIVERY**—Aratum, Rubrum Album, and other Japan Bulbs, **CALIFORNIA FLOWER SEED.**

**H. N. BERGER & CO., 220 Broadway, N. Y.** Branch: San Francisco, Cal. (Established 1874).  
 When Writing Mention Florists' Exchange

## LILY OF THE VALLEY

The finest in the market, \$12.50 per 1000. Fine, \$10.00 per 1000.  
**CHINESE SACRED LILIES**, 30 in a basket and 4 baskets to a bale, \$25.00 per 1000. Call a few left. **Roses**, Rhododendrons, Clematis, etc., will be in the week.  
**F. W. O. SCHMITZ, JERSEY CITY, N. J.**  
 When Writing Mention Florists' Exchange

## DAHLIAS ARE THE RAGE!

No Catalogue Complete Without Them. **THE GRAND OLD FAVORITE** "OUTCHRYSANTHEMUMS THE CHRYSANTHEMUMS."  
**WM. AGNEW**, intense red, 7 1/2 in. across. **CLIFFORD W. BRUTON**, pure yellow, 6 1/4 in. across  
**36 1st PRIZES. THREE DOZEN. 36 1st PRIZES.**

LARGEST AND FINEST COLLECTION IN AMERICA.  
**300,000 FIELD ROOTS. 1000 VARIETIES.**  
 Cactus, Deciduous, Show, Fancy, Pompano, single. We make our catalogue collections of select prize-winning varieties. Write us at once for wants, prices, etc. **NOTE**—Our Dahlias have been exhibited in competition with all the leading growers and always carried off Emperors.  
**SEND FOR CATALOGUE. W. P. PEACOCK, Atco, N. J.**  
 When Writing Mention Florists' Exchange

# A. W. SMITH, AMERICUS, GA. GROWER OF SPECIAL SEED.

Largest possible yield from seed furnished as well as seasons guaranteed, of same from other Seedsmen guaranteed.

**ORIGINATOR OF** Henderson's Green and Gold Watermelon. A. W. Smith's Ruby Gold Watermelon. A. W. Smith's Royal Cream Watermelon. Smith's Hybrid Moonflowers. Smith's Northern Light Moonflowers.

**LARGEST GROWER IN THE UNITED STATES IF NOT THE WORLD.** Moonflower, Ipomoea Nectiflora, Evening Glory, Ipomoea Setosa, Ipomoea Northern Light.

**IMPERIAL JAPANESE MORNING GLORY SEED.**

**IPOMOEAS.** Setosa, Northern Light, Grandiflora (Smith's Hybrid), Grandiflora (White Seeded).

**DATURAS.** Cornucopia, Double White, Double Crimson, Golden Queen (more triple than double).

**LOOK OUT FOR** **New Orange Yellow Cosmos, "KLONDYKE."** Half size larger than true Cosmos Sulphureus. No **Hidens**, but true **Cosmos**. Stock very limited.

**WRITE FOR PRICES STATING QUANTITIES WANTED.**  
 When Writing Mention Florists' Exchange

# AMERICAN BULB COMPANY

PROPRIETORS U. S. EXOTIC NURSERIES. Wholesale Growers and Importers. Short Hills, NEW JERSEY.  
 When Writing Mention Florists' Exchange

**COSMOS**  
**GIANT FLOWERED, EARLY BLOOMING.** Six splendid varieties, averages \$1.00 per ounce. **New Callipate** has grand, Giant Flowered California Sunbunches, \$1.00 per ounce. Special low quantity.  
**Apple Geranium**, fresh, 100 per 1000 seeds; per 100, \$2.00 per 1000 seeds.  
**Mane Escote** of Abraham Lincoln, 75c per 100 seeds, \$2.00 per 1000 seeds.  
**Nonpariflor Elegans**, after October 1st, 40c. per 100; \$2.00 per 1000 seeds.  
**Calla Lily Bulbs.** Prices on application.  
 and for Trade Lists of Narcissus, Sassa, Fuchsia, Bulbs and Cacti.

**MRS. THEODOSIA E. SHEPHERD** Ventnor-by-the-Sea, Cal.  
 When Writing Mention Florists' Exchange

**CLUGAS & BODDINGTON CO.**  
 Importers, Exporters and Growers Agents of **PLANTS, SEEDS & BULBS**  
 501 and 503 W. 13th St. Telephone Call, 403 12th St. NEW YORK CITY.  
 When Writing Mention Florists' Exchange

**CANNAS!**  
 CHARLES H. ALLEN, FLORAL PARK, N. Y.  
 When Writing Mention Florists' Exchange

**PALM SEEDS. FRESH ON HAND**  
 100 1000 5000  
 Cocoa Weddelliana \$1.25 \$10.00 \$27.50  
 Bism. Erecta..... 1.25 10.00 27.50  
**J. L. SCHILLER, 404 E. 34th St., NEW YORK.**  
 When Writing Mention Florists' Exchange

**BURPEE'S SEEDS**  
 PHILADELPHIA  
 WHOLESALE-PRICE LIST FOR FLORISTS AND MARKET GARDENERS  
 When Writing Mention Florists' Exchange

**HEADQUARTERS OF... PAMPAS PLUMES CALIFORNIA**  
 Tree and Shrub Seeds, Sutilax, Cobaea, Grevillea robusta, **PALM SEEDS, Etc.** Ask for Special Prices.  
**GERMAIN FRUIT CO., LOS ANGELES CAL.**  
 When Writing Mention Florists' Exchange

**MUSHROOM SPAWN!**  
**W and D's "SURE CROP"**  
 B. MAGNES, TULSA, OKLAHOMA, Etc. SPECIAL PRICES TO CLEAR.  
**WEEBER AND DON,** Seed Merchants and Growers, 114 Chambers St., New York, N. Y.  
 When Writing Mention Florists' Exchange

**40,000 DAHLIAS**  
 Whole field-grown roots in 50 best sorts, labeled list. Prices \$3.50 to \$12.00 per 100; \$30.00 to \$60.00 per 1000. Our price list of Dahlias, rooted cuttings of Germanias, Carmatis, etc., includes a few favorite Baganias, Cobaea, Spiraea, etc., and geraniums. **Free** strong plants, 2 1/2 in. pots, \$1.00 per 100; **PANDANUS UTILIS**, \$2.00 per 100; 4 in. pots, \$1.00 per 100; **SPECIMEN RUBBER PLANTS** in 6 in. pots, \$1.00 per 100; 24 in. high, \$5.00 per doz.; **ASPARAGUS SPRENGERI**, 6 in. pots, \$3.00 per doz. Satisfaction guaranteed.  
**A. B. DAVIS & SON, Purpleville, Va. (Near Washington, Va.)**  
 When Writing Mention Florists' Exchange

**BARGAINS IN BULBS**  
 By variety, per 1000  
 Roman, 11-12 cent, \$12 00  
 17 50  
 Single Dutch bedding, separate colors, 25 00  
 12 50  
 Named forcing, in jars, 24 size, 30 00  
 14 50  
 Lilium Longiflorum, Japan, 6 in. in., 19 00  
 7 50  
 Narcissus Trumpet Von Slon., 9 00  
 Trumpet Friaocens, 7 00

**CASH WITH ORDER.**  
**HULSEBOSCH BROS., Englewood, N. J.**  
 When Writing Mention Florists' Exchange

# SEEDS

MAIN AND MARKET. **KENTUCKY BLUE GRASS (POA PRATENSIS).** CHAS. E. PRUNTY, SAINT LOUIS.  
 When Writing Mention Florists' Exchange

**DREER'S Mushroom Spawn**

New shipment for second crop planting just received, put in December for Spring cutting which is the most profitable.

\$7.50 per 100 lbs.  
 70.00 per 1000 lbs.  
 250 lbs. or over at 1000 lb. rate.

**HENRY A. DREER,**  
 714 Chestnut St., PHILADELPHIA.

When Writing Mention Florists' Exchange

### SEED TRADE REPORT.

Points and information from seedmen, and all other matters of the column selected. Address Editor Seed Trade, care of Florists' Exchange, P. O. Box 107, New York.

#### AMERICAN SEED TRADE ASSOCIATION.

GEROME B. RICE, Cambridge, N. Y., President; F. B. CLARK, Milford, Conn., Vice President; J. W. MILLER, Columbus, Wethersfield, Conn., Secretary and Treasurer.

New York.—The United States Consolidated Seed-Inaising Company of Brooklyn has been incorporated with a capital of \$300,000. The directors are Alfred Nicholls and Robert W. Butler of Brooklyn; John Scott, of Staten Island, and Robert F. Gaylord and Charles P. Storrs, of New York City.

Owing to some misconception of the notice published in the trade papers relative to the retirement of Peter Henderson & Co. from the wholesale jobbing seed business, they beg to announce that they will still continue to supply, at the wholesale prices, to florists and market gardeners, all sorts of planting, bulbs, plants and bulbs, as well as everything they offer. Their object is to deal direct with the market gardeners and florists only, and supply the best goods at the lowest prices, quality considered. Read for further announcements page 1117.

New York, Jr. I.—A. A. Hovey, for the past four years in charge of the department at George A. Weaver's store, has closed his connection with Mr. Weaver's business, and will go to New York to open a florist's store on Columbus avenue.

#### Presentation to Mr. C. L. Allen.

At a special meeting of the Riverhead Horticultural Society, held at Northville, L. I., on Friday evening of last week, Charles L. Allen, of Floral Park, was presented with a handsome testimonial of the members' appreciation of that gentleman's worth and services to the cause of horticulture, and the gold is heavy and finely chased, and it was presented by R. D. Peary, secretary of the Society. Mr. Allen's name and the name of the donor is neatly engraved upon the underside of the handle, and the inscription is as follows: "In furthering the interests of this Society in various ways, manifested the kindest appreciation of the honored contributor him."

#### European Notes.

##### Arrival of Winter.

A sharp touch of frost over northern Europe, and scattering snow storms over the south, inspire us with the hope that an abnormally mild season is about to change its character and put on a winter dress. Such a change will be most welcome both for the health and comfort of the seed grower, and the health and safety of the plants upon which his next season's crops depend.

##### Effects of Mild Weather.

The mild weather which has been referred to several times of late in these notes, as it is accompanied by considerable mist and fog, has had a very different effect upon the plants in the different districts. Taking brassicas as an example, upon a light or sandy soil are withering fairly well, but have every appearance of running when the Spring comes round; whereas on a strong or heavy loam are going off badly. The plants appear to have spent their force in getting up to the winter, and are less so seed purposes. If we have a dry Spring, it is from the latter class of soil that the crops are obtained, but in that case the crops from the dry, sandy soil are about nil.

There are in a similar condition, but it is the extra early varieties that have suffered the most up to the present time. The plants are in the present condition, and the perseverance of growers who persist in growing such sorts as the Extra Early Purple Heart of Milan, or the twin brother, the all-white variety. Not in one year out of ten do they yield an even moderate crop, and it is not infrequently worth a dollar per pound if the grower is to have a living profit. But if a grower should dare to risk this figure he would

be told to go to—Klondike. Some of the very early yellow-dish turnips are just about as risky, and if the present high prices of grain are maintained for another season, it is probable that these very risky crops will be dropped entirely. As regards the balance of this season's crops, the market producers are giving us the usual amount of trouble in the curing and cleaning. A cold dry spell would do us wonderfully.

#### Market Seeds.

In market seeds the only changes to report are an enhanced price for rape and a considerable rise in white mustard. Good supplies of the latter are very scarce and higher in price than they have been for several years. The clover seed market remains in a state of rter stagnation. Bird seeds hardly move at all, grasses are fairly active. Bolling peas and beans are in rather more demand than an upward tendency in prices.

EUROPEAN SEEDS.

## BERBEA IMPROVED MAMMOTH.

New crop seed of this magnificent strain. Highly improved, of the very largest size of flowers and good quality of the petals. It is selling at 25¢ per lb. for 25¢; 3 pats. 40¢; 4 pats. 41.00. Call for our prospect over! Address: W. H. RUPP — Shiremanslow, Pa. When Writing Mention Florists' Exchange

## Stationery for Florists.

Every florist in the land should have a complete outfit of printing matter prepared with to conduct his business in a brilliant style. We have the largest outfit in America devoted solely to horticultural printing, and we understand the wants of the trade. Below we quote two combination offers and would be pleased to supply you.

### \$5.00 Combination offer includes....

- 250 Noteheads, 56x28 1/2 ins.
  - 250 Envelopes, size 8 1/2
  - 250 Billheads, 7 1/2 ins. wide, 5 1/2 ins. deep.
  - 250 Business Cards, 2 1/2x3 1/2 ins.
  - 250 Tags, size 2 1/2x3 1/2 ins.
- Cash with order. Delivered F. O. B., N. Y.

### \$10.00 Combination offer includes....

- 500 Noteheads, 66x28 1/2 ins.
  - 500 Envelopes, size 8 1/2
  - 500 Billheads, 7 1/2 ins. wide, 5 1/2 ins. deep.
  - 500 Monthly Statements, 6 1/2x3 1/2 ins.
  - 500 Tags, size 2 1/2x3 1/2 ins.
- Cash with order. Delivered F. O. B., N. Y.

#### PLEASE READ THIS BEFORE YOU ORDER.

Write plainly and send "copy" for each article wanted. Notebooks will be furnished in smooth writing paper with ruled lines. Linsen paper, ruled or unruled, can be had instead if so ordered. Envelopes of all commercial size and of good quality. Billheads will be furnished as above, but size 8 1/2 ins. wide and 4 1/2 ins. deep will be substituted when so ordered. Cards are of good quality and ample proportions. Day Book and Ledger are large enough for ordinary purposes. Ledger is indexed and will hold 900 accounts. Special designs, trade marks, etc., engraved to order. A rose, violet, or other flower can be printed on your letterheads and billheads, plain or in color, to order. The quality of all the above work is guaranteed.

A. T. DE LA MARE PTG. & PUB. CO., Ltd. P. O. Box 1697, New York.

Our new catalogue sent only to the very early yellow-dish turnips are just about as risky, and if the present high prices of grain are maintained for another season, it is probable that these very risky crops will be dropped entirely. As regards the balance of this season's crops, the market producers are giving us the usual amount of trouble in the curing and cleaning. A cold dry spell would do us wonderfully.

## PLANTS!

True Berlin and Hamburg Pips, A1 quality, and very early assorted, at improved prices, cases lots and writing for one. H. Bayersfeldt & Co., Adv.

J. L. SCHILLER, 404 E. 34th St., New York. Write us for our 120 page catalogue, Hamburg. When Writing Mention Florists' Exchange

## LETUCE PLANTS.

Five transplanted, true, Grand Rapids Lettuce plants, 50c per 100; F. 2.50 per 1000. Cash with order. A. J. BALDWIN, Newark, O. When Writing Mention Florists' Exchange

## CAPE JESSAMINES! GARDENIA FLORIDA.

Strong and stocky, 6 to 12 in., \$3.00 per 100; 25¢ per 1000; 1 to 2 ft., \$5.00 per 100; 2 to 4 ft., \$10 per 100. JOHN MONKHOUSE, Caddo Nurseries, JEWELL, LA. When Writing Mention Florists' Exchange

## 2 YEAR HYBRID PERPETUAL ROSES

Assorted from best roots, strong field-grown plants, 2 1/2 to 3 1/2 ft. high, 50¢ each, 40¢ per 100. CLEMATIS VIRGINIANA

Best American climber, small white flower, 2 year growth for 10¢ each. Also in color, under 2 year growth. Clematis, Currants, Grapes, Camellias, etc. W. H. SALTER, Rochester, N. Y. When Writing Mention Florists' Exchange

## PEACH AND PLUM TREES FOR FALL DELIVERY INST.

Reliable and clean stock, low wholesale rates. All desirable leading varieties of PEACHES, and also new, in fruiting, varieties. Have the new Triumph, Green-bone, and Saeed planting. Buds are supplied in season at low rates. Very large stock of PLUM TREES all on fruiting roots, one and two years. Buds can be supplied of these also, either from nurseries or orchard trees. Have all the leading varieties, including: Burbank, Chabot, Sessano, Willard and others; also the new and improved varieties. Usual supply also of ASPERUUS ROSES to offer. ALEXANDER PULLEN, Milford Nurseries, Milford, Del. When Writing Mention Florists' Exchange

## FERTILIZING

- Spiraea Astilboides Floribunda, \$4 per 100.
  - " Multiflora Compacta, 6.00 per 100.
  - " Japonica, . . . . . 3.50 per 100.
- Orders entered now for Spring delivery, for H. P. ROSES, Clematis, Magnolias, Tree Roses, etc.

## L. C. BOBBINK, Rutherford, N. J.

Branch of the Horticultural Co., Basking Ridge, N. J. When Writing Mention Florists' Exchange

## JUSTICE VELUTINA, NERVOSA, FLAVA.

OUR NEW CANNA ROSEMAWR Very large salmon-pink flower, petals 2 inches across. Seedling. N. Y. Improved by Watermelon Hybrid by December 1897. Write for prices and names of 100.

THE CONARD & JONES CO., WEST GROVE, PA. When Writing Mention Florists' Exchange

## ESTABLISHED 1864.

## WATERMELONS

HAVING FILLED OUR CONTRACT ORDERS, WE NOW OFFER THE FOLLOWING SURPLUS STOCKS, CROPS OF 1897.

Barr's Mammoth, Palmeto and Conover's Colossal Asparagus Seed; White Spine and Long Green Cucumber; Watermelon and Canteen Seed; N. Y. Improved Egg Plant; Paragon, Favorite, Perfection and Stone Tomato; White Velvet Dwarf Green Okra; Bull Nose and Sweet Mountain Pepper; Premium, Flat Dutch and All Season's Cabbage.

SEND FOR PRICE LIST.

WILLIAM R. BISHOP, SEEDSMAN, Burlington, N. J. When Writing Mention Florists' Exchange

## PRIVET.

California Privet. Ampelopsis Veitchii. Field-grown. Prices on application.

THE ELIZABETH NURSERY CO., Elizabeth, N. J. When Writing Mention Florists' Exchange

## Grape Vines Small Fruits

Small Fruits. Extra fine stock of GENEVA VINES, including the new and unrivaled W.L.D.E.R. Lowest rates. Quality extra. Warranted true. R. W. H. B. Co., Brooklyn, N. Y. When Writing Mention Florists' Exchange

## SEEDLINGS AND CLIONS.

of Apple, Cherry, Pear and Plum. APPLE GRAFTS

Low Prices. Send List of Wants to D. S. LAKE, Shenandoah, Iowa. When Writing Mention Florists' Exchange

## JACKSON & PERKINS CO. NEWARK, N. J.

Have to offer for season of 1897-98 a choice assortment of Field-grown Roses, new and old varieties Clematis, Ornamental Shrubs, and Trees, Fruit Trees and Small Fruit Plants.

## WRITE FOR PRICE LIST.

When Writing Mention Florists' Exchange

## LETUCE PLANTS.

Big Boston, Boston Market, Tennis Ball, White Leaf, Grand Rapids and Keizer's Porcelain. 15 cts. per 100; \$1.00 per 1000. If by mail add 10 cts. per 100.

Cash with order. R. VINCENT JR. & SON, White Marsh, Md. When Writing Mention Florists' Exchange

## P. OUWERKERK, 1123 Summit Ave., Jersey City, N. J.

Just received from our Holland Nurseries:

- RHOODENDROENS, AZALEAS,
- SPINÆA JAPONICA, LILIUM SPECIOSUM,
- PEONIES, BLEEDING HEART,
- PUT GROWN LILACS, HYDRANGEA IN SORTS.

CLEMATIS and H. P. ROSES, in the best sort. PRICES MODERATE.

When Writing Mention Florists' Exchange

**FRUITING HOUSES.**

Our most trying period is now about over—the solution of the get through the dark soft weather which, as a rule, precedes the coming of Winter, without some wise means will be a failure. The soft growth, Careful management from now on should soon remedy this, since the temperature and atmosphere are quite under our control.

I have wondered how many of us have this season had this change of conditions which annually gives us a most excellent illustration as regards the atmosphere the condition most deleterious in?

After cold winter sets in, thereby making steadily frigid necessary to maintain a proper temperature, surplus moisture is a thing of the past to a very large extent. The atmosphere, on account of being colder outside than inside, is constantly changing; thus we can maintain, without much trouble, the cool, bracing air which is absolutely essential to bring the carnation up to the highest standard, and prevent the spread and ravages of the numerous fungoid diseases to which the carnation is subject, which all depend for their growth on moisture and stagnant air, which, while it may be all right for some other plant, does not circulate freely and is not strong enough for the needs of the carnation. The conditions which promote health and vigor in one class of plants very often produce the opposite in another species.

The older and more experienced growers who have already mastered the knotty problems in carnation culture, can say anything in this subject which they do not already know. My object is to give some hints, in case of the small or inexperienced grower, and I would not repeat things so often were it not for the fact that those who are most in need of such information are usually the ones who forget it first.

In every place where I have been, where carnations were not thriving at least fairly well, I have invariably noticed that the soil and atmosphere were in an improper condition of atmosphere. Very few sections there are, I believe, which are so dry and so cold, and which are in just as good shape as another; therefore, if we sit it out, constant vigilance will be required to accomplish more than anything else.

The very natural desire to save fuel to avoid the extra cost in growing carnations in the greenhouse. To give only when the temperature outside, or the rays of the sun, are such as to demand it in order to keep down the temperature inside, is a practice which must be entirely abolished before success will come. I remember, in my own experience, that this was my principal failing, and that the hardest one to remedy, for the simple reason that I, like others, was inclined to save fuel. In this as in everything else, the extreme must be avoided. The first important step is to understand the conditions necessary, and then to maintain them.

There will be no increase in temperature in our carnation houses in order to avoid the extra cost of the fuel. Experience has long since demonstrated to me the fallacy of this practice, and its evil results. The only way, if you care at all for the health and vitality of your stock now and later on, is to treat the plants as you would treat them at any other time, which is supposed to be the best and most economical.

Fumigation must also be looked after; some of it must be done regularly, since the self-sterilization will not have any effect down in the tender shoots.

H. WEBER.

Chester County Society.

The regular monthly meeting of the Chester County Carnation Society was held in the office of Wm. Swayne, Kennett Square, Pa., December 4. Wm. Swayne was called to the chair. The secretary read his report in regard to expenses, etc. He had a conference with Mr. David Herring, assistant superintendent of the Chesapeake Division, Adams Express Co., who promised to have all perishable goods handled with the greatest of care and would so instruct all the agents on the road; also that empties returned to be returned in good order and he would try and have the company take off the tariff of 5c. per box now paid for returning empties, and also to get down to lowering rates, but they would give us

the best service possible; and any neglect on the part of the agents be desired reported to him at once. It is to be noted that the shipment of the 100,000 from Central R. R. are entirely at the mercy of the Adams Express Co., there being no competing line. However, Mr. Phillips, of the Society, had been looking up a way to reach the Baltimore and Annapolis line, which is only four miles distant from Kennett, with some little loss of success. The way being very stormy, they are not so small and late. Wm. Swayne reported some irregularity in the express charges on making orders, which the secretary was instructed to investigate. The subject for debate at next meeting is "Is the American Carnation Society of any use under the sun?" Joshua Ladley for the affirmative, Edward Swayne for the negative. A lively discussion is anticipated. W. R. SHELLEBEE, secretary.

**Clover Seed Insects in Ohio**

Complaints are coming to the Ohio Experiment Station regarding the appearance of insects in clover seed, the present Autumn, in such numbers as to occasion much concern among the farmers. In southern Ohio, this insect has been determined to probably be one that has attacked clover seed in West Virginia, although it has never before been reported from Ohio. At the present time this is a very small, robust, whitish worm, that is found inside the seed. This insect is one of the most common four-winged fly, but entirely different from the clover-seed maggot, which is red in the maggot stage, and yellow and white in the adult stage. The trouble in the northern part of the states seems to be an entirely different matter, and though doubtless an insect, it would seem from the northern part of the states seems to be the young of some kind of fly, related to the "red weevil" in wheat, or the Hessian fly. Although the nature of the occurrence of small red or pinkish worms in great abundance among clover seed has come to the station several times this Fall, in no case has material for study accompanied such complaints, and the Station is not prepared to say whether or not the new insect is a serious enemy. The Station very much desires all information on this subject in this matter, and especially does it desire infested clover seed for investigation and study. This infested seed, in all cases, should be of a quart, being sure to get with the seed an abundance of the minute red or pinkish worm, which in all cases should accompany the package, by mail, a letter stating the exact locality from which the seed was taken, and the extent to which it occurs.

EXCELLENT results, increased sales, and good profits will come from using our world famous Wheat Sheaves Seed for new catalogue. Bayardserfer & Co. Adv.

**BUSHY FIELD GROWN CARNATIONS**  
With plenty of roots. Send for prices.  
**GEO. HAWCOCK & SON, Grand Haven, Mich.**

**H. WEBER & SONS,**  
CARNATION CULTIVATORS,  
OAKLAND, MARYLAND.  
When Writing Mention Florists' Exchange

**THERE WE ARE AGAIN**  
Rooted Carnation Cuttings  
for Summer flowering. Ready for immediate use.

**FREE OF RUST.**  
Minnie Cook, Eldorado, Enchilla.  
Ritz Clover, ..... \$2.00 per 100  
Albino, ..... \$2.00 per 100  
Princess Bonnie, ..... \$4.00 per 100  
Cash with order.

**GRALLERT & CO.,**  
Carnation Growers,  
SAN MATEO CO., CAL.  
When Writing Mention Florists' Exchange

**...BAKER'S...**

**NEW CARNATIONS**  
Grown and Tested Five Years.

**ONEIDA** pure pink, no trace of purple; fine red, very early, perfect, very good grower, continuous producer, blooms of largest size.

**RED JACKET** bright red, large of medium size, healthy, no rust, continuous producer, long stiff stems, never bursting calyx.

**\$1.00 Per Hundred.**  
Orders booked now to be shipped in rotation as fast as orders come in.

**CHAS. F. BAKER, Utica, N. Y.**  
When Writing Mention Florists' Exchange

**EDW. J. TAYLOR**  
SOUTHPORT, CONN.  
Wholesale Carnations  
When Writing Mention Florists' Exchange

**FLORA HILL.**  
The finest white carnation ever offered. Orders booked now for Jan. delivery. \$2.00 per 100. \$40.00 per 1000.  
G. M. Bradt, White Cloud, God. Sisseton, and all the standard vars.  
H. F. LITTLEFIELD, - Worcester, Mass.  
When Writing Mention Florists' Exchange

**1898...ELIZABETH SKINNER...1898**  
CARNATION.

Am booking orders for above, which is a beautiful light scarlet; fragrant, perpetual bloomer; strong grower, fine stem; never bursts the calyx and warranted free from any disease. If you want 3 inch flowers try a few.

**GEORGE SMITH - - - Manchester, Vt.**  
When Writing Mention Florists' Exchange

**NEW CARNATION**  
**ARGLE**  
McGOWAN x TIDAL WAVE.  
Grown and tested four years.  
Color a lovely clear shade of carmine-pink; a strong, free and continuous bloomer; flowers 2 1/2 to 3 inches; perfect calyx. Ready March 1st.

PRICES: Per doz., \$2.00; per 100, \$10.00; per 1000, \$75.00.  
Cash with order or satisfactory reference.

**STOLLERY BROS., 1003 Argyle Ave., Chicago, Ill.**  
Argyle Park.  
When Writing Mention Florists' Exchange

**CARNATIONS...**  
...F. DORNER & SONS CO.  
La Fayette, Indiana.  
When Writing Mention Florists' Exchange

**CARNATIONS**  
Double and Single Violets, Swainsona, Myosotis for forcing, Giant Sweet Alyssum.  
All ready January 1.

**JOSEPH RENARD, Unionville, Chester Co. Pa.**  
When Writing Mention Florists' Exchange

**CARNATIONS**  
After the early Chrysanthemums are thrown out, Carnations plant carnations. We have a few thousand plants back in, in the cold house, suitable for this purpose; they are first-class plants, the last of 94,000 set out in the Spring.

800 Grace W.ilder 200 Scott  
2400 Silver Spray 600 Polka-dot  
1500 Albertina 300 Rosalind  
800 Down Home 100 Anniversary  
1500 Fortia 100 Mrs. Carnegie  
**\$4.00 per 100.**  
**J. L. DILLON, - Bloomsburg, Pa.**  
When Writing Mention Florists' Exchange

**HARRISON'S WHITE.**

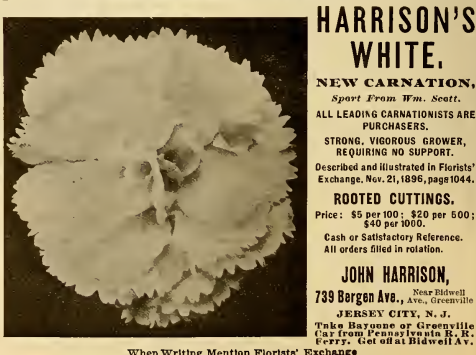
**NEW CARNATION,**  
Sport From Wm. Scott.  
ALL LEADING CARNATIONISTS ARE PURCHASERS.

STRONG, VIGOROUS GROWER, REQUIRING NO SUPPORT.  
Described and Illustrated in Florists' Exchange, Nov. 21, 1896, page 1044.

**ROOTED CUTTINGS.**  
Price: \$5 per 100; \$20 per 500; \$40 per 1000.  
Cash or Satisfactory Reference. All orders filled in rotation.

**JOHN HARRISON,**  
739 Bergen Ave., Near Edwell, Erie, Pennsylvania.

**JERSEY CITY, N. J.**  
Tuba Bayardserfer & Co. Greenville, N. C.  
Tuba Penn's Valley, R. R. Ferry, set off at Bidwell A. R.



# PETER HENDERSON & CO.'S

# WINTER SEEDS FOR 1898.

## IMPORTANT ANNOUNCEMENT!

*Henderson's Seeds are Genuine Only When Supplied by Them Direct to the Planter.*

with our Superior Seeds, Plants and Bulbs, for their OWN planting, at our lowest wholesale prices as heretofore. Our Wholesale Catalogues will be mailed to our customers as soon as ready, early in January, and to others on application.

The only branch of the seed business that we are discontinuing is the supplying of seeds to storekeepers and others to sell again.

# PETER HENDERSON & CO. 35 and 37 CORTLANDT ST. NEW YORK.

When Writing Mention Florists' Exchange.

### Violet Diseases.

The Floricultural Society of New Jersey, at its meeting held in Orange, N. J., on Monday evening last, discussed the subject of diseases of the violet. The lecturer of the evening was Dr. Dodge, who in a most interesting and instructive manner detailed his method of making cultures of the common disease known as spot. By means of diagrams he showed the action of the pest on the epidermis of the leaf. His deductions from the results obtained in his cultures were to the effect that the growth of the disease corresponded closely to the descriptions of that of a fungus. It was not a bacterial growth, such as produced trouble in the human anatomy. The fungus was one, which, under different circumstances had different forms of growth. Dr. Dodge at the outset of his brief talk, intimated that the violet spot was the only disease of this plant to which he had given any study.

Dr. Halsted, of the New Jersey Experiment Station, on being called upon, briefly described other diseases to which the violet is heir, among them the bacterial disease that strikes both the crown of the plant and tears down the tissue of the leaf. Another, a leaf spot, different from that described by the lecturer, coming from another kind of spore, with thread-like ramifications running in between the cells of the plant. The spores of this disease are carried by dripping water or the movements of the air. Another, the necrotic violet leaf disease, enters the leaf by the stomata or breathing pores, branching and breaking down the tissues. Black spot, different from the pest of the same name affecting the rose, only attacks the violet when the plants are kept up to "the high-water mark." One of the worst troubles below ground from which the violet suffers is the root rot, caused by nematodes or eel-worms.

Chairman McElroy then called upon several members to file reports on the discussion, which resulted in hosts of contradictory testimony as to the causes and remedies. It was agreed that in a moist atmosphere was conducive to the development and spread of the spot. Its effects were most remarkable. Some of

plants that up to a certain stage had been free were seized suddenly, and the older leaves being attacked and the younger growths enjoying immunity from the pest's ravages; again young and old leaves would both suffer. Russian violets as well as the less hardy Marie Louise and others of that type, were all liable to be more or less affected. It was suggested that not to wet the foliage might prove a preventive to the spread of the disease, to a more or less degree; while, from the experience of one successful grower who fed his soil liberally and mulched heavily, a good soaking with the hose had been the remedy applied to get rid of the trouble. Location, style of house, and other points were all touched upon. Mr. Herrington mentioned a case where violets were raised most successfully at Highlands, New York State, in houses originally built for rose growing, under conditions that were supposed to be dead against successful violet growing. The plants were in steam-heated houses, on elevated benches. The houses were 20x25 feet. The soil in the benches was kept rather dry so as to have the plants dry at the roots. Practically no water was applied to the roots. The plants were only manually fed, and a good spraying given every other day, and there was not a trace of spot on the place. Curiously enough, plants obtained from this place and grown in another locality, developed the disease. Mr. Minna believed the deterioration seen in the violet was attributable to forcing and over-propagation. The stock might be restored to prime condition, if a certain portion were put in cold frames and left there when the plants were making their natural growth and then propagated from. The violet, like the carnation and chrysanthemum, was more or less a hardy plant, and to force it, from year to year, like a tropical plant, was a mistake. Investigation and opened up a way for these diseases to get in their work.

The discussion, summarized by Dr. Kitchin, brought out the following points: That specific organisms are the cause of violet diseases; that it pays to obtain healthy plants with vitality to ward off these diseases; that in a moist atmosphere, the

WHILE we have withdrawn from the Wholesale Jobbing Seed Trade we respectfully announce that

WE WILL STILL CONTINUE TO SUPPLY FLORISTS AND MARKET GARDENERS...

bright and clear, were favorable to successful violet growing; that a certain amount of shading is beneficial, obstructing the action of the sun.

In answer to a question, Dr. Halsted said that preparatory to filling the houses, impregnating them with sulphur would act as a preventive; spraying diseased foliage with Bordeaux mixture and lime, and dusting with sulphur would check the disease, and although it had never been demonstrated, hydrocyanic acid gas might prove to be destructive to the lower organisms constituting the different diseases. Others who participated in the discussion were L. Batt, W. Duckham, and J. W. Withers. After all the vignettes of these troubles, some pests had been delineated upon, it was found that nothing of a novel character as to their origin and cure had been elucidated, when the meeting adjourned.

### Market News.

The reports from wholesalers and retailers this week are slightly more encouraging than they were a week ago, though the improvement noted in all cases was little more than noticeable. Great expectations, however, are indulged in for Christmas, and we hope they may be more than realized. The cloudy weather of the past month is sometimes unaliated, except for a day at a time occasionally; and unless we are blessed with more sunshine during the coming two weeks, it seems probable that cut flowers will be scarce for the holiday.

There is little new to report regarding the market, except as mentioned above, that the demand is somewhat better, though prices have shown little or no advance recent week. There is ample stock in all lines though many of the violets offered are a little off color and really good ones are being cleared up. At Horticultural Hall last Saturday, Fred L. Harris, gardener to H. H. Hunsnevell, Esq., exhibited a superb specimen of the new begonia *Glorie de Lorraine*, with its fine foliage and profuse pink blossoms. This valuable acquisition to the begonias, and as it promises

to be a good house plant it will prove of value in this respect. John Mitchell, gardener to J. E. Rothwell, Esq., showed a fine specimen of *Cyrtanthus*, *Niobe*, *Arthraurum*, *Lecanum* var. *gigantum* and *zenanthum superbum*. H. F. Chakabery, gardener to Hon. C. G. Roebing, showed a handsome specimen of *Cyrtanthus Niobe superbum*.

About twenty friends of E. M. Wood tendered that gentleman a complimentary dinner at Harvey Ames' Hotel, Westport, Waltham, Mass., on Thursday afternoon last. The affair was a decided success, all participants enjoying themselves to the full measure.

The Boston Gardeners and Florists' Club met on Tuesday evening, an average of thirty specimens of *Cyrtanthus*, attendance being present. An interesting paper on the advantages of soda water nozzles and forcing air-pumps in chemical fertilizing was read by Mr. A. H. Ward.

George Anderson has a house of polsters which are in fine condition and, as usual, will be in good demand for Christmas. W. K. W.

### Newport, R. I.

The following course of lectures have been arranged for by the Newport Horticultural Society.

By Mr. John K. L. M. Parquhar, of Boston, on December 22; subject, "Jamaica," to be illustrated by the stereopticon.

On January 26, 1898, Prof. H. J. Wheeler, of the Rhode Island Experiment Station, on "Results of experiments with lime on various crops;" and on February 23, Prof. L. F. Kinney, horticulturist of the State Agricultural Experiment Station, will speak on "Influences of horticultural societies."

At the meeting held on the 8th, two new members were elected. Robert Lannier staged a fine group of begonias, and was awarded certificates of merit for superior culture of *A. sanguinea* and *B. inermata* (improved). These were a fine lot, being extra well done. The stenographer recently built by J. J. Van Allen, Esq., have been taken by G. H. D. McIntosh, who, I understand, will be a new tanneries and letter for a new net. A. M.

BOUQUET GREENS, WILD SMILAX, IMMORTELLES, CAPE FLOWERS, MOSS WREATHS, METAL DESIGNS,

Send for HOLIDAY PRICE LIST just issued.

STUMPP & WALTER CO.,  
50 BARCLAY ST., New York.

When Writing Mention Florists' Exchange

# MISTLETOE

## CORRESPONDENCE.

Insertion will be given in this column to all communications from artists, but the opinions expressed do not necessarily reflect our own.

### Adiantum Farleyense.

Editor Florists' Exchange.

Your note on Adiantum Farleyense (page 1080) stating the fern is a sport of Adiantum capillus-Veneris is to say the least, somewhat misleading. No doubt, you had in your mind the sport from A. capillus-Veneris which very much resembles A. Farleyense, especially in the smaller and middling stages of their growth; but in a full-sized specimen of either their dissimilarity is very apparent. It has been long known that the variety or sport known as A. Farleyense originated from the sort named Adiantum tenerum. In fact, the proper name of A. Farleyense is Adiantum tenerum Farleyense. FRANK ROY, Montreal.

[The specific affinity of Adiantum Farleyense is yet an unsolved problem among botanists. We shall have something to say on this matter in our next issue.]

### Naming Chrysanthemums.

Editor Florists' Exchange.

As to the editorial on "Naming Chrysanthemums," the writer evidently had a lapse of memory. In the advertising columns of the Florists' Exchange Chrysanthemum number of 1896 was published the withdrawal of the name Wm. H. Chadwick from the yellow variety shown before the committee.

In wanting arguments it is wiser to get at all the facts before presenting briefs. As the yellow variety is not in commerce the name Wm. H. Chadwick is properly applied to this grand white in question. Simply before the chrysanthemum committees, names, numbers or letters denoting varieties presented are private property until the variety is discontinued, but when once in commerce, its name is permanent. This is the accepted, common-sense rule now in force. An reputable grower will guard the public from duplication of varieties under different names, and will convicted is "above suspicion." I suspect the New York committee would like to make a "Dryfus (reynus) of somebody (the French party) sink in disgrace vice for some one else's sake." He will spell the right to the man who will pardon me a little sarcasm. As to the replies, delaying reports except through the secretary, it works to the disadvantage of the exhibitor. On account of this delay I lost the advertisement of Wm. H. Chadwick in several prominent catalogues, by only a day or two in one instance—had gone to press.

Yes, we hear you. Were it Chadwick chrysanthemum will be distributed March 1. See advertising columns. And I can guarantee it to be in circulation in every particular. If I am not mistaken it has the distinction of being the only seedling novel of the year that has the hearty gault of the Chicago, Boston, New York and Philadelphia committees. Hip, hip, hurrah!

[In the advertisement referred to Mr. Rawson states "along in the early part of the season" seedling 77, a yellow after the order of Golden Wedding, was erroneously labeled W. H. C." This follows the announcement that among his seedlings for '07 he has "an immense way white, tinted flesh at center, to be named for William H. Chadwick, President Chicago Horticultural Society." The notification of the erroneous labeling was made after the variety had been presented before the various committees, or to other words, after actual publication"; therefore,

according to accepted botanical usage, the yellow variety is entitled to the name. We do not believe that erroneous labeling or non-discontinuation of the matter in the least. The particular variety in question has gone on record as such, and it is not to be discontinued. There are, however, several good and sufficient grounds on which change of name is allowable; in fact, necessary; but we hardly think that carelessness is one of these. Supposing the variety had been certified and discontinued, the erroneous name, according to our correspondent's own admission, would have had to be "permanent"; why, then, should it be otherwise because the variety failed to score and never entered the growers' Discontinuation is not the only factor that establishes priority of names as has already been pointed out. On general principles, laying fast and loose with nomenclature, wherever applied, is not conducive to public convenience, and while there is no compulsory law against the practice, in the best interests of all it should be indulged in as little as possible. E. J.]

## AMONG THE CANOLES.

Under this heading we will publish descriptions and occasional illustrations of novelties to be introduced. Growers and disseminators are requested to send us the necessary particulars together with the introduction of the variety. It will be used, and this paper assumes no responsibility for the statements made, a sole reserve the right of selection.

### New American Cannas.

The following are among the new Cannas for 1897-98 being introduced by A. J. Kunkin, Philadelphia. Grower and disseminators are requested to send us the necessary particulars together with the introduction of the variety. It will be used, and this paper assumes no responsibility for the statements made, a sole reserve the right of selection.

**Champion**—The largest, brightest, and most beautiful of the new Cannas to date. Immense spikes of gigantic flowers with petals 2 1/2 inches wide, of a pure, dazzling crimson-scarlet, overlaid with golden tints and purplish reflections. A color not approached in brightness and richness by any other canna. It is of very vigorous growth with bright green foliage. Buds four to five trusses to a spike; 50 to 75 enormous flowers to a single truss. All experts who have seen this pronounce it the finest canna in existence.

**Klondike**—A pure gilded orange; absolutely without a rival. A color quite new and much sought for by our clients. Flowers enormous; petals 2 1/2 inches wide, well-rounded, incurved. Dazzling orange, green freckled, one foot across.

**Lorraine**—Pink, edged white; a charming combination of colors. The flowers are large, a bright pink, spotted red, each petal broadly and clearly edged with pale yellow, soon changing to creamy white. Spikes large, bearing 40 to 50 flowers. Single stems of large flowers on bold, heavy stalks. The three or four in center of the spike are the upper segments pink lemon-yellow, just like pink ground. Lower petals is rich yellow with distinct and bold design of very marath red.

**Triumph**—Velvety scarlet, overlaid with deep blue and much sought for by our clients. Vigorous grower and constant bloomer.

**Cuba**—Enormous spikes of immense flowers. The segments are deep chrome yellow and by a large blotch of deep vermilion red; an immense advance over any of this type, and very distinct in the shades of its coloring.

**Golden Pearl**—By careful crossing, this will probably be the best of all the new flowers. We have frequently had flowers of it with 9 to 10 petals. It is quite regular in its growth. The color of its flowers are golden-yellow, others are yellow streaked and shaded red and blue; very dwarf; a profuse bloomer.

H. BAYNEBROOK & Co.'s new catalogue now ready. Send for it, 56 N. 4th St., Philadelphia. Adv.

**HOLLY Clean for Cash.** Fresh from the Double Leaf, sweet Afraxum from 25 in pots \$2.00 per 100.

1. PALMER GARDEN, Florida, Ashland, Virginia.

When Writing Mention Florists' Exchange

## Galax Leaves.

CHAS. H. RICKSECKER, Linville, N. C.

When Writing Mention Florists' Exchange

## HOLLY

Well berried, green; can cut either long or short branches to order. Prices are away down well at once for them. Also, Evergreens, Cedar, Peach trees, Strawberry Plants, Apparasque, Apple trees, Wild for catalogue.

HARRISON'S NURSERIES, Berlin, Md.

When Writing Mention Florists' Exchange

## BREE & KELLER

122 W. 25th Street, NEW YORK CITY.

When Writing Mention Florists' Exchange

## HOLLY

Direct from Delaware, fresh and green, well berried, \$4.50 per case; 5 cases for \$20. **BOUQUET GREEN**, best eastern quality, fresh picked, in sacks of 50 lbs., 5 cents per pound. **Bouquet Green** **Wrathing**, best quality, round and fresh made, 4 1/2 cents per yard. **Laurel** **Wrathing**, heavy, reliable quality, 5 cents per yard. Send for complete price list of all other Christmas Greens. Cash with order.

HARRY CHAAPEL, Williamsport, Pa.

When Writing Mention Florists' Exchange

## ORDER NOW FOR...

## CHRISTMAS DECORATION.

Best English Mistletoe, Fine Delaware Holly, cases 16 cubic feet, Lycopodium in crates, 100 lbs., Laurel and Hemlock Roping, Wreaths, etc.

\*\*\*\*\*

FOR PRICES, ADDRESS

C. F. MASTEN, 93 Greenwich St., N. Y.

When Writing Mention Florists' Exchange

Place Holiday Orders for Kelsey's Brilliant Green and Bronze

## GALAX LEAVES and LEUCOTHOE SPRAYS

NOW and avoid the coming rush. FINEST LEAVES and PACKING.

PRICES—  
GALAX, large or small, either color, per 1000, \$600; 5000 lots at 75c. per 100.

LEUCOTHOE SPRAYS, per 100, 75c.; per 1000, \$6.00.

Wholesalers Supplied at Very Special Rates. All Packing Original Assorted Cases for Florists, as follows:

CASE B—500 Galax, assorted sizes and colors, for \$3.75.

CASE B—500 Galax, assorted sizes and colors, \$7.50.

Terms Cash. Shipments from Boston or North Carolina. Give explicit shipping directions. Deliveries made both inland and by express. Galax by thousands, either color or size. Leucotchoe Sprays by hundreds or thousands. Samples and full information free.

Address all communications to the Introducing,

HARLAN P. KELSEY, 1123 Tremont Bldg, Boston, Mass.

When Writing Mention Florists' Exchange

## SHEEP MANURE

Cleaned and prepared especially for florists' use. You will find it the best fertilizer. For reference to its being first-class I refer you to Henry F. Sherman's "The Florist's Manual." Trial bags of 150 lbs. \$2.50; per ton, \$35.00. 4 tons at our rate. Cash with order.

Herman's Manure will be taken in exchange.

CODFREY ASCHMANN,

1012 Ontario St., PHILA., PA.

When Writing Mention Florists' Exchange

## HAVE YOU EVER TRIED THE MEYER GREEN SILKALINE?

Price \$1.25 per lb. For sale everywhere. Favor colors for tying purposes. JOHN C. FORER & CO., 87 Summer Street, BOSTON, MASS., U. S. A.

When Writing Mention Florists' Exchange



...Direct Importers of...

# ENGLISH MISTLETOE AND HOLLY

Next Shipment Due Monday, Dec. 13, per American Line. Wire or Write for Prices.

**JOS. HAHN & SON, 212 Washington Street, NEW YORK.**  
When Writing Mention Florists' Exchange

**SMILAX.**  
Finn strings, 1 3/4 cts.  
Cash with order.  
**A. J. BALDWIN, Newark, Ohio.**  
When Writing Mention Florists' Exchange

**FINE DELAWARE HOLLY**  
We have ten hundred mass left which we are going to sell for \$3.00 a case. It is well berried. Large case, 2x2 1/2 feet, prompt shipment.  
Berriest Green, \$5.00 per 100.  
Laurel and Berriest Green Roping made to order. Special express and freight rates. Cash with order. Write or telegraph at once.  
**A. LUSBY & CO., 2552 N. 18th St., Phila., Pa.**  
When Writing Mention Florists' Exchange

**THE BEST ONLY** HOLLY, GREENS, MISTLETOE, GALAX LEAVES at reasonable prices.  
**HERRMANN'S SEED STOR.,**  
A. GEFERER, Proprietor,  
413 E. 34th St., Opp. Florists' Exchange, NEW YORK  
When Writing Mention Florists' Exchange

**ASPARAGUS PLUMOSUS NANUS,** Cut Strings, 8 to 10 feet long 50 cts. each. Shipped to any part of the country.  
**W. H. ELLIOTT, - Brighton, Mass.**  
When Writing Mention Florists' Exchange

## Holly for the Holidays

Before you buy let us hear from you.

**CLEARY & CO., 60 Vesey Street, N. Y.**  
When Writing Mention Florists' Exchange

**HARDY FERNS**  
WARRANTED FIRST QUALITY.  
SPECIAL ATTENTION PAID TO SUPPLYING WHOLESALE DEALERS.  
Write for Prices.  
- ALSO DEALER IN -

**BOUQUET GREEN, SPHAGNUM MOSS, CHRISTMAS TREES,** Etc., Etc., Etc.  
**L. B. BRACUE, - - HINSDALE, MASS.**  
OLDEST, LARGEST, AND MOST RELIABLE DEALER IN THE UNITED STATES  
When Writing Mention Florists' Exchange

**HOLLY.**  
The best that can be cut. "No rusty foliage." Order now and will cut to order. Per case, 16 cubic feet, \$3.00. Cash with order.  
**WYLLIS S. CLARK,**  
613 12th St., N. W., - WASHINGTON, D. C.  
When Writing Mention Florists' Exchange

**HOLLY**  
Well berried, \$1.00 per 5 cu. foot case and **LAUREL ROPING** \$3.00 per 100 yards.  
**O. G. ROTHAAS, Box 198, Elmer, N. J.**  
When Writing Mention Florists' Exchange

Orders will be booked now for **XMAS HOLLY**  
December shipment. Prices of the above on application. State quantity desired.  
Have a large stock of **ASPARAGUS ROOTS.** Asparagus roots, 3 and 4 years strong. Cover's, Barr's and Palm-ette.  
**ALEXANDER PULLEN, Milford, Del.**  
When Writing Mention Florists' Exchange

# DO YOU EVER THINK?

Doubtless you do, but did it ever occur to you how small this old world is when measured by Telegraph or Railroad time?  
Do you know that **Caldwell's Christmas Greens** are only 40 hours from Boston, Buffalo, St. Paul or Minneapolis? 30 hours from New York or Chicago?  
We can reach you in 24 hours if you are in Washington or St. Louis, and only two or three hours more if in Baltimore or Philadelphia.  
Indite us a message some morning, noon or night, and the wires have hardly cooled before the goods are at your door—fresh from the woods, glossy and green, and the dew yet sparkling on each spray.



MANTEL DECORATION.

## Now Think!

Does it pay you to handle Holly that is fresh? We can give it to you gathered only a few hours before you need it. It comes to your door all charges paid.  
Do you get Mistletoe that is dry and wrinkled from age? Well, you ought to see ours! Like our Holly it is fresh. Berries white as snow.  
We have **Smilax, Ilex Cassinis, Magnolia Foliage, Palm Leaves, Palm Crowns, and Long Needle Pines** all the same way.  
Did you ever use **Caldwell's Greens**? If so, you know them, if not you need them. It pays to use the best. We have it in our line. "A little higher in price, but—"  
Plenty of time yet to get our handsome pamphlet, "Southern Evergreens." It comes for the asking.

**"Speed Our Specialty."**  
**"Always On Time."**

**NOTE OUR OFFER** of FIVE DOLLARS to the man who will sit on a bunch of our "smooth-leaved (?) Southern Holly" and stay there, is still open to all comers.  
**CALDWELL THE WOODSMAN COMPANY, EVERGREEN, ALABAMA.**  
When Writing Mention Florists' Exchange



## THE MEN WE MEET.

No. 3.—CHARLES H. ALLEN.

They say that poets are born not made, and the same remark holds good with florists and gardeners; but when one of the latter has the advantage of having been, so to speak, born and bred in the business, his chances of success, other things being equal, are infinitely greater than those attending his becoming an advent into this world were otherwise. Yet in his, as in the case of those less favored, the top is reached only through hard, persistent effort.

The subject of this week's sketch is one of those men who may be styled a "florist by birth as well as by inheritance." The worthy son of a noble sire, he is now recognized as one of the leaders in the craft, in the particular lines which have constituted his life-work.

Charles H. Allen, of Grand Park, N. Y., is the son of Mr. Charles L. Allen, whose name is written in horticultural literature as familiar to those identified with the trade as a household word. Young Charles, after a few wanderings, nearly forty-two years ago, removing with his parents to Brooklyn when he was sixteen months of age, then attending the public schools, and later the Adelphi Academy. When he had reached his fourteenth year he was sent up through the city at Queens, N. Y., where his father engaged in the bulb business, more particularly the gladioli, and had his home place, having been the first in America to grow gladioli for the trade on a large scale. At the age of seventeen Charles became associated with his father in business, and has remained in it constantly for the past quarter of a century, succeeding to the entire control of the concern on the retirement of his father twenty-two years ago.

The great development of the gladioli industry in America can best be measured by Mr. Allen's statement that the trade therein has increased forty-fold. Much of this result, we are sure, has been due to his untiring efforts to popularize the flower.

While not entering into the political phase of the question it is worthy of remark that the imposition of a tariff on this staple made gladioli culture in the United States a business. At this time Mr. Allen started in business, a great proportion of the trade in imported varieties and a large part of the mixtures. The removal of the tariff on gladioli growers has since then secured the trade, and was not then felt. An export trade has been instituted for some time, and as many times as many gladioli bulbs exported as were imported.

One of the uses of this flower, that ever became popular, has been originated by American growers. One very similar to that now in vogue was introduced in California, some of the flowers were sciondoble, others came in whorls, but they never varied, and the new type, of which is known as the giant-flowered is an introduction from Europe, originated by Leichten. Mr. Allen states that these, although having very much larger flowers than those of the Gandavensis type, were not so shabby, and were more sturdier, and consequently, do not suit the florist trade.

It is now over work there is nothing better than the gladioli. Mr. Allen recommends that they be grown under color or name. They can be brought in by varying the time of planting, so that flowers can be had until heavy frosts. Of course, with late plantings considerable risk has to be taken.

A number of years ago a few florists tried to grow the gladioli, but they were not very successful. In later years, however, it has been found that some of the several parties who have discovered the little secret—which consists in planting the bulbs in the soil, and growing them hot. Heretofore, this condition had not been provided, and that was one of the reasons why they were not successful flowers were not produced, aside, until along in April or May.

Mr. Allen remarks: "I would not advise any florist to force more than four kinds, and these are Shakespeare, Isaac Bonita, Brecheval and Eugene Scrie."

This gentleman's gladioli trade for a season has exceeded one million bulbs. Regarding the question of raising our own supply of bulbs generally in this

country, Mr. Allen's "American paper," for which he was accorded an "American vote of thanks" by the members of the S. A. F. at Providence, will still be fresh in the memories of our readers. The following extract from the paper referred to concisely presents his views on this matter:

"I thoroughly believe that if the matter of bulb growing in this country is handled as it should be, by those who only understand the nature of bulbs, it will only be a few years when the foreign bulb growers will receive their letters of recall from this land; but you must remember that they will not give up the business without a struggle; they will do everything in their power to hinder the establishing of this as they have every other industry. Knowing, only too well that if an American undertakes the producing of any article in which there is a show of profit that he is bound to succeed, I will ask you that at present prices it would not pay to grow stock that we import; I will ask you to get a little time to figure out what you can get from an acre of Lily of the valley, planting the pots one inch apart in row ten inches apart; frezias the same and the other stock having more space according to their size. I believe that you will find the amount far beyond your present ideas."

Mr. Allen, has been abandoned. The Dahlia, he says, is not likely ever to become a popular cut flower, and as an outdoor decorative plant it has been, to a great extent, superseded by the canna. The connection of his gentleman with the carnation is well known. It is a plant that has received a good deal of his time and attention for the past quarter of a century. His first seedling was Haindale, and he has been interested in the raising of new kinds right along. Probably the greatest improvement noted in carnation growing in all these years, is the free-flowering qualities of the plant—the breaking away from the habit of cropping. Some of Mr. Allen's predictions, in regard to what may be looked for in the carnation, we give in his own language as follows: "I believe there will be worked up types for general Summer-flowering and for general garden work. This result simply hinges on some one being willing to apply himself in this direction."

I believe, also, that we are going to get a big class of flowers on plants which will be more remunerative to grow than those yielding quantities of blooms that only bring a moderate price. In mean, we will get high-grade flowers on some of the best growing plants of the world. Jubilee, Bradt, and Flora Hill may be cited as examples. Already I have ob-

## A Handsome Catalogue.

One of the most attractive catalogues in its line has just been sent us by Messrs. H. Bayersdorfer & Co., of Philadelphia, and the whole publication is in keeping with the diversity of high-class florists' productions. It is a list that should be on the front cover appear the familiar faces of Mr. Bayersdorfer and Mr. Berkowitz, and the whole publication is in keeping with the well-known energy and enterprising business spirit, which characterizes the whole. It is a list that should be in the hands of every dealer in supplies, by whom, as the firm suggests, it should be preserved for future reference.

## An Omission.

In the report of the Grand Rapids show we failed to state who were awarded the premiums for 50 seedling carnations. The prizes taken were as follows: First, Crab & Hunter, second, Grand Rapids Floral Co., third, Geo. Hancock & Son, Grand Haven. The principal variety in Crab & Hunter's collection was a new one, called the King of the Albertini, with a strong stiff stem, and rich rose fragrance, large, full, heavy buds, and of even better color than the market variety. Hancock & Son showed a promising yellow that, in the opinion of some, is of even better color than the Mayor Fliegere. The Floral Co. exhibited a fine mixture of varieties. G. F. C.

## New Trade Paper.

THE FLORISTS' REVIEW—The Florists' Publishing Company, 320-325 Canal Street Building, Chicago. This is a trade paper, modeled after the style of the American Florist, whose late managing editor, Mr. G. L. Grant, is editor and manager of the new publication. The reason of the name of the new journal is stated by Mr. Grant in his announcement to be due to the fact that contending against certain disadvantages, and conditions becoming more unfavorable with the passing years, "my only recourse was to start a new paper on a clean foundation, whether or not this is a matter of public importance, or in which the trade at large are interested. It is not our province to discuss. The first number to hand, evidently a specimen, is so well gotten up, with its typography and get-up of the publication being well-executed. As usually the case with new papers, a goodly share of advertising patronage marks the Florists' Review's inception; and the publisher outlines various schemes, little dreamed of in the journalism of this trade as drawing cards for subscribers.

We extend the right hand of fellowship to our new competitor, wishing it that measure of success which its future conduct will justify. The country is large and may furnish a living for all, and while the present times are not propitious for the starting of a new paper of the pretensions of the Florist Review, the established papers will be quickened to meet it, and it will not be long before the losers by the coming of the new venture, it certainly will not be the trade, more especially if it can secure a content between the two Chicago papers, already noticeable in the "cutting" of advertising rates, rather than to excess.

Charles H. Allen.

"Canna has been another specialty of Mr. Allen since 1880, when he began growing them in quantity. Then it was an unusual thing to sell over ten or fifteen thousand tubers a year; but since the advent of the French types, which may be said to have been inaugurated with the variety Star of '91, the demand for canna has increased wonderfully, his sales amounting to nearly 100,000 tubers. It will always be necessary to have a large number of varieties to afford a selection of those suitable for different locations.

"I have very little faith in the Italian varieties," said Mr. Allen. "I have not found one yet suitable to our climate. Although they make magnificent cannas, the flowers lack substance and will not stand our hot Summer sun. We, here, in America, are only at the portals of canna growing. By crossing these Italian varieties with some of the American-grown cannas (which are the best extant), we are bound to obtain flowers double the size of those now in existence. Every type that has been produced in France has been improved upon here, so far; as an example, I will only cite Mrs. Farnas Rogers in comparison with Madame Crozy. It is a mistaken idea to think that we have to go either to France or Italy for new varieties in canna."

Dahlia-growing, once a ceiling with

servid indications which go a long way to convince me that my prediction will come true, in Macco and several other seedlings to be introduced shortly, the blooms of which will rank with the best, and the plants which are very free-flowering. I look forward to the time when this class of flowers will be as numerous as the smaller grades now are; and they will bring higher prices. It will pay to grow them."

Mr. Allen renders a due deed of praise to the American Carnation Society, the work of which has been a great factor in the bringing about of the high class carnations now grown. He has been treasurer of the Society for the past four years. Mr. Allen was also president of the New York Florists' Club for two successive years—1895 and 1896. He is a member of the S. A. F., and in the work of each of these associations he takes a great and active part. He is anxious to promote the highest welfare of the trade, and receives his approval and valuable support.

## CATALOGUES RECEIVED.

LYVING PERMOS, BARNEGAT, N. J.—Catalogue of Peat and Moss.  
 GEORGE W. FACOL, C. O., Indianapolis, Ind.—Pamphlet Setting forth a few facts, for the information of flower buyers.

**They must be fresh to be good—no NICOTINE in dried up kind; nicotine kills Aphids.**

**Good Kind, 75c. per 100 lbs.**

Bales, Weight 80 lbs. each.

H. A. STODOLSKY, 518 MADISON AVE., N. Y.

ROSES

100,000 STRONG PLANTS FROM 2 1/2 INCH POTS.

- Bride, Bridemaaid, Eclair, La France, Meteor, C. de Noug, Secousse de Boutton, Papa, de Goutier, Mm. de Watteville, Marie, C. Sompert, F. de Montmart, M. Desray, Mamee Cochet, Safrano.

Price—\$2.25 per 100, \$30.00 per 1000; by mail, 25 cts. per 100 additional. No order accepted for less than 100, and 500 at one thousand rates.

Samples 25 cts., prepaid.

R. H. MURPHEY, Urbana, Ohio.

When Writing Mention Florists' Exchange

2 YEAR ...OLD... ROSES ...OLD...

These Roses have been potted this time and have made a nice bushy growth. I offer them while they last at \$3.00 per 100.

PERPETUAL BLOOMING ROSES.

Clothilde Sompert, Leonie Osterheim, Mme. De Watteville, Princesse de Sagan, Mme. Sompert, Mme. Berthod, Mme. Weiche, Francaica Kruger, Malmaison, Christine de Noug, Duchesse de Brabant, Madame Elie Lambert, Rainbow, Pink Sompert, Bride, Meteor, Triumph de Hermet Pore, Kaiserin, H. M. Stanley, Marie Lambert, Marie Guillot, Pierre Guillot, Yellow Sompert, Bridemaaid, Perle, Chas. Legrand, Mrs. Desray, Marie Van Houtte, Mamee Cochet, Louis Richard. The above list in 2 1/2 inch pots at \$2.25 per 100; \$20.00 per 1000.

CLIMBING ROSES.

Two year old plants in the following varieties, \$1.00 per doz. \$8.00 per 100. White Rambler, Yellow Rambler, Pink Rambler, Climbing Meteor, No above list in 2 1/2 inch pots at \$3.50 per 100; \$30.00 per 1000.

CLIMBING ROSES.

Two year old plants in the following varieties, per doz., 75c; \$6.00 per 100. Crimson Rambler, Empress of China, Golden Rose, Rosa Wichardiana, Climbing Meteor, Mary Washington, M. Niel. The above list in 2 1/2 inch pots at \$2.25 per 100; \$20.00 per 1000.

HYBRID PERPETUAL ROSES.

Two year old plants in the following varieties, per doz., 75c; \$6.00 per 100. Paul Neyron, Comtesse Des Aups, Mamee Cochet, Chas. Legrand, Chas. de Noug. The above list in 2 1/2 inch pots at \$3.00 per 100; \$25.00 per 1000.

JOHN A. DOYLE, Springfield, Ohio. When Writing Mention Florists' Exchange

Field-Grown Dormant Stock. Free-blooming and Polypantha sorts, Hermosa, Queen Scarlet, D. D. Branner, Miniature, Mme. Cecile Brunner, etc., \$5.00 per 100.

Strong, Vigorous Healthy Stock. VERBENAS. Root Plants, Best Mammoth, \$3.00 Per 100; \$25.00 Per 1000. Rooted Cuttings, Best Mammoth, 1.25 100. Rooted Cuttings, Old Mammoth, 1.00 100. Pot Plants, Old Mammoth, 2.50 300.

CYCLAMEN

Persephone giganteum, in bud and bloom, per doz., 75c; \$6.00 per 100. \$50.00 per 1000.

CERANIUMS

All the leading sorts, pot plants and rooted cuttings. Price on application.

MISCELLANEOUS

Ageratums, blue and white... 1.00 80.00. Celosias, all leading sorts... 1.00 80.00. Fuchsias, double and single... 1.00 80.00. Pinks, few... 1.00 80.00. Heliotropes, light and dark... 1.25 100.00. Various Vines, all leading sorts... 2.00 200.00. Salvias, Spencers and Bedman... 2.50 200.00.

WOOD BROS., Fishkill, N.Y. When Writing Mention Florists' Exchange

ROSES.

Some time ago I received a rose plant with an inquiry as to what was the matter with it. The accompanying letter read that most all the plants in the house were affected in a like manner, and as the plants had been given rose treatment had grown thrifflly right along until the third week in October, the party was at an entire loss to account for the trouble. A careful examination of the plant revealed that up to its last breaks it was in the best of health. The first young growths being very soft and pithy, while the foliage was of a sickly, yellow color. The first rose buds were healthy, with the exception of the young leafy ones. These had turned a dark brown and this was undoubtedly the cause of the trouble, and could be accounted for in more than one way. Two of the principal causes of plants losing their young leading roots are—an overdose of stimulants and the taking away for such a long time that the soil becomes sour. After writing the person in question what I thought was the matter with his roses, I received a letter from him that was in line with what I had stated he thought I was right, and that it was plain to him that I was right too much manner. The soil consisted of one-fourth part manure after which he had given it a liberal watering with water and wood ashes, topping it off with a heavy mulch of cow manure; and although he had not dug the beds for quite awhile, every time syringing was done, they seemed to get more soggy. He then told me that he had tried to throw them away or what can help them? I should not throw them out by any means, although had the Winter's crop is lost. I have seen such plants pick up very quickly, and do exceedingly well later on. The best way to handle them and stir the surface soil well, and if some of it can be removed without injury to the roots, it will be better. The best way of it with new soil without any manure of any kind. Water should then be withheld until the soil becomes on the dry side, and sweet; the temperature also should be run lower, say 54 degrees rather than 60. The soil should be covered, neither wet nor get 62 degrees dull days in daytime, being careful to put a little ventilation on the house. Every opportunity presents itself. Syringe just enough to keep the bushes free from under. When the leafy leaves in proper condition for watering do so only with clear water, until the plants begin to crack well, when a watering of dilute soda, one pound to 50 gallons of water, applied once a week two or three times in succession, will loosen them up wonderfully, and incite root action. By this time they ought to be growing nicely, and should then receive the ordinary liberal root treatment, switching off from the nitrate of soda to liquid cow manure or sheep manure care being taken not to overdo the thing. H. H.

BEAR in mind that we manufacture to order any desired quantity of plants. Send for new catalogue. Bayersdorfer & Co. Adv.

STOCK 'BUMS

M. Henderson, Robinson, Berkman, B. de Noug, Queen, Niven, Chalk, Mand, Fern, Lincoln and various, imported, \$2.00 per doz; \$16.00 per 100. WM. S. HERZOG, Littleton, N. J. When Writing Mention Florists' Exchange

Leading varieties. Write for prices.

CHIT SMILAX, 15 cents per string. CHOICE CUT ROSES, \$3.00 per 100.

PANSY PLANTS, strong, \$4.50 per 1000. THE NATIONAL PLANT CO., Dayton, Ohio. When Writing Mention Florists' Exchange

ROSES. FIELD-GROWN, OWN ROOTS.

No. 1, 2 to 4 ft., cut back to 1 ft. Marechal Niel, Yellow Hamby, Hybrid Perpetuals, Masses, Hardier Climbers, Madame Plantier, and Wichuriana. All on own roots except Marechal Niel, which are grafted on non sprouting roots. Prices on application. Address W. F. HEIKES, Mgr., Huntsville, Ala. When Writing Mention Florists' Exchange

The New Chrysanthemum .. Pennsylvania

The finest yellow Chrysanthemum for cut blooms or exhibition ever produced. Certificate of National Chrysanthemum Society; Silver Medal by Pennsylvania Horticultural Society, New York Gardeners' Society and Kentucky Society of Florists.

Certificate of Merit from Philadelphia, Boston, New York, Indianapolis, Montreal, Canada, Cincinnati and Germantown.

PRICE OF PLANTS—50 cts. each; \$5.00 per doz.; \$35.00 per 100; \$250 per 1000. 50 at 100, and 500 at 1000 rates. Delivered March 15th, 1898.

HUGH GRAHAM, 104 South 13th Street, PHILADELPHIA, PA.

ORIGINATOR AND INTRODUCER. When Writing Mention Florists' Exchange

CHRYSANTHEMUMS

Stock plants from BENCH. Pink and White Ivory, Marlon Henderson, Mont. Debel, Yellow and White Queen, etc., all leading varieties. Order quick. Also collection of Dutch Plants. \$1.00 per doz; \$5.00 per 100. CHAS. L. MARSHALL, 62 Merchants Street, LOWELL, MASS. When Writing Mention Florists' Exchange

STOCK 'BUMS

Merry Monarch, Marlon Henderson, Montfort, the three earliest white, yellow and pink varieties, being ready for market the last week in September. Price, 50c. per doz.; \$5.00 per 100. Heliotropes, rooted cuttings, 50c. per 100. Ageratums, Tom Thunb, 50c. per 100. A. Monstrumum (new), 50c. per 100. E. FRYER, Berlins St. & New Lots Ave., Bklyn, N.Y. When Writing Mention Florists' Exchange

CHRYSANTHEMUM STOCK. CHRYSANTHEMUMS

Fine strong, healthy plants of: Ivory, White Queen, Bonaffon, Daffledown, Lincoln, Jerome Jones, Marquis de Montfort and Bergmann, \$4.00 per hundred. PH. EINSMANN, 3d Ave., Astoria, L. I., N. Y. When Writing Mention Florists' Exchange

Fine stock plants of White and Pink Ivory, Marlon Henderson, Glorion, John E. Lazar, Glory of Galicia, Marquis de Montfort, Mrs. Henry Robinson and Yellow Queen. 60c. per DOZ.; \$3.00 per 100. JOHN HOAG, SING SING, N. Y. When Writing Mention Florists' Exchange

Dormant Own Rooted Roses

STRONG FIELD-GROWN H. P. ROSES FOR EASTER OR SPRING SALES.....

Price: \$10.00 per 100. ORDER AT ONCE. THIS ADVERTISEMENT WILL... NOT APPEAR AGAIN.

350 Paul Neyron 350 Moss, Blanche Moreau 700 Ulrich Brunner 175 Rodocnachi 300 Magna Charta 125 Marchioness of Lorne

ROBERT SCOTT & SON, 19th & Catherine Sts., Phila., Pa. When Writing Mention Florists' Exchange

THREE WORDS FOR 'BUMS

The Yellow Fellow. Winner of the \$100.00 high grade Stearns bicycle prize in a strong competition. It gives a large graceful bloom with ordinary treatment and can be grown "a buhoper" for exhibition. Bud tinted blue. Iron clad constitution—midscean Japanese variety. 50c. each; \$4.00 per dozen.

Wm. H. Chadwick. A phenomenal seedling, the grandest novelty of the year. Star production. Certified at Chicago, Boston, New York and Philadelphia. An immense striking bloom, waxy white, occasionally frotated. Habit, growth, stem and foliage simply perfect. Any one can grow it successfully. It cannot be priced too highly. Mid-season and later. Single Plant, \$1.00; \$6.00 per dozen.

Madeline Pratt. Certified 1898. Named for the sweet little Miss on the Chrysanthemum Society's certificate. Snowy white, high built incurved flower. Very beautiful dwarf, early mid-season. Best from terminals, green cool. 35 cents each; \$2.00 per dozen.

Strong, healthy, young plants, from 2 1/2 inch pots, distributed March 1st. ....GROVE P. RAWSON, Elmira, N. Y. When Writing Mention Florists' Exchange

...The New White Chrysanthemum...

# FRANK HARDY

THE mid-season market white of the future, indispensable for the market grower and for the exhibitor. Highest honors at the leading shows in competition with all the best whites on the market, and the highest average of all varieties exhibited before C. S. A. Committees this season, with 92 1/2 points from Exhibits at New York, Boston, Philadelphia and Chicago.

## Strong Young Plants Ready March 1, 1898.

Price per plant, 50c.; per 12, \$3.00; per 100, \$30; per 1000, \$150. Not less than 25 at 100 rates, and 250 at 1000 rates. Cash from unknown correspondents.

A. HERRINGTON, Florham Farms, MADISON, N. J.

When Writing Mention Florists' Exchange

# CHRYSANTHEMUM STOCK.

Why take up room with ordinary or inferior sorts? Poor color, weak stem, bad foliage and poor keeping quality mean a loss to the grower. If you plant 100 to 500 of a variety, you want stem and color to hold till cut. We give below a selection of varieties that can be fairly classed as such leaders. **FRANK HARDY**, Bonnafont, Mrs. J. Jones, Madison, N. J.

Stock is perfectly healthy, not a rusty plant among over 25,000 planted, and not weakened by excessive use of stimulants.

**FRANK HARDY**, prices, unless noted, \$1.00 per doz.; \$7.50 per 100; not less than 1 doz. plants at this rate, and not less than 50 plants at 100 rate.  
**MRS. H. WEEKS**, Mrs. Robinson, one of the finest white, early in foregoing class and at same price. Perla, Mrs. H. Robinson, Maud Dean, Miss J. Dunham, Mrs. H. W. Wainwright, H. E. Widgeor, Yellow Queen, W. W. Coles, Ivory, Mrs. M. Kay, Twombly.

**CLARA GOODMAN**, In 3 plantings one of the very finest yellows in our collection, beautiful in color, with a elegant stem and growth. No. 1 in all respects. Late; an introduction of Vick & Hill. 35c. each; \$3.50 per doz.

**LIBERTY**, An excellent late yellow, very bright in color and O. K. generally, dwarf.

**FRANCES B. HAYES**, An elegant medium sized incurved late pink, very pleasing in color and form, dwarf.

**MISS HELEN WRIGHT**, A beautiful incurved white, might be termed an early Mrs. J. Jones, at times tinted violet, adding to its attractiveness, dwarf and No. 1.

**MISS GEORGIANA PITCHER**, A beautiful incurved yellow, of a very attractive shade, and as pleasing as Bonnafont. Middseason, dwarf.

**HELEN BLOODGOOD**, A beautiful medium sized incurved early pink, massive bloom, in habit rather tall, very distinct.

**NEW YORK**, This variety pleased us as much as any white grown. Large reddened flower, with elegant foliage. 35c. each; \$3.50 per doz.

**GOLDEN WEDDING**, One of our perfectly clean stock. Plant August 1st and you will not likely have any "burn" trouble, and second grade flowers.

Make up your order now, we assure you of good quality stock with liberal and candid treatment.

### FOR SPECIAL QUALITIES

and at same price as above:  
**Gold Lode**, Boston early white; **Merry Monarch** and **Bezzaman**, early white; **Glorie of The Pacific** and **Wm. Simpson**, early pink. **Esop**, Giron, early crimson; **M. Patek**, elegant, 2d early yellow; **Lady Fitzgerald**, extra early, pure white; **Just named variety**, 15c. each; \$1.50 per doz.; \$10.00 per 100.

**Other Varieties** in stock at general price of \$1.00 per doz.; \$7.50 per 100, not less than 12 plants at this rate, nor less than \$9 at 100 rate. **Pink Ivory**, **Harry Hurrell**, Indiana, Mrs. E. Buetner, Mrs. H. Battles, **Ruth Ellen**, **Violet-cut**, **Brigid**, **Fisher's Torch**, E. Dilledouze, **Harry Balsey**, H. L. Sunderbruch, K. Lech, **Louis Allen**, Mrs. S. W. Murdoch, Mrs. Baid, Philadelphia, **Princess Teal**, Mrs. Theodora, **Bellevue**, **Miss G. Miller**, **Oakland**, **Erminida**, **Miss M. M. Johnson**, **Moderato** (a little white in front).

### NOVELTIES

Of certified novelties we offer the following at 50c. each; \$2.50 per doz.; \$10.00 per 100, 9 plants at 100 rate, 250 at 1000 rate.  
**Booker** & **Lorelei** and Mrs. Beckert, **Esler** & **Eskal** & **Defender** and Geo. S. Kibb, **Mill's Golden Trophy** and **Thanksgiving**, **May Elvina** and **Erangelos**, **Smith's Merula**, **Mrs. Glesner** and Mrs. Eyrson, **Spaulding's Belle of Castlewood**, C. W. Ward, **Dorothy Devona**, **Dorothy Spaulding**, **Ernesta**, **Golden Wonder**, **Maud Adams**, **Mrs. Jan. Withers**, **Mrs. McCArthur**, **The Harriot**.

A number of Novelties in small quantity.

Terms Cash with Order.  
**THE F. BECKERT, Glenfield, Pa.**  
 9 Miles below Pittsburgh, Pa.  
 When Writing Mention Florists' Exchange

# E. G. HILL & CO., Inc. of Maryland.

## We are Headquarters for all the Best Varieties.

### Chrysanthemums.

Send your orders to us for whatever number you may wish of the Certified **NOVELTIES** to be introduced in March, 1898. By so doing you will save money and time.

We have to offer of our own productions, **Solar Queen**, magnificent yellow, extra large flower. **H. W. Langfellow**, a white variety with all the characteristics of Bonnafont. **Black Hawk**, a decided advance in a red. **Quito**; this is Mr. Brydon's fine pink, a double **Maud Dean**, with more color in it. **Autumn Glory** (Yoshiliko); This to our thinking is the Star of the year for commercial purposes; won universal admiration on account of its fine form and decided color; easy to grow. **Boundless Snow** (Yoshiliko); This is an early white; style and build of **Vivand-Morel**; ready October 15. **W. H. Chadwick**, Mr. Lawson's fine novelty. This you will want; we are privileged to test this fine variety; it is a beauty. Then we have arranged to offer all the certified novelties at the same price as the originators send them out, as **Frank Hardy** (Herrington), **Pennsylvania** (Graham); **Mrs. C. H. Peirce** (Dorner); and all the other varieties certified by the Chrysanthemum Society's Committees. Then we have **Mrs. H. Weeks**, the finest white variety we know; a real gem from England. **Australian Gold**; you cannot do without this golden chrysanthemum. We exhibited this, and received certificate from New York Committee.

There are only a few certified novelties compared with previous years, so send in your order and let us book you now for 100 or for the set.

Every lover of Chrysanthemums will want Mon. Calvat's magnificent

novelties which he gave out the past Spring. There have never been introduced so fine a lot before. These have won honors without limit in France and England. Nearly every variety having won certificates. They were in the winning class at the great London Show last month. In February we will have these ready to send to our patrons. You will need them at the exhibitions next Autumn if you expect to win. Many of those cost us from \$4.00 to \$6.00 apiece last April. We will send you 25 varieties of Calvat's '97 set for \$1.00, including **Miss Lucie Faure**, N. C. Jubilee, M. B. Verlot, Marpa, and **President Nonia**, and all the prize takers.

### Carnations.

We have three superb varieties which we have selected to disseminate the coming March. We want, however, to give them a thorough trial year. Our desire is to follow with worthy additions to our well-known **Trumpet**, **rumble**, **Jubilee** and **Flora Hill**. After the holidays we shall announce their advent. You will find them described and listed in our January, '98, list.

We have all the good introductions of 1897: **Flora Hill**, **Mrs. Bradt**, **Mayor Pinrose**, **Victor**, and others, at very lowest prices, consistent with good, clean stock. **Jubilee**, **Trumpet**, **Ernesta**, **Emma** W. Oakes, and all the standard sorts at lowest prices.

Don't forget that you can secure from us all the new Carnations for '98, at disseminators' prices, thus doing away with the necessity of dividing your order.

## Our Plans for 1898

Provide for a comprehensive service in every department of the paper. As these courses are developed our subscribers will be able to judge for themselves. Certain it is that no stone will be left unturned to make 1898 the banner year for the FLORISTS' EXCHANGE, and its advertisers and subscribers.

Founded in 1888, the publishers and editors of the FLORISTS' EXCHANGE have unflinchingly worked side by side out of season, harmoniously worked together in the endeavor to make the Exchange a paper of national importance. Beginning at the very bottom, practically unknown, and with only a few subscribers, it has steadily worked its way to the very front, and begs to assure its friends, whose names are legion, that it intends to stay at the top. This position it will maintain by strict attention to business, by keeping straight along the path which has followed so successfully all these years.

As in the past, we will give full value for money received; but we "throw in" nothing.

In this age and country there is no royal road to success.

The FLORISTS' EXCHANGE has never made, and never will make resort to schemes of questionable policy to enhance its circulation. It is a paper for whom it owes allegiance and whose interests it makes identical with its own. There are legitimate ways to which true journalism may go. Beyond that, catch-penny affairs are sure to bring the paper into disrepute. It is a paper that is like a two-edged sword, cut both the public and the newspaper, inflicting irreparable injury on both.

Don't throw away your money speculating in futures; they are more often not than uncertain and evanescent. Invest where your returns are sure; in the FLORISTS' EXCHANGE. Write and subscribe for a paying established medium—the FLORISTS' EXCHANGE.

The FLORISTS' EXCHANGE obtains all the news of the florists' world. Its reports are always "there" whenever and wherever anything of importance is going on. It is not just a paper that has no hiccups, hence the information it furnishes is at all times up-to-date and reliable.

Six Thousand Copies of the FLORISTS' EXCHANGE are mailed every week; the major portion of this large edition being subscribed for by men in business for themselves, and not just for their sons, that, having paid for the paper, they read it from cover to cover. In this connection an advertiser writes: "From the first insertion of my one-inch advertisement in your issue of September 18 (1897), I saw over 17,000 advertisements. This is conclusive evidence that the FLORISTS' EXCHANGE is read from page to back cover, and its contents thoroughly scanned, for the advertisement referred to in my issue containing thirty-one (31) other advertisements was not near any reading matter."

## Florists' Fire Insurance.

The meeting of the members of the Florists' Fire Association was fixed for last Monday. No election was had and the meeting adjourned. The principal reason for the postponement was that a number of persons whom we were instructed to vote for as directors had not filled their applications for membership. It was agreed to re-sent out until late and are being re-sent out, but it takes time to round up matters.

As soon as sufficient applications are in policies will be issued. A misunderstanding has arisen over the requirement that heating pipes shall be properly insulated. The present committee are of the opinion that it is not sufficient to wrap wood near the boiler when it is very dry, and dangerous, but that in the green-wood condition it is not so dangerous, and ordinary circumstances are not dangerous.

The rate fixed is thought by some to be too high. It is believed by the committee that it is higher than future assessments will be but that it is safer to start too high than too low, and all will benefit by it in the future if too high.

W. J. Vasey.

## Chrysanthemums—Season of 1897.

Once again have we come to the end of the season of the chrysanthemum and once again do we all cast a look backward, and pausing, commune with ourselves as to the outcome and the lessons to be learned.

Regarding the most patent test of the exhibition our reports have shown that financial disaster has followed in all the leading cities, indeed Chicago alone offers an exception to this unpleasant truth. And there is in our two explanations, one is not interested; either the general public is not interested in these Fall exhibitions, or the exhibitions themselves are conducted on an incorrect or improper basis. Either of these reasons or both together must be held responsible. The first assigned reason may be but the result of the latter, and at all events, so far as we are concerned, self searching is the line of inquiry to be pursued:

Are the Fall shows conducted upon a sound basis? We fear not.

The present exhibition of to-day is not an encouragement of the cult of the flower from which it takes its name; it is a display of the actual market attainments of the time, for is it not a fact that the self-same display of varieties can actually be seen by anyone who cares to take a walk through the florist stores of the vicinity? The paucity of the varieties staged is apparent to everyone who considers for a moment, and not only that, but there is a depressing similarity in one show as compared with another far to be respected. The florist varieties of to-day are all indeed be some what of a surprise to many readers to see the statistics given on another page.

But do these facts and figures point a moral? At all events, one way to alter the present situation would be to encourage the exhibitor to sell a reality, instead of the multiplication of varieties, and so cut adrift from the commercial tone which now saturates the whole.

The mere exhibiting for the material gain of a cash price, a motive which, we fear, is far too common, is another depressing feature. Recent events in New York City have demonstrated very forcibly that the best and most interesting shows are not necessarily those at which the money inducement is made the great attraction to the exhibitor, and it is interesting to consider how to avoid it. Precisely similar conditions prevail in England, and to which the Gardeners' Chronicle refers. It is a reality, it would seem that when enthusiasm and not sordid gain is the prime mover from the exhibitor's side, the public interest spreads to the outer world. Whether this be a problem to be explained on psychological grounds, or not, is not the subject of the present discussion, but certain it is that the public always has, and ever will, disregard the matter of the profit, and will seem that a small exclusive circle, unless the proposal to do so emanate from without, will not be likely to be of any avail. In these conditions we do not now suggest, merely pointing out the facts as they are.

Advice from various sources tell us that the most faulty of the day is the mere "sizing display" of the usual plants do not lend them to any such arrangement with others. Why, one of the reasons for this is that the exhibitor, when used alone for hold effect than when its individuality is obscured by other varieties, is not so well supported the ground previously taken that these exhibitions under discussion are to be held for the purpose of promoting the chrysanthemum, but rather for showing off the florist's side of the exhibition, and to show that the flower show to be at its best must be a flower show, and not a show of the decorator's art.

## Notice.

In portion of this issue, on page 1131, occurs an unfortunate transcription of the names of the committee for the H. Weeks and Solar Queen. The former variety is that showing the flowers in a yellow color.

## The Water Garden.

CHANGE OF PRICE.—On and after January 1, 1898, the price of "The Water Garden" will be Two Dollars, regardless of the quantity of copies ordered. If a subscriber to this paper, Readers are requested to note this change in the "Change of Horticultural Books" they have recently received from us.

## Reflections on Current Topics.

A good deal has been said lately on the subject of the nomenclature of chrysanthemums—an evidence that the topic is one of vital importance. That being the case one would expect to find in the printed records of the Chrysanthemum Society of America, a nomenclature that is absolutely correct. However, at the risk of being considered hypercritical I would like to draw attention to the following discrepancies, appearing in the "Catalogue" list of the names of the ninety-seven seedlings exhibited before the committees of the Society during the year 1896, which is printed in the report of the Chrysanthemum Society of America (vide report of Proceedings of thirteenth annual convention, held at the Crystal Palace, N. Y., in 1896, page 117). In that report occurs the name "Trainer," doubtless meant for "Trainer," as it is also mentioned as being two distinct varieties, whereas the name is Mrs. Trainor. L. Park, the inventor of the variety, under the word "Trainer" being responsible for the discrepancy. There are one or two other instances of errors in the orthography of the names, such as "Loria" for "Loria" (Lorelei); "Marsia" for "Marsia" (Marsia) as always formerly appeared. These errors are not only a discredit to the Society, but also an individual—the printer; but they are none the less flagrant; and as I believe that the Society should be beyond question, I beg to draw the attention of all concerned to the above-mentioned facts.

I am pleased to notice that this journal has taken up the question of duplication of names. Nothing can be more confusing than the application of the same name to two or more varieties, no matter whether all but one have gone out of existence or not. The Chrysanthemum Society should do everything in its power to discourage this objectionable practice.

The Society should also adopt a rule (and rigidly adhere to it), setting forth the names of the varieties to be shown to the Society under number. While examination under number may be permissible and often times necessary, as was clearly pointed out in the report of the exhibition under name should be insisted upon. For instance, Number Eleven, "Crown of Thorns," should be insisted upon to be continued (after the style of Number One of Feulan name) means not that no one thing should be certified, but a detailed explanation in verification of its original existence; a necessary but unnecessary proceeding that could easily be avoided.

The French Chrysanthemum Society gets over this difficulty in this manner: The exhibitor sends with each variety submitted for adjudication the name of such variety enclosed in a sealed envelope, and the exhibitor is not permitted to attach to the exhibit; and the committee only opens those envelopes which are not so sealed. The varieties considered worthy of being certified, the names being bestowed before the certificate is issued. The French Society does not certificate a number, and in my opinion neither should the Chrysanthemum Society. The names in the case I have pointed out. The system of naming adopted here requiring no certificate, is a commendable one, in view of the faculty of originality, to conform to its needs, there should be no difficulty in meeting the system's demands. J. M.



## Exclusively a Trade Paper.

Entered at New York Post Office as Second Class Matter

Published EVERY SATURDAY by

A. T. DE LA MARE PTC. AND PUB. CO. LTD.,  
2, 4, 6, & Duane St., New York.

P. O. Box 1897. Telephone 2154 (Central)

REGISTERED CABLE ADDRESS  
Commercial Cable Florize, New York.

## SUBSCRIPTIONS:

\$2.00 per year to United States, Canada and Mexico. Advance development of our subscribers in every country in postal union. Payable in advance. New subscriptions will commence with the first number after receipt unless otherwise ordered. Back numbers can be supplied upon request. The date on address label shows when the subscription expires and is the subscription receipt. No other receipt is sent.

## ADVERTISEMENTS:

Copy made through this office not later than Thursday in order to secure insertion in issue of the following week. Special positions for sale. Discount on contracts of one month or longer. Orders from unknown parties must be accompanied by cash or satisfactory references.

## BOOKS.

Send for our catalogue of horticultural books, just off the press. It contains all the leading publications in this line.

## Contents.

CARBONATIONS	1116
CATALOGUES RECEIVED	1116
CULTURE OF THE CHRYSANTEMUM (11 HILLS)	1124-1128
Analysis of varieties	1134
Chrysanthemum in Chicago	1134
Season of 1897	1135
Specimen Plant Grown in Japan	1135
COOPERAGE	1135
CUT FLOWERS PRICES	1142
FIRE INSURANCE	1142
WE METHER, TALE	1141
MYSTERY AMONG THE	1141
PLANS, OR, FOR 1898	1141
PLANTS AND FLOWERS	1138
REFLECTIONS ON CURRENT TOPICS	1129
HEADLINE	1129
SEED CLOVER INSECTS IN OHIO	1116
SEE TRADE REPORT	1118
TRADE NOTES:	
Boston, Newport, R. I.	1137
Buffalo	1137
New York, Philadelphia	1137
Chicago, Cincinnati, Pittsburgh,	1137
Portland	1137
St. Louis	1141
TRADE PAPER, A NEW	1137
VIOLET DISEASES	1121

## For the Busy Man.

Robert Craig, of Philadelphia, is seriously ill and is about to die. He is a busy man.

Yampa is proving a very satisfactory late white chrysanthemum in the West.

It is reported that Superintendent William Macklin will shortly resign his charge of the Buffalo parks.

This is our "Chrysanthemum Number." If it is not too late for a large assortment of cuts of the new and standard varieties of Chrysanthemums. Parties wishing to see these in color should send for a printed matter will do well to write us for particulars.

The topic for discussion at next meeting of the Chester County Carnation Society will be "Is the American Carnation Society of any use to the Society?"

John H. Dunlop's (Toronto) new rose-sport from Sunset—has been christened by the "Aberdeen" "Mary Doreen," in honor of a little deceased daughter of her ladyship.

## Chrysanthemum Illustrations.

The publishers of the FLORISTS' EXCHANGE have for a large assortment of cuts of the new and standard varieties of Chrysanthemums. Parties wishing to see these in color should send for a printed matter will do well to write us for particulars.

For Index to Advertisements See Page 1136.



Specimen Plant Grown in Jadoo.

Our illustration is from a photograph of a specimen plant of Miss Florence Pullman grown in Jadoo fibre by William Robinson, gardener for John W. Pepper, Esq., Jenkintown, Pa., and shown by him at the exhibition of the Pennsylvania Horticultural Society, November 9 to 13 last: He received first prize for it in the class calling for best specimen plant white. The plant had 84 blooms averaging six inches in diameter. The specimen itself measuring about six feet through, each stem being well foliaged right down to the pot.

Mr. Robertson gives his method of treatment as follows:—  
The cutting was struck in January and put in a 4-inch pot about the first of February. Five weeks later it was shifted into a six-inch pot; in May being grafted into a six-inch pot, in June Jadoo fibre. Later shifts were made in the same material, and about August 1 the plant received its final shift into a 15-inch pot in which it was exhibited. When the buds were set started watering with Jadoo liquid according to directions, about twice a week, gradually increasing the strength until the blooms were half-developed, when a half of the liquid in a much weaker form was given. Altogether I used about half a gallon of the liquid on the plant.

Chrysanthemums in 1897.

Mr. A. Herrington's Opinions.

A comparison as to supply and demand between the present and previous years would appear to prove no decline in the quantity of the queen of autumn, although some of the more noted growers greatly reduced their quantities from their usual experience. It was hardly a day in the height of the chrysanthemum season when the market was not entirely in the purchaser's favor.

With all this glut, however, and prices disastrous to growers, my own experience is still, as always, room at the top, and high quality produce is rarely in excess long in finding a purchaser. I base this conclusion upon shipments totaling several thousands of blooms, the same averaging 20c. after express and commission deductions.

In regard to varieties popular, well-grown flowers of Mrs. Henry Robinson that can hold up their heads are invariably first choice to whites. The season again proves that the general public want and always give preference to selected varieties. Shipping Major Bonaffon and Miss G. Bramhall at the same time, both of the latter in the central standard point, the Bonaffon throughout their season sold for exactly double the Bramhall. The latter, therefore, goes into the class of bad sellers, but in light yellows it is hard to beat for exhibition, and in light purples it is hard to equal.

No new kinds were on trial with us this season, at least of American origin, but the importation of a few from the second season here, surpassed even our own. Among these were a few of the Bribe rose, that the offspring, though a sport, may surpass the parent in merit. In the latter class, the variety of flower Frank Hardy shows marked improvement upon Good Gracious, while the fact that the latter is the only variety of the Chrysanthemum Society of America, but that the average of points of merit has declined before our eyes, our committee is 92%, is rare testimony to merit above the ordinary level.

It is extremely rare to have only the second of its kind, attracted rather more notice than its predecessor; but when you see it in the first showing, it occurs to me to ask another question, has it ever been sufficient, and in how many

places can a chrysanthemum of any flower show be made financially successful from the door receipts? Make it gratuitous and it is crowded; charge on admission and the American public does not want it.

In exhibiting this season we have confined ourselves mostly to single vase classes, and have in every case been first or second, most often first, with Mrs. Henry Robinson, and Frank Hardy in white, Major Bonaffon and Golden Tending in yellow, and Vivand-Morel for pink.

Pompan varieties will have their day perhaps when beauty is no longer measured with a yard stick and the foot rule is not requisitioned to find the diameter of the blooms on show. This brings me to a point that you have not raised, though less overlooked in the series of questions. Have the big blooms had their day? There are lots prepared to answer "Yes"; and others are asking, "Give us natural sprays that show more of the grace and beauty of the flower." It occurs to me that those exhibited had better band themselves into a chrysanthemum missionary society and secure a

substantial appropriation to assist the florist while the public is educated up to the appreciative point at which they will pay remunerative prices. Even sprays of chrysanthemums have to be cultivated. A year ago a noted New York florist and decorator said to me: "The public are getting to be more particular in their choice of big blooms; don't grow them." I grew mostly big blooms, but some sprays extensively. A large box containing nearly 50 graceful sprays averaging ten blooms to a spray, was shipped as a trial, and the magnificent sum of 50c. was the return.

During the past season I have seen no evidence of any recognized system of classification governing the exhibits, but have seen Japanese involved in classes showing as classified, but there will ever arise types showing subtle gradations that make them appear to belong to no class defined and may it even be, for in this alone shall we get salvation from the stereotyped results that follow when things conform too easily to arbitrary classifications or approved types.

A. HERRINGTON, Madison, N. J.

E. G. Hill & Co.'s Opinions.

Supply and demand were about the same as last year; prices were about the same; high-grade stock selling out clean; second and third-class barely paying for shipping.

The greatest demand was in whites, for Lady Fitzgown, which far outshines Bergmann in this section; Mrs. H. Robinson, fine stock in over-spray, as everybody grows it, and nearly everybody can do it; Mrs. Jerome Hayes and Yonoma, a grand late white in fine condition will go to December.

Yellows—Earliest, Marion Henderson; second, Golden Trophy; third, Sunderbruch and Bonaffon; midseason, Mordock; late, H. W. Robinson and Oberlin.

Pinks—Gloria of the Pacific, Mrs. E. G. Hill, Lady Flamingo, midseason, Mrs. Perrin; first quality pink varietal season all through the season. We still lack a first-class late pink, Indiana, being the best, and it has a bare neck.

All varieties, failing, to show a clear bright color, a stiff or waxy stem, and good foliage, have sold very poorly and

in crimson-scarlet color, but rather scarce of petals. Marcia Jones and Sunrise are two extra fine specimens; Halcyon not so good as the rest; flowers are almost inconspicuous, the disc too prominent.

The two early whites, Midge and George S. Kalm, will receive a further trial next year; Midge, with us, was the larger and finer, while Kalm is much the freer grower and a very easy doer. Evangeline has made a good record for a beginner. We have seen enough of Mand Adams to lead us to try it next year for commercial late yellow.

The committee of the Chrysanthemum Society of America made few mistakes in scoring last year, we think, the 48 certificated varieties disseminated the past Spring being an unusually good collection. We have not Secretary Smith's completed reports as yet, but we think the number certificated the present Autumn will not reach 25. We enclose descriptions of seven sorts awarded certificates and grown by our firm; Australian Gold is Calvat's celebrated yellow sent out last year; Quito was raised by Mr.

Specimen Plant of Miss Florence Pullman Grown in Jadoo Fibre.

proved a loss to growers; magentas, a somewhat mixture of colors are not wanted at our prices. The new ones of the year certificated by the National Society here, but, next year, we think will see a goodly number of them take high rank. Adelaide is like a very late yellow; Western King is another grand, late white. If only it gets into freer growth, as we hope it will by another year. Chito, bronze, and Kentucky, pink, are enormous exhibition varieties, deep and tall; C. W. Ward and Merida, while not of extra size, make up for it in height. Dorothy Sandring, we feel sure, will rank very high among pink sorts, and J. H. Woodford is one of the most promising and beautiful white sorts of the year. Gold Standard is a magnificent bloom, but will be especially described on account of its graceful habit and long vase. Enrich, Mrs. McArthur, and Mrs. Tyson are three grand additions to the whites; T. B. Morse raises its petals too easily. The Harrington is one of the handsomest of the crimson-maroons with reverse of silver. Deinder is unsurpassed

Jas. Brydon, certificated at Boston, '96; Roundless Snow and Autumn Glory are Mr. Yoshike's two seedlings; the latter is probably the finest seedling of the year, especially as a first-class pink is still so badly needed.

DESCRIPTIONS OF NEW KINDS.

Australian Gold (Calvat).—Three and a half to four feet on bench; use first growth; one of the very fine of the broad petalled increasing varieties that can be had in bloom by October 20. Owing to its earliness, the vase can't amount feeding too late, which will cause it to burn. Awarded numerous certificates abroad, also by our own national society, the New York committee giving it 91 points.

Roundless Snow (raised by H. Yoshike) awarded certificate of Chrysanthemum Society of America; height sent three feet; requires no staking; very large and of Inter-Ocean type; color white, flushed pink, gradually becoming pure white. Comes in about same date as Mrs. Robinson. Take the first growth had.

Autumn Glory (raised by H. Yoshike).—Height 4½ to 5 feet; use terminal bud. November 5 to 15. A grand crimson-clad pink as an unsurpassed exhibition variety. There is nothing like it in

color, which is a deep reddish salmon upon opening and gradually changes to a soft shining pink, when fully finished. The flower is of the general shape of Vivald-Morel, is of the largest size and has no troublesome peculiarities. Has attracted marked attention wherever shown. Awarded certificate by Chrysanthemum Society of America.

Solar Queen (Hill).—Height 3 feet on bench. The first crown, October 17; heavily foliaged from the ground up to the flower; an extra fine variety for "single stem pot plant," brings a very large bloom with a height of 20 inches. Color, golden yellow, shading lighter; flower of extra size, averaging 10 inches across by 3 in depth. Very valuable as an early yellow, and can be had in grand shape for the early exhibition. Totally unlike every other yellow, both in form and foliage and destined to take place

full and solid. The following are all of this type: Mile. Elise Jordan, Odé Nall, white, bronze, and lilac, and Model of Perfection. Marie Stuart is a pretty little anemone pompon with pink rays and yellow disc.

In regard to revised classification, we do not see any need of it yet so far as chrysanthemum culture in America is concerned, but it is clear that more prominence should be given the Chinese varieties in our exhibitions, as exhibitors simply draw out new, and often most beautiful of them when they must come in competition with the big ones. We miss a great deal of grace, finish, and beauty when the Chinese section is absent from our flower shows.

For the twelve best cut blooms, for exhibition, we would name: Mrs. H. Weeks, Mrs. H. Robinson, Modest Autumn (Glory, Australian Gold, Mrs. George West, Mrs. W. C. Egan, Eugene Dal-

chrysanthemums, and there certainly is something distinctive about them. It is very seldom that an imported variety can be made to show its best the first season after arrival, but the following we found very conspicuous even when not done to the best advantage.

Mme. E. Roger, greenish crown, seagreen at the center, broad, incurving petals with green points, a fine flower aside from its color.

Mme. Farlat, pure white petals pointed gold, incurving.

Mlle. Lucie Faure, pure white, petals incurving and ringleted, large, deep and finely finished; very promising.

N. C. S. Jubilee, pale mauve, silvery reverse, large incurving.

President Nolin, chamolys-yellow, pale reverse, broad incurving petals, dwarf habit.

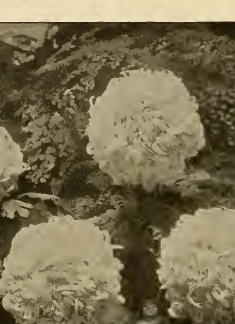
Marie, orange-yellow, petals slightly twisted.

overdone, so that purchasers get tired of these varieties. There is no doubt, after the first named varieties are gone, that in white and green colors, the best are to be had for the latter part of October the best we have; but I try to get them sold by the first of November. Now we have other varieties ready to take their places. The next in line shape by the first of November are: Niveus, Queen, and White King; the first named is simply grand, of fine to an, the purest white in color, with no green at the center, and the foliage is delicate and will hardly stand the middle of the season. It is a very fine variety, and I think, as good as any I have ever seen. The Queen is a very good variety of fine size, being not too large; it is of fine color, and I think, as good as any commercial variety as yet we have obtained lately. Some will not have that way, and will not be satisfied with it, but, however, we will see whose opinion is the correct one. Mayflower is certainly popular yet, being so large; the people offered \$5 per dozen for the biggest blooms; the variety is not finely finished and is not too clean in its color; it is a milk-white. New York, right after Mayflower, is a bold heavy flower, but with more delicacy of color, and more grace and looks rather shabby, otherwise I like it. The variety Eureka this year has been fine, but the flowers are not so fresh as that account break easily; otherwise it is a very chaste variety. Adelaide is pretty, but it does not grow so fresh this year as it did this season. It will not stand in the race for a first-class white. White Star has made a good showing, but exhibitors which, when well done, are very pure; the only fault I have to find with it is that the stem ought to be stiffer, but even with this fault it is much admired. It is of very easy culture. Western King is in perfect condition at present and certainly is a fine variety; if it will only show more constitution another year it will have a permanent place. Niveus and the Queen should have been classed in the November 15 to 15 varieties. I do not grow the Queen any more, and cannot do without Niveus. For the latest white Yonno is fine—large and pure, of a handsome balanced form.

In yellow Golden Trophy was the earliest this season; it was ready by October 15. For some people it is a very light light, but it is very near the color of Bonifant. Harry Hurrell is one week earlier in good color, and with a nice, rounded form in the style of Richmond—a good commercial variety. Next to that is Georgetown, which I think my customers prefer to Philadelphia, and it sells well as well. George S. Conover was some time out, but has now come in good shape till October 25, but it always is a good seller. Then comes Major Bonifant, a good one; ever since I met like Robinson, it suffered in our markets in being in over-supply; and it seems as if the poorest grower can get some good flowers of it. Next to the Major in our markets comes Modest and Golden Wedding, but from what I have seen of Modest, I do not think it will be able to push Golden Wedding aside; some flowers of it are very fine, but the stem is so delicate in stem and substance. The color is excellent. The plant is a gross feeder, and it is not so good as the other variety were better understood it may still find up and be very popular.

Major Bonifant is not much grown, but it brings good prices. Eugene Dalldouze is not much grown, but it brings good prices. It is not, however, a good commercial flower. Liberty shows up well as ever. No. 20. An English variety which resembles the Queen, but is a grand one; it is in it is over. Thomas, which is in it is overdone; it needs good culture and, with that, it is a grand one for the close of the season.

The so-called pink varieties have all suffered in color in being from 25 to 50 per cent lighter than they are in ordinary seasons, and in October 15. The first named is entirely too much for them. The earliest were Glory of the Pacific and Elvona, and the latter is a very fine one, but it is a show-bush rather a very pale color; then, too, it makes a rather short stem, very few flowers, and it is not so good as the other variety. Elvona is most graceful with its petals, and it shows a very fine substance to the flower which is its other light. Both varieties brought very high prices, and they are in the best season and the best in color was Madame Felix Perrin, rather a truer pink than I ever saw, and it is in the best season. The color fades quickly in its best season, and the flower is of too light build to show a good form after a few



among the very best flowers. Awarded certificate by Committee of Chrysanthemum Society of America at New York and Chicago. Very free in growth and easy to do well.

Black Hawk (Hill).—The most beautiful dark crimson-scarlet yet raised; looks like crimson velvet and does not show a trace of the reverse color, being of Vivald-Morel form; the very color long lasted among reds, and of grand size. It is a tall grower, but not stiff stems. As with all the reds, beware of late feeding and use a quantity of chlorine in the soil. Use late cuttings; either bud. First prize at Chicago for 10 blooms best red tested seedling; also Chrysanthemum Society of America certificate by the Chicago Committee.

In regard to pompons, we find that there is a great deal of interest, and ever shown, the sprays of cut blooms being especially decorative; in a retail cut flower trade they are greatly enjoyed for variety. The following sorts we have found very beautiful: Two crimson-scarlets, perfect in form, and approached in color are Black Douglas and Ruby Perfection; two crimson-mauves are President (Syn., Mr. Murray) and Wm. Kennedy; two fine yellows, Souv. de Jersey and Wm. Westfield; the clean color, the former very bright. The bronzes are St. Thais, Prince of Orange, and Mrs. Bateman. Elsie Walker is a golden-bronze flambé variety for all the world like a French marigold. Adele Frisette is a marbled lilac-rose.

Then comes the type of which Mlle. Elise Jordan is a fine example; these recurve their petals in a most marvelous way until they are as round as a marble,

Frank Hardy.

Chizeo, Geo. W. Childs, Georgiana Fitcher, Charles Davis, and Mand Bean.

Six best cut blooms for exhibition—Mrs. H. Weeks, Autumn Glory, Australian Gold, Mrs. Eugene Dalldouze, and Mrs. Geo. West.

For best twenty-five blooms, one variety—White, Mrs. H. Weeks; yellow, Eugene Dalldouze; pink, Mrs. H. Perrin; red, Geo. W. Childs; bronze, Chito; or other color, Le Colosse Grogach.

Best six specimen plants—Colonel W. B. Smith, The Bard, L. Canning, H. L. Sanderbrack, Chase, Davis, and Bonifant.

Best three for exhibitions (specimens)—Col. W. B. Smith, The Bard, Bonifant, and Mrs. H. Robinson.

Best twelve single-stem in 6-inch pots—H. L. Sanderbrack, Geo. W. Childs, Mrs. H. Robinson, Mutual Friend, Chase, Davis, Lawn Tennis, The Barrington, Mierva, and Major Bonifant.

Other notes: Mrs. H. Weeks, an English variety of last season has proved one of the best things of the year. It is of very pure white color, elegantly incurved, resembling Mrs. Robinson in a general way and following its own line in time of blooming. It is the coming exhibition white, we think, as it is often hard to keep Mrs. Robinson in good condition for the late shows. It is easy to manage and has a fine stem and foliage.

#### CALVAT'S NEW VARIETIES.

We have bloomed the set of these this Fall, and from what we have seen of them, and from the record they have made at the English shows, we feel sure that they are a remarkable lot of chrysanthemums. The originator speaks of his seedlings as the "Calvat race" of

#### Mr. Theo. Beck's Opinions.

I believe the season in these parts has been fairly successful. It is true that last year was a roughy October and up to the 20th of November at \$2 to \$3 per 100, we hardly could expect to get \$25 for choice chrysanthemums. But the retail prices have kept up well (I mean for choice flowers); \$3 per dozen has been the ruling price with few exceptions for very select, the price for which reached \$5 per dozen. One thing is certain, there has lately been an over-supply generally, and roses have suffered the most. Really first-class chrysanthemums have sold out; but some of them went as low as \$12 per 100, the smaller flowers going down to about 100.

I am satisfied that a great many people by noting that chrysanthemums as long as the flowers last, are very anxious for them to come into bloom and is sorry to see them go. I, for one, believe that the chrysanthemum will receive its full share of the popular favor as every year we have new forms and shades to catch the eye. The interest in the Autumn queen. As far as the varieties have been handled in our market, Mme. Ferdinand Bergmann was the earliest, and she is the best in color, and the best in form. Lady Fitzgram ready at the same time; the latter variety sold at about \$2 per 100 higher; not that she is doing any better than that of Bergmann, but I think because it is, or was, not grown so extensively. The blooming time was early and informal in form the people preferred it. Bergmann and Mrs. Henry Robinson are in their respective seasons

days. A good many of them have sold at low prices. Maud Dean is very little grown here. Betty Buck makes a good substantial flower; but has been rather poor in the same line. Its best varieties are A No. 1. Dorothy Spaulding shows a large yellow center, and as a cut flower it will not rank very high. Mrs. Theo. H. Becker has shown extremely white for the first time in three years; too much so for a delicate color like that. The same holds good with Pink Ivory; after the main flowers were gone, all the stems were pure pink with one, which proves that the color is not lost. Mrs. S. T. Murdock is a good late lavender pink and sells well.

The bronzes, plum color, red, etc., don't count much of a figure in our markets. For red Geo. W. Childs is the main variety. A few Shrimpton were seen, and I met with some blooms of Defender. Fisher's Torch, I did not see at all yet. I think this variety shows the best color of them all. Mrs. Drexel was shown on exhibition in good shape, but was not seen in the open market.

The best bronzes around here are: Col. Wm. B. Smith, Autumn Glow, and Chito. The two last named make very large flowers and can be grown with profit in small numbers. The Col. Smith sold rather better this year. Viscontesse des Chelles is too soft to be a good commercial variety. Mongolian Prince is rather a pretty flower, but not much larger than a pompon. Lava Tennis is beautiful in form, but people don't care much for the color. The same holds good with Anæsthetic, Whitnall, and West, all three plain colored.

One remark I wish to emphasize is that our growers here should not drop Vivid-Morel even if it don't show much color. Grow more Mrs. Jerome Jones. It was not shown extensively enough in our markets. Both varieties have not been duplicated yet, and none of them has a superior in its own class.

Of the novelties I have seen this year, I rather think there are few that will make a way for themselves in the next few years. Pennsylvania I saw displayed at Philadelphia and Cincinnati. It is identical with Philadelphia. The form and stem are fine, foliage poor, size medium, but large enough. I myself don't like it on account of the peculiar streaks in the florets; they look as if they had been cut out of rice paper. However, I think it deserved a certificate. One variety was shown under the name of Mrs.

C. H. Petrie. It is a fine clean yellow, in the form of a "Honey-Bell," with not so many petals that variety, but they are of a stronger build, and the form is certainly more pleasing to the eye. The center is deep, and about 14 to 15 inches over the flower; stem and foliage were good, as was the foliage. It was shown at the flower here from November 20 till December 5. A variety which I will send on next spring is Mrs. Wm. B. Brown; it is milk-white in color, 5/8 x 5/8 deep, very full, upper florets incurved and the lower ones spreading like a fan to the stem. The flower measures 15 to 16 inches over. All I claim for it is that it is a grand commercial flower for Thanksgiving and will easily make a place for itself.

Other varieties I have seen that have gained certificates are of very undecided colors, and I do not think that they will make great headway as commercial flowers.

The varieties which showed well in displays are very numerous. I will mention some good ones for that purpose: In 15 or 16 varieties Mayflower, Mrs. Robinson, Nivens, The Queen, Mme. Philippine Riviere, Mrs. H. Weeks, Evangeline, are all good in white; Major Bonnafon, Golden Wedding, Harry Hurrell, H. L. Sanderbruch, Philadelphia, Georgienne Braunhall, and Modesto are good yellows, as also are Georgiana Picher and Eugene Dullehouze. In pink, Mme. Felix Perrin, Mrs. S. T. Murdock, President Smith, Lady Playfair, and Vivand-Morel, C. B. Whitnall, Mrs. West, and L'Anæsthetic are good dark varieties. Casco is a finely colored flower, but too scarce yet. Mrs. Drexel, Defender, and G. W. Childs are good reds and wine color, also the Barrington and Cullingtoni when well done. For bronze, Col. Wm. B. Smith; Chito will also be a good one for that purpose. Autumn Glow is excellent, so also is Nyssa.

In the 10 and 25 vases, white, Mrs. H. Weeks, The Queen, Nivens, Mrs. H. Robinson are the front; in yellow, Golden Wedding, Major Bonnafon, Modesto, Georgiana Picher, H. L. Sanderbruch, Eugene Dullehouze and Henry W. Eleanore are grand; the largest flowers are certainly best shown in Mayflower. In pink, Mme. Felix Perrin and Mrs. S. T. Murdock as well as Vivand-Morel are in the front rank at present. In reds Childs, Defender, Fisher's Torch, and Mrs. Drexel hold the fort there; in bronzes, Col. W. B. Smith, Chito, Chas.



Pennsylvania.

Davis, and Mongolian Prince are all fine, as is Autumn Glow for late show. In specimen plants, white, Mrs. H. Weeks, L. Canning, L'Enfant des deux Mondes, Ivory, and Dean Hole are good; yellow, H. L. Sanderbruch, Minerva, and W. H. Lincoln; in pink, Fred. Walz and Louis Boehmer; in red, Geo. W. Childs.

For single stems, 19, 25, or 50 classes, H. L. Sanderbruch, Major Bonnafon, Golden Wedding, for yellow; Mutual Friend, Mayflower, Robinson, The Queen, for white; Helen Woodgood for pink; Childs for red; Vivand-Morel, Lava Tennis, for mauve; Marguerite Jofards or Col. Wm. B. Smith, for bronze. L'Anæsthetic is fine in dark.

For 10-inch specimens, Fred. Walz, Ivory, Mrs. Weeks, Sanderbruch, and Lincoln are fine; for 8-inch pots, Childs, Fred. Walz, Bonnafon, Ivory, Dorothy Spaulding, Rachas, Dean Hole, Minerva, Louis Boehmer, Mutual Friend, L'Enfant des deux Mondes, W. H. Lincoln, H. L. Sanderbruch are all more or less good.

Pompon, I think could be grown with profit if raised as show flowers with five or six blooms to a stem and the following varieties are fine in their color: William Kennedy, dark crimson, Model of Perfection, pretty pink; Black Douglas, a very dark variety; Elise Dorian, a beautiful pink, and Mrs. Bateman orange-brown. This collection may be extended if more varieties are wanted, but those named are good.

From all reports the shows in this district have been successful, so far as the displays were concerned, but the Indianapolis show, which I attended, was not well patronized by the public. There was a grand display of palms and decorative stock; but I believe, not enough chrysanthemums to suit the great rank and file. Palms are all very well for some people, but most of them want to see flowers and lots of them. Last year the Society gave some fine premiums for Mayflower, Major Bonnafon, Vivand-Morel, H. Eleanore, Eugene Dullehouze, and Mrs. E. Bigelow. Those vases were left out this year and on that account, the display was curtailed by about 25 large elegant vases with 25 flowers to a vase. Again a class for pot chrysanthemums was withdrawn, so that the exhibitors in pots was not up to last year's. The show was also a little early for the best result.

The managers must furnish premiums sufficient to attract exhibitors. To offer 25 blooms in the different colors \$10,

\$7, and \$5, will not conduce to displays of grand stock. Then again for specimen plants in 12-inch and over, premiums of more than \$7, \$5, and \$3 are desirable. It takes three plants to show one, and the balance not shown are sacrificed for cutting for cheap flowers. I believe that for the premiums for 10, 15, or 25 cent blooms, the flowers should be all shown under name and not as the best white, the best yellow, etc. The way things are handled now there are about five or six varieties that find favor, the rest standing out show.

In plants I would like to see more classes for groups, say a group of 10 yellows in 10-inch pots, and so on through the colors; the same for 15 to 25, 8-inch pots, in separate colors, and for the best groups of 25 plants in 8-inch pots, all colors. I would omit plants in 1-inch pots which are generally too small and cheap looking to make any show. Give the public nice, closely-set groups in solid colors, and in varieties, and you will have better show.

Just but not least, welcome to an item which is of great importance—classification of the chrysanthemum. The question is a difficult one to handle, and I would like to see a free expression, say from 50 of our best chrysanthemum growers on that point, then let the Chrysanthemum Society of America take the best suggestion after due consideration by a committee or otherwise.

THEO. BOKK.

## Mr. Grove P. Rawson's Views.

The supply of high-grade chrysanthemum blooms has been considerably in advance of former years, and there was also an increased demand locally.

Good flowers sell, same as with roses, carnations, etc., while poor stock—and there is always an overplus on the market—goes begging. Measly chrysanthemums are a disgrace to the family; and these numerous "black sheep" sort of flowers discredit the noble flower. Willed or bedraggled chrysanthemums simply terrify.

Of course, there is the annual wheel from the head centers. To be sure, this is lots of work, handling and shipping the blooms, and pretty rough handling too. I find arguments in favor of other markets. The facts of the case are, chrysanthemums have lost some of their popularity, and it is time to offer them their appearance early in the Fall, and the

in demand—the ladies like it. But poorly grown there is nothing to commend it; ditto Mrs. Perrin, Mrs. Jerome Jones, Mrs. Ferrin, and others of variable color possess a much clearer tone grown in the open than when they are in the greenhouse. If in a cool house they should not be cut until thoroughly matured.

Lady Playfair grown cool is a lovely pink after the order of Mermel rose; in heat a dull whitish color, not near so attractive. Glory of the Pacific suits me for an early pink; it is profitable to the grower. Iora is proving an excellent early midseason pink. Katherine Leech is a pink chrysanthem that must become a standard commercial variety for midseason.

Lillian Russell is the nearest approach to lavender—a clean, solid color and very artistic bloom for early midseason. Marion Henderson should not be planted too early to secure best results. Vigorous young plants, from 2½-inch pots, planted on benches not before the 20th of June, will give better blooms and earlier than those planted June 1. It is a variety that must be grown quickly without check. Let chrysanthemum growth meet with some sudden check, and disease will thereafter get in its work almost invariably. This is true of most any variety. Varieties of rampant growth should not be planted too early.

Plant Mrs. Mumlock out middle of August, using vigorous young stock, and grow cool. You can cut excellent December blooms up to Christmas.

As this variety never shows a center, it is the best sort for the latest blooms. For very late Maud Dean shows the eye.

Mrs. Humphreys, or Snowball, is an indispensable late white. I don't know of anything more useful to the average florist. My two best selling varieties for yellow, are the Irony and Bonaffon, for color in chrysanthemums, or at least next to white, are Major Bonaffon and the Yellow Fellow. The latter one grows so easily, is robust and free, with large, graceful blooms, of a very bright yellow, and an excellent keeper and shipper. In the bud state it is shaded bronze; but matures bright and clear. I believe it

will be generally well liked. Anybody can grow it, and with liberal treatment it is a whopper for exhibition. The phenomenal variety of the season, and this is certified by many connoisseurs, is Wm. H. Woodford, which has not been met with for many a day, and a variety that needs no expert to handle it perfectly. Its mammoth, grass-green blooms with half a chance. Like Bonaffon, Mrs. Jerome Jones, and Mrs. Mumlock, it can be had midseason or late, according to treatment.

It seems as though George S. Kall would become a standard early white, also Golden Trophy for an early yellow, grown as Glory of the Pacific on low benches. Too far from the glass, and both of these lose in color tone.

Of the new varieties I like Frank Hardy, Evangeline, Mrs. H. Weeks for exhibition plus J. H. Woodford, Casco for red. Thanksgiving for bluish pink, Autumn Glory for exhibition, and Mrs. Trainor L. Park, Mrs. R. D. Douglas, Mrs. John J. Glessner, and Sunstone among the yellows. In referring to new or old varieties of chrysanthemums, it is well to allow latitude for personal taste and choice. It is well to differ sometimes. It relieves monotony. I wouldn't overlook that old standby, H. Waterer, for a late cut bloom of bright yellow and red bronze. I wonder if Mr. Robt. Craig grows it as well as he did a dozen years ago? I saw that Philadelphia and it has remained with me a steady standard variety ever since.

As to bush plants, select those that are naturally compact, with the foliage good, and above all, short-necked blooms, as Bonaffon, Ivory, Cullingfordi, The Bard, Glory of the Pacific, Cheddard, J. H. Whitford and the like.

For standards the best one is Hicks-Arnold. There is no use to attempt standards unless you propose to do the thing up brown. Start in early, and Wm. H. Lincoln is grand for this purpose, or for a general pyramid. The hard is susceptible to training skill. It evidently was well bred from good stock. Select June and July cuttings for single-stemmed plants; give plenty of air, and grow them for all you are worth.

Miss Gladys Vandercilt.

demand lasts until after Christmas; while good Bonaffon for Decoration Day and June weddings and ceremonies brings \$5 a dozen.

On the average, prices are lower than formerly, but this is also true of every florist commodity. Prices have varied according to size and quality—\$1, \$1.50, \$2, \$2.50, \$3 and \$3.50 for bunches.

For a stunning decoration properly done, the chrysanthemum eclipses any other flower that grows or blows. I have proved this time and again, publicly and privately. The reasons are obvious. What brings the flower into ill repute is the quantity of unfinished blooms forced upon the market. You cannot sell poor roses to advantage, nor chrysanthemums.

Whether exhibitions are a success financially or otherwise, from my experience and observation, largely depends upon the management. It is something of an art to get at the public pulse, but when you are in "touch" every nerve tingles.

One needs to study human nature and wisely provide for contingencies and emergencies. Some have nerve; others nerves! In my local exhibition, which was as popular as ever, I tried a new scheme—display for decorative effect. Hundreds of blooms were massed, of one color or variety, and in different positions, the whole enhanced by brilliant lighting and abundance of greenery for harmonizing background. One got the deep public interested in the flower, and you have created demand. Work for the masses. The aggregate of trade is the sum of all its parts. Cater simply to the "society" and you are a slave without perquisites. I tried, once upon a time, a "class" distinction was made between the business, I assure you. Flowers are modest socialists. The love of flowers is born not bred, and knows no social distinctions. In fact, it often levels rank and file. The prices and peasant costume together in horticultural row without any loss of self-respect or patronage.

The classification of chrysanthemums will invariably call out a wide difference of opinion, and whether the various authorities will harmonize is indeed a question. At present I am in something of a quandary how to class Peter Kay. When this variety was transferred to Mrs. E. H. Spaulding for value received, unless there was some agreement to retain the name of Peter Kay, it should have been known thereafter as certified by the Chrysanthemum Society. I confess I did

not recognize Peter Kay at Syracuse as Jeanne Falconer, nor would I have recognized (casually) Mr. W. C. Egan, Lady Playfair as exhibited by different growers. Philadelphia was deep enough a yellow for Pennsylvania, but not enough, another "seedling" was in evidence, which bore so close a resemblance to the subject of this controversy, that personally I was not able to detect distinctive individuality. Synonymy is the sin of nomenclature, and its detection is conviction.

The best twenty-five varieties, except some of the stand-bys—which are everybody's collection, depend upon the skill and taste of the grower. Almost every writer names some that are strangers and pilgrims to the majority. In my opinion, the Irony and Bonaffon, are upon the subject, and I, for one, would discharge the obligation. Varieties, however, the Irony and Bonaffon, are as fixed stars in the chrysanthemum firmament. Exhibition varieties depend upon the skill of the grower for distinctive merit. It is possible for an expert to grow even a mediocre seedling up to a certificate, but its reputation would collapse after a general trial. Mrs. Robinson needs to be grown without check and cool, otherwise she is a disappointment on account of this natural defect, the Queen is returning to public favor.

Yellow sports from white varieties are in the order of straw or canary, as yellow Mayflower, yellow Jerome Jones, Yellow Queen, yellow Philadelphia, the color tone of Pennsylvania, the yellow sport of Philadelphia, is compared to the golden yellow of Bonaffon. Bonaffon is a pleasing clear yellow, but not at all golden; and Pennsylvania is nearer straw than chrome. One of the best all-around varieties is Hicks-Arnold, and a very popular cut flower and profitable to the grower.

Speaking of bronze, the term is so general that it loses its application; it needs to be modified as yellow-bronze, red-bronze, bronze-terra cotta, etc. Any yellow variety with some hot or shade yellow lights up much more effectively than the clear tones that are seen at their best in the light.

Cullingfordi is altogether the best all-around red. There seems to be a grower, unidentifiable for a variety of reasons, Belle Pottevine invariably attracts general attention, while for sprays grown naturally there is no other red pink white to compare with it. Well finished blooms of Pitcher & Mandis are greatly



Glory, introduced by Henry Yoshikue, at Oakland, Cal., and grown by E. G. Hill & Co., Richmond, Ind., the best I have seen. A description of it has already been given. Washington, a cream white, grown by E. G. Hill & Co., is a good one, but it was not shown before the committee. It is not a large flower, but will be a splendid seller. Chas. W. Crouch is a Japanese pink, and quite a good variety. As to white or yellow, I have seen nothing so far, that will displace some of the varieties now in commerce.

Regarding exhibitions, we have long since stopped giving them when we were obliged to rent a suitable place and then charge an admission. Our flower market, most any Saturday afternoon, is equal to many shows that are given, and at which a price is asked to view same. Our people all know this, and a chrysanthemum exhibition here would simply be a failure. Then again, we give exhibitions on the second Saturday of every month in the club rooms, above the market; at 2 P. M. the doors are thrown open, and the public is invited to inspect the exhibits free of charge. This, we claim, does more than anything else to promote the love of flowers: It is also

year, occupies space in the greenhouse, otherwise hard to fill, gets cleared off in time to add up benches with other important crops, so that if some growers, in a measure, drop out, others will take their places, as every season tends to show.

At first, it was the writer's opinion the past Fall, that there were fewer growers than last year, but when the aggregation was looked up, it was found that the number had increased. This is particularly true among the big growers; one having this year more than doubled their supply, and reporting the houses with from 60,000 to 70,000 as their quota. In this particular case no fault is found with the sales, but it is claimed that not enough of the small cheaper flowers were grown—a point the writer often has commented on. Yet before me, embracing 35 growers, represents a total of 257,000 blooms, and certainly there is at least 100 growers that ought to have been included in the list, so that it may be safely stated that a million flowers have been disposed of in this city from all sources.

As to prices obtained; taken as an entirety, it is doubtful if as much money per

such as Bonafant, Mrs. Robinson, Mayflower, Evelina, and the like. The old Ivory has not been so satisfactory this year, and needs to be grown to a very high grade nowadays to sell well, except perhaps in the cheaper grades in which it ought to find a place. The Niveus type are not favorites, although they are good growers.

Of the newer ones grown in sufficient quantity to judge of their merits, among the best are Nidge, Western King (stock hard to get), Mrs. Perrin, Modesto, Evelina, Yanoona, and Lenawee.

Very early varieties are Lady Fitzzygram, Marion Henderson, Glory of the Pacific, Mrs. Hillin, Mine, Bergmann, Miss M. M. Johnson, and Mrs. Robinson. Midseason and late Eugene Lelidoux, Golden Wedding, Mayflower, Mrs. J. M. Wood, Major Bonafant, J. E. Lager, Vivand-Morel, Mrs. Jerome Jones, Maid Bean, W. H. Lincoln, Harry Baisley, Mrs. H. Robinson, The Queen, Ivory, Modesto, Golden Wedding, Liberty, Pink Ivory (if it will come pink), are among those likely to be grown for this market another year.

Seedlings or sports have not been notable in this city this year. W. N.

education of the buyers to distinguish the varieties, the price would undoubtedly be lower. In fact, the market would be grown quite cheaply and pay? The writer believes so, and thinks it worth trying.

One notable feature in a class of flowers so numerous and varied as is the chrysanthemum is the fact that there are a very few varieties generally grown in quantity or conspicuous as sellers, dense figures in the chrysanthemum market at wholesale and retail, is the rule; all of which could be remedied did but the grower take the pains to select the name of every kind he shipped. However, it is quite within the range of possibility for the grower to get down to a few varieties for market kinds, bouquets and carnations. This condition could be remedied by the grower, and the growing of plants for exhibition purposes, which furnish a greater volume of flowers to the market.

Very few reds, bronzes or odd kinds are called for over the counter.

EDGAR SANDERS.

#### In New England.

In comparison with other years the chrysanthemum season in New England has not been a marked success; but taking the sale of standard varieties and special flowers during the present Fall as a criterion, it cannot be said that the quantity of flowers of autumn has met the prestige which it has so successfully maintained during the Fall and early winter months of the past decade. The conditions surrounding the growers and the weather have not been so much as to be active of ten strikes in any locality during the declining months 1897, and though chrysanthemums have sold at suicidal prices at times, the misseason particularly, the reports regarding the weather, and the fact that there has been little, if any, more encouraging.

The flower business appears to be starting to pick up, but the growers, formerly with us, the fashionable set preferring to spend the delightful Indian summer among the mountains or abroad.

Of course, the supply has increased many times during the past year, but there is another feature which has perhaps more direct bearing on the growers' returns than any other of this year. Some growers, and large growers too, who count their product by the tens of thousands, have not been so active in quantity only in view and furnished this market with wagon loads of flowers which would have sold for ten or twelve dozen. This product has, of course, never interfered with the higher grades; but, in the year these flowers were so abundant, diminishing their output, wonderfully improved its quality, so that thousands of chrysanthemums which formerly have found a ready market at \$2 per dozen, this year, found only a moderate demand at from \$1 to \$1.75 per dozen. In fact, this immense production of good blooms has lowered their price and knocked the demand for second-grade flowers completely out. As a result, a much better grade of good flowers is on the street than has been seen for many years, and it is so common that the better class of trade dealers are now buying them in quantity.

Some shrewd florists who are generally not large growers of chrysanthemums, have been buying up the second-grade flowers, and that other flowers, the business generally, and the chrysanthemums themselves, have been sold at a price which will merely aggrandise without attempting to discuss it here.

At the close of the season was satisfactory to the grower, the market taking the entire supply of early varieties at from \$1.50 to \$2.00 per dozen. The market was glutted and remained in that condition for several weeks. Thanks to the weather, the market has lately quieted, though of better quality, have not found the demand of the first classes. Chrysanthemums which were sold in November, when the weather was favorable, the florist business has been only a fair one, but it is not to be drawn out, when of desirable color (the straight colors, yellow, pink, white, and red), but of better quality, and a good well grown, in good condition and of medium size, has found a fairly good demand at a fair price. The market has been on an average, prices for good blooms at from \$1.50 to \$2.00 per dozen, and according to quality and demand. The call for the highest quality of flowers, and the fact that the market is perfect finish and magnificent foliage, at prices which make it profitable to grow them, is a fact that has caused many growers to a single stem, two to five flowers to a plant being the average in a

#### Autumn Glory.

educates the public to demand the better grades, and it stimulates our growers to raise better stock. It also enables the buyer as well as the grower to enjoy the flowers upon an equal footing, and makes many a sad heart glad.

As to exhibitions, the market has very little use for them, as our growers do not attend any of the foreign shows and at home such blooms are not required.

Pompan varieties are all right and should be more largely grown, and a beautiful little chrysanthemum, and sells readily at \$1.50 to \$2 per 100 wholesale. Belle Pathe is a new idea, but the stock of this variety seems to be almost extinct.

Another classification of chrysanthemums, it would be a hard matter to suit every one, but after all the work is done, you will find them sifted down to about twenty-five varieties for commercial purposes. Hundreds are now classified that are out of existence, and the list should be boiled down until only a live list remains. To do this it would be necessary to circulate printed lists to all the leading centers of America, to competent persons, asking such to cross those varieties not grown in their locality, or add to the list, as the case may be. A compilation of this information, then would be valuable to the florists of America.

E. G. GILLETT.

#### At Chicago.

There is every indication, so far as this city is concerned, that the chrysanthemum will be a factor in the Fall flower market for some time longer at least. It comes at so opportune a time of the

season was realized this year; last; but for high-grade flowers, probably the prices were about the same, running from \$2 to \$4 per dozen. This class does not represent over 10 per cent. of the whole, and the most of them range from \$2 to \$3, the next grade from \$1 to \$1.50 per dozen, but more favorite prices, while the lower grades very often have been the actual grower more than \$3 to \$5 per 100, after losses and commission have been deducted. The extra grade flowers find no sale, even at \$3 per dozen; but the call then is more for florists' window decorations than for general use. Then came a drop into the prime midseason varieties, and the chrysanthemum season proper opened with a bang, and business remained about the same as last year. A good many growers, and thanksgivings, though not very large, such as can be grown cheaply with a profit.

As regards the best sellers, in color they stand first yellow, second pink, third. The latter color was this year the scarsest, partly owing to the tendency of Pink Ivory to revert to the type. Vivand-Morel also has been off color, and did not sell well this year. In fact, flowers of its type are not so much in demand as are the incured Japanese or, if reflexed, the more perfect in form,

#### Australian Gold.

Rudd's Mrs. A. J. Caton is a fine bronzy-yellow and looks as if it had a future.

The Horticultural Society of Chicago held its seventh annual flower show which was successful in every way. Cut chrysanthemums were, of course, the principal features, and the pot plants in both bush and single-stem form were exhibited in lesser numbers than in former years. This is to be regretted, as cut flowers of themselves are not strong enough as drawing cards, the show requiring other striking features for general effect and attraction. An exception should perhaps be made in the tree or standard class; these were more in evidence. The single-stem pot plants on the line of non-competition. To keep up the year these growers are to be congratulated for one color, it really requires very large premiums to induce more competition. The next class those who exhibit for the large premiums in certain classes will have to be debarrated from competing in classes calling for the small numbers, else those with monstrous plants will not be able to draw exhibits, will carry away the premiums, and the smaller growers will cease to be competitors.

This is particularly true of roses, which interferes somewhat reducing competition. Of the pompon class there is not enough shown to the market to warrant me giving an opinion on them as sellers. However, lacking a critical edu-



the auspices of the Rhode Island Horticultural Society was superior in many respects to those of the past three or four years. This was due to the fact that the fact that the hall wherein it was staged was more centrally located than for several years past, but that there were no disadvantages to flower exhibitions. There is not a suitable hall in the city for the purpose, and but for the fact that one or two have made all the display and, of course, captured all the prizes. It was, therefore, a matter of no competition and consequently the attendance was decidedly larger, and indeed was the largest since the show of 1897 will about balance both sides of the ledger.

The system of judging this year also showed improvement and this point the public are quick to recognize. The price of admission to the hall remained the same at 25 cents; but instead of charging an additional dime for a seat in the balconies, these were thrown open, and an increase was made in the number.

It can be stated with certainty that public interest has greatly increased, and that the amount of money made this year it was only possible to show specimens of rare plants and flowers that, while having a great value to the collector, was by the average layman. A large mass of small potted and foliage plants grouped in a very orderly and artistic manner, and the tone and does not have a tinge of the significance or impressiveness that one usually observes in a well displayed fern would have. Then again, tall, giant stalks with one bloom nodding gracefully by itself, or less than two, with a large top of plants heavily laden with flowers. These criticisms may not be accorded with the impression of the but they are what I overheard at the recent show, and I believe are worthy of consideration.

The most popular exhibition varieties here may be summarized as follows: **Best of white.** Mrs. Jerome Jones, Mrs. Evelyne, Queen, Mutual Friend, Missie Wanamaker, Mrs. Jerome Jones, Mrs. Virginia, Mrs. Maud Dean, Mrs. Murdoch, Lady Playfair, Major Bonaffon, H. W. Rieman, and Modesto.

**For six blooms—Queen, Mrs. Jerome Jones, Major Bonaffon, Modesto, Mrs. Maud Dean, and Mrs. Murdoch.**  
**Best vase of yellow.** Major Bonaffon.  
**Best vase of white.** Mrs. Jerome Jones.  
**Best vase of pink.** Maud Dean.  
**Best vase of red.** Callington.  
**Best vase of bronze.** Harry May.

Attention has been given by the growers here to plants for exhibition purposes, this line of work being left to the horticulturists, and for this reason it does not show anything that was particularly remarkable.

Pompon varieties are not grown here and do not appear to be in favor—certainly not with the growers—and a few flowers that were introduced by one of the retailers two or three times from Boston were an entire loss. What the public trade in is, however, the small and sized blooms of clear color, solid incurred being preferred.

The best variety classification of the chrysanthemums it would seem to me that it would entail considerable study and time to do so. They are so close so much mixed that it is hard to draw the line between the two.

H. MASON.

### Best Selling 'Mums in Chicago.

Kennicot Bros. Company, the wholesale cut flower merchants of Chicago, have indicated their opinion that they find the following varieties of chrysanthemums the best sellers in the market of that city:

**Class 1. 'Market For All You Can Grow.**  
Yellow, Golden Wedding, 'Major Bonaffon, H. L. Sunderbruch, Modesto; yellow and bronze, Gladys, Mrs. Murdoch, Fern, Vivand-Morel; white, Ivory, Western King, Missie Wanamaker, Mrs. Jerome Jones, and Mrs. Virginia.

**Class 2. Market For a Fair Quantity.**  
Yellow, Golden Gate, Mrs. J. J. Gleason, Lady Playfair; red, Mrs. Drexel; white, Mrs. Gladys, Mrs. Murdoch, Mrs. (odd), John Shrimpton; white, Mrs. Robinson.

**Class 3. Market For a Few; some are new varieties.**  
Yellow, Lincoln, Mrs. Virginia, Eugene Dailleouze; white, Frank Hardy; pink, Mrs. Higginbotham, Autumn King, Mrs. Altona.

### At New York.

The season of 1897 will be remembered in chrysanthemum history for several reasons; primarily, for the fact that, in a business way, it has been the worst ever recorded, many growers finishing the season with averages 50 per cent. lower than those of 1896, and the returns of that year were considered low. Speaking for the majority, and leaving out very few special growers, the general average for all the varieties marketed will not exceed 85 per cent, and many will find themselves with not more than 85 as against \$8 to \$11 for the previous year. There are a few exceptions to this (but these number less than 20 all told), who averaged lighter, and a few of these, strange to say, surpass any previous year that they have been on the market, their average reaching \$15 to \$22 per 100.

But it is correct to state here that the number of blooms grown was smaller than usual, and their general average of quality was higher; the price of the first year were included. It is estimated that there were nearly 100,000 flowers less this year than in 1896, thus making the total about 500,000. In money value in 1896 they realized in the

calculations, and that much later in reaching the market with the variety, while on the other hand, some growers were early.

The season opened on the same date as last year, September 18; but was prolonged nearly two weeks. In 1897, on November 23 practically wound up the season and on November 30 it closed. This year at the first named date, there was a full supply, and on December 4 more blooms were seen than at the second date named in November of the previous year; and a few remained in evidence as late as December 11; so that the season has been just that number of days longer, and it is safe to say that the last half has been the best for general stock and average prices, a fact which has given many growers encouragement to raise the same quality another year. It is hardly to be adding to indicate, at the present moment, that there will be any lesser number grown, or that the chrysanthemum will be one whit less popular or profitable than now. In fact, with better business conditions prevailing, an increased popularity may be anticipated; for despite the continuous howl to the contrary, the chrysanthemum as a decorative flower to-day is popular over it was.

Maud Dean maintained her high standard of popularity as a leading late pink; Mrs. Jerome Jones came in sometimes as a rival, but she has been out of favor since Eugene Dailleouze, H. W. Rieman, and W. H. Lincoln, are all good as late yellows. Mrs. Virginia, Mrs. Murdoch, and Mrs. (odd) that appeared in 1896, it was fully expected that there would be a big percentage of them in the market. Very much to the favor this year, and that many of the older kinds would be outpointed; but such has not been the case. Very many of the newer kinds cut no figure at all and others only moderately so, except the variety known as Mrs. Harry May. Mrs. Traimor L. Park Ivory. These two realized the highest prices obtainable, and the latter was the only one that exceeded the \$4 mark in bulk; sometimes making \$3 and over. Eugene Dailleouze, H. W. Rieman, and Mrs. Harry May, in color the best on the market, its weakest point being size which it lacks; but despite this drawback it realized good prices and averaged high. Glory of the Pacific proved to be better than was expected, and will have to be ranked now as a standard early pink. The color of the Pacific proved to be better than was expected, and will have to be ranked now as a standard early pink. The color of the Pacific proved to be better than was expected, and will have to be ranked now as a standard early pink. The color of the Pacific proved to be better than was expected, and will have to be ranked now as a standard early pink.

together with the grandstem and foliage, make it one of the best. It also realized high prices, and was very popular. The selling price, Sanrice proved to be the best early red up to date, and was very popular. The variety known as Mrs. Harry May, in the main list quite a number of varieties has not been mentioned, which may be taken as an indication that they failed in some particular or other to come up to the market standard, or were lacking in shipping or other respects.

### Market Review.

On September 25 our market report read as follows:

Chrysanthemums made their appearance in the market on Friday, and a few blooms have been arriving each day since. The varieties were Lady Fitzzygram, Mrs. Murdoch, Mrs. Maud Dean, and Montmore. Prices varied from 12c. to 40c. per bloom; but the demand for the supply was limited. Several large growers will begin cutting heavily Friday, and it is always early to bid and never get right again, so that not more than 20 marketable flowers was the result; yet, another instance of a product that is sold in 100. Dorothy Spaulding and J. H. Woodford proved fairly acceptable. The market also observed a place as a late pink. There may have been others deserving special mention, but it so they did not come under our observation. In the main list quite a number of varieties has not been mentioned, which may be taken as an indication that they failed in some particular or other to come up to the market standard, or were lacking in shipping or other respects.

This section seems to have an unusual quantity of early blooms; many places in the market are full of them. Besides those received at the wholesale commission houses across town, chrysanthemums were also seen at the Exchange, Thirty-fourth street.

W. Gunther received from Leach Bros., Newark, N. J., a lot of Mrs. Harry May chrysanthemums; Mrs. Gasteller will have the variety, the flowers being of good quality. The flowers were first of the season to arrive in this city.

October 2 we said: Chrysanthemums, Mrs. Murdoch, Mrs. Maud Dean, and Fitzzygram, and Gasteller are quite numerous. The first named brings on an average of \$3.00 per 100; Mrs. Murdoch, after that the prices vary from 15c. to 12c.

October 9 we reported: Chrysanthemums, Mrs. Murdoch, Mrs. Maud Dean, and Glory of the Pacific all made their appearance on Monday. The flowers were of good quality. The varieties named last week helped to supply all possible demand. The variety known as Mrs. Harry May, according to the size of the blooms generally, they realized all they were worth; and the variety known as Mrs. Harry May, according to the size of the blooms generally, they realized all they were worth; and the variety known as Mrs. Harry May, according to the size of the blooms generally, they realized all they were worth.

October 16 we said: Mrs. Harry Robinson and Mrs. Virginia are the two blooms were noticed Wednesday, October 13. These were of excellent quality. The variety known as Mrs. Harry May, according to the size of the blooms generally, they realized all they were worth; and the variety known as Mrs. Harry May, according to the size of the blooms generally, they realized all they were worth.

### Boundless Snow.

neighborhood of \$60,000; but, this season, not more than \$35,000, thus representing a loss of about 40 per cent. with the previous year, of about \$20,000.

Many of the evils which existed in the past have not been so noticeable this season. Private growers have sold only a few flowers, and the competition has been so that competition from that source has been reduced to a minimum. There have been fewer cases of direct contracts between the grower and the retailer, and the ridiculous practice of dyeing the flowers was but little in evidence. Smaller and more chaste blooms have competed favorably with larger kinds, and in some instances have earned most money for the producer.

The most popular color, and of which the greatest number was sold at highest figures, was yellow. In quantity white came next, but with a lower average in value. Pinks in various shades came third, and at times averaged well, possibly to many growers bringing more money than any other color. Reds followed next but they were in light supply and averaged well in value. It is evident, however, that the ideal red is not yet at hand. Bronzes and other colors were not so much in evidence as usual; and what few there were found but a poor market. This was largely due to their inferiority.

The behavior of the varieties and the erratic dates of blooming will also long be remembered. Never has the knowledge and dates of the expert been so severely at sea. Many growers of reputation were as much as two weeks out of their

A noticeable feature this year is the manner in which a few well called seasons have been held their own. As a white, Mrs. Harry Robinson stands pre-eminently at the head, although, in quality, she is not so good as usual by a week or nine days; but for quality and value the variety heads the list. It is a very disappointing, failing to come to time, Marion Henderson is a point of time-outstripping it. John E. Lager also helped to fill the gap, but could hardly be called a success. Those who had selected Henry Hurrell as early yellow did better, although this variety hardly showed the high standard of quality seen in the last season; the flowers in most cases failing to incurve properly. Major Bonaffon, however, was in as early as usual, and proved to be the most valuable standard yellow yet on the market. It maintained its season longer than any other variety. In value it will come out even or nearly so with Robinson. It frequently realized but a few cents per dozen, and its rivalry did no more, except in general average where it slightly leads. Mayflower has found it hard to have done, considering the quality. Light colored blooms of this variety were conspicuous, many of them coming ahead of white. Pink Ivory also shared the same fate, although, on the average, it colored better than white.

In pink, Vivand-Morel showed up in as good form as ever, and had a prolonged season, but at its first appearance this year it was unfortunate, meeting with hard times, and therefore averaged lower than it ought to have done, considering the quality. Light colored blooms of this variety were conspicuous, many of them coming ahead of white. Pink Ivory also shared the same fate, although, on the average, it colored better than white. Mrs. Simpson was a disappointment.

Elvena, Sunrise, Major Bonaffon, Henry Harrell, and Evangeline.

October 23 business was so poor that no one was seen to be tempted. By October 30, the fall crop was over and this is what we said: "Chrysanthemums are so numerous and many of them so poor in quality that regular prices are out of the question; the highest many will pay for the best is \$4 per dozen, and this for blooms of more than special importance; \$2 per dozen is asked for good flowers, and this at the lowest even at the low figure."

November 6 we remarked: "Chrysanthemums are excellent in quality, but realize little money. Good blooms only command \$1.25 to \$1.50 per dozen. The best notch for specials is only 25c. In lower grades the price varies from \$1 to 88 per dozen, and among these are often excellent flowers."

November 13 our report read: "Chrysanthemums are in the cellars and boxes nosed—huge quantities of them. Excellent quality is offered at \$1 and \$1.50 per dozen, and buyers were not tempted. Not so long ago a similar quality of blooms was bringing \$4 to \$6 per dozen. On November 20, the business was not kept pace with violets and show but little if any improvement over last week. On November 27, the business was better; the market clearing well as compared with previous varieties like the Golden Wedding, W. H. Lincoln, H. W. Riemann, Maud Dean, and the new variety, Jersey. The market well up to its old-time form, and gave general satisfaction. Good blooms varied from \$2 to \$4 per dozen."

On December 4 we stated: "Chrysanthemums are nearly over, and no more blooms that realize more than \$2 per dozen. The varieties most in demand are the pink variety from Indiana and another named Indiana, but which is identical with Indiana from the same source. The variety from a free Liberty, a pink named Esther Cleveland, a poor sort which will have to be given up, and a variety named a riot, a few Mrs. Jerome Jones and some stragglers that have missed their season. The season closed on December 11, H. W. Riemann being in good shape up to this date."

Analysis of varieties.

From the above, data the following have proved the best on the market, taking into consideration growing, shipping, and quality, and the best upon the market in this order: Lady Fitzgibbon, (white) Marquis de Montebello, (pink) Mrs. Jerome Jones, (pink) Marion Henderson (yellow), Merry Monarch (white), Liberty Monarch, Mrs. Jerome Johnson (white), Ivory pink, white kinds, Major Bonaffon (yellow), Vivand-More (pink), Golden Wedding, Mayflower, Mrs. Jerome Jones (white), Eugene Bonifalone, W. H. Lincoln (yellow), Maud Dean (pink), H. W. Riemann (pink), and Esther Cleveland (pink).

These will be extensively grown for another year together with the following: Mrs. Jerome Jones, (white), Elvena, bright pink; Mrs. Trainer L. Park, yellow; Frank Hardy, (white), which may be very extensively perused; Evangeline, white, and Sunrise, a successful airy red. These will not be seen in any quality next season, and Liberty not at all. The last-named variety develops badly, and does not succeed with a grower in this vicinity as a cut flower; in one instance, it made a good pot plant, and is to be in this direction. The low W. H. Lincoln for small bush plants in fine pots.

Exhibition.

In New York and district exhibitions have been more numerous than usual. The chrysanthemum has been the most attractive feature in the various ones displayed, proving that that part of the general public which is sufficiently interested to attend to these still takes pleasure in viewing and criticizing the flowers of Autumn. The general feeling is understandable, for the varieties exhibited have been of a very high order, and the season has been so good. On a two weeks show held at Madison Square Garden in October during the winter months, the following were exhibited: Morristown, N. J., andoughkeeps, N. Y., held their annual show the first of the year. The exhibition was held for the first time at Perth Amboy, N. Y., and was an unqualified success; this being the first time since 5-6, Millbrook and Mont Kisco, N. Y., had flower shows during the following year. The Washington show was held in New York City, November

12-13, making eight shows in all, with a total of about 15,000 blooms staged, as against five exhibitions last year and a total of about 10,000 blooms. The kinds such as Mrs. Henry Robinson, Major Bonaffon, Vivand-More, Mutual Victory, Mrs. Jerome Jones, Golden Wedding, held their own. Among newer kinds, Mrs. G. Peabody, Frank Hardy, Mrs. Jerome Johnson, Mrs. Jerome Jones, Mrs. J. H. Woodford, Sunrise, Elvena, Evangeline, Sunstone, and Mrs. E. G. Hill, were successful. Only in one instance was a class for fineness or incurved provided for, and this was poorly filled. It is to be regretted that the attention that usual and were fairly given in schedules three times. The classes were held and although varieties were gathered together exhibited. Blooms were used largely in two exhibitions: single classes, one bloom, with long stem, each three times, and with great success. Exhibits of 6, 12 and 25 blooms to a vase constituted the plan in 1896; and it is to be stated that considerable improvement in staging was noticeable everywhere.

It is to be regretted that the floral effects were produced, by the use of Autumn foliage and berries mixed with flowers, and that the latter were not encouraged; on the other hand, some vile combinations of ferns and ribbon grasses or status were used which command discouragement.

The general management and arrangement of the shows were of great improvement; but that terrible evil—the entrance of the great, an extent as ever, and which has been the cause of the market will never be perfect.

Finally, how have the exhibitions been? Probably, how have the general public and how have they come out financially? It is to be regretted that the outside assistance and a few large-hearted friends, they have held their own. The business was better than expected, or dead-end, was larger on the average. The prospects for 1898 are that fully as good as last year, but they are not so bright, but with this difference—they will be largely made up of private growers, although some of the material has been better than usual, and next season they may be expected to be still less in evidence.

Seedling and Sports.

There has been a marked falling off in the number of seedlings and sports of the chrysanthemum this year; and only a small percentage exhibited have graded certificates. In New York, 1896 is credited with 47, certificates being awarded to 21 of them. This season but 27 were shown to this committee, six of which only scored points enough to be certificated. There were no early ones that scored, October 23 being the first date on which a certificate was awarded. There was only one late variety and that occurred November 27, in the varieties in which chrysanthemum committee more than 50 varieties were shown and 28 certificated. Chicago, New York, and Philadelphia had the largest number in the order named. The certificated varieties are as follows, full descriptions of same, as far as obtainable being given in full.

On October 23, E. G. Hill & Co. set, arrived in New York in grand condition especially his Solar Queen. This is an attractive yellow incurving Japanese, of good size and substance, first class stem and foliage. It scored 87 points at New York and 85 points at Chicago. His European variety, Australian Gold, also scored well, receiving 93 points. Judging from these and other blooms of this latter variety seen on exhibition, it is likely to be a grand exhibition bloom, its only fault being a rather long and here neck. The type is Japanese.

Only two varieties were before the New York committee Saturday, November 6. Both were of a high order of merit. Hugh Graham, Philadelphia, exhibited a variety of the type of the Solar Queen. The form needs no description, for it is simply a duplication of the type, but the class is exquisite and furnishes just what

its parent needed—more color. This is now amply supplied with a bright, clear, canary-yellow which illuminates well. This new break cannot fail to be popular. It scored 90 points at New York, Philadelphia 91 points, Boston 90, Chicago 86, Cincinnati 87.

Frank Hardy (English), exhibited by A. Herrington, Madison, N. J., made a good impression upon the judges at first sight which improved upon examination. Its wonderful stem and foliage, massive bloom, and bold appearance make it at once a pronounced and desirable variety. The type is difficult to decide, for the stereotyped "Japanese incurved" hardly describes it properly. We prefer to call it just a plain Japanese, which, in our opinion, it really is. The forets are of great length and incurved in curls, first in one direction and then in another, thus making a wave-like, or as the general public at exhibitions have said "plume-like" appearance. Its weakest point is its color, for which it hardly claims the full score, but it is to be regretted that nevertheless it is bound to be one of the popular favorites of this season, and next year doubtless will be seen in every exhibition. It scored 95 points, at Boston 94, at Chicago 95, and 89 at Philadelphia.

Autumn Glory, from H. W. C. was shown at New York, November 13. This is an excellent variety and demonstrated its good keeping and shipping qualities by arriving in first-class condition. The appearance of this bloom is intermediate between Vivand-More and Inter-Ocean; it is a large reflexed Japanese. The color is a shell-pink, with good illuminating properties; under electric light it takes on a pretty flesh-shading. The foliage and stem are both good, its only defect being a slightly bare neck, but not enough to make it objectionable. It scored 87 points at New York and the same number at Chicago, May 19, and the same number.

On Saturday, November 27, before the New York committee only one variety was presented; this came from Grove P. Rawson, Elmer, N. Y. Considering the late date of the plant, it was valuable and should prove very acceptable as a late white. The type is Japanese incurved; and the forets are well distributed, curving to the center; while the outer or ray petals show a disposition to depend in a pretty manner. The substance of the flower is also good, and the bloom bears evidence of making a good shipper. In color it will have to be classed as a white, but in this quality it evidently is not constant, for some of the flowers presented inclined to a pink cast. It is to be regretted that Mrs. Jerome Jones, when it so sets; and this is saying a good deal. The stem and foliage are both good. It scored 86 points at New York, and also scored certificates at Philadelphia, scoring 89; Boston 92 and Chicago 93 points respectively.

Other certificated sorts are as follows:

Chicago, October 23, Mrs. Jerome Jones, scored 87 points. It was a large incurved white, pink shadings on lower petals. Scored 85 points.

Mrs. G. B. Bassett, exhibited by Bassett & Washburn, Hillsdale, Ill. scored 85 points. Mrs. H. Robinson; light yellow. Scored 85 points.

November 12, Black Hawk, from E. G. Hill & Co., intense crimson, Japanese, scored 85 points.

November 6, Snow Queen, exhibited by Fred. Borner & Sons, Chicago, white, incurved, commercial scale, 85 points. This is a

well-built white with a faint yellow center, a very taking flower of that style known as a good shipper, petalae deep and abundant, and the stem and foliage and medium broad; stem fair, foliage rather thin as shown, showing six to seven inches of neck.

November 20, 1897, Rustique, exhibited by Nathan Smith & Sons, Japanese incurved, light bronze. Scored, commercial scale, 85 points.

Merza, by same exhibitors, Japanese incurved. Scored, commercial scale, 85 points.

PHILADELPHIA, October 16.

Mrs. Arthur J. Cator, exhibited by W. N. Rudd, Mount Greenwood, Ills. Japanese reflexed bronze. Scored 88.

Alice F. Carey, exhibited by Robert G. Carey, Chestnut Hill, Pa., reflexed Japanese, light pink. Scored, commercial scale, 78; exhibition scale, 87 points. Mrs. Gladys Hamilton, exhibited by John N. May, Summit, N. J., reflexed Japanese, creamy white. Scored, commercial scale 92; exhibition scale, 85 points.

November 13, No. 2, E. G. Hill & Co., deep yellow. Scored, commercial scale, 87 points; exhibition, 88 points.

No. 3, same exhibitor, pink, reflexed. Scored, commercial, 87 points; exhibition, 90 points.

Robert G. Carey exhibited by Robert G. Carey, Chestnut Hill, Pa., creamy white, Japanese incurved. Scored, commercial, 90 points; exhibition, 85 points.

November 20, Spotswood, exhibited by Robert G. Carey, Chestnut Hill, Pa., incurved, light yellow. Scored, commercial scale, 91 points; exhibition scale, 88 points.

November 27, Sport from Mrs. Jerome Jones, exhibited by Ferdinand Heck, Reading, Pa.; Japanese incurved, light yellow. Scored, commercial scale, 90 points; exhibition scale, 90 points.

Our Old friend, exhibited by W. K. Harris, Philadelphia, Pa.; Japanese incurved, canary-yellow. Scored, commercial scale, 89 points; exhibition scale, 89 points.

CINCINNATI, November 13.

Mrs. Samuel Hegdon, exhibited by J. A. Peterson; bluish white, Japanese. Scored 87 points.

No. 3, exhibited by E. G. Hill & Co., light salmon pink, Japanese. Scored 87 points.

Chas. W. Cronch, exhibited by Chas. W. Cronch, Chicago with a number of pink, Japanese reflexed. Scored 85 points.

Boston, November 2.

Grace E. French, exhibited by Geo. Hollis, South Weymouth, Mass., creamy white, reflexed. Scored 87 points.

November 20,

Arlene, exhibited by Nathan Smith & Son, Adrian, Mich., incurved, white. Scored, commercial scale, 87 points; exhibition scale, 90 points. It was exhibited, by same exhibitors, Japanese, deep chrome-yellow. Scored, commercial scale, 92 points; exhibition scale, 94 points.

Mrs. C. H. Peire, exhibited by F. Borner & Sons Co., Japanese, bright yellow. Scored, commercial scale, 87 points. This variety was also certificated at Cincinnati, scoring 87, at Philadelphia 90, and at Chicago with a number of points. The exhibitors of this variety say: "We have grown it three years in New York. It has good heavy stems, and beautifully cent. foliage, it is of even growth about 3 to 3 1/2 feet, very stocky and uniform size of flowers. Take first hand. The flower is made up of numerous petals of greatest substance and best-keeping qualities."

Analysis of the Varieties.

The following analysis of the varieties is taken from the reports of shows in New York City; Millbrook, N.Y.; Philadelphia, N.Y.; Syracuse, N.Y.; Portland, N.Y.; Northampton, Mass.; Springfield, Mass.; Worcester, Mass.; Hartford, Conn.; Chicago, Ill.; Grand Rapids, Mich.; Cleveland, O.; Detroit, Mich.; Toronto and Montreal. Other exhibitions were held at Boston, Philadelphia, Milwaukee, etc., but the names of winning varieties were not furnished.

There were eight varieties shown over 12 times and less than 19 times and less than 20, and 19 varieties shown over five times and less than 10.

Table with 3 columns: Name, No. of Times Shown, No. of Times in Winning Lots.

Table listing various plant varieties such as Major Bonanza, Merry Bouquet, Vivand-Morel, Queen, Mayflower, etc.

Table listing various plant varieties such as Rex Begonia, Double Grand, White, Pink and Mme. Satterlee Geraniums, etc.

Table listing various plant varieties such as Double Geraniums, Rex Begonia, White, Pink and Mme. Satterlee Geraniums, etc.

son, Andea, Mrs. C. Lippincott, John Ward Apollo, The Bard, Mrs. F. L. Ames, E. Higginson, John Bunyan, Golden Star, Triumph, E. D. Jacob, R. Kinkead, Rinaldo, Mrs. Karin, Princess of Chrysanthemums, Mrs. Bullock.

Mrs. JAMES W. WITHERS.

THE ROOM

- 1000 Strong Chiacaras, large enough for 6 inch pots, \$3.00
600 Strong Chiacaras, 4 inch pots, Winter blooming in bud, \$3.00
3000 Vinca Var., 3 1/2 inch pots, \$4.00
200 Asparagus Plumosa, 2 1/2 inch pots, \$7.00

ROUTED CUTTINGS.

Rex Begonia, Mrs. Pollock, Silver Leaf \$2.00 per 100
Double Grand, White, Pink and Mme. Satterlee Geraniums, Lemon Verbena, \$1.50 per 100.

Write for prices on other cuttings. Terms Cash or C. O. D.

GREENE & UNDERHILL, Watertown, N. Y.

ROOTED CUTTINGS.

- By the Thousand, By Mail, Per 100
Double Petunias, 50 varieties, \$11.25
10 New varieties, 100 varieties, \$1.50
Not less than 25 of a kind.
Bisulcans, flowering, 25 varieties, \$1.50-2.00
Geraniums, 25 varieties, \$1.50
White Geraniums, 10 varieties, \$1.50
Abutilons, 4 varieties, \$1.50
Hesperis, 4 varieties, \$1.50
Lemon's Hybrid, \$1.00
Strophanthus Dyvianus, \$1.00
Cypripes, sugar plant, .75
Ageratum, white and blue, .75
Salvia, Wm. Badam, .75
Guzmania Splendens, \$1.50

..PLANTS..

- Primaula Obconica, very fine, 3 in., 5.00
Begonia Metallacna Margerite, 3 in., 4.00
Double Petunias, 2 in., 4 varieties, 5.00
Abutilons, 4 varieties, 3 in., 3.50

Cash with order please. GEORGE J. HUGHES, Berlin, N. J. When Writing Mention Florists' Exchange

DOG STOCK CANNAS.

Strong, dormant roots, of the following varieties: A. Bouvier, Austria, Chas. Henderson, Columbia, Comte de Bouchaud, Jean, Joe, White, Mrs. Crozy, Professor, James, Charlotte and Souv. de A. Crozy. Prices on application.

- Cyclamen, see special ad. on another page.
Maranta bi-color, fine for fern, 2 1/2 inch pots, \$4.75
Neprolepis Exaltata, 3 in. pot, .75
Neprolepis cordata, 3 in. pot, .75
Primaula alpinis humifraga, very fine, 2 1/2 inch pots, \$2.50 per 100.

SEAWANAKA GREENHOUSES, OYSTER BAY, QUEENS CO., N. Y. When Writing Mention Florists' Exchange

Cyperus Alternifolius.

2 1/2 in. pots, 40 cts. per doz.; \$2.50 per 100.

GREVILLE ROBUSTA, 2 1/2 in. pots, 40 cts. per doz.; \$2.50 per 100.

ASPARAGUS GYMNISIMULUS, 3 in. pots, 50 cts. per doz.; \$3.50 per 100.

CALIFORNIA VIOLETS, field-grown, \$4.00 per 100.

CARNATIONS, Mapleade (new), \$8.00 per 100. Medium sized plants of the following standard varieties, \$4.00 per 100.

NATHAN SMITH & SON, Adrian, Mich. When Writing Mention Florists' Exchange

A Surprise Collection

FOR \$1.00 we will send above collection of new standard plants, our selection, worth \$5.00, to each of our plants; we do this as an advertisement as we are growers of 2,000,000 plants per year. We wish to show you what we have, so you can order by 100, 1000, 5000, or 10,000 if that \$1.00 sample suits you.

THE MORRIS FLORAL CO.

MORRIS, ILL. When Writing Mention Florists' Exchange

AZALEA INDICA.

Fine shapely plants, well set with buds. 10 to 12 inch crowns . . . \$38.00 per 100. 12 to 13 " " " " . . . 50.00 " " " " " " . . . 60.00 " " " " " " " " . . . 60.00 Order these early and have them shipped by fast freight, saving heavy express charges.

ASPARAGUS PLUMOSA. Strong, 3 1/2 and 3 in. pot plants, \$7 per 100; \$65 per 1000.

FICUS ELASTICA. A large stock in fine shape, 4 in. pots, \$23 per 100; 5 in. pots, \$45 per 100.

ARAUCARIA EXCELSA. Excellent plants in fine condition. 10 to 12 inches high . . . \$13.00 per doz. 12 to 15 " " " " . . . 15.00 " " " " " " . . . 13.00 " " " " " " . . . 13.00

ROSES. Crimson Rambler, \$12 per 100; strong two year plants, with 3 to 10 shoots, 3 to 5 feet long. This rose flowers readily and makes splendid specimens for Easter sales. Common varieties Climbing Roses, strong two year plants, \$8 per 100.

Hybrid Perpetual, extra strong field grown, fine for potting up, \$9 per 100.

HYDRANGEAS. Hortensia and Thomas Hogg, 4 in. pot plants, \$6 per 100.

HERBACEOUS PEONIAS. Large stock in choice varieties. Also a choice assortment of other hard perennial plants.

THE STORRS & HARRISON CO., Painsville, O.

Dreer's Special Offer

OF.....



AZALEA

The Quality this season is fully equal to what we have sent out for several seasons past, which has given universal satisfaction, which is shown by the greatly increased number of orders already booked.

The Tariff which has been increased to 25 cent. on this class of stock will not affect the price, as we have been successful in making such arrangements with our Belgian growers (who are among the most successful specialists in this class of plants), which enable us to sell at the same prices as last season.

The Varieties we offer are such only as are known to us as the best plants, well set with buds. These will be supplied at the following prices until December 30th, at which time stock will be potted up and prices will advance:

- 10 to 13 inch crowns, bushy and well set, . . . \$35.00 per 100
10 to 12 " " " " . . . 40.00 " " " " " " . . . 60.00 " " " " " " . . . 60.00 " " " " " " . . . 65.00 " " " " " " . . . 65.00 " " " " " " . . . 65.00
Specimen Plants, 18 to 24 inches in diameter, \$24.00, \$30.00 and \$36.00 per doz.

HENRY A. DREER, 714 Chestnut Street, PHILADELPHIA. When Writing Mention Florists' Exchange

The following varieties were in prize winning lots only—W. Seward, Reine d'Angleterre, Melinda, Thomas Emerson, Sunlight, Jayne, Wm. Bochner, Rose King, Helen Wright, Elma O'Farrell, Louisa Gardner, Mrs. W. Clark, Vespa, Miss Hager, W. Wright, Robert Bortlemore, Miss C. H. Bates, Mrs. James Longfellow, T. B. Morse, Thanksgiving, W. Wright, Marguillan Prince, Swindley, Brazil, Autumn Glory, The Times, Charles, Dorothy Toler, M. B. Spaullding, Ada Spaullding, Mary Wheeler, Mrs. M. Simp-

# Areca Lutescens



## MUST HAVE ROOM!

Have an immense stock. Grown cool and perfectly healthy. Here are my December prices.



Three plants, 7 inch pot, 32 to 36 inches high, bushy, \$1.50.  
Three plants, 8 inch pot, 36 to 42 inches high, very bushy, \$2.00.  
Three plants, 8 inch pot, 42 to 48 inches high, very bushy, \$2.50.  
One plant, 10 inch pot, 4 to 5 feet high, extra fine, \$5.00.

The cheapest lot of Areca Lutescens ever offered to the trade.

### JOSEPH HEACOCK, Wyncote, Philadelphia, Pa.



### PALMS AND FERNS.

The LARGEST STOCK in the West.

For Prices see Dec. 4 issue, page 1055.  
**Geo. Wittbold, 1708 N Halsted St., CHICAGO.**  
When Writing Mention Florists' Exchange

**SPECIAL OFFER** of a limited number of the following varieties of **PALMS** at very low prices to make room. They are good, strong plants.

- ARECA LUTESCENS...**  
6 inch pots, 25 to 30 inches high, 3 in a pot, \$1.00  
8 inch pots, 30 to 40 inches high, 3 in a pot, \$1.50  
10 inch pots, 40 to 50 inches high, 3 in a pot, \$2.00
- LATANIA BORNIONICA...**  
2 and 4 inch pots, 14 inches high  
6 inch pots, 16 to 18 inches high.
- COCOS WEDDELIANA...** 3 inch pots  
**LEMUEL BALL, Wisingnonn, Pa.**  
When Writing Mention Florists' Exchange

### NEPHROLEPIS EXALTATA BOSTONIENSIS

THE BOSTON FERN. The best house plant yet introduced. 10,000 fine plants from bench for selling at from \$3.00 to \$25.00 per 100. Now ready. Established plants in pots. 5 in. pots, \$1.00 per doz. 7 in. pots, \$1.50 per doz. 8 in. pots, \$2.00 per doz. 10 in. pots, \$2.50 per doz. 6 in. pots, \$2.00 each. 10 in. plants, \$5.00 each.

**SPECIMEN PLANTS ALL IN FINISH SHAPE.**  
**L. H. FOSTER, 45 King St., Dorchester, Mass**  
When Writing Mention Florists' Exchange

### Nephrolepis Exaltata Bostoniensis.

The Handsomest Decorative Plant in Cultivation.  
\$5.00 per 100; \$40.00 per 1000.

**MINE IS THE GENUINE STOCK.**  
**FRED. C. BECKER, - - - 1730 Cambridge Street, CAMBRIDGE, MASS.**  
When Writing Mention Florists' Exchange

## FERNS.

In fine assortment, from 2 1/2 in. pots, \$3.25 per 100; \$30.00 per 1000. ...

**CHAS. T. DARLING, Stony Brook, L. I. N. Y.**  
When Writing Mention Florists' Exchange

### JULIUS ROEHR'S, HEADQUARTERS FOR

**Palms and Decorative Plants,**  
RUTHERFORD, N. J.  
P. O. Address, - Carlin Hill, N. J.

When Writing Mention Florists' Exchange

## FERNS! FERNS!!

The best varieties for fern frames, etc., grown cool and nice, bushy stock, 2 1/2 in. pots, \$2.00 per 100; \$30.00 per 1000. From flats, \$1 per 100.

**H. WESTON, Hempstead, L. I. N. Y.**  
When Writing Mention Florists' Exchange

## SWORD FERNS.

Nephrolepis exaltata, 3 in. pots...	\$4.00	\$5.00
" " " 5 in. pots...	1.00	1.50
" " " 6 in. pots...	1.50	2.00
" " " ext strong 5 in. pots...	2.00	3.00
" " tuberosum, 3 in. pots...	1.00	1.50

Send for Wholesale List of PALMS, etc.  
**W. J. HESSER, Garden, Plattsburgh, Neb.**  
When Writing Mention Florists' Exchange

## ADIANTUM CUNEATUM...

Seedlings, \$1.25 per 100; \$10.00 per 1000	
2 in. pots, 2.50	45 00
3 " " " 3.00	50 00
" " " 3.50	55 00
Adiantum P. F. plants, 2 in. pots, \$2.50	
Pteris caudatifolia, 2 in. pots, \$2.00	
Cooperia Medialis, 4 in. pots, \$2.00	

**THE BOUL FLOWER CO., - - - Ithaca, N. Y.**  
When Writing Mention Florists' Exchange  
**LATANIA PALM PLANTS**  
25% to 3 feet in height and diameter to 1 1/2 inches in diameter per plant, \$2.00 per doz.

**Arcaea, Kentia and Pandanus**  
Kalis plants in several sizes. Prices on application.  
**J. W. COLFLESH,**  
53d and Wood St., Ave. C, Phila  
When Writing Mention Florists' Exchange

### SPECIAL OFFER FOR THE HOLIDAY TRADE

## PALMS

Arcaea Bauerli, 5 in. pots...	Each, Dv.	\$10.00
" " " Lutescens, 5 in. pots...	20 00	40 00
Coccos Weddelliana, 5 in. pots...	25 00	50 00
Corypha Australis, 5 in. pots...	25 00	50 00
Cycas Medialis, 5 in. pots...	25 00	50 00
Cycas Revoluta, plants with fronds 30 leaves...	25 00	50 00
Ercaea Kentia, 5 in. pots...	40 00	80 00
Kentia Belmansiana, 5 in. pots...	40 00	80 00
" " " Canariensis, 5 in. pots...	40 00	80 00
" " " Borbonica, 5 in. pots...	40 00	80 00
" " " Borealis, 5 in. pots...	40 00	80 00
Phorbea Canariensis, 5 in. pots...	40 00	80 00
Phorbea Borealis, 5 in. pots...	40 00	80 00

Prices on larger sizes of above named Palms plants in several sizes.  
**Azalea Indica, in bud & bloom, 10 in. pots, \$2.00**  
Each, Dv. \$1.00

**Araucaria Excelsa,** grown from cuttings, 5 in. pots, 110c; from seed, 5 in. pots, \$1.00  
**Araucaria Treutlingiana,** 5 in. pots, 25c  
**Plumose Nana,** 5 in. pots, 25c  
**Camphora,** green-leaved, 10 in. pots, 90c.  
**Asplenium Platyneuron,** 5 in. pots, 25c.  
**And** Red varieties, with flower buds, bushy plants 1 1/2 to 2 1/2 ft., at 25c each, 50c per doz.

**F. LUCEMANN, Nursery, San Francisco, Cal.**  
Cor. Lombard and Baker Sts.  
When Writing Mention Florists' Exchange

### AZALEAS, PALMS. . . . .

**ARACARIAS, BAY TREES, BEGONIA and GLOXINIA**  
BULBS in any quantity.

**SANDER, BRUGES, BELGIUM.**  
**A. DIMMOCK, Agent, 60 Vesey St., N. Y.**  
When Writing Mention Florists' Exchange

### FINE STOCK OF PALMS

Arcaea Lutescens, 4 in. pots...	Each Doz.	\$0.25
Latania Borbonica, 4 in. pots...	50	2 50
" " " 5 in. pots...	75	4 00
" " " ext strong, 6 in. pots...	1 00	8 00
Kentia Forsteriana, 4 in. pots...	30	3 00
" " " " 5 in. pots...	40	4 00
" " " " 6 in. pots...	50	5 00
" " " " 7 in. pots...	60	6 00
" " " " 8 in. pots...	70	7 00
" " " " 9 in. pots...	80	8 00

Plants Elastic, good stock, from 20c. to \$1 each.  
Ferns, well grown, assorted stock, 2 1/2 in. pots, \$2.50 per 100.

**JOHN BADER, Allegheny City, Pa.**  
When Writing Mention Florists' Exchange

### FOR

## PALMS

AND

## FLOWERING PLANTS FOR XMAS!

**Erica Fragrans** from 50c up. Specimen over 3 ft. high, about 2 ft. in diam., extra fine.  
**Erica Wilmoreana,** pink trumpet, a grand lot from us up.  
**Cyclamen Persicum** plants from 50c up. We have over 500 large plants with crowns, from 10 to 14 in. across.  
**Azaleas** from \$8.00 per doz. to \$5.00 each, a few extra large plants.  
Take trolley car, only 5 cents from Long Island City, or train North Shore Division, College Point, depot opposite my greenhouses.  
Several extra fine **Metrosideros** in bloom.  
When Writing Mention Florists' Exchange

SITUATIONS WANTED

Rate, 10 cents per line (6 words), each insertion. Cash with order. This rate applies only to cash orders...

COLUMBIAN, Philadelphia, Pa. - Open to an engagement in a first-class grower of wholesale and retail stock.

A GOOD, all-round man; sober, reliable; desires position commercial florist...

WANTED, position as foreman; first-class on roses and carnations; private or commercial; conditions of contract. Address Ability, care Florists' Exchange.

SITUATION wanted; gardener, single, Swede; 10 years experience, 10 years in England and United States, private or commercial. Address A. H., care Florists' Exchange.

SITUATION WANTED, by all-round grower, highest quality reproduction in Holland and the year in America. Address S. F., care Florists' Exchange.

YOUNG man wishes situation greenhouse; one year's experience in Holland and the year in America. Address S. F., care Florists' Exchange.

SITUATION wanted as florist or gardener; 10 years experience in Holland and the year in America. Address S. F., care Florists' Exchange.

SITUATION wanted, by married man, care rose grower or foreman; good grower of cut flowers and various greenhouse plants; good stock; recent state wars. Address K. D., care of Florists' Exchange.

MISCELLANEOUS WANTS

WANTED TO RENT, with privileges of buy, 100,000 to 200,000 plants, with land and water house. All right. Address W. H., care Florists' Exchange.

RELIABLE 3, care Florists' Exchange.

WANTED.

5000 California Privets, 2 years old, More or less for cash. FRIED. BOENNE, Cape May City, N. J. When Writing Mention Florists' Exchange

HOT-HOUSE TOMATOES

AND MUSHROOMS WANTED. BRADLEY REDFIELD, Commission Merchant, 141 Market Street, PHILADELPHIA, PA.

Market prices and prompt returns guaranteed (Wholesale and Retail). When Writing Mention Florists' Exchange

H. H. BATTLES,

408 So. 12th St., PHILADELPHIA,

will be glad to correspond with young men of good habits; must have knowledge of the retail flower business, he will recommend and able to engage at once; state experience and salary wanted.

WANTED.

To Buy or Rent a greenhouse establishment with heating house and pond, suitable to build upon, in a healthy local, near New York City. Address, with full particulars, Responsible, care of this page.

BUSINESS OPPORTUNITIES

TO LET.

Florist Establishment with good local trade near New York. Good for an enterprising party. Address H., care Florists' Exchange.

TO RENT OR LEASE.

A piece of ground with a dwelling house, situated on Metropolitan Avenue, at Lutherland Cemetery, to rent or lease on a term of years. These premises have been occupied by a florist and are in excellent condition. The location is one of the best obtainable for this business; rent cheap. All further information may be had by writing to Mr. W. MENDEL, Middle Village, N. Y.

FOR SALE.

At a bargain if taken at once, five greenhouses heated with hot water, filled with choice plants for sale. All right. Address W. H., care Florists' Exchange.

When Writing Mention Florists' Exchange

BUSINESS OPPORTUNITIES

FOR SALE OR RENT.

One of the best sites in Ohio, 12,000 inhabitants, 4500 sq. ft. of space; building only one year old, with complete plumbing and electric wiring...

FOR SALE.

Valuable greenhouse property, sixty (60) acres from Washington, well stocked with carnations and violets. 8000 feet of glass. Terms easy. Address...

JOSEPH TRAPPVELL,

Charlestown, Jeff Co., W. Va.

A RARE OPPORTUNITY!

FOR SALE-Florist store, on Broadway, between 31st and 33rd streets, opposite one of the most prominent hotels in New York. Weekly profits up to the present time \$100...

Address: J. FLEISCHMAN, Broadway and 25th Street, NEW YORK.

FOR SALE.

Place of five acres; twenty miles from New York; two-story frame house; village water; crocks, bath and cold cellar; chicken house and yards. Address B., care Florists' Exchange.

TO LET.

A convenient store in good position for wholesale or retail florist. Inquire at 115 East 23d St., New York.

FOR SALE.

Greenhouses, in one of the best cities in Wisconsin. A good investment and a money maker for a hustler. Over six acres on account of poor health, for particulars, write...

ELIS & POLLWATER, MILWAUKEE, Wis.

FOR SALE-Florist's single covered wagon; height 10 feet, length 12 feet, 100 lbs. weight, 7 1/2 feet bed, outer covering \$50. Used two years. Will sell cheap for cash. VAUGHAN & SONS, Toledo, Ohio.

Buffalo.

Trade and Weather Conditions.

A rainy day and warmer weather has doubled the streets of the small reformer of the large stores, however, and no doubt at proper time, flowers will again be in special demand.

Business Oppor-tunities.

Blanco A. Co., 1140

Shepherd St. T. B., 1134

Calceolaria

Whitton & Son., 1120

Allen C. H., 1118

Blanco A. Co., 1140

Blanco A. Co., 1140

Blanco A. Co., 1140

Blanco A. Co., 1140

Blanco A. Co., 1140

Blanco A. Co., 1140

Blanco A. Co., 1140

Blanco A. Co., 1140

Blanco A. Co., 1140

Blanco A. Co., 1140

Blanco A. Co., 1140

Blanco A. Co., 1140

GREENHOUSES.

WESTVILLE, N. J.-Louis Duncan has bought Frank Snyder's share of the business and the business will be conducted by Duncan Brothers.

BEAR in mind that we manufacture to order any desired style of baskets. Send for NEW CATALOGUE. Bayswater Rd., Ad.

Index to Advertisers.

Agreum Cut Flowers

Fryer E., 1127

Allen J. E., 1142

Blanco A. Co., 1140

Blanco A. Co., 1140

Blanco A. Co., 1140

Blanco A. Co., 1140

Blanco A. Co., 1140

Blanco A. Co., 1140

Blanco A. Co., 1140

Blanco A. Co., 1140

Blanco A. Co., 1140

Blanco A. Co., 1140

Blanco A. Co., 1140

Blanco A. Co., 1140

Blanco A. Co., 1140

Blanco A. Co., 1140

Blanco A. Co., 1140

Blanco A. Co., 1140

Blanco A. Co., 1140

Blanco A. Co., 1140

Blanco A. Co., 1140

Blanco A. Co., 1140

Blanco A. Co., 1140

Blanco A. Co., 1140

Blanco A. Co., 1140

Blanco A. Co., 1140

Blanco A. Co., 1140

Blanco A. Co., 1140

Blanco A. Co., 1140

Blanco A. Co., 1140

Blanco A. Co., 1140

Blanco A. Co., 1140

Blanco A. Co., 1140

Blanco A. Co., 1140

Blanco A. Co., 1140

Blanco A. Co., 1140

Blanco A. Co., 1140

Blanco A. Co., 1140

Blanco A. Co., 1140

Blanco A. Co., 1140

Blanco A. Co., 1140

Blanco A. Co., 1140

Blanco A. Co., 1140

Blanco A. Co., 1140

Nursery Stock.

Tracy, Fruit and... Elizabeth Nerss Care 1115 Harrison's Mrs 1118...

Patents

Cannons & Co., 1120 Herk Albert M., 1120...

Refrigerators

Chocolate Co., 1143...

Seeds

Berger H. & Co., 1114...

Flowers

Blanco A. Co., 1140...

Flowers

Blanco A. Co., 1140...

Flowers

Blanco A. Co., 1140...

Flowers

Blanco A. Co., 1140...

Flowers

Blanco A. Co., 1140...

Flowers

Blanco A. Co., 1140...

Flowers

Blanco A. Co., 1140...

Flowers

Blanco A. Co., 1140...

Flowers

Blanco A. Co., 1140...

Flowers

Blanco A. Co., 1140...

Flowers

Blanco A. Co., 1140...

Flowers

Blanco A. Co., 1140...

Flowers

Blanco A. Co., 1140...

Flowers

Blanco A. Co., 1140...

Flowers

Blanco A. Co., 1140...

Flowers

Blanco A. Co., 1140...

Flowers

Blanco A. Co., 1140...

Flowers

Blanco A. Co., 1140...

Flowers

Blanco A. Co., 1140...

Flowers

Blanco A. Co., 1140...

Flowers

Blanco A. Co., 1140...

New York.

Wholesale Market.

On the whole, business for the week has been light and irregular. Florists' necessities for use up all the special and fancy stock without creating any unusual demand.

The market was in favor of the buyers till Thursday, when prices stiffened all over. The price for the best quality was lifted to \$5 per dozen from \$4; extra and special grades in other roses were advanced \$1 to \$1.10 and \$1.00.

Very special Bridemaid and Carnot realized as high as \$1.80 per dozen, while the roses in the same grades had not so fine, varied from \$8 to \$12 per 100.

Meat is included with these. For lower grades the market is not so firm, and as low as \$2 per 100 had to be taken, in order to clear, for lower grade stock.

Should any special demand arise, roses will probably stiffen considerably, for apparently the crop is very light, and the prospects are expected to continue so for some time.

A steady advance may therefore be counted on from now on. The weather is not so favorable.

Violas, despite the not over-large supply, did not move so freely as the roses. They were in demand, and have carried these each day to a loss, having failed to sell out a few flowers in the morning bought daily.

Consequently it was impossible to realize more than \$1.50 per 100 for the best stock, while such conditions prevailed. But on Thursday night the retailers had but few fancy violas on hand, and the market today if the weather is favorable for shopping purposes.

Should any special demand arise, roses will probably stiffen considerably, for apparently the crop is very light, and the prospects are expected to continue so for some time.

On the other hand, lower grades are too plentiful to be able to realize high values. However, the prospects, even with these drawbacks, are encouraging.

Orchids are at this time in excellent property, especially Cattleyas and Dendrobium formosum. Blooms of these have realized as high as \$50 each for No. 1 and 40c. for No. 2.

These, the fibrous and the flowers being very unsale to bloom for use as staples; but it is plainly evident that the winter season has not yet begun for funeral pieces and, occasionally, weddings.

The beautiful Dendrobium formosum has been sold with a reverse fate, however, and has been sold as low as 4c. per bloom. Cypripedium and other varieties of orchids prices vary from \$8 to \$12 per 100.

Roman hydrangeas are becoming plentiful, and are in good supply in the market. Prices vary from \$8 to \$12 per 100, and \$2 per 100. Vales is steady at from \$3 to \$4 per 100.

Lilium. The market has improved slightly; special quality having got up to \$10.

Chrysanthemums, strange to say, are still abundant, and, for the season, good. The varieties most in evidence are the 'Beauty' and 'W. Bennett'. Liberty, Eugene DuBois, and Mrs. Jerome Jones are also in demand.

The Harriott are the best. The stores are using them freely for window display; otherwise they are not particularly popular for them; and prices are so far from uniform that they are not worth quoting.

A departure in the method of handling stock is developing rapidly, several dealers having adopted a very considerable extent. Instead of receiving goods on consignment they are buying up stock outright. Sometimes it

worked on the same lines as those above. The florists' necessities for use up all the special and fancy stock without creating any unusual demand.

The market was in favor of the buyers till Thursday, when prices stiffened all over. The price for the best quality was lifted to \$5 per dozen from \$4; extra and special grades in other roses were advanced \$1 to \$1.10 and \$1.00.

Very special Bridemaid and Carnot realized as high as \$1.80 per dozen, while the roses in the same grades had not so fine, varied from \$8 to \$12 per 100.

Meat is included with these. For lower grades the market is not so firm, and as low as \$2 per 100 had to be taken, in order to clear, for lower grade stock.

Should any special demand arise, roses will probably stiffen considerably, for apparently the crop is very light, and the prospects are expected to continue so for some time.

A steady advance may therefore be counted on from now on. The weather is not so favorable.

Violas, despite the not over-large supply, did not move so freely as the roses. They were in demand, and have carried these each day to a loss, having failed to sell out a few flowers in the morning bought daily.

Consequently it was impossible to realize more than \$1.50 per 100 for the best stock, while such conditions prevailed. But on Thursday night the retailers had but few fancy violas on hand, and the market today if the weather is favorable for shopping purposes.

Should any special demand arise, roses will probably stiffen considerably, for apparently the crop is very light, and the prospects are expected to continue so for some time.

On the other hand, lower grades are too plentiful to be able to realize high values. However, the prospects, even with these drawbacks, are encouraging.

Orchids are at this time in excellent property, especially Cattleyas and Dendrobium formosum. Blooms of these have realized as high as \$50 each for No. 1 and 40c. for No. 2.

These, the fibrous and the flowers being very unsale to bloom for use as staples; but it is plainly evident that the winter season has not yet begun for funeral pieces and, occasionally, weddings.

The beautiful Dendrobium formosum has been sold with a reverse fate, however, and has been sold as low as 4c. per bloom. Cypripedium and other varieties of orchids prices vary from \$8 to \$12 per 100.

Roman hydrangeas are becoming plentiful, and are in good supply in the market. Prices vary from \$8 to \$12 per 100, and \$2 per 100. Vales is steady at from \$3 to \$4 per 100.

Lilium. The market has improved slightly; special quality having got up to \$10.

Chrysanthemums, strange to say, are still abundant, and, for the season, good. The varieties most in evidence are the 'Beauty' and 'W. Bennett'. Liberty, Eugene DuBois, and Mrs. Jerome Jones are also in demand.

The Harriott are the best. The stores are using them freely for window display; otherwise they are not particularly popular for them; and prices are so far from uniform that they are not worth quoting.

A departure in the method of handling stock is developing rapidly, several dealers having adopted a very considerable extent. Instead of receiving goods on consignment they are buying up stock outright. Sometimes it

worked on the same lines as those above. The florists' necessities for use up all the special and fancy stock without creating any unusual demand.

The market was in favor of the buyers till Thursday, when prices stiffened all over. The price for the best quality was lifted to \$5 per dozen from \$4; extra and special grades in other roses were advanced \$1 to \$1.10 and \$1.00.

announced his committees for the coming year. The chairman of the committee for the club smoker held in November last, was also elected to the same position for the year 1898.

The committee for the coming year. The chairman of the committee for the club smoker held in November last, was also elected to the same position for the year 1898.

Very special Bridemaid and Carnot realized as high as \$1.80 per dozen, while the roses in the same grades had not so fine, varied from \$8 to \$12 per 100.

Meat is included with these. For lower grades the market is not so firm, and as low as \$2 per 100 had to be taken, in order to clear, for lower grade stock.

Should any special demand arise, roses will probably stiffen considerably, for apparently the crop is very light, and the prospects are expected to continue so for some time.

A steady advance may therefore be counted on from now on. The weather is not so favorable.

Violas, despite the not over-large supply, did not move so freely as the roses. They were in demand, and have carried these each day to a loss, having failed to sell out a few flowers in the morning bought daily.

Consequently it was impossible to realize more than \$1.50 per 100 for the best stock, while such conditions prevailed. But on Thursday night the retailers had but few fancy violas on hand, and the market today if the weather is favorable for shopping purposes.

Should any special demand arise, roses will probably stiffen considerably, for apparently the crop is very light, and the prospects are expected to continue so for some time.

On the other hand, lower grades are too plentiful to be able to realize high values. However, the prospects, even with these drawbacks, are encouraging.

Orchids are at this time in excellent property, especially Cattleyas and Dendrobium formosum. Blooms of these have realized as high as \$50 each for No. 1 and 40c. for No. 2.

These, the fibrous and the flowers being very unsale to bloom for use as staples; but it is plainly evident that the winter season has not yet begun for funeral pieces and, occasionally, weddings.

The beautiful Dendrobium formosum has been sold with a reverse fate, however, and has been sold as low as 4c. per bloom. Cypripedium and other varieties of orchids prices vary from \$8 to \$12 per 100.

Roman hydrangeas are becoming plentiful, and are in good supply in the market. Prices vary from \$8 to \$12 per 100, and \$2 per 100. Vales is steady at from \$3 to \$4 per 100.

Lilium. The market has improved slightly; special quality having got up to \$10.

Chrysanthemums, strange to say, are still abundant, and, for the season, good. The varieties most in evidence are the 'Beauty' and 'W. Bennett'. Liberty, Eugene DuBois, and Mrs. Jerome Jones are also in demand.

The Harriott are the best. The stores are using them freely for window display; otherwise they are not particularly popular for them; and prices are so far from uniform that they are not worth quoting.

A departure in the method of handling stock is developing rapidly, several dealers having adopted a very considerable extent. Instead of receiving goods on consignment they are buying up stock outright. Sometimes it

worked on the same lines as those above. The florists' necessities for use up all the special and fancy stock without creating any unusual demand.

The market was in favor of the buyers till Thursday, when prices stiffened all over. The price for the best quality was lifted to \$5 per dozen from \$4; extra and special grades in other roses were advanced \$1 to \$1.10 and \$1.00.

Headquarters

...FOR...

CHRYSANTHEMUM

STOCK PLANTS

All the standard varieties and a complete list of the introductions of 1895-1896, including Maud Adams, Dorothy Deven, Eureka, Mrs. Writers, Headlight, J. B. Morse, Mrs. Woodford, Mrs. McArthur, The Harriott, etc. Also a complete list of the stock.

HARDY VARIETIES and POMPONS.

PRICES ON APPLICATION.

A. D. ROSE, 200 West Side, Avenue, JERSEY CITY.

GERANIUMS and HELIOTROPE

W. M. J. Bayersdorfer & Co. have issued their new price list and catalogue of florists' supplies, which is very complete.

ROOTED CUTTINGS.

Agarum Monstroza. A dwarf variety with blue flowers of enormous size.

FARQUHAR VIOLETS

Stroog, healthy runners, \$1.00 per 100 by mail.

SMLAX! SMLAX!

Extra 2 in., \$1.50 per 100; \$10.00 per 1000; \$5.00 per 500.

GLADIOLI BULBS

Yellow, White and Light. Betscher Bros., Canal Over, Ohio

HEADQUARTERS

for Rooted Cuttings.

Geraniums, 40 var., \$1.50 \$2.50

Verbenas, 30 " 75 6.00

Coleus, 40 " 75 6.00

G. Beder and Verschaftelli

Salvia scarlet, 1.00 9.00

Agaratum, white and blue 75 6.00

Terms, Cash with order.

CHAS. E. SMITH, York, Pa.

Boston Florist Letter Co.

N. F. MCARTHUR, Treas. & Manager.

STUDDER OFFERS

DECORATIONS, HARDY and BEDDING PLANTS.

Freight or express prepaid as per my advertisement for former number of this issue.

HOLLY, BOUQUET GREEN, MISTLETOE.

At Lowest Market Prices.

VAUGHAN'S SEED STORE

Hardy Cut Ferns

Ferns of Dazzer, etc., a 1000 2000 choice CHRYSANTHEMUMS

THOMAS COLLINS, Hinsdale, Mass.

Christmas decorations!

Extra choice, well-berried.

WHEN WRITING MENTION FLORISTS' EXCHANGE

# Cypress Greenhouse Material.

We are the pioneers in Clear Cypress Greenhouse Material. We discovered that Cypress is better than any other wood for greenhouses from top of posts up and we introduced it, and fought for it against many prejudices, and finally succeeded in bringing it into general use.

Others have attempted to follow where we lead, others are trying to reap what we sowed, but we have the experience and are recognized as experts in greenhouse construction.

Write for Circulars or Estimates.

Lockland Lumber Co.

LOCKLAND, OHIO.

When Writing Mention Florists' Exchange

**"JADOO"**  
 FIBRE and LIQUID are used and endorsed by the leading growers. Try them and be convinced.

**GOLD FISH.**  
 Fine Healthy Stock.

Medium to large size, \$10.00 per 100. Cash with order. No charge for shipping cases. Gold Fish can be shipped by Express thousands of miles with safety and are a profitable and attractive stock to handle. Full line of Aquaria Supplies.

**KEANAN'S SEED STORE.**  
 612 and 614 Wentworth Ave., CHICAGO, When Writing Mention Florists' Exchange

**KILL IT! KENTUCKY EXTRACT OF TOBACCO.**  
 Harmless to the Plants  
 KILLS YOUR BUGS  
 SURE IN ONE PAMPHLET. For free pamphlet write to The Kentucky Extract Co., Columbus, O. FOR SALE BY SEED STORES.

**TOBACCO STEMS.**  
 Strong and Fresh, 300 lb. bales, \$1.50 per bale.  
**TOBACCO DUST,** \$1.00 per bag, 50 lbs.  
 MUSHROOM SPAWN, BULBS, Etc., at lowest prices.

**H. G. FAUST & CO.** 614 & 66 N. Front St. Philadelphia, Pa.  
 When Writing Mention Florists' Exchange

**TOBACCO DUST**  
 Owing to a large supply on hand at present we will furnish the same at \$1.00 per 100; \$4.50 per 500; \$8.00 per 1000; \$16.00 per 2000. Cash with order. Send for our Wholesale Catalogue on the earliest strawberry grown, 100 other varieties.  
**THOMPSON'S SONS, Rio Vista, Va.**  
 When Writing Mention Florists' Exchange

**DON'T SYRINGE WITH COLD WATER**  
 It lowers the vitality of your stock, but write for particulars of my Tempering Apparatus  
**HENRY W. GIBBONS, 134 LIBERTY STREET, NEW YORK.**  
 When Writing Mention Florists' Exchange

**GLASS**  
 FOR GREENHOUSES, CONSERVATORIES, ORAPERIES, HOTBEDS AND FLORISTS' USE GENERALLY, AT LOWEST RATES.  
**L. HARRIS & SON,**  
 437 W. BROADWAY, NEW YORK. 80 LIBERTY ST., NEW YORK  
 Bet. West and Blanton Sts. Bet. Broadway and Church Sts.  
 When Writing Mention Florists' Exchange

**Standard Flower Pots.**  
 Send for our New Price List with extra discounts. All our Pots, from 7 in. and upwards, have our Patent Extensior Bottom, which is a great advantage, as it allows perfect drainage.  
 A FULL LINE OF BULB PANS.  
**THE WHILLDIN POTTERY CO., 713 to 719 Wharton Street, PHILADELPHIA**  
 BRANCH HOUSES: } Kennerly (Windsor Ave., Jersey City, N. J.)  
 } Jackson Ave. and Pearson St., Long Island City, N. Y.  
 When Writing Mention Florists' Exchange

**GLASS!** For Greenhouses, Conservatories, Graperies, Hotbeds and all other purposes, at Lowest Rates. **GLASS!**  
**N. COWEN'S SON, 392 & 394 West Broadway, New York,**  
 Formerly 184 and 166 So. Fifth Avenue.  
 Get our Figures before buying Glass. Estimates Freely Given  
 When Writing Mention Florists' Exchange

**FLOWER POTS**  
 We are Manufacturing a Full Line of **STANDARD FLOWER POTS and HANGING BASKETS OF THE BEST QUALITY.**  
 Shipping Facilities First Class, at Lowest Freight Rates. Our goods are well packed, and breakage is nominal. Give us a trial. Send for Price List. Address **THE SYRACUSE POTTERY CO., 403 N. SALINA ST., SYRACUSE, N. Y.**  
 When Writing Mention Florists' Exchange

Santa Cruz, Cal.

The Florists' Society of this place held its Fall exhibition November 11, 12, and 13. There was a good display of flowers and plants; everybody was pleased, and the management made a little over expenses and were to have a better exhibition next year. From some cause or other, the people did not materialize in the numbers expected.

This is December, and heliotrope, and many other plants, and a lot of other tender plants are flowering now in our gardens. Callas have been in flower a month or more, and will continue until dried off next summer.—Bull.

Summit, N. J.

Lager & Hurrell have been very busy lately banding a lot of imported orchids and are now nearly through with the fifth lot this Fall. Their last lot consisted of the now scarce Cattleya Mendilli, and notwithstanding hard times, they have met with a ready sale.

Washington.

J. Louis Loose has opened a branch store at Rauscher's, corner Connecticut avenue and L street. This store is fitted up in Mr. Loose's characteristic good taste. He will use it as his main store.

Nutley, N. J.

Henry Weindheim, a florist, was found in a dying condition in one of his greenhouses early in the morning of December 5. He had gone there about midnight to examine his plants. Mrs. Weindheim missed him. Before a physician arrived he had died from heart disease.

Libson, O.

John Scott died at his home Friday afternoon, December 1, of heart disease. He was 45 years of age.

## PLANTS and FLOWERS.

**SEEDLING SCARLET CARNATION.**—We have received from T. A. Webb, of Cortus, N. Y., sample blooms of his scarlet seedling which, he states, he has been growing for the last five years. The flowers were very brilliant, similar to that of Jubilee, some of the flowers showing in the center occasional streaks of white. The stem and calyx are both good and the flower of good size. Altogether, from the blooms seen, we think this a meritorious variety. Mr. Webb writes us: "It is a cross of Hector and Silver Spray, and is a very free bloomer, a great keeper and shipper, and free from disease, and is pronounced by all who have seen it growing, a grand one."

Did you see the new catalogue of H. Dayersdorfer & Co.? Write for it. Advt.

**THE BEST**  
**SAVE THE BLOOMS! NIKOTEEN**  
 DOES NOT INJURE SENSITIVE PLANTS USED FOR FUMIGATION OR SPRAYING, INDOORS OR OUTDOOR.  
 200 POUNDS TOBACCO ONE POUND NIKOTEEN  
**Price \$1.50. ALL SEEDSMEN.**  
 When Writing Mention Florists' Exchange

**MILDEW & RED SPIDER DESTROYER**  
 Indicated by all former and used as the best article for the purpose on the market today. It kills the insects and the spores of the mildew while white pipes are hot and the vapor carries it into the plants. Send for price list to post 2,000 ft. of 2 in. pipe, 16 oz. testimonials and directions.  
 Cash with order, please.

**CHARLES S. STOW, Sole Manufacturer,**  
 25 to 260 Broadway, N. Y.  
 When Writing Mention Florists' Exchange

**THE BEST FOR ALL FLORISTS.**  
**ROSE LEAF EXTRACT OF TOBACCO**  
 FOR SALE BY Seed Stores. For Free Pamphlet, Write to LOUISIANA STRAWBERRY TOBACCO Co., Louisville, Ky.  
 When Writing Mention Florists' Exchange

**JOHN CONLEY & SON,**  
 MANUFACTURERS OF **TIN FOIL**  
 2 and 4 Dominick Street, NEW YORK.  
 When Writing Mention Florists' Exchange

**STANDARD POTS.**  
 We are now ready to supply a superior quality of Pots in unlimited quantities. Catalogues and price lists furnished on application.

**A. H. HEWS & CO.,**  
 NORTH CAMBRIDGE, - MASS.  
 When Writing Mention Florists' Exchange

**STANDARD FLOWER POTS**

In any quantity, and of the best quality. Get my price list before ordering elsewhere  
**W. H. ERNEST, Station M., Washington, D. C.**  
 When Writing Mention Florists' Exchange

**VALVES and FITTINGS**  
 For Pipe and Tubing. VENTILATING APPARATUS.  
**COLDWELL WILCOX CO.,**  
 Newburgh, N. Y.  
 SEND FOR CATALOGUE Mention paper.  
 When Writing Mention Florists' Exchange

**IF YOU WANT A GOOD SASH LIFT**  
 For a Very Little Money Get

**THE 'NEW DEPARTURE' VENTILATING APPLIANCE.**

For Descriptive Catalogue Send to **J. D. CARMODY, Evansville, Ind.**  
 When Writing Mention Florists' Exchange

**SCOLLAY'S IMPROVED PUTTY BULB**  
 For Glazing Sash, Etc. —ALSO THE— PATENT PLANT SPRINKLER  
 For sale by your Seedsmen or sent, postage paid, for \$1.00.  
**JOHN A. SCOLLAY,**  
 74 & 76 Myrtle Ave., BROOKLYN, - N. Y.  
 SEND STAMP FOR CATALOGUE.  
 When Writing Mention Florists' Exchange

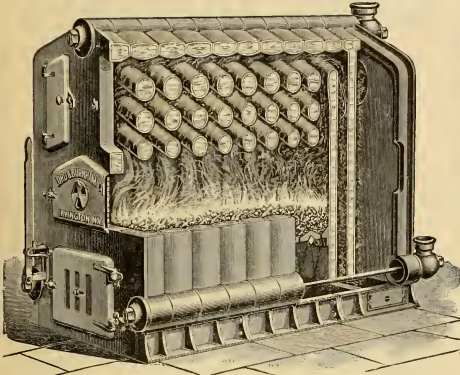
**..Etilix.. Fertilizer**  
 In pure natural product and a most nutritious food for plants. We have no comparison with all other FERTILIZERS and will gladly send you a LIBERAL sample to PROVE IT.  
**Chair Fertilizer**  
 (THE LIFE OF PLANTS)  
**Etilix Fertilizer Co., 107 W. 14th St., New York.**  
 Send your address to Etilix Fertilizer Co., 107 W. 14th St., New York.  
 When Writing Mention Florists' Exchange

**LORD & BURNHAM CO.,**

Horticultural Architects and Builders and Manufacturers of Heating and Ventilating Apparatus.

(Established 1856.)

Plans and estimates furnished on application for Heating and Ventilating Apparatus erected complete, or for material only. Highest Awards at the World's Fair



NEW SECTIONAL HOT WATER HEATER.

Specially adapted to large ranges. Will heat up to 16,500 feet of glass. Highest economy. Moderate cost. Also heaters for smaller work. Send six cents postage to New York office for latest catalogue of Heating and Ventilating Apparatus.

NEW YORK OFFICE: 160 FIFTH AVE., COR. 21st ST.

GENERAL OFFICE AND WORKS: IRVINGTON-ON-HUDSON, N. Y.

When Writing Mention Florists' Exchange

**CYPRESS**  
IS MUCH MORE DURABLE THAN PINE.  
**CYPRESS SASH BARS**  
UP TO 32 FEET IN LENGTH OR LONGER.  
**GREENHOUSE AND OTHER BUILDING MATERIAL.**  
Send for our illustrated book "CYPRESS LUMBER AND ITS USES."  
Send for our Special Greenhouse Circular.  
**THE A. T. STEARNS LUMBER CO.,**  
Newspapers, Boston, Mass.

When Writing Mention Florists' Exchange

**SUMMER IN WINTER**

By Using

**Standard Greenhouse Boilers**

One cent gets our Catalogue.

**GIBLIN & CO., - Utica, N. Y.**

When Writing Mention Florists' Exchange

**Evans Improved Challenge**  
Roller heating, self-lifting device, automatic stop motion, truck chain makes the IMPROVED CHALLENGE the most perfect sash raiser in the market.  
Write for catalogue and prices before placing your orders elsewhere.  
**Quaker City Machine Co.,**  
RICHMOND, IND.

When Writing Mention Florists' Exchange

**WINDOW AND PLATE GLASS**  
**JOHN LUCAS & CO. PHILA.**

When Writing Mention Florists' Exchange

**MASTICA**  
FOR GLAZING GREENHOUSES.

A substitute for putty. Superior in every way. Mastica and Mastica Glazing Machines were given Highest Award of S. A. F. at Pittsburgh. Address for circular.

**F. D. PIERCE CO.,** Sole Manufacturers, 170 Fulton St., New York.  
When Writing Mention Florists' Exchange

**MYERS & CO.,**

**Greenhouse Builders,**

Steam and Hot Water Engineers,

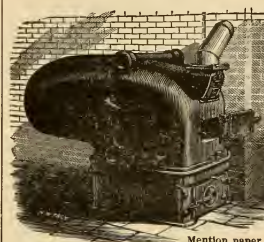
1614-1520 S. Ninth St., Philadelphia.

When Writing Mention Florists' Exchange

**CYPRESS**  
GREENHOUSE MATERIAL OF ANY DESCRIPTION  
**JOHN C. MONINGER CO.**  
412 to 422 HAWTHORNE AV. CHICAGO, ILL.

When Writing Mention Florists' Exchange

**GREENHOUSE HEATING AND VENTILATING,**  
Horticultural Architecture and Building.



Mention paper

SEND 4c. POSTAGE FOR ILLUSTRATED CATALOGUE.

**Hitchings & Co**

ESTABLISHED 1844.

233 Mercer Street, NEW YORK.

**FIVE PATTERNS OF BOILERS,**

NINETEEN SIZES.

Perfect Sash Raising Apparatus.

Roschouses, Greenhouses, Etc., of Iron Frame Construction erected complete or the Structural Iron Work shipped ready for erection.

Iron Frame Benches with the "Perfect Drainage Bench Tile" or Slate Tops.

**The Agricultural Drain Tile** made by JOHN H. JACKSON

ROUND TILE enough equipment and superior clay will produce. The drainage land in the market makes project and most productive. Sale also Heavy Tiles, Rainy Pipes, Red and Blue Brick, Green Tile and Saggie, Mortar, Cement, Plaster, Lime, etc. Write for what you want. 11 Third Ave.

When Writing Mention Florists' Exchange

**PIPE VALVES**

Wrought Iron Pipe, Valves, Cooks, Fittings, also, for Steam and Hot Water; Rubber Hose, Pumps and Well Points.  
**WM. H. KAY, 42 Day St., New York.**

When Writing Mention Florists' Exchange

**THE VAN REYPER**  
**PERFECT GLAZIERS' POINTS**  
No rights or lefts. Price per box of 1000, 60c. by mail, 75c; in lots of 5000 by ex., 55c per 1000  
**HENRY A. DREER, 714 Chestnut St., Phila., Pa.**

When Writing Mention Florists' Exchange

**CALIFORNIA RED CEDAR**  
**Never Decays.**  
**A. DIETSCH & CO. 619 Sheffield Avenue, CHICAGO.**  
MANUFACTURERS OF RED CEDAR AND CYPRESS GREENHOUSE MATERIAL.  
When Writing Mention Florists' Exchange

**The New Automatic Cable Ventilator**

As it is put up to the house complete. We also give you price with a guarantee that each machine sent out will operate your houses successfully. Sell machines now made in two sizes.  
**A. Q. WOLF & BRO., Dayton, Ohio.**

**STANDARD VENTILATING MACHINE,**

NONE EQUAL IT IN Strength AND Durability  
NOTHING Fimsy OR Complicated about it.  
Send for Catalogue  
**E. HIPPARD, YOUNGSTOWN, OHIO**

**TRADE GREENHOUSES.**  
**THE BEST MADE.**

"Florists" Get Your Plans and Estimate from  
**PLENTY'S HORTICULTURAL WORKS,**  
148-156 Randolph Ave., JERSEY CITY, N.J.  
When Writing Mention Florists' Exchange



St. Louis.

Trade Report.

Business has been very quiet the past few days—the beginning of the usual period of dullness that precedes the holidays. Retail dealers report a fair amount of small sales, but have no large orders on hand or in prospect.

Receipts of stock at the wholesale houses have not been large, although quite sufficient to supply the demand. Clean sales have been made of American Beauty at 10c. for ordinary and 25c. to 35c. for the best long stemmed stock. Vase is in short supply, and sell readily at 4c. to 5c. Very few Southern violets are coming in, and home growers stock is in demand at 35c., California bringing as high as \$1.50 per 100. Carnations at 2c. to 4c. are bought only when retailers have orders for them.

Holly and ground pine are being offered by the general commission merchants. The stock is good, plentiful and cheap.

Notes.

Chas. Cannon, Jr. was married at St. George's church, Wednesday, December 8. The bride, Miss Richardson, is from Springfield, Mo. The boys wish the happy couple great good luck.

C. A. Kuehn has enlarged his store, extending it back thirty feet to an alley. This change was made necessary by his increasing trade in wire designs and cut flowers.

C. W. Wors has moved to his new store at 2740 Olive st., formerly occupied by the Cannon Floral Co. He celebrated the event with an entertainment, at which refreshments, both solid and liquid, were lavishly dispensed. Every body was invited, and every-body that attended had a good time.

The Chicago team of bowlers will be in St. Louis Saturday (or Sunday) to play a match with the St. Louis experts. Whether they win or lose, the home club will leave nothing undone to make the Chicago men's visit a pleasant one.

The chrysanthemum show committee is of the opinion that the prizes awarded at the recent show will be paid in full. The discount in any case will not amount to more than 10 per cent. A full report will be made at the regular meeting of the Florists' Club, Thursday, December 17.

Fanny Copley Seavey's report of the St. Louis Flower Show, in the last number of the Florists' Exchange, is very interesting, although the inference to be drawn from it, that most of the prizes were carried away by exhibitors from other cities, is not in strict accordance with the facts.

One of our florists received an order for a pillow to be lettered "Fanny" and the boy in delivering it, by some mishap lost the first letter of the word, leaving only the letters A F A. As the family happened to be devout Catholics, it is needless to say that the design was returned. The florist is out the amount of the order, and the boy is out of a job.

CHAS. YOUNG.

New ideas are a help in business, you will find them in our new catalogue Bayersdorfer & Co. Adv.

ESTABLISHED 1888.

WM. H. GUNTHER,

WHOLESALE FLORIST,

Telephone 2300-38th St.

No. 30 West 29th Street.

New York, December 11, 1897.

An Open Letter to Growers

Gentlemen:

My business for the past ten years has been principally in Violets, until I have now established the best connection of anyone in that line.

Many of my customers, from time to time, have solicited me to take up general stock; to that end I undertook to handle the largest and best supply of HIGH GRADE CHRYSANTHEMUM BLOOMS coming into market this Fall, which have been disposed of to good advantage for my clients.

This season I purpose to still further extend my business by handling, in large quantities, Roses, Carnations, Orchids and all other florists' flowers, in addition to my specialty (Violets), which I yet continue to receive as extensively as ever.

It not being generally known that I am open to receive goods other than Violets, I take this opportunity of bringing this fact under your observation.

Yours very faithfully,

WM. H. GUNTHER.

P. S.—Growers contemplating a change will do well to make it at once and thus secure holiday prices.

※ PAST SUCCESS DUE TO PROMPT STATEMENTS AND PAYMENTS..... ※

When Writing Mention Florists' Exchange

1898 Catalogue

We can illustrate and print it for you, and the work will be well done, and delivered on time.

We have the experience and every facility.

First come naturally best served.

A. T. De La Mare Ptg. & Pub. Co., Ltd., Nos. 2 to 8 Duane Street, New York.

**J. K. ALLEN,**  
Wholesale Commission Dealer in  
**CUT FLOWERS,**  
57 W. 28th St., New York.  
Orders by mail or telegraph promptly attended to.  
Telephone Call, 362 38th St.  
ROSES and VIOLETS SPECIALTIES.

---

**W. S. ALLEN,**  
17 West 28th St., New York.  
Correspondence Solicited.

**J. B. EZEHEL,**  
Wholesale Florist,  
42 West 28th St., NEW YORK.  
Telephone 3723-18th.  
Asparagus, Vally, Carnations,  
Specialties. <sup>60</sup>/<sub>100</sub> Consignments Solicited.

**FORD BROS.**  
**WHOLESALE FLORISTS,**  
111 West 30th Street,  
NEW YORK.  
Consignments Solicited. Telephone 260 38th St.

**WM. H. GUNTER,**  
Wholesale Florist  
VIOLETS and CARNATIONS A SPECIALTY.  
Consignments Solicited.  
30 West 29th St., New York.  
Telephone, 250-38th Street.

**MICHAEL A. HART,**  
Wholesale & Commission Florist,  
113 W. 30th St., New York.  
Telephone Call, 1307 38th St.  
All kinds of Roses, Violets and Carnations  
& Specialties.  
**ORDERS PROMPTLY ATTENDED TO.**

**H. A. HOFFMANN,**  
Wholesale Florist  
44 W. 29th St., New York.  
Telephone Call, 1353 38th St.  
American Beauties, White Violets, Adiantums,  
Specialties. **CONSIGNMENTS SOLICITED.**

**EDWARD C. HORAN,**  
**WHOLESALE FLORIST,**  
No. 34 W. 29th St., New York.  
The Beds, Mornet and American  
Beauty Specialties.

**J. M. KING,**  
Wholesale Commission Florist,  
49 W. 29th St., NEW YORK CITY,  
Writes to inform growers and others that he has  
enlarged his place to three times, its former size  
and is now able to handle a much larger quantity  
of stock than before.  
**CONSIGNMENTS SOLICITED.**  
Telephone 1675-38.

**JULIUS LANG,**  
Wholesale Florist  
53 West 30th St.,  
NEW YORK.  
Consignments Solicited.

**ERNST C. ASMUS**  
Wholesale Florist.  
**ROSE SPECIALTIES:**  
Am. Beauty, G. Mrs., Carnot,  
Bride, Morgan,  
Bridesmaid, Meteor

**K. A. Victoria**  
**VIOLETS, ORCHIDS, CYPRIDEMUMS**  
**AND CARNATIONS.**  
Grower of the only VALLEY receiving a N.Y. CUTFLOWER CO.  
World's Fair Medal.  
Special attention given to shipping orders. 119-121 W. 23d St.  
When Writing Mention Florists' Exchange 112-114 W. 24th St., N.Y.

**A. L. VAUGHAN.** **CHAS. W. MCKELLAR.** **E. F. WINTERSON**

**VAUGHAN, MCKELLAR & WINTERSON,**  
**WHOLESALE COMMISSION JOBBERS**  
in Cut Flowers, Plants, Bulbs, Seeds, Xmas Holly, Bouquet Green,  
and all Florists' supplies. Manufacturers of Wire-work.  
**45, 47, 49 WABASH AVENUE, CHICAGO, ILL.**  
When Writing Mention Florists' Exchange

**Wholesale Prices of Cut Flowers**

NAME AND VARIETY.	NEW YORK	BOSTON	PHILADELPHIA	CHICAGO	ST. LOUIS
	Dec. 10, 1897.	Dec. 8, 1897.	Dec. 5, 1897.	Dec. 5, 1897.	Dec. 8, 1897.
A Beauty, fancy and special.	25.00 to 40.00	20.00 to 30.00	20.00 to 40.00	25.00 to 40.00	20.00 to 25.00
"    "    "    "    "    "    "    "	10.00 to 20.00	10.00 to 20.00	10.00 to 20.00	10.00 to 20.00	10.00 to 15.00
"    "    "    "    "    "    "    "	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00
"    "    "    "    "    "    "    "	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00
"    "    "    "    "    "    "    "	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00
"    "    "    "    "    "    "    "	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00
"    "    "    "    "    "    "    "	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00
"    "    "    "    "    "    "    "	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00
"    "    "    "    "    "    "    "	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00
"    "    "    "    "    "    "    "	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00
"    "    "    "    "    "    "    "	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00
"    "    "    "    "    "    "    "	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00
"    "    "    "    "    "    "    "	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00
"    "    "    "    "    "    "    "	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00
"    "    "    "    "    "    "    "	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00
"    "    "    "    "    "    "    "	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00
"    "    "    "    "    "    "    "	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00
"    "    "    "    "    "    "    "	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00
"    "    "    "    "    "    "    "	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00
"    "    "    "    "    "    "    "	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00
"    "    "    "    "    "    "    "	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00
"    "    "    "    "    "    "    "	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00
"    "    "    "    "    "    "    "	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00
"    "    "    "    "    "    "    "	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00
"    "    "    "    "    "    "    "	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00
"    "    "    "    "    "    "    "	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00
"    "    "    "    "    "    "    "	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00
"    "    "    "    "    "    "    "	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00
"    "    "    "    "    "    "    "	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00
"    "    "    "    "    "    "    "	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00
"    "    "    "    "    "    "    "	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00
"    "    "    "    "    "    "    "	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00
"    "    "    "    "    "    "    "	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00
"    "    "    "    "    "    "    "	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00
"    "    "    "    "    "    "    "	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00
"    "    "    "    "    "    "    "	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00
"    "    "    "    "    "    "    "	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00
"    "    "    "    "    "    "    "	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00
"    "    "    "    "    "    "    "	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00
"    "    "    "    "    "    "    "	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00
"    "    "    "    "    "    "    "	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00
"    "    "    "    "    "    "    "	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00
"    "    "    "    "    "    "    "	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00
"    "    "    "    "    "    "    "	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00
"    "    "    "    "    "    "    "	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00
"    "    "    "    "    "    "    "	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00
"    "    "    "    "    "    "    "	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00
"    "    "    "    "    "    "    "	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00
"    "    "    "    "    "    "    "	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00
"    "    "    "    "    "    "    "	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00
"    "    "    "    "    "    "    "	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00
"    "    "    "    "    "    "    "	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00
"    "    "    "    "    "    "    "	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00
"    "    "    "    "    "    "    "	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00
"    "    "    "    "    "    "    "	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00
"    "    "    "    "    "    "    "	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00
"    "    "    "    "    "    "    "	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00
"    "    "    "    "    "    "    "	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00
"    "    "    "    "    "    "    "	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00
"    "    "    "    "    "    "    "	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00
"    "    "    "    "    "    "    "	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00
"    "    "    "    "    "    "    "	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00
"    "    "    "    "    "    "    "	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00
"    "    "    "    "    "    "    "	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00
"    "    "    "    "    "    "    "	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00
"    "    "    "    "    "    "    "	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00
"    "    "    "    "    "    "    "	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00
"    "    "    "    "    "    "    "	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00
"    "    "    "    "    "    "    "	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00
"    "    "    "    "    "    "    "	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00
"    "    "    "    "    "    "    "	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00
"    "    "    "    "    "    "    "	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00
"    "    "    "    "    "    "    "	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00
"    "    "    "    "    "    "    "	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00
"    "    "    "    "    "    "    "	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00
"    "    "    "    "    "    "    "	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00
"    "    "    "    "    "    "    "	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00
"    "    "    "    "    "    "    "	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00
"    "    "    "    "    "    "    "	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00
"    "    "    "    "    "    "    "	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00
"    "    "    "    "    "    "    "	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00
"    "    "    "    "    "    "    "	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00
"    "    "    "    "    "    "    "	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00
"    "    "    "    "    "    "    "	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00
"    "    "    "    "    "    "    "	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00
"    "    "    "    "    "    "    "	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00
"    "    "    "    "    "    "    "	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00
"    "    "    "    "    "    "    "	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00
"    "    "    "    "    "    "    "	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00
"    "    "    "    "    "    "    "	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00	4.00 to 8.00
"    "    "    "    "    "    "    "	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00	2.00 to 4.00
"    "    "    "    "    "    "    "	4.00 to 8.00	4.00 to 8.00	4.00 to 8		

**Wholesale Florists**  
FLORISTS OF HAWLEY  
 CARNATIONS,  
 BRIDGES, BIRDS.  
*N. F. Hawley*  
**FLORISTS' SUPPLIES.**  
**FLORISTS' VASES.**  
Horticultural Auctioneers.  
 84 HAWLEY STREET, - BOSTON.

**GEO. A. SUTHERLAND,**  
SUCCESSOR TO WM. J. STEWART,  
**CUT FLOWERS and FLORISTS' SUPPLIES**  
**WHOLESALE.**  
 67 Bromfield St., Boston, Mass.

**WM. J. BAKER,**  
**Wholesale Florist**  
 1432 So. Penn Square,  
 Philadelphia, Pa.

**DUMONT & CO.,**  
**WHOLESALE FLORISTS**  
CARNATIONS A SPECIALTY.  
 No. 1305 Filbert St., Philadelphia.  
\*PHONE, 3022 D.

**S. FROWERT,**  
**Wholesale Florist,**  
 17 North 13th Street,  
 PHILADELPHIA, PA.  
Consignments Solicited. Special Attention Given to Shipping Orders.

**CHAS. H. MILLER,**  
**Wholesale Florist**  
 No. 6 So. 19th Street,  
 PHILADELPHIA, PA.

**EDWARD REID,**  
**Wholesale Florist**  
 1526 RANSTEAD STREET,  
 Bet. Market & Chestnut Sts., PHILADELPHIA.  
**All CUT FLOWERS** in Season.  
Phone 2668 A.

**WM. C. SMITH,**  
**Wholesale Florist,**  
 40 S. 16TH ST.,  
 PHILADELPHIA.  
 Roses, Carnations, etc. Consignments Solicited.

**N. B.**      **N. B.**  
**Christmas Goods**  
**For Boston Buyers**

CUT FLOWERS, SUPPLIES, HOLLY, MISTLETOE and all CHRISTMAS GREENS. BEST IN THE MARKET.  
 Fully Equipped for Cut Flower Consignments and Can Command the Best Market.

**GALVIN & CO., 4 Ordway Pl., Boston, Mass.**

When Writing Mention Florists' Exchange

**WALTER F. SHERIDAN,**  
 39 West 28th St., N. Y.

**Wholesale Florist,**

Everything in the Cut Flower Line for the  
**HOLIDAYS!**

BEAUTIES, TEAS, MAIDS, BRIDES, PERLES, TESTOUTS, CARNATIONS, VIOLETS, SMILAX, all of the First-Class.

**PRICE LIST ON APPLICATION.**

When Writing Mention Florists' Exchange

**ILLINOIS CUT FLOWER CO.,**  
**J. B. DEAMUD, Mgr.**  
 Wholesale Florists.  
 Consignments of Fancy Stock Solicited.  
 51 and 53 Wabash Avenue, CHICAGO.

**KENNICOTT BROS. COMPANY,**  
**Wholesale - Cut - Flowers,**  
 88 Wabash Avenue,  
 CHICAGO, ILL.  
**WIRE WORK A SPECIALTY.**

**ROGERS PARK FLORAL CO.,**  
**Wholesale Growers of Cut Flowers**  
OFFICE AND SALESROOM,  
 41 WABASH AVE., CHICAGO.  
Headquarters for AMERICAN BEAUTIES.

**MAX RUDOLPH,**  
**Wholesale Florist**  
 All Seasonable CUT FLOWERS.  
**FINE ROSES.**  
Shipping orders a specialty. Consignments solicited.  
 11 W. 12th St., - CINCINNATI, O.

**H. L. SUNDERBRUCH CO.,**  
**Wholesale Commission Florists,**  
 4th and Walnut Streets,  
 CINCINNATI, OHIO.  
Consignments Solicited. Special Attention Given to Shipping Orders.

**HEADQUARTERS** In Western New York. Try us  
**ROSES, CARNATIONS AND ALL SEASONABLE FLOWERS.**  
**WM. F. KASTING,** Wholesale Commission Florist  
 495 Washington Street, BUFFALO, N. Y.  
Also Dealer in Florists' Supplies & Wire Designs

**St. Louis Cut Flower Co.**  
**WHOLESALE FLORISTS,**  
 1620 Olive St.  
 ST. LOUIS, MO.

**CHOCOLATE COOLER CO.,**  
**GRAND RAPIDS, MICH.**  
Manufacturers of  
**FLORIST'S REFRIGERATORS.**  
Sent by Circular.  
When Writing Mention Florists' Exchange

**NOW READY TO BOOK ORDERS FOR THE HOLIDAYS.**

**25,000 Cypridium Insigne**      **5000 Choice Smilax**  
 Twelve and one-half Cents each.      Twenty Cents a string.

**THE SMILAX KING, Walden, N. Y.**  
**HE PAYS THE EXPRESS.**      **N**OW IN PRESS—OUR NEW 1898 CALENDAR. If you do not receive one write for one. They cost big money but we give them away.  
**CASH WITH ORDER**  
When Writing Mention Florists' Exchange

# WM. ELLIOTT & SONS,

Will Offer at AUCTION,

On Tuesday and Friday, Dec. 14 and 17,

At Salesrooms, 54 & 56 DEY ST., N. Y.,

These will Positively be our Last Two Sales.

# TO CLOSE THE SEASON

10 CASES OF HIGHLY ORNAMENTAL SHRUBBERY,

Consisting of *Prunus*, *Buxus*, *Aucubas*, *Syringas*, *Cupressus*, *Taxus*, *Junipers*, *Standard Azaleas*, *Viburnums*, *Buxus*, *Rhododendrons*, *Euonymus japonica aurca semperflorens*, **ROSES**, **LILY BULBS**.

When Writing Mention Florists' Exchange

NOW A PRINTED NOVELTY!

## Floral Calendars

For Florists  
 Novel and Original  
 A Harmony of Art and Nature  
 Very Flowery Effects  
 Extolled by Everybody  
 Variety in Styles and Sizes  
 Prices Moderate  
 Needed Now by Every One  
 Samples mailed on receipt of  
 20 cents in stamps

DAN'L B. LONG, Publisher,  
 BUFFALO, N. Y.

When Writing Mention Florists' Exchange

EVERY FLORIST OUGHT TO  
 INSURE HIS GLASS AGAINST  
 FEAR.

For particulars address  
 JOHN G. ESLER, Sec'y, Saddle River, N. J.  
 When Writing Mention Florists' Exchange

**HOLLY MISTLETOE** and all kinds of **Decorative Evergreens**, best quality guaranteed. Also a complete line of **Florists' Supplies**, such as **Immortelles**, **Metal Wreaths**, **Cape-Flowers**, etc., etc. Orders furnished promptly at **LOWEST PRICES**. Write for quotations.  
**L. J. KRESHORF**, 112 W. 27th St., New York.  
 When Writing Mention Florists' Exchange

## Florists' Supplies.

**H. BAYERSDORFER & CO.,**  
 66 N. FOURTH STREET, PHILADELPHIA, PA.  
 When Writing Mention Florists' Exchange

## SAVE 50% DUTY

ON METAL FLORAL DESIGNS BY BUYING OF THE MANUFACTURER. ALSO ON PREPARED PALM LEAVES. LARGEST STOCK, BEST GOODS, LOWEST PRICES. ALL FLORISTS' SUPPLIES. NONE. WRITE FOR CATALOGUE.  
**A. HERRMANN.** 404, 406, 408, 410, 412 East 34th Street, NEW YORK CITY.  
 Manufacturer of METAL FLORAL DESIGNS, Importer and Dealer in FLORISTS' SUPPLIES.  
 When Writing Mention Florists' Exchange

**DRACAENA SANDERIANA** from 3 in. pots \$3.00 per doz.  
**ANTHERICUM PICTURATUM** from 4 in. pots, \$1.50 per doz.; 3 in. pots, 75c per doz.

**VARIEGATED VINCAS**, from 4 in. pots \$5.00 per 100.  
**C. EISELE**, 11th & Jefferson Sts., Philadelphia, Pa.  
 When Writing Mention Florists' Exchange

**SUPPLIES** of all kinds for Florists' stores, greenhouses and gardens; seeds of choicest strains and bulbs in season. Metal Floral Designs for centers, decorations, baskets, pot covers, plant stands for the holiday trade. China and Metal Fern Dishes in rich assortment. Immortelles, Cape Flowers, Christmas Trees and more. Send for new list to **AUGUST ROLKER & SONS**, 52 Dey St., New York.  
**HOLLY**  
 When Writing Mention Florists' Exchange

**MANURE.**  
 Fresh and well rotted horse manure. Manure for mushroom growing a specialty. Excellent facilities for shipping by Penn'a. R. R., P. & E. R. & O. and also by boat. **Wm. Abernethy**, Room 310, 710 Filbert Street, Philadelphia, Pa.  
 When Writing Mention Florists' Exchange

Write **C. S. LODER, Sec'y,**  
**NATIONAL FLORISTS' BOARD OF TRADE**  
 211 Broadway, New York.  
 In regard to Collections, Credits, etc.  
 When Writing Mention Florists' Exchange

# GROW PRIZE WINNERS

...BY USING

Jadoo Fibre...

...AND...

Jadoo Liquid

WE will offer CASH PREMIUMS at all Exhibitions in 1898 for all plants grown in JADOO FIBRE or watered with JADOO LIQUID that win scheduled FIRST PRIZES.

THE AMERICAN JADOO CO. 811 FAIRMOUNT AVENUE Philadelphia, Pa.

When Writing Mention Florists' Exchange

# THE FLORISTS' EXCHANGE

We are a straight shoot and aim to grow into a vigorous plant.

A WEEKLY MEDIUM OF INTERCHANGE FOR FLORISTS, NURSERYMEN, SEEDSMEN AND THE TRADE IN GENERAL.

VOL. IX, No. 51.

NEW YORK, DECEMBER 18, 1897.

One Dollar Per Year.

## NOVELTIES IN CHRYSANTHEMUMS

We are Now Booking Orders for the Following Prize Winners. Plants Ready for Delivery March 1st. Place Your Orders at Once. Orders Filled in Order Received.

**FRANK HARDY.** This fine chrysanthemum has created a sensation wherever exhibited this season. It has a future, and it is bound to find favor both for commercial and for exhibition purposes. It is a magnificent thing in every way; erect stem, good keeper; foliage right up to flower.

**MRS. H. WEEKS.** "This is an ideal variety for exhibition purposes, and takes on a size and finish not to be found in any other white. Its merits may be judged by the fact that it won first prize for the best twenty-five white in competition with the finest examples of **Queen** and **Mrs. Henry Robinson** that has ever been the fortune of the writer to see. Stem, neck, and foliage all perfection."

Price of the above two sorts, \$3.00 per dozen; \$20.00 per 100.

**PENNSYLVANIA.** The finest yellow chrysanthemum for cut blooms or for exhibition ever produced.

We also call particular attention to **AUTUMN GLORY, SOLAR QUEEN, BLACK HAWK** and **QUITO**.

Price of the above five sorts, \$5.00 per dozen; \$35.00 per 100. We can also supply all other novelties of the season at introducers' prices, and will be glad to book orders for any varieties wanted. Our collection of standard sorts is large and complete. We will be glad to quote prices on any or all standard varieties.

## WE ALSO CALL ATTENTION TO OUR LARGE STOCK OF PALMS AND OTHER DECORATIVE PLANTS.

We will be glad to mail our special offer of these for holiday trade on application. We are offering bargains in **LARGE ARECAS, ARAUCARIAS, NIPPHO-LEPIS EXALATA BOSTONIENSIS** (The Boston Fern), **PANDANUS VEITCHII, FICUS, KENTIAS, LATANIAS**, etc., etc.

**F. R. PIERSON CO.,**  
TARRYTOWN-ON-HUDSON, NEW YORK.

When Writing Mention Florists' Exchange

## PALMER'S HOT BED MATS.

FROST PROOF.

MADE expressly for winter covering of hotbeds, cold frames, plants and seeds of all kinds.

Indestructible, Cheap and Warm

Will not harbor mice or vermin. Easily handled. Have now been in practical use three years. Cost less than half as much as old-fashioned straw mats and entirely take their place.

Made in regular sizes, 76x76 inches and 76x40 inches, or any size desired sold by the running foot 76 inches wide.

That these mats are a much needed improvement over anything heretofore used for the same purpose, is demonstrated by the large demand and many testimonials from prominent men in the trade. Everyone using Hot Bed Mats should give them a trial.



WE ALSO MAKE QUILTED

HORSE BLANKETS,

The Cheapest, Warmest and Strongest in the World.

WEIGHING 9 POUNDS.



**THE R. T. PALMER CO.,**

Or New London, Conn.

113 Worth Street, New York.

When Writing Mention Florists' Exchange

## ROSE HILL NURSERIES.

JUST ARRIVED!

## DRACÆNA CANES

FOR PROPAGATING.

We are the Largest Growers and Importers and Exporters of Dracæna Canes.

**Dracæna Amabilis,**

" **Braziliensis,**

" **Gladstoncii,**

" **Norwoodensis,**

**Dracæna Regia,**

" **Stricta Grandis,**

" **Terminalis,**

" **Yongii.**

All Canes sound and in perfect condition. If ordering equal proportions of each of the above varieties we shall make prices for immediate DELIVERY 12 cents per pot. ORDER AT ONCE.

**SIEBRECHT & SON,** NEW ROCHELLE, N. Y.  
Telephone, 101 N. Y.  
NEW YORK OFFICE, 409 5TH AVE. Telephone 1742-38th.  
When Writing Mention Florists' Exchange

## Vaughan's HOLLY Xmas . . . .

Our XXX Brand is the Good Kind

and if you book order with us now we will make shipment when you say the word.

**EVERY CASE** re-inspected before it leaves our warehouse, and if quality is not right you don't get it. Per single case, \$5.00.

SPECIAL PRICE QUOTED FOR QUANTITIES.

## BOUQUET GREEN

Write or wire for price on any quantity.

We can positively sell you this stock to advantage.

**IMMORTELLES,**

**CAPE FLOWERS,**

**RATTAN,**

And all Holiday Stock at Right Prices.

14 Barclay St.,  
NEW YORK.

**VAUGHAN'S SEED STORE**

84 & 86 RANDOLPH ST.,  
CHICAGO.

When Writing Mention Florists' Exchange

**WATCH OUR SEASONABLE SUPPLIES**



Rouquet Green, best quality, per 100 lbs., \$6 00  
 Holly, best Maryland, per case, 5 00  
 Mistletoe, English, same price on application  
 Cape Flowers, variety No. 1, per lb., 75c  
 Immorities, White, Purple, Red, per doz. bunches, 2 00  
 Yellow, per doz. bunches, \$3 00  
 Stemming Wire, No. 21, 25, 28, 29, per lb., 10c; per stone, 1 15  
 No. 38, per lb., 25c; per stone, 2 25  
 Tooth Picks, No. 1, per doz., 80  
 No. 2, per doz., 50c; per case, 5 00  
 Spiraea Japonica, per 10 clumps, \$1.00; per 1000, 85 00  
 Spiraea Composita, per 100 clumps, \$2.25; per 1000 clumps, 55 00  
 Lily of the Valley, per 100, \$10.00;  
 per case, 24 00

**WILLIAM ELLIOTT & SONS, 54 and 56 Dey St., New York.**

When Writing Mention Florists' Exchange

**AMERICAN BULB COMPANY**  
 PROPRIETORS U. S. EXOTIC NURSERIES.  
 Wholesale Growers and Importers.  
 Short Hills, NEW JERSEY.

When Writing Mention Florists' Exchange

**速 CYCAS REVOLUTA STEMS**

Now is the time to order your CYCAS STEMS for Spring delivery. We will give you the very lowest prices on early orders, and guarantee extra fine stock  
**READY FOR DELIVERY**—Auratum, Rubrum Album, and other Japan Bulbs.  
 CALIFORNIA FLOWER SEED.

**H. H. BERGER & CO., 220 Broadway, N. Y.** Branch: San Francisco, Cal. (Established 1875.)

When Writing Mention Florists' Exchange

**LILY OF THE VALLEY**

The finest in the market, \$12.50 per 1000. Fine, \$10.00 per 1000.

**CHINESE SACRED LILIES**, 30 in a basket and 4 baskets to a bale, \$20.00 per 1000.

**LILIUM HARRISII** and **LONGIFLORUM**, still a few left. Roses, Rhododendrons, Clematis, etc., will be in this week.

**F. W. O. SCHMITZ, - - - JERSEY CITY, N. J.**

When Writing Mention Florists' Exchange

**DREER'S Mushroom Spawn**

New shipment for second crop planting just received, plant in December for Spring cutting which is the most profitable.

\$7.50 per 100 lbs.  
 70.00 per 1000 lbs.  
 250 lbs. or over at 1000 lb. rate.

**HENRY A. DREER,**  
 714 Chestnut St., PHILADELPHIA.

When Writing Mention Florists' Exchange

**MONEY FOR YOU**



Others are Planting **GLADIOLI** Under Glass.

Why Not You?

OUR STOCK IS UNEXCELLED. PRICE LIST ON APPLICATION. IT TELLS HOW TO GROW THEM.

**Cushman Gladiolus Co. Euclid, Ohio**

When Writing Mention Florists' Exchange

**PETER HENDERSON & CO.'S**

**IMPORTANT ANNOUNCEMENT!**

**:: NEW DEPARTURE FOR 1898.**

*Henderson's Seeds are Genuine Only When Supplied by Them Direct to the Planter.*

WHILE we have withdrawn from the Wholesale Jobbing Seed Trade we respectfully announce that

**WE WILL STILL CONTINUE TO SUPPLY FLORISTS AND MARKET GARDENERS...**

with our Superior Seeds, Plants and Bulbs, for their OWN planting, at our lowest wholesale prices as heretofore. Our Wholesale Catalogues will be mailed to our customers as soon as ready, early in January, and to others on application.

The only branch of the seed business that we are discontinuing is the supplying of seeds to storekeepers and others to sell again.

**PETER HENDERSON & CO. 35 and 37 CORTLANDT ST. NEW YORK.**

When Writing Mention Florists' Exchange



### Violets.

The question is often asked by dealers the days, why do you so scarce in the present season? The answer is not so difficult. It is simply owing to conditions over which we have no control. Up to September stock was unusually plentiful, clean and healthy. As the season advanced, and winter seasonally warm, in fact, "hot," in the heated sense of the term, and violets were scarce, even in the open air. Natural results developed, and along in October the grower had to contend with the spot, black aphid, gall, fly, leaf roller, red spider or the other insect enemies of violets almost too numerous to mention, only to be followed in the darkest November on record. Of course, growth was checked and many buds nipped, hence a notable shortage as the usual cut. Besides, the greatly accelerated call for violets demanded blooms while they were yet in the bud state, otherwise quality would average about the same as usual.

The present outlook is favorable for a good and continued supply. Daily calls are largely on the increase, and plenty of plumb buds showing. Quality is excellent, rich deep color, good blooms on long stems—like a fine grape, plucked out of the shipping orders.

A note in a contemporary that "W. M. Plumb has a new way of growing violets. I wish he would explain where he got his information, as he was not at the greenhouse, and the way in which it is not admitted at court. I believe my violets both as to plants and strain will compare favorably with any grown, and "W. M." is cordially invited to visit my violet range personally and report on "facts." I can assure him a warm reception.

Violets have been a staple article for shipping with me for twelve years past, and there has been a marked improvement in strain and quality. Connoisseurs pronounce my strains to be a veritable drop in color and longer stemmed than Marie Louise is usually. Surely great pains have been taken to develop its good qualities—by careful selection and propagation. Speaking from experience "Patience" is less valued in the violet trade than has often an objectionable green center from which my strain is free. Undoubtedly it has been a great stimulus to growing violets successfully. Fresh-rooted with fine pulverized coal manure, and sold both in the way of a business, united to the closest application.

Other crops will bear with occasional neglect, but not so with violets.

[The blooms arrived in excellent condition; they were clean, and well colored, showing good culture.—Ed.]

F. Boulon, Sen Chef, N. Y., his daughter and son-in-law, have returned from France. M. Boulon brought with him several novelties, the most striking among which are La France, a fine single, equally as desirable, he says, as the now popular double. It is like one having a larger flower, which when fully opened is believed to take on a French blush tint. The color is like a soft velvety appearance. La Patrie is, he says, a handsome dark blue variety, and Belle de France is a fine double in the old English violet. Belle de Brabant and Belle de France are both doubles, with a color as distinct as that of Lady Hume Campbell, the flower of which is much like that of the latter, is a single white, with a flower of the same color as that of Swaney White. For a large sample of the time, these new varieties will be tried by M. Boulon.

Paris M. Boulon particularly observed the great popularity of the single violet. The French buyers of this flower do not wish the double. The Laxone and Quatre Saisons are great favorites. The French growers around Paris of such violet centers as the Belle Bouge La Reine and Fontaine au Rose are experiencing the same trouble as our own growers, as regard the double violet; in fact, so prevalent are these pests that that growing the double violet has been abandoned. Most of the plants now supplied from Nice, whence also come large quantities of carnations and other flowers, the perfume of which reach Paris the fragrance has gone; yet they are still sold. In the Halls Central and great markets in France, the carloads of blossoms are daily disposed of in great quantities, the prevailing system of reaching the dealer, the flowers are given by A. M., the best flowers be-

ing secured by the high-class stores in the earlier hours, the lakir element obtaining their supplies of cheaper grades as the hour for closing approaches. The French growers, like those at home, are still looking for the primal cause of all their troubles—spot, rust, and other diseases that attack their specialty, and render life burdensome.

### New York Florists' Club.

The meeting on Monday evening last, December 13, was well attended; the attendance having been the largest in some time. President Henshaw, who has almost fully recovered from his recent illness, occupied the chair. In a few preliminary remarks—a sort of valedictory talk—he commented regretfully on the non-appearance at the meetings the past year of some of the older members, stating that during his administration very many of them had not been present once. He deplored the secession of the gardeners from the Florists' Club. That body would like to harmonize with all similar organizations of a kindred nature, whose object was to increase the love of flowers and everything pertaining thereto. The president dwelt on the need for greater interest being taken in club exhibitions, referring to the successful shows of the old New York Horticultural

holding an annual dinner next month; and to request all those to come to the January meeting, "prepared to put down the money for tickets. No price was stated. Formerly, tickets for this occasion cost \$5 a piece.

The sum of \$150 was appropriated to the essay committee, for the purpose of creating awards, copyrighting their papers, and the publication of the same at the end of the year, a copy to be distributed to each member in good standing.

Notice of a change in the by-laws was presented, to provide for propositions for appropriation of money, which was submitted to the Club in writing, same to lie over one month for consideration. There followed a spirited discussion on the remissness in duty of the present essay committee, the difficulty of securing essayists or lecturers owing to paucity of attendance, the discourtesy and disrespect shown to essayists, on several occasions, through a disinterestedness in the papers read; the necessity of upholding the dignity, and the respect to which a lecturer or essayist was entitled; how far propositions could go in the matter of reporting copyrighted papers; the desirability of a wide dissemination of the subject material contained in the papers, even to the extent of distribution of same through the daily press; how best to interest the daily newspapers and the "public in the

fortune in the western world, settling at Montreal, where he was for a short time in the employ of the Jay's bookbinders. He was a first-class market gardener. His Canadian experience not coming up to his expectations, he returned to his native country, where he secured a position as gardener at Greenway, near New York. He was afterwards at Richmond, a noted grower and exhibitor of stove and greenhouse plants and palm-trees. He was afterwards in the West, on the greatest mission of his life—to secure his life partner. After remaining in the West for 13 years, he crossed the ocean, and has remained on American soil ever since.

It is perhaps, as a manager of New York's flower shows that Mr. Plumb's name is most familiar to the trade. When plans for the arrangement of the Lenox Lyceum exhibition, given under the auspices of the New York Florists' Club (their first undertaking of this nature), were advertised for, those submitted by Mr. Plumb were selected by the Lyceum committee. The beautiful layout of the Lyceum on that occasion will yet be fresh in the memories of those who had the pleasure to visit the exhibition in question. The Club's appreciation of his masterful services in connection with the exhibition held by the Florists' Club in conjunction with the Madison Square Garden, in 1891 and 1892, the 31 show having the honor of being given the first and only flower show in New York City, which it is presumed that has been a financial success.

In 1893 Mr. Plumb went South to Atlanta, Ga., where he was connected with the West View Floral Co., and acted as superintendent of the West View Cereals and Floriculture Co., gradually coming back north to accept the management of C. Weidenfeld's place at Oyster Bay, N. Y., a semi-commercial establishment.

President-elect Plumb is at present head gardener to the Hon. C. P. Huntington, at Throgs Neck, N. Y.

Mr. Plumb was one of the first twenty members of the Florists' Club at its inception, and has remained an active member ever since. He has witnessed the steady growth of the Club, and is proud to see it so well advanced until it is without parallel, as a florists' club, in the country, and has developed the young interest that has manifested itself in recent years. Ready at all times to do anything in his power, to the extent of putting his hand in his pocket whenever necessity demanded, to further the Club's advancement, the members' recognition of the good services he has rendered them as a body, is now shown by their electing him to the highest office in their gift—a well-deserved honor and worthily bestowed, and one which, we feel sure, time will but too amply vindicate.

Mr. Plumb is a member of the Columbia Commandery of Knight Templars, and of the Mechanics' Trade Union of the Shrine.

Spiegelkugel (to assistant)—Why did you put that sign up? "Boston Peaches"? Wags—Can't you see dey's all got specks?—World.

William Plumb, President-elect New York Florists' Club.

tural Society which the public largely patronized. The unwillingness to make displays was condemned, and the hope expressed that with new executive blood, and increased enthusiasm among older members future club exhibitions would excel all previous similar efforts.

The committee's report on rules and regulations governing the competition for the Club's gold medal was submitted and adopted (as given in another part of this number).

The election of officers resulted as follows: For president, William Plumb, gardener, C. P. Huntington, Esq., Throgs Neck, N. Y., vice-president, J. M. Logan, superintendent, Opafr Farm, White Plains, N. Y., treasurer, John Young, treasurer, C. B. Weathered; trustees, A. S. Burns, J. H. Troy, and W. I. Brower.

President Henshaw expressed satisfaction that a gardener would succeed him in office. Around New York there were many florists who at one time or other had been members of the Florists' Club. Mr. Plumb showed the members' appreciation of the gardeners' intelligence.

An invitation from the Dutchess County Horticultural Society, to the annual dinner of that association on January 5 next, was received and the secretary instructed to acknowledge receipt. The secretary was instructed to ascertain how many members were in favor of

Club's work; and the horticultural education of the people generally. It was a general round-up, and no doubt will create a favorable opinion of the incoming administration, which will start under propitious auspices, and doubtless receive the hearty advancement in many directions.

C. Besold, Mineola, N. Y., exhibited a vase of his beautiful pink carnation, Mrs. Joost, a four-year-old seedling of McGowan and Scott. The plants had been grown in the open air, and were cut during the middle of June. The exhibitor was awarded a vote of thanks.

### President-elect Wm Plumb N. Y. Florists' Club.

We have pleasure in presenting in this week's issue a photograph of the newly elected president of the New York Florists' Club, Mr. William Plumb, of Throgs Neck, N. Y.

Mr. Plumb is an Englishman. He was born at Buckden, Huntingdonshire, in 1850. There his father, Samuel Plumb, still lives hale and hearty, at the grand old age of 88 years. Early in life Mr. Plumb chose the ancient profession of gardener, and served an apprenticeship to the Chipping Barnet nursery, then in Kent, under Benjamin Godbold, a gentleman who achieved some fame as a successful grower of forced fruit.

In 1868 Mr. Plumb resolved to try his

They must be fresh to be good no NICOTINE in dried up kind: nicotine kills 75c. per 100 lbs. Good kind 75c. per 100 lbs.

H. A. STODOLFF, 312 MADISON AVENUE, N. Y.

BEST PATENT BOILER.

OPEN TO ALL... FREE TO ALL

Answers Solicited from Those Who Know... (167) Greenhouse Leaf for Identification.

(168) Greenhouse Building and Heating.—I wish your advice in regard to the style of greenhouse to build for growing roses, carnations, and chrysanthemums...

After the chrysanthemums are out will use some space for the growing of asparagus...

—I would build the houses 20 feet wide and from 60 to 80 feet long, according to the size of the lot...

(169) Greenhouse Heating.—I wish to build an even-span greenhouse 24x150 feet with a ridge...

—As near as I can estimate from the data furnished by N. X. Z., the rose house, 24x150 feet, will require about 1,500 cubic feet of radiating surface...

Each brick should have a grate about 2 1/2 feet square and contain about 150 square feet of radiating surface...

in the same manner. The fittings, etc., for the boiler will be fifty-six 1/2-inch pipes 5 feet long...

The pipe and fittings can be obtained from any dealer, and the grate and doors can be ordered from Hirdings & Co.

(170) Red Spider on Violets.—I am troubled with red spider on my violets. I have tried to kill them with hydrocyanic acid...

I understand that hydrocyanic acid gas is very poisonous and will kill in having red spider at this time of year that you cannot use water as freely as you would like to do...

(171) Gall Fly on Violets.—I enclose you a specimen of small fly seen over my violet frames. If it reaches you by mail it will be long frozen...

The small fly which Mr. Comstock enclosed was crushed in a small tin upon its receipt at this office consisting of the portions of two legs...

Regarding Mr. Comstock's request that an article be published about the gall fly on violets, I regret to inform you that very little is known to entomologists about this insect...

These were placed in a breeding cage October 23rd and many flies issued. These proved to be small gall midges of the genus Diplosis and of a species apparently not named or described.

NEWSPAPERS AND MAGAZINES AT REDUCED PRICES FOR 1898.

Save Money by ordering them through us.

Below we print a comprehensive list of the leading publications of the day. When more than one is wanted in club we will be pleased to send you an estimate.

Our list has been carefully selected, and the price at which we offer magazines, etc., in club with THE FLORISTS' EXCHANGE has been made as low as possible...

The first column of figures [A] indicates regular yearly subscription price; the second column [B] our price, including THE FLORISTS' EXCHANGE for one year.

Table with 4 columns: Category, A, B, and General-Con. Lists various agricultural and general magazines with their respective prices.

Horticultural, etc.

Table listing horticultural magazines like Canadian Horticulturist, Garden and Forest, etc.

Poultry.

Table listing poultry magazines like American Poultry Advocate, Fancier's Review, etc.

General.

Table listing general magazines like Advance (Cong'l) News, American Field, etc.

Foreign.

Table listing foreign magazines like Scriber's, St. Nicholas, Garden Work, etc.

Address to THE FLORISTS' EXCHANGE, Nos. 2 & 3 Duane St., New York.

**JUSTICIAS VELUTINA, NERVOSA, FLAVA.**

**OUR NEW CANNA ROSEMAWR**

Very large salmon-pink flower, petals 3 inches wide, green and yellow variegated. Beautiful. Ready by December 15th. Write for prices. **THE CONARD & JONES CO., WEST GROVE, PA.** When Writing Mention Florists' Exchange

**2 YEAR HYBRID PERPETUAL ROSES**

Assorted from best sorts, strong field grown plants at 50¢ per plant. Prices for postage.

**CLEMATIS VIRGINICA** (most American climber, small white flower, 2 year strong at 50¢). **Feeling fine** (live in culture, strong yellow large flower, Clematis, Crucifers, Grapes, Glove Trees, etc.) **W. H. SALTER, - - Rochester, N. Y.** When Writing Mention Florists' Exchange

**P. OUWERKERK,**

1123 Summit Ave., Jersey City, N. J. Just received from our Holland Nurseries:

- RHODODENDRONS, AZALEAS,
- SPIRÆA JAPONICA, LILIUM SPECIOSUM,
- PÆONIES, BLEEDING HEART,
- POD GROWN LILACS, HYDRANGEA IN SORTS.
- CLEMATIS and H. P. ROSES, in the best sorts.

PRICES MODERATE. When Writing Mention Florists' Exchange

**Stationery for Florists.**

Every florist in the land should have a complete supply of printed matter with which to conduct his business in a brilliant style. We have the largest outfit in America devoted solely to horticultural printing, and we understand the wants of the trade. Below we quote two combination offers and would be pleased to supply you.

**\$5.00** Combination offer includes....

- 250 Noteheads, 5¢ each 12.50
- 250 Envelopes, size 8 12.50
- 250 Billheads, 7 ins. wide, 5/16 ins. deep. 250 Business Cards, 2 1/2x3 1/2 ins. 250 Tags, size 2 1/2x3 1/2 ins.

Cash with order. Delivered F. O. B., N. Y.

**\$10.00** Combination offer includes....

- 500 Noteheads, 5¢ each 25.00
- 500 Envelopes, size 8 25.00
- 500 Monthly stationery, 5¢ each 25.00
- 500 Billheads, 7 ins. wide, 5/16 ins. deep. 500 Business Cards, 2 1/2x3 1/2 ins. 500 Tags, 2 1/2x3 1/2 ins.

One Day Book, 10¢. If these are not wanted subtract \$1.00.

Cash with order. Delivered F. O. B., N. Y.

**PLEASE READ THIS BEFORE YOU ORDER.**

Write plainly and send "copy" for each article wanted.

Noteheads will be furnished in smooth writing paper with ruled lines. Linen paper, ruled or unruled, can be had instead if so ordered.

Envelopes are full commercial size and of good quality.

Billheads will be furnished as above, but size 8 1/2 ins. wide and 4 1/2 ins. deep will be substituted when so ordered.

Cards are of good quality and ample proportions.

Day Book and Ledger are large enough for ordinary purposes. Ledger is indexed and will hold 300 accounts.

Special designs, trade marks, etc., engraved to order. A rose, violet, or other flower can be printed on your letterheads and billheads, plain or in color, to order.

The quality of all the above work is guaranteed.

**A. T. DE LA MARC Ptg. & Pub. Co., Ltd.**  
P. O. Box 1697, New York.

**ROSEY BROS.**  
West Grove, Pa., Dec. 14, 1897.

**CAPE JESSAMINES! GARDENIA FLORIDA.**

Strong and stocky, 6 to 10 ins., \$3.00 per 100; 10 to 15 ins., \$4.00 per 100; 15 to 20 ins., \$5.00 per 100. **J. BALDWIN, Newark, O.** When Writing Mention Florists' Exchange

**LETTUCE PLANTS.**

Fine transplanted, true, Grand Heads Lettuce Plants, 30c per 100; 25.00 per 1000. **A. J. BALDWIN, Newark, O.** When Writing Mention Florists' Exchange

**SEEDINGS AND CLONS.**

of Apple, Cherry, Pear and Plum.

**APPLE GRAFTS**

Low Prices. Send List of Wants to **D. S. LAKE, Shenandoah, Iowa.** When Writing Mention Florists' Exchange

**JACKSON & PERKINS CO.,**

NEWARK, NEW YORK.  
Have to offer for season of 1897-98 a choice assortment of Fine and Good new and old varieties Clematis, Ornamental Shrubs, Roses, Fruit Trees and Small Fruit Plants.

**WRITE FOR PRICE LIST.**

When Writing Mention Florists' Exchange

**LETTUCE PLANTS.**

Big Boston, Boston Market, Tennis Ball, White Leaf, Grand Rapids and Kitchen's Favorite. 15c per 100; \$1.00 per 1000. If by mail add 10c per 100.

**R. VINGET JR. & SON, White Marsh, Md.**

When Writing Mention Florists' Exchange

**PEACH AND PLUM TREES FOR FALL**

Order now for season of 1897-98. Reliable and clean stock at low wholesale rates. Can be shipped by express and delivered to your door in fine fruiting orchard. Have the new and desirable varieties of Peach and Plum trees. Buds can be supplied in season at low rates.

**ALEXANDER PULLER, Newark, N. J.**

When Writing Mention Florists' Exchange

**SPRING CATALOGUE**

- Spiræa Astilboides Floribunda, \$6 per 100.
- " Multiflora Compacta, 6.00 per 100.
- " Japonica, . . . 3.50 per 100.

Orders entered now for Spring delivery, for **H. P. ROSES, Clematis, Magnolias, Tree Roses, Hardy Azaleas, etc.**

**L. C. BOBBINK, Rutherford, N. J.**

Branch of the Horticultural Co., Boskop, Holland. When Writing Mention Florists' Exchange

**CARNATIONS.**

**Top Cuttings.**

The taking of top cuttings has often been a subject of controversy, some claiming that at the end of flowering shoots which have grown out to considerable length, but which have not yet reached that tapering stage that indicates the formation of the buds, make equally as good cuttings as the well-developed side shoots which are asserted, with equal confidence, that they do not.

In my experience I have had results which would support either side of the argument. We have, growing in our houses now, plants of several varieties which were made from top cuttings and which are certainly none the worse off for having been propagated in this way. We also had several very good illustrations which, if not properly understood, would certainly produce anything else than a favorable impression as regards this method of propagation.

Of these varieties Bouton d'Or afforded a particularly good object lesson. The cuttings were made about the last week in April and taken directly from the sand as soon as rooted, and planted out in the field where they were to be raised, for some time long enough for them to form buds. Those who are familiar with the taking of top cuttings will understand how quickly small plants show an inclination to bloom, and how, if they are permitted to flower, every effort of the grower to keep them in the bud stage is lost. This was the case with our Bouton d'Or the past summer. When the plants were cut back they threw out a good many runners, and these, being healthy and well foliaged, they were small and thin, with scarcely a leaf, and running up to buds and blooms while they were still young. As often as cut back they repeat the same process, and so the result is that at the end of the summer, at housing time, the plants were worthless. I have had similar results with this variety with top cuttings, but the cases were in various stages; few of them being so extreme as the one I have just described.

There are two principal reasons for the inferiority of top cuttings to the side shoots. The first is, taking shoots which are either already commencing to elongate, preparatory to developing the buds, or about to do so. It seems that cuttings taken in this stage are seldom capable of forming good plants as they are continually inclined to bloom and make very little foliage. The base of the plant being so inclined to form buds and will make well-proportioned and bushy plants.

The second and equally important reason for this peculiarity of top cuttings lies in permitting the young plants to be cut back at the end of the season. This will cause the plant to confine all its efforts to budding and blooming, even though it blooms from the cuttings were made had been well selected.

The point to observe is, to take only such shoots as are inclined to elongate preparatory to blooming, and as they show signs of growing. They will then branch out at the base of the plant forming perfectly normal and healthy shoots. When treated in this way, I see no reason why they should not be as good in every particular as the side shoots.

We prefer, however, to propagate from side shoots, and resort to top cuttings only in the case of varieties which are of these cuttings we always reserve for our own use, as many growers are prejudiced against top cuttings. **H. WENZ.**

**American Carnation Society.**

The seventh annual meeting will be held in Chicago, February 17 and 18, 1898. Information regarding the exhibition hall, etc., will be sent you later on post-

tal card notice. The reason for this is that no definite arrangements have as yet been made, and it is thought best not to keep the premium list back for information as it is desired to have a good circulation to give members ample time to prepare for the same.

**W. N. RHOE, President.**  
Attest: **ALBERT M. HERR, Secretary.**

**Papers.**

We expect a paper by a prominent Chicago commission house on "Carnations from the Commission Man's Point of View." It was proposed that the subject be decided, and one from Prof. Arthur H. Purdies on "Moisture the Planters' Friend." There will be a question box for the "question box" to be sent to the Secretary.

**Premiums.**

**RULES AND REGULATIONS.**

1. All entries must be forwarded to the secretary, Albert M. Herr, Lancaster, Pa., at least ten days before the meeting.  
2. All entries not signed by 11 A. M., February 17, will be disqualified.  
3. The exhibitor who enters in the name of the Society must pay an entrance fee of \$2 for exhibiting in any of the classes.  
4. All exhibits must be clearly and distinctly varieties correctly labeled, and a card giving the grower's name and address must accompany the exhibit, and not to be larger than 6 by 12 inches.

**Regulations Governing the Competition for Seedlings for the Certificate of Merit.**

1. The variety must have been bloomed not less than three years.  
2. Not less than 100 blooms must be shown.  
3. At least one plant must accompany the exhibit; the plant to be taken from the bed or bench in which stock is growing.

Exhibitors entering for the certificate are required to pay an entrance fee of \$5 for each variety entered. Those who enter in the class for preliminary certificate at Cincinnati will be entitled to compete for the certificate of merit. Payment of \$3 for each variety entered.

**Seedling.**

Two-year-old seedlings can compete for a preliminary certificate by exhibiting 12 blooms and the payment of \$2 for each variety entered. Those who enter entitling them to compete for the certificate at our next exhibition, upon the payment of \$3 for each variety entered, in this class.

**Notc.**

The scale of points adopted at our last meeting, to judge all seedlings, will be used for the above two classes, and is as follows:

Color.....	15
Size.....	15
Form.....	15
Stem.....	15
Leaf.....	10
Form.....	10
Fragrance.....	10
Stiffness.....	10
<b>Total</b>	<b>100</b>

To secure the certificate a carnation shall score 85 or more points.

**General Fundings.**

In these there are three classes, and are first regardless of variety, and next by color, and the third by light and dark pink. A light pink must be as light or lighter than Scott, and a dark pink must be darker than Scott.

For best vase (100 blooms) each of white, light pink, dark pink, scarlet, and red, with 25 or more blooms of each variety, and of any other color, first and second premiums of \$10 and \$5 respectively are offered.

In named varieties there will be but one premium offered, and any other white, scarlet, or red, and only to varieties introduced previous to 1897.

A prize of \$4 is offered for each of the following: Best vase (100 blooms) each of Lizzie McGowan, Alaska, any other white; Hector, Jubal, Florida, any other scarlet; and any other: **Edna; Tidal Wave, Scott, Drynaker, Emma Wheeler, any other pink; Lighter than Scott; Aramundy, Helen Keller, Minnie Cook, any other white; and any other yellow; also the same amount of premium for six dozen of white varieties: Best vase (25 blooms) each of pink lighter than Scott; pink not lighter than Scott, red, any other color.**

The scale of points adopted at our last meeting for the judging of these classes is:

Color.....	25
Stem.....	20
Nice.....	15
Size.....	15
Franchise.....	15
.....	10

Total 100

85 being the minimum number of points a carnation is to score to secure first premium.

**Special Premiums.**

J. Breitenreper & Sons, Mt. Clemens, Michigan, offer \$10 for the best 100 blooms, \$5 for the best 50 blooms, and \$2.50 for the best 12 blooms of May or June.

E. G. Hill & Co., Richmond, Ind., offer \$100 for the best 100 blooms of Flora Hill, \$5 for second best 100 blooms of Flora Hill, \$10 for the best 100 blooms of Triumph, \$5 for the second best 100 blooms of Triumph.

The Cottage Gardens, Queens, N. Y., offer a silver cup, value \$25, open to all, for the best yellow or yellow variegated seedling carnation which is not yet distributed, judging according to the best rules of this Society. In competing for this prize each contestant's exhibit must consist of exactly 24 perfect blooms, six buds showing color and six buds half open. No prize winner shall be meant one that has not a bursted calyx, fully stiff stem at least 15 inches long and otherwise uniformly perfect in form. No premium shall be awarded to a variety that possesses a weak neck—that is, one that does not set the flower reasonably erect. No premium to be awarded to a seedling of the commercial class which is inferior to the best variety of its class now in commerce and no premium to be awarded to a seedling that is inferior to the best which shall be less than two inches in diameter.

**Secretary Herr's Experience with Carnations.**

Albert M. Herr, secretary of the American Carnation Society, has issued a circular containing his notes on the most popular varieties now grown, from which we make the following extracts:

**WIRRE.**

Among the white carnations Flora Hill is ahead of all others, and rightly so. The flowers are uniformly large, with a good edge and a long stem. It is a strong and healthy grower, and entirely free from rust. Everywhere that I have seen it, it has met with a very good reception; there is no danger of any grower going wrong in planting largely of it next season. Harrison's White has its sport from Scott, and has many of the characteristics of that variety, but some, wherever I have seen it growing, a bit late in coming into bloom. Lizzie McTowan, which was so long the best white carnation grown, is now only to Flora Hill. Alaska, which has many fringes, is a really good sort where it does well, but it does not do well in all soils. Mrs. Fisher has long been a favorite around Boston, and is a good one for Summer blooming, and I never saw better flowers in the house. Nivola also has made a name for itself in the East, but will not do so well in our climate. There are a number of others which will be in the market this season. A Trio, seen at the Philadelphia show, that seemed of merit, were White-Lord, Evadina, and a white grown by Mr. Barton.

**PIK.**

In this class I have called down and an growing Triumph for my main supply, because it has the largest flowers on a long stiff stem, with a perfect edge, healthy growth, and is free from rust. It will, with the proper care, flower better than Scott, and as a cut flower surpasses it in every way; but more especially as a good keeper. Scott has had its praise sounded by everyone and needs none of mine. It is likely to be a standard sort for some time, and the same applies to Daybreak. Emma Wecker made a sensation at our Cincinnati show on account of its fine stem, well-shaped flower and beautiful color. With me, this season, it has made excellent growth and is full of bloom. Victor introduced last season, gives promise of being a good one. It is a fuller flower and of stronger growth than Daybreak, from which it is a sport. In color it is a pale pink. Above all, it is a fine little thing, where quantity is wanted more than quality, and is a real good sort for Summer blooming. The Cottage Gardens had quite a show of the ones at the

Philadelphia show. Mrs. Thos. Lawson was shown very fine, also a salmon-pink by Joseph Heacock.

**SCARLET.**

In this class Jago leads all others on account of its good stem and brilliant color. It is a fine strong grower and good keeper. I have seen it, and has been that to get the best results, cuttings should be struck in January, and given to germinate with mist, and some even like the old Gardfield.

**YELLOW.**

Every one knows Buttercup, it is a large and healthy grower, and a hard one to grow for quantity, still it has many friends. Eldorado has both good growth and bloom. It is the only yellow I know of that really pays to grow, excepting Yellow Jacket, and no grower who afraid of rust will not want it, as I never saw a clean plant in my experience. Right here I might say that my experience with rust has been such, that if a variety is otherwise good, the fact of its having rust does not bother me. If care is used in the growing of carnations rust will never prove anything serious, and there is scarcely a place in the country that does not have some rust. I have visited a number and have tried to find one entirely free from it, and our country is so large that it is not all the time, this alone would be evidence that it is not such a serious matter. There are some varieties so good in every other way (excepting their having rust) that I have seen them, and I know Eldorado is one of them. Yellow Jacket is a new one with me, but has done remarkably well, and gives promise of keeping it hot. The flower is color of Buttercup, but not so large, the only variety I have seen that has so many blooms, and they are good enough for ordinary purposes. Major of France, an old variety, is a fine one, and gives promise of making a lot of bloom later in the season. I hope to tell more of this one later.

**CRIMSON.**

In this I have Jago and Anna Webb. Jago is not large, but is a good grower and has a long stiff stem. It is a good color and a good keeper. Anna Webb is an old variety but has some good points in the fact that it is a strong grower and free bloomer. Macco, exhibited by the Cottage Gardens, and Empress, of Wm. Swanwick, are both of good merit, and will probably take the place of all others in this class.

**CRIMSON.**

In this I have but two varieties. Helen Keller, which with me is always first, but in some places it is not so well, and Anna Webb, which will do well with every one, and is the greatest bloomer of any carnation I know of. The flower is of excellent shape, on a long stiff stem, and the plant is a strong grower, free from rust. In color it is not quite so bright as Keller, but it is a very pleasing shade. Mrs. Bradt, sent out by former last season, has caught the popular fancy, and is certainly a fine flower.

**CERISE OR RED.**

In this I have only one. Thomas Carthage is an excellent variety in every way, and the only one of this color that really pays to grow.

**SALMON, OR LIGHT PINK.**

In this color, my best of course, leads all others. I also have a few bella Fox, but it has not been much of a success with me. Mrs. McCrue sent out by Hill last season is doing well with me, and gives promise of being a good sort to grow. Later in the season I expect to visit a number of the growers and will see most of the new and old sorts growing, so that I can give a better idea of them at that time. ALBERT M. HERR.

**...BAKER'S...**

**NEW PATENT CARNATIONS**

Grown and Tested Five Years.

**ONEIDA** pure pink, no trace of purple, rust proof, perfectly healthy, strong grower, continuous producer, blooms of large size.

**RED JACKET** bright red, of largest size, healthy, no rust, continuous producer, long stems, never bursting color.

**\$1.00 Per Hundred.**

Orders booked now to be shipped in rotation as they come.

**CHAS. F. BAKER, Utica, N. Y.**  
When Writing Mention Florists' Exchange

**THERE WE ARE AGAIN!**

**Rooted Carnation Cuttings**

For Summer Flowering. Ready for immediate delivery.

**FREE OF RUST.**

Minnie Cook, Eldorado, Eualla, Kity Clover,..... \$2.00 per 100  
Alaska, Wm. Scott, Fortia,..... 1 00  
Princess Bonnie..... 4 00

Cash with order.

**GRALLERT & CO.,**  
Carnation Growers

**COLMA, CALIFORNIA - SAN MATEO CO., CAL.**  
When Writing Mention Florists' Exchange

**H. WEBER & SONS,**  
**CARNATIONS**  
OAKLAND, MARYLAND.

When Writing Mention Florists' Exchange

**CARNATIONS**  
Double and Single Violets, Swainsona, Myosotis for forcing, Giant Sweet Alyssum.

All ready January 1.  
**JOSEPH RENARD, Unionville, Chester Pa.**  
When Writing Mention Florists' Exchange

**CARNATIONS...**  
...F. DORNER & SONS CO.  
La Fayette, Indiana.

When Writing Mention Florists' Exchange

**1898...ELIZABETH SKINNER...898**  
**CARNATION.**

Am booking orders for above, which is a beautiful light scarlet; fragrant, perpetual bloomer; strong grower, fine stem; never bursts the calyx and warranted free from any disease. If you want 3 inch flowers try a few.

**GEORGE SMITH - Manchester, Vt.**  
When Writing Mention Florists' Exchange

**FIRELY A RUST PROOF CARNATION.**

Bright scarlet and **Positively Rust Proof.** It is a prolific as Scott, of good size and form, and its keeping qualities are unsurpassed. We have tested it four years. Our stock also includes all the novelties of '97 and '98. Send for prices.

**GEO. HANCOCK & SON, Grand Haven, Mich.**  
When Writing Mention Florists' Exchange

**HARRISON'S WHITE.**

**NEW CARNATION,**  
Sport From Wm. Scott.  
ALL LEADING CARNATIONISTS ARE PURCHASERS.

**STRONG, VIGOROUS FLOWER,**  
REQUIRING NO SUPPORT.  
Described and Illustrated in Florists Exchange, Nov. 21, 1896, page 1044.

**ROOTED CUTTINGS.**  
Price: \$5 per 100; \$70 per 500;  
\$40 per 1000.

Cash or Satisfactory Reference.  
All orders filled in relation.

**JOHN HARRISON,**  
Near Edgewood,  
739 Bergen Ave., Ave. Circleville,  
JERSEY CITY, N. J.

Take Mayonnaise from Jerseyville  
from Penna. from Ill. from  
Werry, of all other Wildcat's.

When Writing Mention Florists' Exchange

**FLORA HILL.**

The finest white carnation ever offered. Great length now for Jan. delivery. \$5.00 per 100; \$40.00 per 1000.  
G. M. Bradt, White Cloud, Good Wagon, and all the standard varieties.  
H. F. LITTLEFIELD, Worcester, Mass.  
When Writing Mention Florists' Exchange

**NEW CARNATION ARGYLE**

Metowan X Tidal Wave, grown and raised four years. One of a lovely cascade of carmine-pink a strong, free and continuous bloomer; flowers 3 1/2 to inches, perfect color. Ready March 1st. Price, per doz., \$1.00; per 100 \$10.00; per 1000, \$75.00.  
Wagon, and all the standard varieties.  
**STOLLER BROS., Chicago, Ill.**  
Cash with order or satisfactory reference.

When Writing Mention Florists' Exchange

**EDW. J. TAYLOR**  
**Wholesale Carnations**

SOUTHPORT, CONN.

When Writing Mention Florists' Exchange

**EXPERIENCES**  
...WITH...  
**CARNATIONS**

READY NOW.

Send me your address on a postal card and receive them regularly during the season.

**ALBERT M. HERR, Lancaster, Pa.**

When Writing Mention Florists' Exchange

## Galax Leaves.

CHAS. H. RICKSECKER, Livinle, N. C.

When Writing Mention Florists' Exchange

## Last Call Before Xmas.

For plants offered by me in Florists' Exchange of December 1, page 1023 (extra), I get 1 cent in aid of Orange with more than 20 fruits, those are sold for \$1.50 per yard; light green, extra fine, \$2.00 per yard; bushy ones, 35 cents each; \$2.50 per doz.

M. STUDER, - Anacostia, D. C.  
When Writing Mention Florists' Exchange

## BEST DELEWARE HOLLY.

It cubic feet to mass, \$5.50.  
**Holly Wreaths**, 12 inches, \$1.00 per 100.  
**Laural Wreathing**, extra heavy, well trim, \$1.00 per 100 yards; \$2.00 per 1000.  
**Lycopodium Wreathing**, dark green, \$1.50 per 100 yards; light green, extra fine, \$2.00 per 100 yards. Cash with order.  
**Cut Wreathings** for Xmas, \$7.50 per 100.  
**P. WYMONS, - Lebanon, Pa.**  
When Writing Mention Florists' Exchange

**Hardy Cut Ferns**

\$1.00 per 100. Cash with order.  
**10 BIRCH ROSES**, 12 inch, 100 per doz.  
**10 BIRCH ROSES**, 12 inch, 100 per doz.  
**10 SPANISH MOSS**, 12 inch, 100 per doz.  
All orders by mail or direct promptly attended to.  
**THOMAS COLLINS,**  
Hinsdale, Mass.

When Writing Mention Florists' Exchange

## 50 LANTANA BORBONICA.

First-class 6 inch stock, with 5 to 10 leaves, clean and vigorous, at \$1.00 each.

300 **OPATHE ORANGES**, 5 inch pots, with 100 to 150 flowers each.

300 **SALICINELLA EMILIANA**, fine bushy plants, 2 1/2 inch, at \$2.25 per 100, to close out.

10 **NEPHROLEPIS DAVALLOIDES**, and 10 inch pots \$1.00 each.

10 **NEPHROLEPIS DAVALLOIDES**, and 10 inch pots were planted out last Summer. 100 stock at \$1.00 each.

10 **NEPHROLEPIS DAVALLOIDES**, 10 inch pots, the stock to work on, at \$1.00 each.

10 **Extra Good ADIANTUM CUNEATUM**, 6 inch pots, at 30 cents. Worth the extra cost. Nephrolepis Bostonica out. Advertis all extra. Careful and Experienced Pickers.

Telephone  
**R. G. HANFORD, Norwalk, Conn.**

When Writing Mention Florists' Exchange

## THE BEST MISTLETOE GALAX LEAVES

at reasonable prices.

## HERMANN'S SEED STORE.

A. GÖFFERT, Proprietor.

413 E. 34th St., Opp Florida Exchange, NEW YORK.

When Writing Mention Florists' Exchange

Addressing and Mailing for Catalogue Men.

Our painstaking system of keeping a record of all persons engaged in floriculture has resulted in giving us a list of over 10,000 names of commercial florists, nurserymen and seedsmen, which we have every reason to consider the most reliable and correct of all lists. These names we are prepared to address at a moderate figure, and invite your patronage. An unreliable list, even if the first cost is cheap, is unsatisfactory and a poor investment at any price.

We have also many thousand addresses suitable for retail catalogues; people interested in floriculture and gardening generally. Will be pleased to furnish prices and full particulars on request.

A. T. DE LA MARE PTG. and PUB. Co. Ltd.

P. O. Box 1607, New York.

## American Carnation Society.

The premium list is now ready and can be had by applying to the secretary, Albert M. Herr, Lancaster, Pa. There is a liberal amount of money offered and one or more prizes will be given to the best show them in Chicago next February.

## The Hamburg Exposition.

The Hamburg Exposition was a great financial success, there having been a surplus of 375,000 marks (\$86,000), after paying 200,000 marks in premiums which sum does not include special. The total amount disbursed for all premiums was over a quarter of a million marks.

## New Brunswick, N. J.

The greenhouse of W. H. Maller, at Baritan Landing, was destroyed by fire Thursday. Many valued and costly plants were damaged. The loss will amount to several thousand dollars.

## St. Paul.

The Christmas Outlook.

Just at this time ago prospects for a good crop of flowers for Christmas were very encouraging. The dark weather of the past week, however, has been disappointing to the growers, and unless the weather should improve at once there will be the same scarcity of blooms for the holidays. Trade has been good, Thanksgiving Day trade was unusually brisk.

Everything sells well, there being an increased demand this year for violets and pansies. Stock is of good quality. Quite a good many flowers are being shipped in from Milwaukee and Chicago, notwithstanding the increased cost from our own growers.

Chrysanthemums are about all gone—Swanson is still in good ones and a few of the other growers are holding back some of their stock for Christmas. There was here a good sale for chrysanthemums this season, the growers, as a rule, do not consider them as a profitable article.

Holly and leycopodium are used quite extensively for decorating. The latter is much cheaper this year than ever before, the green pickers having had an exceptionally good year for gathering. Christmas trees are also very popular, and are disposed of by hundreds throughout the city. This trade is not handled at all by the florists.

J. Holtom has started up a small store on Mackubin street.

Chris. Hansen offers his range of houses for sale, on account of ill health and inability to personally superintend the management.

Wm. Schiffman recently returned from the East bringing with him another large collection of orchids, principally new to the florists of this city. He is from Yucatan and other Central American states. This winter in search of new specimens he expects to start the first of next month.

Retail prices are stiffening as the dark weather continues. The florists and the regular florist stores are advertising roses at 25 and 50 cents per dozen. VERITAS.

## Philadelphia.

Market Outlook.

The cut flower market is almost in a complete standstill, as is usual the week preceding the holidays. First-class roses are scarce, but there is an abundance of all other classes. Carnations are tight and cannot be moved at any fair prices.

The retail stores appear to be doing better than in the past, much stock has all kinds around. Violets have sold better than anything else the past week; there has been a large amount of orders to supply the demand, which the "coming out" teas and receptions increased. There has been a large amount of orders for decorations this season. Hugh Graham and J. J. Halberm's Sons have been very successful this season. They had been decorating work for dinners and receptions which have been numerous. "Sunnoch Bros. are doing a good business in choice plants; they have kept a few fine specimens in their window which have proved a good advertisement.

Joseph Heacock four years ago took a notion to grow palms, seeing that others were making quite a successful business out of this industry. He has since been rewarded, as he certainly has been very successful, and now has a very large lot of plants. His stock of 10-12 inch pots are a splendid lot, well furnished and hardy and certain to give satisfaction. He has also certain to sell these plants, as the foliage is broad and fine in growth, and has a good healthy color, which is a great recommendation for good trading. In other stock he is growing kentias and latanias, also some iboras.

Robert Craig is improving; the fever is abating and he is getting along nicely. He has been in bed for some time.

Chas. D. Ball has suffered a bad defeat in the death of his son William D. Ball, which occurred on Tuesday last, December 14. The sympathy of the craft is extended to the sorrowing widow.

Trade Items

Small & Sons had all the work they could attend to in the beginning of the week, but as the prices of plants were forwarded to Canton. Some of the wreaths were as fine as any ever seen in this city, and were made in a factory, was composed of catclays and A. Farleye; another of green orchids and admantium, other were of red and valley; valley and Meteor roses; and bellas and valley.

Numerous pieces were ordered sent to the residence of the late Gardiner Hubbard.

A basket of orchids was sent to one of the society belles on making her debut last week which is said to have reached the top mark so far as the prices of baskets of flowers are concerned. It was seven feet in height. The flowers were mostly of the variety sprays Vandykerules, 75 Calanthe Veitchi, 75 (Siam) the vestita igneo-oculata, 150 cypripedium, 200 cypripedium, 100 Schifferiana, 75 sprays Decandrobium formosum giganteum, and 25 spikes oncidium.

After chrysanthemums were ordered sent to the residence of the late Gardiner Hubbard.

The problem of utilizing space occupied by chrysanthemum sections was a fair way to be solved by Robert Miller who, this fall, has filled up several houses with carnations and roses during the summer in boxes with moveable sides and ends, using the bottoms for the use of the plants. After the carnations and roses had been thrown out, the carnations looked as if they had been grown in the same boxes during the daily cuts. The roses, of course, when removed were dormant, but in elegant condition for starting in other boxes. It seems a good one for use where chrysanthemums are grown on a large scale.

John Boyle has several houses of tomatoes which are bearing quite a large crop of fruit fast nearing the ripening stage. He has been experimenting with a house covered with sweet peas, and having them in bloom by Christmas. He won't succeed this year, but he has

learned something which he will benefit by later on.

Chrysanthemums are nearly over. Garden roses have yet about two thousand. W. S. Clark has just finished cutting his roses, and has a large stock of sweet alyssum and some of the varieties of Phlox subulata are still in bloom out-of-doors.

G. W. OLIVER.

Buffalo:

Trade is sluggish.

The cut flower trade is more sluggish than active. Several "coming out" teas and receptions have been given, goodly decorations and numerous tokens in nice roses, etc., were called for, helped matters. Carnations are tight. However, this week flowers are neither scarce nor plentiful, all ordinary orders being supplied readily. A liberal share of attention is now given to preparing for "Christmas greens." Ground pine has come in of good quality and at moderate prices.

Early holly orders in bulk are being supplied readily, but indications are that orders will not be so large as they were to the extent of last year, and to the loss of shippers.

The weather is still warm and divided nearly even between rainy days and pleasant ones, but sometime lacking largely the latter.

Stollery Bros. of Chicago, sent in some samples of their new variety, Argyre, which is a new variety of a well-built form in a Tidal Wave shade.

T. A. Webb, of Ohio, showed a bunch of his new red, which looks favorable. Though not the earliest hereabouts, it is a new variety, the blooms of the new white Geneeise sent by Harmon & Burr, of Darien, give every promise of success as an acquisition as a commercial sort.

Recent visitors included the travelers, George C. Kelley, of New York, and H. Pease, of Lockport, N. Y.

Providence.

Business has shown a retrograde movement the past week, both as concerns carnations and roses, and is entirely to the unseasonable weather.

There is only one consoling aspect, that such a low weather has resulted in considerable sickness and a consequent increase in the demand for funeral work. There is a larger demand for funeral work.

The Weather.

The weather is so mild that some of the lawns in this vicinity are almost as green as in midsummer. Dandelions and peonies are blooming and caterpillars have been found crawling about. Fruit trees are dozing in a second crop of blossoms and strawberry vines are furnishing a second crop of luscious fruit. Fruit trees are dozing in a second crop of blossoms and strawberry vines are furnishing a second crop of luscious fruit.

George C. Kelley furnished the potted plants and cut flowers for the golden wedding of Mr. and Mrs. Frank H. Hathaway on Thursday evening.

Johnston Bros. have got settled in their new store, 225 Westminster street, near the corner of Warren, building a large greenhouse on his farm on Alkemon avenue for the raising of flowers and plants.

H. Williams has just put in another lot of plants. O. W. Warren, is building his heating apparatus from steam to hot water, though he is preparing to build a new one. Ernest Fairbrother has entered the mushroom business on Smith Hill, where he has a fine mushroom bed.

A. M. Reine, George Johnston and William Butcher, who have been on the ground, are all able to be out and about their business.

J. Austin Shaw, with Stebbell & Son, New York, and Geo. H. Warren, building H. J. Haverdick & Co., Philadelphia, and W. Rolker, of New York, were visitors the past week.

W. H. MARON.

He Paid Well for Them.

Caroline—How do you know Jack Jones won?  
Caroline—I took his roses around to the florist and found out how much they cost.—Worled.

## THE MEN WE MEET.

No. 4.—WILLIAM H. ELLIOTT.

The late lamented Phineas T. Barnum used to tell with pride of the safe delivery of a letter to the Hon. Zolman, addressed simply to Mr. Barnum, America. An almost parallel case recently occurred in the receipt, by the party interested, of a letter from New York State to a florist in the person of William H. Elliott, at Asparagus P. Nans, Brighton, Boston, Mass. So closely associated has the name of William H. Elliott become with his most famous product that the above title is perhaps not surprising.

William H. Elliott is a good example of what thrift, integrity, and close application to business will result in. His business, extending all over the extensive range of houses at Brighton, enclosing 50,000 feet of glass and a well-kept nursery, is doing well all over the United States and Canada. Mr. Elliott can be claimed as a New England product only so far as his bringing up is concerned, having been born in Lancaster, Wisconsin, in 1857, and is consequently yet on the sunny side of forty years of age. His father died when the subject of this article was but six years of age, and a year later, with his mother, Mr. Elliott came East and settled in New York City. When his childhood days were passed until at the age of thirteen he entered the employ of John Spaulding, an old-time Scotchman of the strictly forward business school, who carried on a general retail trade, covering all lines, including bedding plants, cut flowers, with more or less nursery and landscape work. It was under the tutelage of Mr. Spaulding that the business character of Mr. Elliott was formed, a preparation for a successful life for which he has ever been most thankful to his worthy instructor. It was a matter of chance that time led to the profession in which he has grown to be so successful. His mother moved into a house which he had purchased, and the mother being in need of a boy, gave the lad the first opportunity on learning his desire to work in the nursery. Mr. Elliott's school days and he went to work for \$3 per week. So well were his educational attainments that he received his pay day he received \$4, and on the third \$5. At the approach of Winter, instead of being discharged, he was retained through the dull months at \$3 per week, and after that his progress was continued until at the age of 21 Mr. Elliott began to look for a broader field for his ability and energy, and after visiting New York City and New England, he returned to Boston and entered the employ of William C. Strong at the houses which he has since purchased and very greatly improved. He remained here but a short time and then took charge of a private place in Foxbury for a year, after which he was employed on the B. P. Cheney estate at Wellesley.

These two short engagements convinced Mr. Elliott that he was not destined for a private career, and he then entered the employ of E. M. Wood & Co. at the Waban Conservatories at Mattapan. In the month of January, 1881, Mr. Montgomery was established there as manager. To his experience of three years at Waban, and to the fact that E. M. Wood and Alex. Montgomery, Mr. Elliott feels that he owes much in the rounding out of his character. Mr. Elliott has been his opinion, not infrequently expressed, that his most success in his life is due to John P. Montgomery. Mr. Elliott, the latter former having made a man of him in seven years and the latter a gardener of him.

At Waban he took charge of the shipping in addition to superintending some of the business of the establishment, and his famous establishment were varied, including carnations, violets, pansies, and a large number of other varieties. In addition to the roses which are now, and have been for a number of years, the principal product of the establishment. The entire output was shipped to New York City, and the roses were kept, but which was soon after closed and their crops marketed in Boston. It was here that Mr. Elliott, in charge of their disposition, this being his first experience with the box, with a large number of roses to handle, and the trade to establish. The conditions were unpromising. It being about Christmas time, the roses were not in the best condition for the long-stemmed roses, the Cornelia Cook, and they found a ready market in this period. At that time there was no grading, a rose was a rose

and seconds, thirds, and ordinaries were unheard of. In addition to Cook, Marchal Niel and Gen. Jacqueminot were their specialties, and Mr. Elliott's success as a salesman was no less than had followed him in the other branches of the trade. It was at this time, in the Winter of 1881-'82, that the Waban Conservatories offered the first C. Mermut shown to the Boston Market. The following season, soon after January 1, Mr. W. F. Malloy succeeded to the position of Boston salesman, which he has creditably filled ever since, and Mr. Elliott went to New York and Philadelphia, handling Mack and M. Niel for the same concern, they having dropped, by this time, most other lines of cut flowers.

The first of October, 1883, found Mr. Elliott in charge of the J. H. Hoston place at Grove Hall, where he stayed for seven months. He grew roses for the market receiving, on contract, 25 cents each, for four months of the season, and about half that price for the other four months, for every rose that was cut, the

then, formed the nucleus of his fortune, and from this small stock in which he recognized sterling worth has come much of his success of today. This specialty he supplied to the Boston market only until the convention of the S. A. F. in New York in 1888, where he exhibited it, his first outside order coming from A. S. Swanson, of St. Paul, Minn. His trade from that date spread rapidly throughout the country.

Mr. Elliott, as has already been stated, is still a young man, though his careful training and extensive business experience, give one the impression when in conversation, that he is more advanced in years. He is essentially a self-made man, and to his foresight, exactness of detail, executive ability and integrity may be attributed his success, which is far in excess of the average man's who may have been surrounded with what are generally considered early advantages.

Mr. Elliott is married and is encircled by a loving wife and a beautiful family



William H. Elliott.

of children, his home life being an exemplary one, his dwelling adjoining his Brighton conservatories. W. K. W.

In speaking of these old-time prices, he says that it seems incomprehensible how we can produce roses at the market price of later days and continue to do the business.

In the spring of 1884 Mr. Elliott bought the Strong greenhouses which he has managed successfully and constantly added to, until he possesses one of the best ranges in this section today. Here he makes a specialty of asparagus, with a special excess in the production of which he is being sufficient to supply his trade. Some four years ago, leased the Shaw greenhouses in Newtonville where he has some 35,000 feet of glass devoted almost exclusively to roses.

His name is most familiar throughout the country in connection with Asparagus plumosus nanus, a history of his industry in this line was printed in the FLORISTS' EXCHANGE last year. Prichy it may be stated that less than a dozen plants, which were found through one side in the greenhouses when he bought

questions submitted in writing by letter.

Two or three of the gentlemen named as directors have not yet completed their application for the franchise and have made no formal application. Unless they do so, it will be necessary to call a special meeting of the directors, who will also notice that two places are left to be filled from lack of good names in other lines.

Any person in the business will be supplied with a blank application for insurance on request. W. J. VASEY.

## ROSES.

## Hybrids.

Those who habitually grow pot-herbids for Easter and later Spring sales, and who have not yet potted the plants, should do so as soon as possible. It is now time away in cold frames until it is time to bring the plants in, and to lightly cover the pots with material, such as leaves, spent hops, or old straw manure, to keep the soil in an even moist condition, with some ashes for the pots to stand upon and to keep the worms out. Plants wanted for Easter are put in separate frames, as they will have to be brought in sooner than those required for late Spring use. The frames should be covered sufficiently to keep out the frost.

Of course, where any one has a greenhouse at his disposal, it can be used to advantage for this purpose, but with many inside space is at a premium, especially just before the season.

14-to-date men read through their trade journals what an acquisition the Crimson Rambler has become in the Easter plant trade last year, and those who had the pleasure of seeing some plants of it in the hands of the growers, were sure in the future for the same occasion. The plant is a most prolific bloomer, and for making a show can hardly be excelled. A great point in its favor, and which helps its ready sale at a good price, is that it perfectly hardy. It is only differences in the culture of it from that of other hybrids is that the plants should not be cut back so hard, but only to a distance from 18 to 30 inches in length, according to their strength and ripeness.

Another rose of great merit is Margaret Dickson. This variety has a very peculiar habit, in that from one year-old plant it will produce a crop of flowers trimmed to a half-stemmed, making it a very striking and fine plant and out of the common, and, works on the market this year, will the first year, make a perfectly straight, single stem, to a height of from 18 to 30 inches, acquiring a diameter of one-half to three-quarters of an inch; the bottom of the pot before the plants are formed at the top. When these are pruned to within 4 or 5 or three eyes the self-standing habit of the variety is a charming, large white rose with a sleek-pink center.

By the first of April is in the hands of your readers it will be about sixteen weeks to Easter. Remember that it generally takes from 12 to 13 weeks to get the hybrids in bloom nicely for that occasion. I have given their culture in previous articles, but will give a complete list of the most important items for their future success. For very firm in well-drained soil, but in selecting for the purpose only strong, healthy plants. Water thoroughly, so that the water reaches the bottom of the pot before placing plants in their cold quarters, and start them cool when first brought into the open air, and gradually raising the temperature two or three degrees each week, until you are able to get the plants to bloom, or two or three times every day to make them break well; at the same time water the plants completely at the bottom of the roots. If more breaks show than what you think the plant can carry through, stop watering for a few days, and rub them off. This will throw much more strength into those remaining buds, and will be completely satisfied with liquid manure, but don't use it so thick that it forms a paste over the top of the plants, or that they are injured with red spider or green fly. Prevention is better than cure. Keep the plants in a cool, airy place, out of the room, and turning them around half way once a week. When given good pot water, they will be ready to start in a few days, and be attacked with mildew. H. H.

## Florists' Fire Insurance.

On Monday, December 13, at the adjourned meeting of the Florists' Fire Association the following persons were elected directors: E. H. Michel, St. Louis, Mo.; J. Vaughan, Chicago, Ill.; Elmer D. Smith, Adrian, Mich.; Wm. Scott, Buffalo, N. Y.; John G. Ester, Saddle River, N. J.; W. A. Patton, Tewksbury, Mass.; E. A. Sedewitz, W. M. F. Minneapolis, Minn.; J. J. Benham, Bangor, Me.; W. J. Vasey, Fort Wayne, Ind. W. J. Vasey was elected secretary.

The by-laws as printed were adopted with immaterial changes and with some formal additions, the principal of which are:

- (1) Requiring the directors to fill all vacancies occurring during the year.
- (2) Permitting all directors to vote on

### The Competition for Gold Medal of N. Y. Florists' Club.

The following rules and regulations governing the competition for the Club's gold medal were submitted by the committee, and adopted at the meeting held Monday evening, December 13, 1897.

The exhibition to take place at every meeting of the Club during the year 1898.

Intending exhibitors should notify the Secretary at least one week before each meeting, of their intending exhibits, stating classes in which they wish to exhibit; also, approximate amount of square feet required.

The limit of the space for the exhibits to be as follows, except by special permit, when an exhibitor intends to make an extraordinary exhibit: Cut flowers, 20 square feet; pot plants, 35 square

#### POT PLANTS.

Size, 10; cultural perfection, 30; foliage, 15; effectiveness, 15; rarity, 10; desirability for general culture, 25; total, 100.

#### COLLECTIONS.

Number of kinds, 25; rarity, 25; cultural perfection, 15; correctness of nomenclature, 15; desirability for general culture, 20; total, 100.

#### DECORATIVE AND MADE-UP WORK.

Novelty in design, 15; artistic arrangement, 45; harmony in color, 30; quality of material, 10; total, 100.

#### FRUITS AND VEGETABLES.

Quality, 50; size, 20; color or finish, 20; other points, 10; total, 100.



House of Cyclamen Grown by H. Trauth, Brooklyn, N. Y.

feet; collections, 50 square feet; decorative and made-up work, 20 square feet; manufactured articles, 25 square feet.

All the exhibits are to be staged and in position by 6 o'clock on the evenings of the meetings of the Club.

All these exhibits are to be properly labeled.

The exhibitors should hand an entry, a correct list of their exhibits to the Secretary, who will give them a number, by which alone said exhibits should be known until after the awards have been made and announced by the Secretary.

The judges are to finish the judging of the exhibits before the opening of the meeting, during which time no one should be allowed in the room except the judges.

The decision of the judges should be read by the Secretary during the meeting, giving in detail the points scored, and any exhibitor having any protest to make against the judges, same should be made before the close of the meeting, and the chair be empowered either to affirm or change the decision of the judges.

A committee consisting of six members should be appointed by the chair, selecting one expert in each of the different six classes.

### The Schedule to be Divided into Six Classes.

#### CUT FLOWERS.

Size, 10; form, 20; substance, 20; color, 20; stem, 10; foliage, 10; rarity, 5; fragrance or other quality, 5; total, 100.

## CORRESPONDENCE.

Insertion will be given in this column to all communications from our readers, but the opinions expressed do not necessarily reflect our own.

### Chrysanthemum Shows, Season of 1897.

Editor Florists' Exchange.

Your article on this heading in your issue of the 11th inst. reopens the question of "How to make a flower show successful." You give explanations of several causes of why they are not successful, but I fail to see any attempt at

solved by time, patience, perseverance, and conducted in a manner among ourselves "as to the outcome and the lessons to be learned" from past experience in America. We are in England, where the shows are comparatively well conducted. We are comparatively speaking, just beginning on this continent; they are well on their feet here. We are not to blame for them in time. I don't doubt but what we shall; but until the conditions are equal there is not much to be learned from that quarter. We have to go plodding along step by step, taking the knowledge as we go and profiting by experience gained. Let us not on any account get up a measure of half a dozen. Surely we Anglo-Saxons and Americans are not built that way. I don't think we should examine into the motives of an exhibitor, whether it is the cash prize, the glory, or anything else. We cannot afford to do it yet, but we want to get up our prize lists so that there will be inducements for exhibitors to bring out what will please the public and gradually educate it up to better things. The responsibility for shows that are failures on or retrogressions from our predecessors lies for the most part with the exhibitors, the committee that gets up the prize list. The majority of florists exhibit at shows for what they get out of them, the prizes or through the advertising obtained very few, as far as I have seen being able to pay their expenses, the prizes taken, and more credit than is usually given is due to those for helping the shows along at a loss to themselves. One can hardly blame the trade for not growing what the public will not buy and does not seem to care for. It is up to the exhibitor and the public taste up to a higher standard, the operation is going to cost some money to the promoters of the shows, which endeavors to do so. To botanists and true lovers of horticulture every flower under the sun is interesting and wonderful, but when you come down to the general public, including all classes, and are getting up a show which may be a financial success and a means of education at the same time, difficulties are encountered which, as said before, nothing but time, patience and perseverance can overcome.

You say: "A flower show to be at its best must be a flower show and not a show of the decorator's art." Why not both? What do you mean by a flower show? Is it not to decorate their houses, their halls, their churches, themselves, etc., etc.? Surely you would not have us turn to the military style again, in which all the exhibits are set around the hall and on the tables like regiments of soldiers with nothing to relieve the monotony. Should we not rather, when we have all the best flowers and plants in the neighborhood and often from afar, gathered together, should we not endeavor to show how these flowers and plants can be arranged to best advantage from an artistic point of view, educating the people (the people it all) in the flower show.

We also complain of the paucity of varieties staged, but what is the use of growing a lot of varieties which have little to recommend them, and which we think the best, adding improvements every year and discarding the old ones, which as said before, there are too many varieties, of great size and fine form, the color of which is good, which as said before, is of good effect to the fancier as a variety; the general public would never deprecate them, but to have them staged, I admit there are some very beautiful varieties such as the anemones, the pom-poms, etc. I think they should be staged more; but private gardeners should keep on growing and exhibiting the best, and the public should be educated by them; it costs them nothing for space.

We have to begin again and repair the "bust" into the bargain. Other things we have to remember are that the millennium is not here yet; that "the best laid plans of men and mice go for naught"; that there is a good deal of scope for the play of human nature in the marketing of these shows; and that we are none of us angels, our wings not even having begun to beat yet, and in considering remedies for past mistakes we must take all these drawbacks into consideration.

And I must say that I am rather glad that you do not attempt to solve a problem which, in my opinion, can only be

#### MANUFACTURED ARTICLES.

Utility, 30; durability, 20; simplicity, 25; cheapness, 25; total, 100.

Articles to be excluded by the committee: (Signed.)

W. A. MANDA ALEX. S. BURNS  
WM. I. BROWER J. H. TROY.

On motion of Mr. May, a paragraph excluding all "manufactured plants," from competition was added.

Considerable discussion occurred on the feasibility of including "manufactured articles," particularly boilers. It being urged that it was impossible to form any adequate or correct opinion as to their practicability or durability from a cursory or minute inspection, such requiring a practical test before determination. Cases were cited where at the S. A. F. conventions, boiler competitions and awards for alleged merit in that class had been the cause of much jealousy and unfavorable comment. It was explained that the intention of the committee was to cover the whole field, so that no branch of the trade should be overlooked in the Club's competition, and after Mr. May had facetiously remarked that this boiler question, as usual, was sure to land them in "hot water," and pointed out the remote chance of such exhibition ever entering into this contest, the committee's report was adopted as read, with the addition mentioned above.

solution of the question. Last year "still life" was the *bête noir*, this year the "commercial tone" appears to be making all the trouble and that our flower shows are "simply a display of the actual market attainments of the time." Well, I think you are much nearer to the true cause than we all keep first year, and I think that if we all keep firing away some of us are bound to make a bull's-eye at last, although I am inclined to believe that it will take longer than most people think. Let us first get rid of the idea that the public has to be roused to a fever heat of excitement; that has been one of the great mistakes of the past, and we are now, probably, to great extent, suffering from the reaction. As I said last year, fever heat excitations cannot be kept up, something has got to "bust," and when that happens we are worse off than we were before. We have to begin again and repair the "bust" into the bargain. Other things we have to remember are that the millennium is not here yet; that "the best laid plans of men and mice go for naught"; that there is a good deal of scope for the play of human nature in the marketing of these shows; and that we are none of us angels, our wings not even having begun to beat yet, and in considering remedies for past mistakes we must take all these drawbacks into consideration.

And I must say that I am rather glad that you do not attempt to solve a problem which, in my opinion, can only be

might write a great deal more on this subject, but I am afraid I have already written too much. I hope you will be able to see a good discussion every year on the question.

A. H. EWING, Toronto,

### American Carnation Society.

Editor Florist's Exchange.

In your report of the Chester County Carnation Society's meeting, it is stated that the subject for discussion at the next meeting will be "Is the American Carnation Society of any use under the sun?" My opinion is in support of the negative. This has been done in my absence, and wholly without my consent. I do not believe that I do not wish to take any such hostile attitude.

The prohibitions we have had scattered over the country in the last few years have had a very injurious effect, and it is probable without the American Carnation Society. The standard has been raised, and the carnations are being during that time. I recall but two things which appear to me to be mistakes. I do not believe that a tax of \$2 for registration is calculated to "encourage" the growing of seedlings. A premium on such new varieties as has an examination by a committee of the American Carnation Society would be far more "encouraging."

The proposal to distribute stock of the new variety among several growers for the purpose, I think, wholly impracticable and few growers are likely to submit to it. Here again, I believe, a visit would be more successful.

EDWARD SWAYNE, Wauwaset, Pa.

### A White Asparagus Sprengerii.

Editor Florist's Exchange.

Among a lot of seedlings raised by us we have obtained a beautiful variegated form of this valuable plant. The minute leaves are almost pure white, showing merely a line of green, enough to warrant its growth. It produces a striking contrast with the normal green form. We think it will make a fine plant if it grows as vigorously as the type.

A. BLANC.

### Orchid Flowers for Christmas.

There is no season of the year when orchid flowers are more in demand than at Christmas, and no wilder-wake florist can afford to be without them, if obtainable. Their chaste and beautiful colors have placed them almost at the head of the list as decorative flowers. They adapt themselves to all purposes when the best of work is required; hence, their use for the season of their sale is steadily increasing and to meet this demand the growers are taxed to their utmost to know exactly what to grow, just out of the hundreds of species and varieties of orchids, beautiful as they all are, there are many that cannot be grown profitably.

Among the different orchids mostly grown and upon which we can rely for a supply of flowers for Christmas is the Cattleya Trianae. Without doubt it is the finest of all the cattleyas, and is preferred at this season of the year. Its inexhaustible range of variations in colors from the chaste white to dark pink, is sufficient to satisfy the most critical taste. This orchid being of easy culture and obtainable at reasonable prices has brought it within the reach of all who desire to produce flowers at this particular season.

Cattleya Perseivaliana is another most beautiful Christmas cattleya, but which is not so easy to rear without much neglect on account of the introduction of Cattleya Inghamii, which has much larger flowers than the preceding kind, and owing to its flowering season being the Autumn months cannot be relied upon for just right and full up the possible gap between the two.

Cattleya maxima, in its native country called Flor de Navidad, is one of the most beautiful flowering species of the true Christmas cattleya. It produces on a spike five to ten magnificent flowers of a bright rose richly variegated on the lip, and should make a decided acquisition.

Cattleya anceps is another very useful Christmas flower; its rosy lilac blossoms on long graceful stems render it adapt-

able to a multitude of decorations. Unfortunately, it will not stand as well as some others; but this drawback may be overcome to a certain extent by covering the entire stems in water for a few hours after being cut.

There are two kinds of the preceding (*Laelia anceps alba*) is a most beautiful flower and, strange enough, stands much better than the common kind. Unfortunately, it is rather shy; and in order to induce it to flower more freely it must be potted where it obtains abundance of air and sun.

*Laelia albida* is another welcome addition to the list. Its white sweet-scented flowers are borne on long stems and are well adapted for floral decorations. It is of easy culture and will repay the grower for his trouble. *Laelia autumnalis*, with its long sprays of showy rosy purple flowers, produced from six to eight on the spike, deserves more attention.

*Cypripedium insigne* and its varieties have come to stay, and are well known by the average grower for its so-called upon their merits as valuable flowers at this time of the year.

*Odontoglossum crispum* is one of the

### Christmas Plants.

Lily of the valley is selling now at \$1 per dozen; it will be higher at Christmas time. Half a dozen fat tips in a 6-inch pan among a few small tips put in for forcing, are rather interesting looking on the surface of the soil in the pans a few finished buds of *Lycopodium Kraussiana* or denticulatum, growing, give them a most finished look. White Roman hyacinths may be treated the same way, or when putting the bulbs in the pans leave about an inch of space between the soil and the rims so that when the bulbs have made roots enough to take them into heat, a growing pan of any of the dwarf mossy lycopodiums can be knocked out and the plant, with a little of the soil attached, can be slipped down over the tips of the hyacinth bulbs.

A plant which does not last in a dwelling house as long as could be wished, but which is sure to be admired while it does last, is the little *Caladium argyritum*. Strong bulbs are dried off early in the Fall and at the end of the season are started in moss or sand and transferred to the middle of a pan of lycopodium.

Daphne odora and its forms would make a good plant for this season of the year, if they could be had well furnished with buds at a reasonable price. It is not generally known that this plant is quite hardy in fully exposed positions in the vicinity, so that there should be no difficulty for Southern nurserymen to introduce it. Cyclamens, Chinese primroses and *Franula oleacea grandiflora* are all old timers. *Franula floribunda*, now that we have an improved form of it, should also find a place.

Among the plants with ornamental fruit the new *Asparagus Sprengerii* sometimes bears a crop plentiful enough to render it doubly attractive; they are not to be depended upon, however, for changes of temperature affect them enough to cause the berries to drop. *Fraxinea cyclanota* is probably the best all-around Christmas plant which bears berries, but we see little of it. I suppose the reason that it does not merit the first year—too slow to get up. Plants from seed, if they get fair treatment, will fruit the second year, but florist need fear to recommend it to his customers, because it is a frequent occur-

Horizontal Building, Trans-Mississippi and International Exposition, Omaha, Neb.

most beautiful and most useful orchid of all. Its flowers present an almost endless variation in colors and forms and are generally borne on graceful, arching spikes from five to fifteen flowers on each. Unfortunately this orchid is but sparingly grown here, owing to our climate being so much against it; however, it is not so difficult to grow as some people imagine. Bear in mind that it is a cool-loving plant and treat it accordingly during our hot summer months. The plant is getting very scarce, and consequently high in price, but the quality of the flowers obtained and the profitable prices which they are sold, will soon compensate the grower for his first outlay.

*Androbium formosum giganteum* is another profitable plant to grow, and where there is a large number of plants raised by the grower, it is a money-maker on hand for Christmas. Its pure white, large blossoms are well adapted for decorations and always find a ready sale.

Besides those mentioned there is quite a number of different kinds of orchids that will flower at Christmas with more or less certainty, such as *Vanda carolinensis*, *Phalaenopsis*, and *Phalaenopsis*. The *Phalaenopsis*, justly called the queen of orchids, is another; its flowers, unsurpassed in beauty, are borne on magnificent drooping spikes, everyone a fan. This orchid, however, is rather expensive as a commercial subject, and its cultivation somewhat delicate.

LAGER & HORRELL, Summit, N. J.

The contrast between the foliage of the caladium and the moss is sharp and pleasing.

The Greek arbutus, *A. Andrachne* is a most charming, creamy-white flower. It resembles some of the elms, to which family it belongs; but the flowers are much larger. It probably could be produced in a sufficiently large form for commercial purposes.

We know the bromeliads best as outdoor Summer annuals, but they never do better than to be kept in a pot one time in the Summer which they do in Winter in a cool house. They are, of course, most popular in the front and much knocking about; however, they should be in every greenhouse collection.

There are numerous easily grown plants, which if they could withstand the ordeal of being carried from place to place, would find favor at Christmas time, such as the *Rhynchospora* or *lignum*, cranberry, and so forth. They are most popular here last season here after the azalea was the poinsett—just the old staple plant to keep from year to year. For euphorbia, this stands an amazing amount of feeding. They like good soil firmly packed around the roots. I saw a bunch of this a year or two ago grow the same way as we now grow *chrysanthemum*, and they paid better than the common ones.

Imported ericas and epacris are dangerous goods to handle unless one has a knowledge of their requirements. While home-grown plants this danger would be done away with. Some of the plants which have been produced in the Northern states compare very favorably with European goods. In this locality there are very few species which thrive, and the commercial kinds do not succeed at all.

rene for berries, which are ripe at one Christmas to last in good condition till the next one comes around. A heated frame with the pots plunged in sand is an ideal place to grow them on during their earlier stages. At no time do they require much heat; after potting they should be kept close for a few days, but in Winter they will thrive if the frost be kept away from them.

Oranges, tangerines and Kumquats are in great demand; the former can be got from California, and the latter can be later will thrive all the better for being grown on seedlings one year old, of the common citrus trifoliata.

*Solanum capensestrum* grown out all summer, dried and potted, makes a seasonable-looking plant for a while. The berries last longer if there are fewer of them when the plants are growing in plunged pots during the Summer. There are other solanums which are likely to bear more about in another year, one with quite large fruit shaped like a tomato.

G. W. O.

### A House of Cyclamen.

Our illustration is taken from a photograph of one of Mr. Cms. Traut's houses of cyclamen at Lincoln Road, Brooklyn. In this house, one or two Mr. Traut has been very successful with cyclamen this year, considering the hot spell we had in New York. Plants of nearly 100 square feet diameter have been numerous with him this Fall. He has exhibited special silver medals by the New York Gardeners Society at its recent exhibition, for a splendid collection of 75 plants, fine in flower, occupying a space of nearly 100 square feet. He has also been awarded two other first prizes for cyclamen this Fall. He is maintaining the reputation for excellent ericoid, so well earned by his predecessor (Gus. Bergmann).

FOUNDED IN 1888.



Its FLORISTS' EXCHANGE wishes to see its many friends and patrons a very Merry Christmas.

**A Misleading Official Report.**

We stand condemned. For utterances not our own we have been adjudged guilty of a crime. We have issued an official report, without question or comment, and by the tribunal of Superior knowledge and fair judgment we have been tried and found wanting—in one word, and said to relate, it is American. Let us now consider the new hybrid Cypripedium which has ever been shown.

The Pennsylvania Horticultural Society, in connection with its recent Fall exhibition, displayed a new hybrid Cypripedium Edwin Louisaide. This report, which was sent us by our Philadelphia correspondent, we printed as follows: (see page 1024, issue of November 13, last.) "A new hybrid variety from Cypripedium *Edwin Louisaide* and *Edwin C. Robertson* superior, and named 'Edwin Louisaide' being the first cross from *Robertsonianum* that has ever bloomed in Italy and our own, we plead guilty."

But let us explain a little. Our Philadelphia correspondent, who has been in the orchid business for over a week. There was no time to go critically over its details, for the lamellar paper had not yet side by side with the printers were waiting for copy. And, too, did we not remember that the quotation was not from the Philadelphia edition, and why under the circumstances should we doubt its authenticity, and why should we have been so careless out that our implicit faith in official reports was misplaced; this one has led us astray; we are sorry.

And, too, when hastily preparing the copy of the report for the press, our thoughts were so occupied with the little white slip—the American continent. We for the moment forgot that across the sea in the great advertising centers of cypripediums were also raised, and so, the misleading statement "the first cross from *Robertsonianum*" and inserted the word "American" before the word "cross" in the sentence. The result was that the word "read" the "first American cross," we might have escaped the censure of the Philadelphia edition, but we are sorry. All this, too, for the omission of a single word.

Our ourselves had already perceived the aforementioned ellipsis, but as this explanation could be made; and to that end, we know just how far the aforesaid official report was unreliable so that a full correction could be made; and to that end, we wrote to the originator of the new seedling cypripedium in question for information on the subject, submitted in his reply:

"I must say that the source where the Philadelphia edition of the Exchange Information is unknown to me. Certainly I myself did not give out the elaborate display of the new variety which went near the show. All the information furnished by me was on the exhibit card, and it was the seedling which was the first Orchid, Cypripedium, Edwin Louisaide, Robertsonianum, N. Robertson superior, and C. G. Robertson, Esq., Trenton, N. J."

You see it was not even mentioned as the "first American seedling," nor as "the first" to be obtained from Robertsonianum, that may have been its parentage, and it is the first American seedling which was introduced with the rich Robertsonian blood.

HENRY CLINCKENBERY.  
Though we sincerely regret that our critic has indicted, we feel like exclaiming, "Thanks, thanks to our new friends and patrons who have taken us in hand." Hereafter, we will then all official reports from the source, and let the facts be discussed, unadorned, *en grano salis*.

The Pennsylvania Horticultural Society, and the adoption of it entails criticism, and in future appointments judges

inclined to issue official reports, men who know what they are talking about, whose reports will be incontrovertible even beyond challenge.

The criticism has also tended to strengthen our conviction of the great need of a reliable source for the maintenance of orchid culture in America, the literature on which is far from complete. At our present office, we have had an orchid expert, Mr. Robert M. Grey, compiled for us a very valuable list of hybrid cypripediums, and we have published it on page 428 of volume VII of the EXCHANGE. Outstanding cypripediums appearing in the Gardeners Chronicle of February 6, 1903, we have had an orchid expert, Mr. Robert M. Grey, who we could check reported statements of fact in official reports, the nature of the one under consideration.

A "course in cypripediums," as suggested by our critic, is not enough. It is a text-book first, in order to make the work of the suggested course (and, even if it were not, it would be complete as it possibly can be made.

**Reflections on Current Topics.**

The disadvantageous nature of the undesirable rule adopted by the Chrysanthemum growers of this country formed a subject of recent discussion, and well exemplified in the communication from our Philadelphia correspondent of last week's issue. He states that through delay in receipt of the authentic notification, he was unable to receive his (Mr. Rawson's) seedling had been certified by the committee, he lost the advantage of such seedling in several prominent catalogues, "by only a day or two." Surely no more conclusive proof could be given of the necessity of this pernicious and unnecessary rule of its harmful effects. It is not the province of our critic to suggest a remedy, or of any similar body, to adopt and put in practice systems that act as deterrents to the legitimate business. The rule should be relegated to oblivion.

Our advertisement in several papers along with the goods offered for sale, is largely responsible for the existing "cutting" of prices, which is working so much injury in the business-to-day, "said a large grower and advertiser recently. These goods were advertised with the remark; and the detrimental effects of the practice, along the lines indicated, he was unable to do otherwise than to fault that cannot fail to remedy itself, sooner or later. While the price of an article is not a measure of its value, production, quality and quantity of the product play no important part in determining its value. The value of a grower, relatively speaking, may be able to produce a certain quantity of stock, and at a lower figure than his larger competitor, yet his supply is so small that the influence of his price—'he does' cut'—is not felt, and he is not a competitor. The real competition exists between those having the largest output, which is the quality of the goods, and the price of the best service rendered to customers, as regards quality, and matters incidental to the business, such as the withholding of prices would not affect.

On the other hand, the quoting of prices and the failure to reduce the price when these is a curtailment of office work, correspondence, and outlays connected with the business, and the failure to be the means of doubling the volume of business in the past three or four years, and the adoption of the "cutting" sales; it overrides delays in writing for replies to inquiries regarding values, etc. Now, if the price of the goods is not of exorbitant or extravagant figures to a minimum, and to create a greater uniformity of price, it is not wise, notwithstanding the cutting system now prevalent in some directions.

Our Philadelphia correspondent who studies the market closely, will show us they would an impending catastrophe, prices have fallen to a minimum, and he has charged so as to yield a living profit.

The practice of cutting prices on straw, and the cutting of plants for any length of time with impunity. However, our Philadelphia correspondent's observations will not stand up; it out; not even mitigate it, for other growers' plants and the best to be obtained by those inclined to cut.

The advantages of stating prices in advance, and the adoption of it entails numerous drawbacks, that to stop the practice would result in much greater loss and the adoption of it entails.

**MARKET NOTES.**

**Delay in Transportation—Freezing of Plants.**

As we have from time to time, as the case progressed, referred to the action of Henry A. Siebrecht *et vs.*, the Pennsylvania Railroad Company for damages caused by the freezing of plants in transit, or while in the custody of the carriers. Undenoted we now give a copy of the opinion of Judge McAdams of the Supreme Court (Appellate Term) of New York City, before whom and Judges Daly and Bischoff was heard an appeal by the defendant from an allowance by the General Term of the City Court of a judgment in favor of plaintiffs. The opinion is interesting as showing the liability of a common carrier under the circumstances. Mr. Siebrecht's counsel was Mr. John M. Gardner, 38 Park Row, New York.

In his opinion Judge McAdams says: "The action is to recover for damages to the plaintiff's plants, which were damaged while in defendant's care, caused by an unreasonable delay in transportation of the plants, and by the freezing of them. It appears that on Friday, February 22, 1895, at 2 P. M., one Burton, a horse-drawn freight car, containing plants from Hill, Pennsylvania, shipped by the defendant's road a lot of plants consigned to the plaintiff at Jersey City, was loaded on defendant's freight car, and the defendant agreed to transport with and dispatch. If the bill of lading the defendant's freight car, was damaged by freezing while in transit."

In order to recover, therefore, it becomes necessary to show that the defendant's negligence or breach of duty on the part of the defendant, so that they are liable for the damage to the plants. It not only unreasonably delayed transportation, but that the plants were frozen and damaged by the defendant's negligence. The plaintiffs assumed this burden, and proved that the average time of a freight train between the place of departure and the terminus at Jersey City, was from 12 to 14 hours, and that the plants, valued about 2 A. M. on Saturday as the proper time for the arrival of the train, and that the plants were not delivered in any event according to the bill of lading, and that the defendant's delay in transportation of the plants had no one at the train at that time to receive the goods. Their employe, Smith, testified that he telephoned on Saturday about 5 P. M. to the freight yard of the defendant, and received a reply that the plants were not yet at the plants to get in until 5 o'clock on Sunday morning; that he drove over on Sunday morning, and found the plants frozen, and received the plants in a frozen condition.

Of course the defendant, if free from negligence, is not liable for the damage to the plants. It agreed simply to transport the plants with the care and despatch, and the necessary delay in transportation for transportation the weather became so cold that the plants were not able to be transported in the ordinary manner, and the delay would have to be that of the shipper or consignees.

The defendant produced the United States Weather Report, which is a contemporaneous record kept by trained public servants, upon whose returns the Government Weather Bureau (under its forecasts, and proved by this record that on Saturday, February 22, at 8 P. M., the weather was coldest between midnight of the 21st and midnight of the 22nd, the thermometer having fallen to a minimum of 16 degrees at New York and 20 degrees at Philadelphia. On the morning of the 23d (Saturday) the thermometer rose to 25 degrees, and the temperature was 27 degrees by freezing.

The defendant also claimed that this established that the freezing of the plants occurred between Friday at 2 P. M. and the morning of the 23d, and that the plants were not to have arrived in Jersey City, and upon this theory requested the court to charge the jury that the defendant was not to be held liable for the damage to the plants which had reached Jersey City on the morning of February 23, 1895, and that the damage to the shipment occurred in the twelve

**Exclusively a Trade Paper.**  
Entered as Second Class Matter, October 3, 1890, Post Office at New York, N. Y., under No. 1052. Published EVERY SATURDAY by A. T. DE LA MARE PTC. AND PUB. CO. LTD., 2, 4, 6 Duane St., New York, P. O. Box, 1697. Telephone 2164 (Central)

REGISTERED CABLE ADDRESS Commercial Cable Florex, New York

SUBSCRIPTIONS: \$1.00 per year to United States, Canada and Mexico. \$2.00 per year to foreign countries in postal union. Payment in advance. New subscriptions will commence with the number after receipt unless otherwise ordered. Back numbers can be supplied when wanted. The name to address label shows when the subscription expires and is the subscriber's receipt. No other receipt is sent.

ADVERTISEMENTS: This paper will take this office no later than Thursday in order to secure insertion in issue of the following Saturday. Rates: 10c per line. Special positions extra. Discounts on contracts of one month or more. Orders from unknown parties must be accompanied by cash or satisfactory references.

**Contents.**

AMERICAN CARBONATION SOCIETY 1150, 1152  
ASPARAGUS SPRENGER, WHITE FOR 4 OF 1150  
CARBONS 1150  
Society Here's Experience with 1150  
CHICAGO FLOWER SHOW, 1897 1150  
CROCHES, DRUGS, AND FLOWERS FOR CHRISTMAS PLANTS 1150  
CORRESPONDENCE 1152  
CYCLAMENS, A HOUSE OF (LILIES) 1152  
CYCLAMENS, DRUGS, AND FLOWERS FOR CHRISTMAS PLANTS 1150  
FLORAL CALENDARS 1152  
FLORETS, STOPS OF TREES 1152  
FRUIT AND VEGETABLES 1152  
HORTICULTURAL BUILDING, OMAHA EXHIBITION 1150  
LAW NOTES: Delay in Transportation—Freezing of Plants 1156  
The Defendant in Missouri 1156  
MEN WE MEET, THE: Wm. H. Elliott (Portrait) 1158  
New York Florists' Club 1158  
Competition for Wood Medal 1154  
The Philadelphia Horticultural Exhibition (Portrait) 1154  
PLANTS AND FLOWERS 1150  
Portrait of Mrs. J. C. W. 1150  
SEED TRADE REPORT 1147  
TRADE NOTES: Philadelphia, Providence, St. Paul, Detroit, Syracuse, Cincinnati, Toronto, St. Louis 1150  
New York, Pittsburgh 1152  
Chicago 1152  
Boston 1152  
Baltimore, Grand Rapids 1152  
VIOLETS 1148

**For the Busy Man.**

Market chrysanthemums the past season were given a very gratifying in Covent Garden Market, London.  
A variegated form of Asparagus Sprenger has made its appearance in Philadelphia; also a new variety of Asparagus Sprenger.

The Detroit florists are benefiting by the rate of exchange on the dollar, and are offering a reduction, the free distribution of plants and flowers by the Government.  
The Pennsylvania Horticultural Society, the organization of a National Guild of Flower Growers was held in Philadelphia, and the objects of the Guild are specified on page 1163. The arrangement of the exhibition was arranged by the American Ice steamer Monday was destroyed through "boating." Price of mints—on a consignment advanced to \$2 per pound.

**Chrysanthemum Illustrations.**

The publishers of the FLORISTS' EXCHANGE have for sale a large assortment of cuts of the new and standard varieties of chrysanthemums. Parties wishing to refer to these in our catalogues and other printed matter will do well to write us for particulars.

**The Tenth Volume**

OF THE FLORISTS' EXCHANGE begins Jan. 1, 1898. In order to keep all the equipment complete and handy for referring to, you should use one of our binders. They are made in two styles, one at 75 cents, and one at 45 cents. Both are good and serviceable.

hours preceding the morning of the 23d, there is no evidence that the plants were injured because of the longer time occupied in transportation...

It was for the jury to say when the freezing took place, and if the request had been that they found that the plants were injured before the longer period of transportation...

It is well known that plants are safely kept during all seasons of the year, and that those in question were properly packed to resist the cold for 24 hours...

The risk of freezing after the usual time for transportation expired was on the defendant, and the evidence was sufficient to send the case to the jury...

Negligence is in general a conclusion from the facts in a case, and the instructions from the court, and it is always so when the facts and conclusions are in issue...

Where the injury may have resulted from one of two causes, one of which would establish liability and the other excuse the defendant and absolute certainty as to which did cause it is unnecessary, the verdict of the jury is conclusive.

We have not referred to the plaintiff's request for a temporary injunction because the objection presented for review is to the refusal to charge, which was founded exclusively on the defendant's motion for a temporary injunction, conditioned upon the finding that it was true.

Inferences to be drawn from them, with the inherent probabilities—all of which were considered by the jury—show that the trial judge properly disposed of the request to charge, and as his refusal to grant the injunction was upon which the exception urged was taken, the judgment must be affirmed, with costs.

A Permanent Injunction.

Judge GAYTOR, of Sioux City, Ia., has decreed that Jonathan W. Brown, of the Sioux Horticultural Bank, has no right to use the name "The Sioux City Nursery and Seed Company," which name the defendant formerly operated under that name...

These latter items incorporated what is known as the Sioux Seed and Nursery Company, and have been doing business under that name. Receiver Brown has filed a bill to have the name "The Sioux City Nursery and Seed Company" changed to the word "The," but articles of incorporation have been filed with the Secretary of State...

Floral Calendars.

Donald B. Long, of Buffalo, N. Y., very recently sent us specimens of an entirely new departure, in a subject of special interest to us, viz., the Floral Calendar. It is a beautiful calendar, and certainly the conception will go far toward firing his imagination and leading him to other attempts of thought and readiness of pen and pencil...

Trans-Mississippi and International Exposition, Omaha.

The Trans-Mississippi and International Exposition will open next June in the beautiful city of Omaha, which was admitted to the Union in 1857, but thirty years ago, Omaha and the region whose marvelous progress will be illustrated by the exposition, were but a few years ago comparatively unknown to a large portion of the people of the Atlantic States.

Under an act of Congress approved by the President of the United States, the Trans-Mississippi and International Exposition is granted recognition as a national exhibition, and the full rights and privileges for the admission of foreign exhibits free of duty, the right to strike medals, and the right to coin medals in the United States mints, and all other privileges heretofore granted to international exhibitions, except the right to coin medals.

Several horticultural establishments have at this early date identified their names on the grounds of the exposition, and the Horticultural building, Henry A. Dreyer will have a large display of plants, including a large amount of common and pansies; F. R. Peterson Co. will also have both kinds of pansies, and W. J. Peterson will have a large display of Barabank; Peter Henderson & Co. will exhibit grasses and ferns plants.

It is to be expected that A. O. H. coming to Omaha in 1898-1899 is a source of great satisfaction that her hotel facilities will be improved, and that the necessary accommodations are in contemplation. In addition to the present large number of hotels, there are already over 200 restaurants, tool gardens, and

cafes. It is estimated that the capacity of Omaha in this regard is sufficient to care for 50,000 people daily.

With our limited space it is impossible to do justice to the exhibits, and to which this exposition will present. Unlike other American exposition architecture, the buildings here are characterized by their briefy stated, the buildings and colonades will present the aspect of a Pompadour style of architecture, and the buildings having the tint of old marble. Intricate carving and classic sculpture will be the main objects of artistic effect produced by the finished work of the main colonades, and the main buildings, and beautiful porches and colonades with imposing columns will form the main objects of artistic effect and rampart will survey the main court from its lofty pedestals.

Index to Advertisers.

Table listing various advertisers and their products, including Agri-culture, Cut Flowers, Flower Pots, Tubes, and various horticultural supplies.

Table listing various advertisers and their products, including Florists, Nurseries, and Horticultural supplies.

NEW WHITE CHRYSANTHEMUM FRANK HARDY

The mid-season market white of the future, indispensable for the market grower and for the exhibitor. Highest honors at the leading shows in competition with all the best whites on the market, and the highest average of all varieties exhibited before C. S. A. Committees this season, with 100% points from exhibits at York, Boston, Philadelphia and Philadelphia, 1907. ... \$3.00 per 100, \$20.00 per 1000, \$150.00 per 10000.

A. HERRINGTON, Florum Farms, MADISON, N. J. When Writing Mention Florists' Exchange

CHRIS ANTHUM FRANK HARDY

See Florists' Exchange for Dec. 11th for List of Varieties and Prices. THEO. F. BECKERT - Glenfield, Pa. When Writing Mention Florists' Exchange

100,000 VERBENAS. IN CULTIVATION.

Five pot plants, \$2.50 per 100; \$20 per 1000. Rooted Cuttings, 75 cts. per 100; \$6.00 per 1000; \$50.00 per 10,000.

\*NO RUST OR MILDEW\* Packed light and satisfaction guaranteed. Send for circular. We are the largest growers of Verbena in the States. Quantities and prices as arranged. Mention paper. J. L. DILLON, Bloomsburg, Pa.

CERANIUMS HELIOTROPE

GERANIUMS, 3 1/2 inch pots, 50 cts. per 100. ... HELIOTROPE, 2 1/2 inch pots, \$2.50 per 100. ... WM. J. CHINNICK, Trenton, N. J. When Writing Mention Florists' Exchange

ASPARAGUS SPRENGERI

Five stock, 3 1/2 inch pots, at \$1.50 per 100; 1 1/2 doz. ... NEW YANKA ... A. BLANO & CO. Philadelphia, Pa. When Writing Mention Florists' Exchange

A Surprise Collection

FOR \$1.00 we will send above collection of new and standard plants, our selection worth \$5.00, to show our plants; we do this as an advertisement as we are growers of 2,000,000 plants per year.

THE MORRIS FLORAL CO. MORRIS, ILL. When Writing Mention Florists' Exchange

NEW STOCK CANNAS.

Strong, dormant roots, of the following varieties: A. Bouvier, Austria, Chas. Henning, Columbia, Coeur de Buchanan, Italia, John White, Mme. Crozy, Professor, Queen Charlotte and Souv. de A. Crozy. Prices on application.

Cyclamen, see special ad. on another page. ... Maranta bi-color, fine for use. ... Paris Daisy, California Giant, 2 1/2 ... Paris Daisy, Italian arrow, 2 1/2 ... Primula acaenata imbricata, very ... Pansies Ullis, very fine, 5 in. ...

SEAWANNAH GREENHOUSES, OYSTER BAY, QUEENS CO., N. Y.

When Writing Mention Florists' Exchange

Syracuse, N. Y. NEW WHITE CHRYSANTHEMUM FRANK HARDY

The weather continues very unfavorable, there being scarcely any sunshine. Trade, however, is not at all slow. Cuttings are being ordered and previous indications there will not be enough to go around for the holidays. The rose, Pres. A. S. does not break here yet after cutting.

The annual meeting of the Central New York Horticultural Society was held on the 8th inst. The President, A. D. Perry, who has held the office for many years during which he has worked most industriously for the best interests of the Society, Mrs. S. C. Betts, a prominent real estate broker, S. T. Betts, a prominent real estate broker, and J. H. Ebling, were re-elected. The speakers were Rev. Mr. Beauchamp, of Baldwin; Mr. H. H. Hahn, of Cornell; Professor Beach, of Geneva, and Mr. Grove P. Rawson, of Elmira. ...

SMILAX! SMILAX!

Extra 2 in., \$1.50 per 100; \$10.00 per 1000; \$20.00 per 10,000. ... GLADIOLI ULBS, May, White and Light Yellow, Fine Mixed. ... BETCHER BROS., Canal Dover, Ohio When Writing Mention Florists' Exchange

SWANSON

Gateligia alba, 500 in 2 1/2 in. pots, at 4 cts. Gateligia rosea, 300 in 2 1/2 in. pots, at 4 cts. Plants are 3 inches high, nice and stocky. JOSEPH HILBERT Fifth Avenue, N.Y. When Writing Mention Florists' Exchange

50,000 ROOTED CUTTINGS AND PLANTS

50,000 rooted cuttings and plants. ... \$1.25 per 100; \$8.00 per 1000; \$15.00 per 10000. ... L. E. MARQUESS has rented a store on South Salina street.

Buffalo. Consecratory Bldg.

Proposals for the construction of the new conservatory, which the Board of Park Commissioners intends to erect in the new park, were invited to be opened at a board at its regular meeting held December 7. The board invited proposals on three sets of specifications. One set was for the whole building, a second for the building without two side sections, and a third for the building without four side sections.

The bids are as follows: Hitchings & Co., New York, \$1,832,977. No. 1, \$1,242,956; No. 3, \$1,114,976. W. H. Kitch, Buffalo, No. 1, \$1,103,376; No. 2, \$1,102,820; No. 3, \$1,103,376. L. R. Burleigh & Co., New York, No. 1, \$1,214,743; No. 2, \$1,113,412; No. 3, \$1,103,444. J. Fleety, New York, No. 1, \$1,133,700; No. 2, \$1,113,900; No. 3, \$1,108,300. ...

DETROIT.

One of the handsomest florist stores in the West is that of J. F. Sullivan, Mr. Sullivan's store is a handsome club which is designed to the front of his store that lights up his great window with special brilliancy.

John Brettmeyer & Sons will erect three houses for growing Beauty at Mt. Clemens, Mich. They have also remodelled their store.

Gust Knoch has erected a fine stone building for growing plants at Mt. Clemens, Mich. Charles Warneke has created a commercial house 20x112 feet.

Owing to the cut in prices in the telephone charges between two companies in Detroit, most every florist has a phone at present.

PRIMROSES, assorted varieties of B. Samuels, 2 1/2 in. pots, \$1.00 per 100.

PERLARGONIUMS

A fine lot, 2 1/2 inch, of the following varieties: Mme. Thibaut, Melch. Mrs. Robert Standford, ... MRS. THOS. LAWRENCE, Ogdensburg, N. Y. When Writing Mention Florists' Exchange

5000 THYRISTIS, 2 1/2 inch pots, \$1.00 per 100.

SMILAX. Fine straggling 1/2 size Cacti. Cash with order, please. A. J. BALDWIN, Newark, Ohio. When Writing Mention Florists' Exchange

SEAWANNAH GREENHOUSES, OYSTER BAY, QUEENS CO., N. Y.

When Writing Mention Florists' Exchange

PANSIES NICE PLANTS, at \$3.50 a 1000. Cash with order. JOS. H. CUNNINGHAM, Delaware, Ohio

VIOLETS! VIOLETS!! MAKE DUPLIC. Pot crown, 3 in. and healthy in every particular. \$5.00 per 100; \$45.00 per 1000. Sample plant, 10c. Cash with order. WM. J. CRANNICK, Trenton, N. J.

ROOTED CUTTINGS. By the Thousand. By Mail. Double Petaluns, 50 varieties, \$1.25 Per 100. 10 New Varieties This Year, \$1.00 Not less than 5 of a kind. Begonias, flowering, 25 varieties, \$1.50-2.00 Geraniums, 25 varieties, \$1.50-2.00 Violets Geraniums, 10 varieties, \$1.50 Abutilons, Boule de Neige, Spider daisy, Golden Fleece and Souv. de Rome, \$1.50 Bellanope, 4 varieties, including Lemon and Yellow, \$1.00 Streptanthus Dyerianus, \$1.00 Cypripis, seagat plant, \$1.75 Ageratum, white and blue, \$1.00 Salvia, Wm. Bedan, \$1.00 Ceanothus Splendens, \$1.50 ..PLANTS.. Primula Obconica, very fine, 3 in., 5.00 Begonia Metcalfei and Mar. Queen, 4.00 Double Petaluns, 3 in., 40 varieties, 5.00 Abutilons, Boule de Neige, \$3.50 Geraniums, 25 varieties, 3.50 Cash with order please.

GEORGE J. HUGHES, Berlin, N. J. When Writing Mention Florists' Exchange

TOLEDO PHOENIX NURSERY CO. P. O. Box 625. Bloomington, Ills. Established 1852.

1000 Strong Cinerarias, large enough for 2 or 3 inch pots, \$3.00 Per 100. 500 Snow Crest Daisies, fine for winter blooming in bud, \$3.00 200 Asparagus Plumos, \$1.00 200 Nanus, \$1.00

ROOTED CUTTINGS. Rex Begonia, Mrs. Pollock, Silver Leaf, \$2.00 per 100. Double Grant, White, Pink and Blue, scattered geraniums, Lemo Verbenas, \$1.50 per 100. Write for prices on other cuttings. Terms Cash or C. O. D.

GREENE & UNDERHILL, Watertown, N. Y. When Writing Mention Florists' Exchange

2 YEAR OLD ROSES 2 YEAR OLD... These Roses have been potted some time and have made a nice bushy growth. I offer them while they last at \$3.00 per doz.

PERPETUAL BLOOMING ROSES. Clothilde Souper, Leonie Osterheim, Mme. de Warville, Pink Souper, Double Lyon, Sombrius, Mme. Perboth, Mme. Welche, Francaise Kruger, Malmaison, Christine de France, Madame de Brabant, Madame Eric Lambert, Rainbow, Pink Souper, Bride, Meteor, Triumph de Perret Fere, Brisant, H. M. Stanley, Marie Lambert, Marie Guillot, Pierre Guillot, Yellow Souper, Brisant, Perle Chas. Legrandy, Mrs. Degrav, Marie Van Houtte, Madame Cochet, Louis Richard. The above list is in 3/4 inch pots at \$3.25 per doz; \$30.00 per 100.

CLIMBING ROSES. Two year old plants in the following varieties, \$1.00 per doz.; \$8.00 per 100. White Rambler, Yellow Rambler, Pink Rambler, Climbing R. The above list is in 3/4 inch pots at \$3.50 per doz.; \$30.00 per 100.

CLIMBING ROSES. Two year old plants in the following varieties, per doz. 75c. \$8.00 per 100. Crimson Rambler, Empress of China, Golden Rambler, Rose, Wm. Paulsen, Climbing Perle, Mrs. Washington, M. Niel. The above list in 3/4 inch pots at \$3.50 per doz.; \$30.00 per 100.

HYBRID PERPETUAL ROSES. Two year old plants in the following varieties, per doz. 75c. \$8.00 per 100. Mrs. Wm. Paulsen, Mrs. Wm. A. W. Alps, Magna Charta, Vick's Caprice, Ball of Snow. The above list in 3/4 inch pots at \$3.00 per doz.; \$25.00 per 100.

JOHN A. DOYLE, - Springfield, Ohio. When Writing Mention Florists' Exchange

ROSES! All on own roots... Our own growing A SPLENDID LIST OF HYBRID PERPETUALS, MOSSES and CLIMBERS, field-grown, dormant, 2 special prices for large quantity. Also a Superb List of HYBRID PERPETUALS, HYBRID TEAS and EVERBLOOMING ROSES in 4 inch pots. List of varieties and prices sent on application.

FARQUHAR VIOLETS Strong, healthy runners, \$1.00 per 100 by mail. AGERATUM rooted cuttings, white and blue, 50 cts. per 100. BEGONIA SP. (see plants from 3 in. pots, \$2.00 per 100. WM. H. SEARCH, Avondale, Chester Co. Pa. When Writing Mention Florists' Exchange

PANSIES WORTH RAISING Good plants, \$2.50 per 1000, or \$1.50 per 500. Blooming plants, \$1.00 per 1000, or \$2.50 per 500. Seed as usual. Cash with order. F. O. B. Express. C. SOLTAU & CO., 199 Grant Avenue, - - JERSEY CITY, N. J. When Writing Mention Florists' Exchange

PANSIES FLOWERING THE JENNINGS STRAIN. They are the finest to date. 200,000 to cold frame, small stock plants, \$4.00 per 100 by express; 75c. per 100 by mail. Large plants in bud and bloom, \$5.00 per 100. SEED, FINEST MIXED, \$1.00 per pkz.; \$9.00 per case. E. B. JENNINGS, Lehigh Southport, Conn. BROWER OF THE FINEST PANSIES. When Writing Mention Florists' Exchange

HEADQUARTERS for Rooted Cuttings. Geraniums, 40 var., \$1.50 Per 100. Verbenas, 30 " " " 75 50.00 Coleus, 40 " " " 60 5.00 G. Bedder and Verschaffeltii 75 6.00 Heliotrope, 3 var., " " " 1.00 9.00 Salvia, scarlet, " " " 1.00 9.00 Ageratum, white and blue 75 6.00 Terms, Cash with order. CHAS. E. SMITH, York, Pa. When Writing Mention Florists' Exchange

ROOTED CUTTINGS. Geraniums, 40 standard vars., \$1.00 Per 100. Verbenas, 12 best Mammoth, " 75 50.00 Begonias, Rex and Ornamental 3 inch pots, " " " 5.00 5.00 Genista Cass, 3 inch pots, " " " 5.00 5.00 Vinca Var., strong, field-grown, 6.00 6.00 Chrysanthemum, stock plants 4 inch, 25.00 Flower Pots, 3/4 inch, per 100, \$2.25. Cash with order. GREENE CO. FLORAL NURSERY, White Hall, Ill. When Writing Mention Florists' Exchange

ROSES. FIELD-GROWN. OWN ROOTS. No. 1, 2 to 4 ft., cut back to 2 ft. Marechal Niel, Yellow Fambler, Hybrid Perpetuals, Mosses, Hardy Climbers, Madame Planter, and Wucheriana. All on own roots except Marechal Niel, which are grafted on non sprouting roots. These plants are very strong and well shaped. Prices on application. Address W. F. HEIKES, Mgr., - Huntsville, Ala. When Writing Mention Florists' Exchange

ROSES 100,000 STRONG PLANTS FROM 2 1/2 INCH POTS. Bride, Sambreuil, Hridesmaid, Duke of Edinburgh, Kaiserin, Mme. Perret Pierre, La France, de Chamouille, Mouton, Marie Van Houtte, C. de Noug, Mme. Schwaller, G. de Wootton, Papa Gontier, Dr. Grill, Golden Gate, Mrs. Holt, E. Lee, Crimzon Rambler, Tricolore de Sagan, Malmaison, Mrs. Degrav, Maman Cochet, Sufarano. Price - \$2.25 per 100; \$30.00 per 1000; by mail, 25c. per 100 additional. No order accepted for less than 100, and 5000 not one thousand raised. Samples 25 cts., prepaid.

R. H. MURPHY, Urbana, Ohio. When Writing Mention Florists' Exchange

VIOLETS MY SPECIALTY California, extra clumps from field, \$35.00 per 1000. Special prices for large quantity. Other varieties all sold for the present.

FERD. BOULDE, Sea Cliff, L. I., N. Y. When Writing Mention Florists' Exchange

ROSES. Leading varieties. Write for prices. CUT SMILAX, 15 cents per string. CHOICE CUT ROSES, \$3.00 per 100. PANSY PLANTS, strong, \$4.00 per 100. THE NATIONAL PLANT CO., Dayton, Ohio. When Writing Mention Florists' Exchange

Field-Grown ROSES Dormant Stock. Everblooming and Polyantha roses, Hermosa, Queen Scarlet, Dr. B. Brabant, Miniature, Mme. Cecile Brunner, etc., \$5.00 per 100.

Strong, Vigorous VERBENAS Healthy Stock. Per Plants, Best Mammoth, \$2.00 \$25.10 Rooted Cuttings, Best Mammoth, 1.25 10.00 Rooted Cuttings, Old Mammoth, 1.00 8.00 Per Plants, Old Mammoth, 2.25 20.00

CYCLAMEN. Feselem giganteum, in bud and bloom from 3/4 in. pot, \$10.00; 3 in. pots, \$3.00 per 100.

CERANIUMS. All the leading sorts, pot plants and rooted outtings. Prices on application.

MISCELLANEOUS. Ageratum, blue and white, \$1.00 \$8.00 Coleus, all leading sorts, 1.00 8.00 Fuchsias, double and single, 2.00 15.00 Foxglove, 1.50 12.00 Heliotrope, light and dark, 1.25 10.00 Nicotiana, 1.50 12.00 Salvia, Soteland, all Finishall 1.25 10.00 WOOD BROS., Ithaca, N. Y. When Writing Mention Florists' Exchange

**SITUATIONS WANTED.**

Rate 10 cents per line (10 words), each insertion. Cash with order. This rate applies only to those who wish to have their notices read and sold without delay. When letters are forwarded to us, we will do our best to cover expenses of advertising.

**COLIN OGSTON**, West Atlanta, Ga. is now open to an engagement, at a first-class course of wholesale and retail stock.

**WANTED:** A situation by a practical all round florist, competent to take charge of general florists' work. Address: Box 157, Piquetteville, N. J.

**WANTED:** Situation, by a young man, an assistant in establishing a florist's business. Experience. Address: Mac, care Florists' Exchange.

**A GOOD**, all-round man; sober, reliable; desirous of a position of some consequence. References a guarantee. Address: L. care Florists' Exchange.

**SITUATION** wanted: gardener, florist or manager of years' experience in all branches; private or commercial. Florist & care Florists' Exchange.

**POBEMAN**, married, acesite position as rose grower; competent to take charge of general florists' work; best of references can be furnished. Address: M. care Florists' Exchange. 20 West Side Ave., Jersey City, N. J.

**SITUATION** wanted, by married man, as rose grower and florist. References a guarantee. Address: general greenhouse plants; first-class references. Address: D. care Florists' Exchange.

**SITUATION** wanted as florist or gardener; 16 years' experience in all branches; private or commercial. Address: H. care Florists' Exchange.

**HELP WANTED.**

**WANTED.**

A married man who understands roses and bedding plants. Address: L. BONNET, Flemington, N. J.

**WANTED.**

A man of good address, up to date in decoration and make-up. Steady employment. References with address. Address: J. L. LOOSE, 12th and F Sts., Washington, D. C.

**STOCK WANTED.**

**WANTED.**

5000 California Privets, 2 years old. More or less on hand. Address: FRED BOERNER, Cape May City, N. J.

**HOT-HOUSE TOMATOES and MUSHROOMS WANTED.**

**BRADLEY REDFIELD**, Commission Merchant, 141 Cook Street, PHILADELPHIA, Pa. Market prices and prompt returns guaranteed. Write for cards and quotations.

**WANTED.**

20,000 to 25,000 **NORWAY SPRUCE** 8-10 in. high. One or two trees from 15,000. **BALSAM FIR** One or two trees from 15,000. Quota lowest price and mail sample to **JACKSON & PERKINS CO., Newark, N. York**

**MISCELLANEOUS WANTS**

**WANTED.**

600 feet of good second-hand 1 in. cast-iron pipe, also 2 or 3 expansion tanks and elbows. State lowest cash price. Address: W. B., P. O. Box 145, Dover, N. J.

**WANTED.**

To buy or rent a greenhouse establishment or dwelling house, on a good ground, suitable to build upon, in a healthy location near New York City. Address, with full particulars, responsible, care of this paper.

**WANTED TO RENT.**

A place within twenty miles of New York City. Must be in perfect repair. Full particulars. Address: H. care Florists' Exchange.

**WALTER F. SHERIDAN**, 39 West 23rd St., N. Y.

**BUSINESS OPPORTUNITIES**

**FOR SALE.**

Greenhouse property in northern New York state, situated on a beautiful site, on opposite terms. Cash. F. W. Best, M. D., 10 Ball street, Fort Jeron, N. Y.

**TO LET.**

Florist Establishment with good local trade, near New York. Good for an enterprising party. Address: H. care Florists' Exchange.

**TO LET.**

A convenient store in good position for wholesale or retail florist. Inquire at 115 East 45th, New York.

**FOR SALE.**

Greenhouses, in one of the best cities in Wisconsin. A good investment and a money maker for a hustler. Overcut must retire on account of poor health; for particulars, write

**ELLIS & POLLWORTH**, MILWAUKEE, Wis.

**TO RENT OR LEASE.**

A piece of ground with a dwelling house, situated on Vermont Avenue, at Luthers Cemetery, to rent or lease for a term of years, or for a summer or two. A good gardener and florist for the past 20 years and located in one of the best locations for this business; rent cheap; all further information can be had from the owner.

**W. WENDEL**, Middle Village, N. Y.

**POKESAL**-Florists' acesite covered wagon; built about 5 feet front end, 10 feet long, 7 feet 76 feet, built to order costing \$250. Used but two years. Will be sold cheap.

**VACABON'S SEED STORE**, Box 68, Chicago.

**St. Louis.**

**Business Still Bad.** Trade continues dull and prices have dropped considerably since last week. If the growers know what it actually costs them to grow stock (and it is not few of them), they will be able to realize that at present prices they are, as Sam Jones puts it, "working for nothing and boarding themselves."

Wholesale florists report extremely light sales, with a very large over-supply of pink and white carnations. Carnations at 2c, and large lots could be bought for something less than that. Beauty carnations in fair demand at 3c to 35c, and red roses of all kinds sold quickly at 85 to 100 per 100.

Carnations are selling at from 2c to 3c, with a scarcity of red sorts. The supply of Harris lilacs is very short. They would probably sell at good prices.

The windows of the retail stores are being arranged for Christmas decorations and in many cases these goods are very artistically displayed.

**Club Notes.** At the regular meeting of the Florists' Club, F. W. Weber and A. Meyer, Jr., were proposed for membership. The Christmas dinner committee was not able to make its final report and the matter was deferred until the next regular meeting when the question of giving another exhibition next year will be decided upon.

**A Bowling Match.** The Chicago Florists' Bowling Club visited the St. Louis boys Sunday, arriving at 7:30 A. M. They were met by the club and by Messrs. Beaman and Win. Young. Breakfast awaited them at the Hotel Rozier, after which a visit was paid to a number of the wholesale and retail stores. Lunch was served at the Grand, and the bowling contest

began at 9 P. M. The result was a victory for the St. Louis club, they winning four out of the five games. J. Zeck, of Chicago, made the highest average. The result was a surprise to both sides, as are under.

At the conclusion of the match the party adjourned to Lipper's for a banquet which was served. Speeches were made by Messrs. Grant, Vaughan, Wilson, Tresselt and the victors left for home on the evening train. All expressed themselves well pleased with the day's work and the result of the match. A formal invitation to the St. Louis florists to visit Chicago and attend the meeting of the Chicago Society to be held in the city next February.

**Toronto.**

**Trade Continues Good.** Business here is still good, and there is every indication of there being an extra holiday trade. Flowers are generally of good quality none now going to waste. Prices are still going up, but are not yet so high as they have been other parts of the week.

At this week are, Rude, Bridesmaid, Mermel, Meteor, etc., run from 80 to 85; Wootton, Sunset, Perle, Hoste, etc., \$3 to 36; Cusin, Nephets, \$2 to \$4; Beauty from \$10 to \$50, but very few of the better ones are offered. Carnations bring from \$2 to \$4; violets, \$1 to \$2; july, \$3; and \$4; Romans, \$2 to \$4; smilax, 12 1/2c; nigamette, \$4. These are present prices with an upward tendency.

Harry Dole, John Dunlop, and the North Toronto Florist Co. are all selling in fine roses; Miller & Sons, fine carnations, and Frank Duffel, good violets. The latter are much in demand this season and thousands are ordered by our retailers for the Christmas trade.

The weather is mild now and most of the boys here it will keep so until after Christmas.

There have been several meetings held lately by business men having interests in the city and St. Lawrence market, and it has been decided to ask the City Council very largely to increase the tax on the market. The city owns the space next to the present market necessary to make the market one lot; and there is no doubt a large business could be done if anything like proper facilities were provided.

The December meeting of the Horticultural Society was held on the 7th, 35 members being present. Mr. C. McPhee read an interesting paper on "Seasonable house plants and home decoration." Several of our amateur members took part in the discussion that followed. George Vair introduced the matter of giving plants to several of the school children, and several of them offered prizes in the Fall for the best plants produced from them. It was decided to bring the matter before the school officers and report at the next meeting.

Chrysanthemums are very scarce here this season, and some of our growers are greatly inconvenienced in consequence, as it has been the case in one or two years before for some time now. **THOMAS MANTON.**

**Brooklyn, N. Y.**

John McKee opened a new retail store at 83 Broadway on December 15. Two new stores have recently been opened in Seventh avenue; one by Dudley at 91 and one by Brady at 101, both in the neighborhood of Seney Hospital.

**Cincinnati.**

**Business Satisfactory.**

We have no complaint to make regarding business during the past week. The demand for flowers is still strong, as was a great demand for flowers, and probably \$3,000 was spent for this one funeral. General business was also good and stocks have been well cleaned up.

The inquiries for Christmas are very numerous; but, so far, stock does not show indications of being very plentiful.

**A Successful Carnation Meeting.**

Saturday, 11th inst., was our special carnation meeting, and not since the show of the Carnation Society, held here last February, have I seen such a grand display of carnations. E. G. Hill & Co. had the following: Psyche, on the order of Armazuldu, finely more-pencilled, a large flower of good form, stem, and calyx. Painted Lady, which, by the way, is well named, of the color of a lady's cheek that has been given that blush tinge; but to those who may never have noticed it, it is a very good one. The color is as blue as that of Bridesmaid and Tidal Wave; a grand formed flower, of good form, stem, and calyx. The color is that of a lady's cheek that has been given that blush tinge; but to those who may never have noticed it, it is a very good one. The color is as blue as that of Bridesmaid and Tidal Wave; a grand formed flower, of good form, stem, and calyx.

My dear friends, I have no doubt if it is better than Armazuldu, Nobility is similar in color to Painted Lady, especially so good, although not by any means.

E. G. Hill & Co. also showed six blood-red Carnations, yellow-crown, anthemion of good proportions, but the color was against it; still, for a late variety, it is very good.

F. Dornier & Sons Co. showed Mary Wood which is a white Brade-the best I ever saw. The color is very good, and get is the yellow carnation of the age, and unless I miss my guess wonderfully, it will be a sensation on the show. It possesses a most pleasing color and a very graceful carriage; although the stem might strike you.

John Young is a white, but I think Dornier & Sons can do better. Although I don't not buy it, this is a very good one. G. H. Crane is a scarlet and will probably make a good carnation. I have seen it, and unless I miss my guess, it will be a sensation on the show. It possesses a most pleasing color and a very graceful carriage; although the stem might strike you.

George & Allen had a splendid display of roses, violet, chrysanthemums, etc. The display was given by Mrs. George and E. H. Giesey, after which Win. Murphy briefly told us several of the new kinds. R. Witterstaetter's Evelyn carried off the plum (and made Win. Murphy pay for the supper). In a comparison with Flora Hill, whose weak stem lost the contest this time. Putting the two in comparison with several other experts to tell them apart, but when your nose touches the bloom Flora Hill soon makes good.

The regular monthly meeting of the Cincinnati Florists' Society was held on the evening. Recitations of an interesting character were given by Mrs. George and E. H. Giesey, after which Win. Murphy briefly told us several of the new kinds. R. Witterstaetter, Mr. Wiegand, J. P. of Indianapolis, was a caller this week. **E. G. GILLET.**

**Chicago Florists' Bowling Club.**

Names.	1.	2.	3.	4.	5.	Total.	Avg.
G. S. WILSON.....	135	113	133	115	120	616	123.2
J. L. GRANT.....	172	136	162	125	97	692	138.25
P. HAUSWIRTH.....	97	118	116	138	129	598	119.5
J. ZIECK.....	128	173	177	187	89	855	171
W. WERTNER.....	120	141	153	146	113	673	134.5
W. KREITLING.....	91	116	95	131	104	537	107.5
Totals.....	743	797	838	842	732	3952	

**St. Louis Florists' Bowling Club.**

Names.	1.	2.	3.	4.	5.	Total.	Avg.
C. KUERN.....	186	119	177	135	124	741	148.15
J. J. BENCKE.....	149	132	158	122	151	712	142.5
J. W. KENZEL.....	130	148	154	126	169	697	139.5
A. GAYNE.....	128	114	142	102	124	510	102
W. BEYER.....	111	148	185	192	148	814	162.8
E. SCHAY.....	148	123	160	185	174	790	158
Totals.....	882	814	976	812	850	4324	

New York.

Wholesale Market. Business this week has been very dull. Trade is usual during the week preceding the holidays, but in this condition, this year, has been augmented to a large extent...

Roses show evidences of picking, and some very fine buds are depreciated in value by weak stem and hook. Prices on small roses have been hard to maintain...

Carnations weakened and are selling at varying figures, from \$1.25 to \$2.25 per 100. Violets suffered a severe set-back and have been the poorest sellers in the market...

Roman hyacinths are a gent. Valley is weak and irregular in price, except for special quality \$1.50 to \$2.50 are frequent taking figures...

Poinsettias, on order only, bring \$35 per 100. These are plentiful and are freely used. Lilium Harrisii is now fetching a little better price, from \$8 to \$12.50 per 100.

Smilax continues a drag. Christmas green trade is brisk and clearing up well, no shortage is noted, except on the very highest grade of holly and imported mistletoe...

Trade of the most unique dimer decorations of the week took place Thursday at the home of W. C. White...

were arranged on a bed of asparagus. Many of the individual bracts measured 18 to 20 inches in diameter, and were a magnificent blue. The Rosary Cut Flower Co. had this decoration.

New Stars. Woldemar and Dahlia Barth opened a store on Wednesday last at 1135 Lexington avenue, southeast corner of Seventy-ninth street.

Frederick & Co. is the firm name of a new store, just opened, at One Hundred and Sixty-second street and Eighth avenue. Miss Tucker, formerly at the Nestle-down store with Miss Wheeler, is now located at 210 Lexington avenue. She has named her store "The Perary."

The Sherry basement store, once run by Fleischman, has been let to three ladies who are now carrying on a flower business there.

Visitors. Henry Small, of J. H. Small & Sons, Washington, D. C.; Alexander Scott, Philadelphia, and John S. Snyder, of Oneida, N. Y.

Alfred Dimmock, of P. Hays & Co., sailed for England on the Teutonic, Wednesday last, after a very successful tour.

New York Gardeners' Society. The following officers were elected at the meeting of the society on Saturday night last: President, W. Scott, gardener to T. C. Eastman, Tarrytown, N. Y.; vice-president, A. Tamm, gardener to T. O. Mattheison, Irvington, N. Y.;

secretary, Wm. Bartholomae, gardener to W. B. Isham, Riverdale, New York City; Executive Committee, R. Brett, R. Pierkowski, W. Anderson, John Shore, G. B. Winslade, C. Webber, W. Sage, and J. Wuegerter.

A. L. Marshall, Pawling, N. Y., exhibited three carnans, all seedlings from Columbia; they give evidence of merit. J. I. Doulan and Jessie H. Marshall are the names given to two of them; the other is not yet named.

A. Piper, 174th street, exhibited a wild-flower orange, which, it was claimed, fruits more readily and makes quicker growth than the Othello orange. A certificate was awarded Robert Laurie, gardener to Cornelius Vanderbilt, Newport, R. I., exhibited six plants of Begonia incarnata, and two of B. socotrana before the horticultural section of the American Institute, Tuesday, December 14, for which he was awarded the diploma of the American Institute. The plants of incarnata displayed evidence of unusual cultural skill. Mr. Laurie claims that he has an improved form of this old but charming and most useful begonia, and he names it "Improved." Certain it is that the plants submitted showed considerable improvement both in size of individual bloom and in color, also in cretness of growth and branching of flowers; neither was the frequent and outbred seed vessel, noticeable in the type, so prominent. The plants, as exhibited, show a profitable method of propagating florists as flower subjects for Christmas trade. They stand out as excellent novelties.

A memorial, signed by many prominent business men, was presented to the Board of the American Institute, on meeting this week, suggesting to that Board that it would be a graceful recognition of the efforts of the florists to give his name to one of the newly projected parks.

Pittsburgh.

Market News. Trade has remained about the same all last week; the scarcity of stock notwithstanding. Carnations are choice and more plentiful, quoted at \$1.50 per 100 and up, and selling at retail from 35c. Roses advanced a little in price, and as they are not very abundant in our locality, will likely be high priced for the holidays and scarce at that. Romans, paper-whites and valley sold moderately well. Tulips are also scarce, but they are shortly expected. Harrisii lilies will be plentiful for the holidays, but uncertain in price.

Christmas greens have been in the market for several weeks. Trees arrived on December 15, and the supply promises to be heavy. Holly is fine, well berried, the best seen for many years, and sells readily. The profits in Christmas greens are not what they were some years ago, when the bulk of the stock was handled by the florists' trade. The last few years commission houses, grocery stores, peddlers, hawkers in the markets and many others have thinned this material, and prices are so low that it does not pay for Fleischman to handle it, although they still stick to it and work hard at that.

The last meeting of the Florists' Club for the year was held on December 9 and attended by about 25 members. The attendances during the past year have been very poor, and the payment of dues unsatisfactory, so it was decided that the executive committee should look over the membership list and decide who should remain. At present there are over 150 members on the books, but many of them take no interest in the affairs of the Club--do not even pay their dues. At the first regular meeting next year the committee will report, and arrangements will be made for the entertainment of members in the future.

E. C. REISEMAN.

Our Chrysanthemum Number.

Please accept thanks for your number, just at hand. The "Chrysanthemum Review, 1897" is excellent and unsurpassed. RUFUS W. SMITH.

IOLETS--MARIE LOUISE

If you are coming to town go to Miss Hart's and take a look at my violets, daily shipment from 1000 to 8000 blooms, and judge about my stock. \$1.00 per 100, \$1.50 per 100, and \$2.00 per 100. Cash with order.

Geo. T. Schunckman, Export grower of Violets, BLUE POINT, L. I., N. Y. When Writing Mention Florists' Exchange

Large clumps, out of frame, California, six weeks, and Swanwick W. H. C. \$3.00 per 100.

PANSIES Large plants, \$1.00 per 100. Small plants, \$1.50 per 100. \$2.00 per 100, by mail; \$3.50 per 100, by express.

BELLIS (Daisies), good, stocky plants, \$2.00 per 100. 500 at 100 rates.

J. C. SCHMIDT & CO., Bristol, Pa. When Writing Mention Florists' Exchange

.. Elixir ..

Fertilizer. Is a pure natural product... We invite comparison with all other FERTILIZERS and will give you FREE a LITERATURE... Elxir Fertilizer Co., 107 W. 14th St., New York.

VIOLETS Swanley, \$1.50 per 100; Campbell, \$2.00 per 100; ... ROSEY BROS., Florists, 463 7th AVE., New York.

ASTERS Queen of the market, the Rotne de... Pinks, ... Phlox Drummond dwarf main, 25c per 100; ...

HEALTHY ROOTED CUTTINGS and Pot Plants of Carnations, Violets and Gladiolus Alyssum. Prices furnished for the sale of stock on large lots, 1000 Dayflower Tomato plants, 3 in. pots, 6 to 8 inches high from top of \$1.00 per 100.

E. J. GLOD, L. B. 32, Avondale, Pa.

WE MUST HAVE ROOM.

GERANIUMS. All best varieties, \$1.25 per 100. ... Ageratum, Blue and White, 60 cts per 100, by mail, Cash with order.

C. A. HARRIS & CO. Delanson, N. Y.

KLONDKE

Gold Fields at Your Door.

GERANIUMS...

Grown in soil in flats, ready to shift into 3 inch pots \$1.00 per 100. ... Standard sorts, such as Double Grand, Brantini, La Fayette, La Fayette, Le Petit, Gloire de France, Hoff Heide, Wonder, Mrs. J. C. Starr, Jules Ferry, Centaurea, and others, \$1.00 per 100; 2 1/2 inch pots, \$1.50 per 100. More Geraniums, in flats, \$2.00 per 100. Mountain snow, in 2 1/2 inch pots, \$2.50 per 100.

FUCHSIAS...

Standard sorts, \$1.50 per 100; \$2.00 per 100.

FEVERFEW...

Little Gem, \$1.00 per 100; \$1.50 per 100. Other varieties, from 75c. ... J. E. FELTHOUSEN, Schenectady, N. Y. When Writing Mention Florists' Exchange

We can print it for you, and the work will be done and delivered on time. We have the experience and every facility at our disposal. First class. Best served.

A. T. Deane & Mare Ptg. & Pub. Co., Nos. 2 to 8 Duane Street, New York.





**J. K. ALLEN,**  
Wholesale Commission Dealer in  
**CUT FLOWERS,**  
57 W. 28th Street, New York.  
Orders by mail or telegraph promptly attended to.  
Telephone Call, 332 28th St.  
**ROSES AND VIOLETS SPECIALTIES.**

**W. S. ALLEN,**  
17 West 28th St., New York.  
Correspondence Solicited.

**J. B. EZEHEL,**  
Wholesale Florist,  
42 West 28th St., NEW YORK.  
Telephone 2733-18th.  
Asparagus, Vases, Carnations,  
Specialties, 3% Consignments Solicited.

**FORD BROS.**  
WHOLESALE FLORISTS,  
111 West 30th Street,  
NEW YORK.  
Consignments Solicited. Telephone 202 30th St.

**WM. H. GUNTHER,**  
Wholesale Florist  
VIOLETS AND CARNATIONS A SPECIALTY.  
Consignments Solicited.  
30 West 29th St., New York.  
Telephone, 230-28th Street.

**MICHAEL A. HART,**  
Wholesale & Commission Florist,  
113 W. 30th St., New York.  
Telephone Call, 1307 30th St.  
All kinds of Roses, Violets and Carnations  
Specialties.  
**ORDERS PROMPTLY ATTENDED TO.**

**H. A. HOFFMANN,**  
Wholesale Florist  
44 W. 29th St., New York.  
Telephone Call, 1553 30th St.  
American Beauties, White Violets, Adamants,  
Specialties. **CONSIGNMENTS SOLICITED.**

**EDWARD C. HORAN,**  
Wholesale Florist  
No. 34 W. 29th St., New York.  
The Bride, Mermet and American Beauty,  
Specialties.

**J. M. KING,**  
Wholesale Commission Florist,  
49 W. 29th St., NEW YORK CITY,  
Wishes to inform growers and others that he has  
enlarged his place to three times its former size,  
and is now able to handle a much larger quantity  
of stock than before.  
**CONSIGNMENTS SOLICITED.**  
Telephone 167-52th

**JULIUS LANG,**  
Wholesale Florist  
53 WEST 30th ST.  
Consignments Solicited. NEW YORK.

**ERNEST C. ASMUS**  
Wholesale Florist.  
**ROSE SPECIALTIES:**  
Am. Beauty, Free Carnation,  
Bridemaid, Mermet,  
Testout, K. A. Victoria  
**VIOLETS, ORCHIDS, CHRYSANTHEMUMS**  
AND CARNATIONS.  
Grower of the only VALLBY receiving a N.Y. CUTFLOWER CO.  
World's Fair Medal. 110-121 W. 23d St.,  
Special attention given to shipping orders. 112-114 W. 24th St., N.Y.  
When Writing Mention Florists' Exchange

A. L. VAUGHAN. CHAS. W. MCKELLAR. E. F. WINTERSON  
**VAUGHAN, MCKELLAR & WINTERSON,**  
**WHOLESALE COMMISSION JOBBERS**  
in Cut Flowers, Plants, Bulbs, Seeds, Xmas Holly, Bouquet Green,  
and all Florists' Supplies. Manufacturers of Wire-work.  
45, 47, 49 WABASH AVENUE, CHICAGO, ILL.  
When Writing Mention Florists' Exchange

Wholesale Prices of Cut Flowers

NAMES AND VARIETIES.	NEW YORK	BOSTON	PHILADELPHIA	CHICAGO	ST. LOUIS
	Dec. 17 1897	Dec. 14, 1897	Dec. 16, 1897	Dec. 16 1897.	Dec. 15, 1897
A Beauty, fancy and special extra	35.00 to 65.00	25.00 to 45.00	40.00 to 55.00	60.00 to 100.00	50.00 to 75.00
No. 1.	20.00 to 30.00	15.00 to 25.00	25.00 to 35.00	40.00 to 50.00	30.00 to 40.00
Calla and ordinary.	3.00 to 6.00	3.00 to 6.00	3.00 to 6.00	3.00 to 6.00	3.00 to 6.00
Bernart, cut flower.	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
2.0 to 4.00	6.00 to 10.00	4.00 to 8.00	6.00 to 10.00	8.00 to 12.00	6.00 to 10.00
Bridemaid.	2.00 to 4.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
K. A. Victoria.	2.00 to 4.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
L. Franco.	2.00 to 4.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
Mermet.	2.00 to 4.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
Mrs. P. Morgan.	3.00 to 6.00	2.00 to 4.00	3.00 to 6.00	4.00 to 8.00	3.00 to 6.00
Niphoth. Hoels.	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
Paris (cut).	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
Perle.	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
Roy de Woodstock.	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
St. Louis.	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
Waltville.	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
AGARANTHUS.	60.00 to 100.00	40.00 to 60.00	60.00 to 100.00	80.00 to 120.00	60.00 to 100.00
A PARASIS.	10.00 to 20.00	5.00 to 10.00	10.00 to 20.00	15.00 to 30.00	10.00 to 20.00
CHRYSANTHEMUMS.	...	...	...	...	...
Specials.	...	...	...	...	...
All colors, Interior season.	...	...	...	...	...
White.	...	...	...	...	...
STANDARD.	75 to 130	1.85 to 2.00	1.25 to 2.00	1.50 to 2.00	2.00 to 2.50
VARIETIES.	75 to 130	1.85 to 2.00	1.25 to 2.00	1.50 to 2.00	2.00 to 2.50
Yel. & Vari.	75 to 130	1.85 to 2.00	1.25 to 2.00	1.50 to 2.00	2.00 to 2.50
Red.	75 to 130	1.85 to 2.00	1.25 to 2.00	1.50 to 2.00	2.00 to 2.50
White.	75 to 130	1.85 to 2.00	1.25 to 2.00	1.50 to 2.00	2.00 to 2.50
*FANCY.	1.50 to 2.00	1.00 to 1.50	1.50 to 2.00	2.00 to 3.00	1.50 to 2.00
(The highest Pink.	1.50 to 2.00	1.00 to 1.50	1.50 to 2.00	2.00 to 3.00	1.50 to 2.00
grades of Double.	1.50 to 2.00	1.00 to 1.50	1.50 to 2.00	2.00 to 3.00	1.50 to 2.00
and varieties.)	1.50 to 2.00	1.00 to 1.50	1.50 to 2.00	2.00 to 3.00	1.50 to 2.00
Yel. & Vari.	1.50 to 2.00	1.00 to 1.50	1.50 to 2.00	2.00 to 3.00	1.50 to 2.00
NOVELTY.	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00
CUTTERS.	8.00 to 12.00	12.00 to 15.00	10.00 to 15.00	15.00 to 20.00	10.00 to 15.00
CHRYSANTHEMUMS.	8.00 to 12.00	12.00 to 15.00	10.00 to 15.00	15.00 to 20.00	10.00 to 15.00
THESE.	1.00 to 4.00	1.00 to 4.00	1.00 to 4.00	1.00 to 4.00	1.00 to 4.00
LONGIFOLIUM.	1.00 to 4.00	1.00 to 4.00	1.00 to 4.00	1.00 to 4.00	1.00 to 4.00
LEAF OF THE VALLEY.	1.00 to 4.00	1.00 to 4.00	1.00 to 4.00	1.00 to 4.00	1.00 to 4.00
MORNING.	1.00 to 4.00	1.00 to 4.00	1.00 to 4.00	1.00 to 4.00	1.00 to 4.00
NARCISSES, PAPER WHITE.	1.00 to 4.00	1.00 to 4.00	1.00 to 4.00	1.00 to 4.00	1.00 to 4.00
BROWN HYACINTHS.	1.00 to 4.00	1.00 to 4.00	1.00 to 4.00	1.00 to 4.00	1.00 to 4.00
SMILLS.	8.00 to 10.00	10.00 to 12.00	10.00 to 12.00	10.00 to 12.00	10.00 to 12.00
VIOLETS.	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00	1.00 to 2.00

For Prices of Fancy and Special Stocks see our Correspondence Columns.  
Prices are for quantities of one hundred unless otherwise noted.  
Prices quoted above are given only after very careful inquiry, and while we do not guarantee their accuracy, they will be found practically correct up to the date mentioned.

**REINBERG BROS.,** Wholesale Growers of Cut Flowers. . . . . 500,000 Feet of Glass. . . . .  
We can fill all orders on short notice with all leading varieties of **ROSES and CARNATIONS.** We are headquarters for fine **AMERICAN BEAUTIES.** Give us a trial and convince yourself.  
**SALESROOM 51 Wabash Avenue, CHICAGO, III.**  
When Writing Mention Florists' Exchange

**SAMUEL S. PENNOCK.**  
**WHOLESALE FLORIST,**  
The name of our street has been changed and, with an additional room of the adjoining building, our address is  
**1612-14-16 Ludlow St., Bet. Chestnut & Market Sts., Philadelphia, Pa.**  
Local and Long Distance Phone 5216, Open until 8 P. M.  
When Writing Mention Florists' Exchange

**W. H. A.**  
Decidedly the best selling WHITE Carnation on the market. All retail florists in Boston order it as such. We can fill orders for cut blooms on Mondays, Wednesdays and Fridays.  
**CITY HALL CUT FLOWER MARKET, WELCH BROS., 15 Province St., Boston, Mass.**  
When Writing Mention Florists' Exchange

**MacDonald & McManus,**  
Wholesale Florists  
AND DEALERS IN  
**CUT FLOWERS,**  
50 W. 30th St., NEW YORK.  
Solely shipments of Cut Flowers on Commission. Best market prices guaranteed.  
Telephone, 373-58th Street.

**FRANK MILLANG,**  
Wholesale Commission Dealer  
...in Cut Flowers...  
408 East 34th St., New York City.  
Cut Flower Exchange, Telephone Call, 304-25th

**THE NEW YORK CUT FLOWER CO.**  
119-121 West 23d Street,  
112-114 West 24th Street,  
Telephone 72-18th. NEW YORK.  
CONSIGNMENTS SOLICITED.  
Special Attention Given to Shipping Orders.

**M. F. SHERIDAN**  
Wholesale Commission Dealer in  
**CUT FLOWERS**  
339 West 25th St., New York.  
Telephone 314-25th St.  
**PRICE LIST SENT ON APPLICATION.**

FRANK H. TRANDY. CHARLES SCIENCE.  
**TREANDLY & SCHENCK,**  
Wholesale Florists,  
38 W. 28th St. and CUT FLOWER EXCHANGE,  
NEW YORK.  
Telephone 981-18th St.  
3% Consignments Solicited

**JOHN YOUNG,**  
Wholesale Florist,  
51 WEST 28th ST.,  
NEW YORK.

**FRANK S. HICKS,**  
Wholesale Florist,  
40 BOERUM PLACE,  
Tel. 125 Brooklyn Brooklyn, N. Y.  
Consignments Solicited.

**ILLINOIS CUT FLOWER CO.,**  
J. B. DEAMUD, Mgr.  
Wholesale Florists.  
Consignments of Fancy Stock Solicited.  
51 and 53 Wabash Avenue, CHICAGO.

**KENNIGOTT BROS. COMPANY,**  
Wholesale - Cut - Flowers,  
88 Wabash Avenue,  
CHICAGO, ILL.  
WIRE WORK A SPECIALTY.

**ROGERS PARK FLORAL CO.,**  
Wholesale Growers of Cut Flowers  
OFFICE AND SALESROOM  
41 WABASH AVE., CHICAGO.  
Headquarters for AMERICAN BEAUTIES.  
When Writing Mention Florists' Exchange

**Wholesale Florists**  
ALWAYS HANDY!  
CORNETS, BRUSHES, BOWLS.  
*N. F. Hawley*  
**FLORIST'S SUPPLIES.**  
**FLORISTS' VASES.**  
Wholesale and Retail.  
64 HAWLEY STREET, BOSTON.

**GEO. A. WETHERLAND,**  
SUCCESSOR TO Wm. J. STEWART,  
**CUT FLOWERS and FLORISTS' SUPPLIES**  
**WHOLESALE.**  
67 Bromfield St., Boston, Mass.

**WM. J. BAKER,**  
**Wholesale Florist,**  
1432 So. Penn Square,  
PHILADELPHIA, PA.

**DUMONT & CO.,**  
**WHOLESALE FLORISTS**  
CARNATIONS A SPECIALTY.  
No. 1305 Filbert St., Philadelphia.  
Phone 3922 D.

**S. FROWERT,**  
**Wholesale Florist,**  
17 North 13th Street,  
PHILADELPHIA, PA.  
Consignments Solicited. Special Attention Given to Shipping Orders.

**CHAS. H. MILLER,**  
**Wholesale Florist**  
No. 6 So. 19th Street,  
PHILADELPHIA, PA.

**EDWARD REID,**  
**Wholesale Florist**  
1526 RANDELL STREET,  
Bet. Market & Chestnut Sts., PHILADELPHIA.  
All CUT FLOWERS in Season.  
Phone 866 A.

**WM. C. SMITH,**  
**Wholesale Florist,**  
40 S. 16TH ST.,  
PHILADELPHIA.  
Roses, Carnations, etc. Consignments Solicited.

**MAX RUDOLPH,**  
**Wholesale Florist**  
All Seasonable CUT FLOWERS.  
**FINE ROSES.**  
Shipping orders a specialty. Consignments Solicited.  
W. 12th St., CINCINNATI, O.

**H. L. UNDERBRUGH CO.,**  
**Wholesale Commission Florists,**  
4th and Walnut Streets,  
CINCINNATI, OHIO.  
Consignments Solicited. Special Attention Given to Shipping Orders.

**Boston.**  
**Weather and Market Conditions.**  
Free raw material for the ice men has been furnished in great abundance lately, with other people. But the halcyon Spring atmosphere, is not conducive to good business with the florists any more than with other people. But the cloudy weather has shortened up the output, and the offerings are generally taken up pretty clean at slightly advanced prices. Good Wintry weather is longed for by the retailer and sunshine by the grower. The city wintering season may be said to have practically ended. There is not much change in the rose and carnation market except the advance in price of the former. Violets still hold at \$1 per 100, and are a little more plentiful, but the quality generally is poor. Great expectations are being indulged in for the holidays. Holly and Christmas greens are in good demand; but orders are coming in to the dealers plentifully, and the stocks are taken up at present as fast as it arrives.  
At the Massachusetts Horticultural Society's rooms on Saturday, Henry Clinkaberry, gardener to Hon. C. G. Reelberg, received a silver medal for a well-fledged specimen of a fine new carnation—C. Leeanun Clinkaberryannum.

**A National Guild of Flower Growers.**  
A meeting for the preliminary organization of the National Guild of Flower Growers was held at the Market House on Saturday afternoon last, about thirty gentlemen from different sections of New England, present. The objects of the association are the advancement of the principle of co-operation in the growing, marketing of supplies and selling of products; the aiding and encouraging of exhibitions, floral festivals, fairs, etc., for the purpose of advancing the interest of the trade; the influencing of legislation in the interests of the flower growing industry; the promoting of fraternity among members; protection of members against irresponsible parties either buyers or sellers; the giving of good legal advice at a low cost; the organization of a company under the auspices of the guild for dispensing relief in case of sickness, accident or death; and the organization and chartering of branches to be known as local guilds in the various cities and towns of the country. The next meeting and election of permanent officers will be held in January at a date to be announced later.

**A Trade Exhibition.**  
A trade exhibition held for the purposes of allowing the growers or distributors of new late specialties to exhibit same, was held on Saturday at the flower market under the auspices of the New England Florist, with the co-operation of the Boston Co-operative Flower Growers' Association. After the business of the day was completed the stalls were roped off to allow exhibitors to arrange their products for display. A stock of flowers in display, largely carnations, was tabled. No prizes were offered, but many of the exhibitors presented elegant displays of carnations, mostly new ones to be disseminated the coming year among florists and growers. New York (Scott X Daybreak) which is about the color of Bridesmaid, but said to be much more fragrant, was first in flower as Scott. Gold Nugget (Dorner) bright yellow, with a few dark markings on the petals, was first in color and got a cropper. White Cloud (E. A. Wood X Daybreak) a fine new white with an especially good stem. Mrs. James Dean (Scott X Storm King) light pink, large flower, good stem, and a new one. Joan de Sorel (same on the same seed pod as the preceding, is a very double pure white, fringed, flowers, but resembling Scott's, very dark almost black flower, a cross of Mr. E. A. Wood's Winter Cheer was first in color and got a cropper. Bon Ton, a seedling raised by F. A. Blake, Rhode Island, a very fine, fringed, scarlet flower with a particularly good stem and a remarkably good keeper. The Bon Ton shows rather better than when first shown a year ago. Mr. Ward also exhibited handsome vases of Flora Hill, Scarlet Sable, Flame, Mrs. George M. Bradt, and Lily Dean.

One of the most attractive features of the exhibit was the vase of Peter Fisher's new pink carnation, Mrs. Thos. W. Lawson, which attracts much attention. Mrs. Fisher also showed a new pure white, Morning Star,

**N. B. CHRISTMAS GOODS For Boston Buyers**  
CUT FLOWERS, SUPPLIES, HOLLY, MISTLETOE and all CHRISTMAS GREENS. BEST IN THE MARKET.

Fully Equipped for Cut Flower Consignments and Can Command the Best Market.  
**GALVIN & CO., 4 Ordway Pl., Boston, Mass.**

When Writing Mention Florists' Exchange

which though not of immense proportion, has many good qualities. He also showed Flora Hill and Mrs. George M. Bradt.  
Fatten & Co. made a fine display in the center of which was a magnificent vase of Edith Foster. Other varieties were Victor, Daybreak, Mrs. George M. Bradt, with red sport of same, Emma Wocher, Thomas Cardigan, Eldorado, and King gold. C. A. Dana, Uva, Flora Hill, Wm. Scott, and Klondike.

**C. A. KUEHN,**  
**WHOLESALE FLORIST,**  
1122 Pine St., St. Louis, Mo.  
A COMPLETE LINE OF WIRE DESIGNS.

**St. Louis Cut Flower Co.**  
WHOLESALE FLORISTS,  
1620 Olive St., ST. LOUIS, MO.

He also showed a fine display in the center of which was a magnificent vase of Edith Foster. Other varieties were Victor, Daybreak, Mrs. George M. Bradt, with red sport of same, Emma Wocher, Thomas Cardigan, Eldorado, and King gold. C. A. Dana, Uva, Flora Hill, Wm. Scott, and Klondike.  
H. A. Cook of Shrewsbury, Mass., exhibited a good vase of his seedling Uva which was put out last year, and also seedling No. 1, 34, a double pink flower of large size with long erect stem and, withal, a promising variety.  
Wm. Jones of New York Square, Pa., sent on a vase of Empress, very large and dark with unusually long stiff stem.  
John Farron, Chestnut Hill, Philadelphia, had a large vase of his white seedling.

**C. W. WORS,**  
**Wholesale Florist,**  
313 N. LEFFINGWELL AVENUE,  
ST. LOUIS, MO.  
FINE ROSES—Shipped carefully to all parts of the country.

Fatten & Son showed two large vases of their scarlet seedling, Wellesley, which is to be disseminated the coming Spring. This flower is of good habit and appearance, and the two vases, cut respectively on the Weyburner and 10 showed it to be especially well held in its bright color well.  
H. Grant, of Philadelphia, Mass., exhibited a handsome bunch of his new Crown Shell which promises well.

**Buffalo Cut Flower Exchange**  
**WHOLESALE COMMISSION.**  
CONSIGNEES SOLICITED.  
481 Washington St., BUFFALO, N. Y.  
Telephone, Benson, 1865.

H. E. A. Langes of Worcester, showed a handsome vase of his 1894 variegated seedling Ensign, which made a good appearance.  
Other exhibits of carnations were: W. S. Phelps, Jr., Flora Hill and Lizzie McGowan; Samuel Wheeler, Berlin, Mass., seedling white; Wm. Sims, Edith Foster; A. Hooper, Tewksbury, vase of seedlings, vase of Major Whitley (new), pink flower with light edge, and a vase of his recently named pink carnation Mayor Quincy, also vase of Edw. Sheppard, a seedling scarlet; J. W. Leach had a vase of Daybreak; Sewall Fisher, Servin, Va., had a new white seedling; Curdick & McDonald, vase of seedlings; M. L. Turpel, Eldorado; E. A. and W. K. Wood, vase of Frisella, a seedling white; Mrs. James C. Melvin, a seedling dark pink; W. C. Stickle & Co., John's Scarlet; Walter Knapp, seedling crimson; Andrew Christensen, Mrs. Fisher.

**HEADQUARTERS** in Western New York, Buffalo, N. Y., for **ROSES, ORNATIONS and ALL SEASONABLE FLOWERS.**  
**WM. F. KASTING,** Wholesale Commission Florist,  
485 Washington Street, BUFFALO, N. Y.  
Also Dealer in Florists' Supplies & Wire Designs

Other exhibits were primroses in pans and polka-hats from George Anderson, some fine specimens of Nephrolepis exaltata, Bostonensis, in large pots from Isaac Foster; exhibit of pills, ferns and decorative plants by W. A. Mauds, North Orange, N. J.; a handsome Bomber rose stock from W. H. Spoocher; L. H. Strubell and Lily of the valley from W. W. Rawson & Co.; collection from F. Long, violets from Edward Wood, F. S. Esty and J. H. Leach; and an especially attractive bunch of Princess de Galles violets from Chas. Cummings, Esq. (Wm. Spillbury, gardener); magnoliae from E. N. Pierce & Son.

**E. G. HILL & CO.,**  
**Wholesale Florists**  
RICHMOND, INDIANA.  
When Writing Mention Florists' Exchange

It is rather late for exhibition chrysanthemums, but William Nicholson showed some very fine ones. S. J. Murdoch and Maud Dean; W. Sims some good Major Bonifant, and E. G. Hill & Co., representative of H. Little, had a fine vase of the new Japanese incurved variety, Christinas Gift.  
Victors connected with the trade were present from various sections of New England and New York, viz.: Mr. W. W. Lawson, Mrs. Ward, Allen, Dullandene, and Asmus.

Camden, N. J.  
William Zane, while at work on a greenhouse last week, fell through the sash and had his leg fractured.  
West Brookfield, Mass.  
Wass & Brown, florists, have established branch agencies at Warren, North Brookfield and Brookfield.

## GREEN-HOUSE CONSTRUCTION.

This has been a specialty with us for many years and to us due the credit for many of the great improvements that have been made in the construction of wooden green-houses. To those that buy our

### Clear Cypress Building Material

we furnish, free of cost, complete detail drawings from which any intelligent workman can put up the material correctly. We have plenty of time to write letters ABOUT OUR BUSINESS, and we will be glad to hear from those contemplating building.

Write for Circulars or Estimates.

**LOCKLAND LUMBER CO.**  
LOCKLAND, OHIO.

When Writing Mention Florists' Exchange

## REED & KELLER FLORISTS' SUPPLIES

122 W. 25th Street,  
NEW YORK CITY.

When Writing Mention Florists' Exchange

## CLEAR GLASS CALLED PLATE HEADQUARTERS,

JOHN LUGAS & CO., Philadelphia.

When Writing Mention Florists' Exchange

## TOBACCO DUST

Offering to a large supply on hand at present we will furnish the trade at \$1.00 per 100; \$4.00 per 1000; \$8.00 per 2000; \$15.00 per 3000. Cash with order. Send for our Wholesale Catalogue on the East River, New York, 100 other varieties. **THOMPSON'S SONS, Rio Vista, Va.**

When Writing Mention Florists' Exchange

## GLASS FOR GREENHOUSES, CONSERVATORIES, GRAPERIES, HOTBEDS AND FLORISTS' USE GENERALLY, AT LOWEST RATES.

**L. HARRIS & SON,**  
497 W. BROADWAY, NEW YORK, 90 LIBERTY ST., NEW YORK  
Bld. Menzies and Bunker Sts.

When Writing Mention Florists' Exchange

## Standard Flower Pots.

Send for our New Price List with extra discounts. All our Pots, from 7 in. and upwards, have jar Patent Excelsior Bottom, which is a great advantage, as it insures perfect drainage.

A FULL LINE OF BULB PANS.  
**THE WILLIAMS POTTERY CO., 715 to 719 Wharton Street, PHILADELPHIA**  
BRANCH HOUSES: 125 Kearny and Waterloo Aves., Jersey City, N. J.  
125 Jackson Ave. and Pearson St., Long Island City, N. Y.

When Writing Mention Florists' Exchange

SEND FOR OUR NEW CATALOGUE, WHICH SHOWS

## The New Automatic Cable Ventilator

As it is put up in the house complete. We also give prices with a guarantee that each machine set up will operate your house successfully. Soil machines now made in two sizes.

**A. Q. WOLF & BRO., Dayton, Ohio.**

When Writing Mention Florists' Exchange

## FLOWER POTS

We are manufacturing a Full Line of STANDARD FLOWER POTS and HANGING BASKETS OF THE BEST QUALITY.

Shipping Facilities First-Class, thereby Securing Lowest Freight Rates. Our goods are well packed, and breakage is nominal. Give us a trial. Send for Price List.

address **THE SYRACUSE POTTERY CO., 463 N. SALINA ST., SYRACUSE, N. Y.**

When Writing Mention Florists' Exchange

## "JADO" JADO LIQUID

Plant Your Spring Bulbs in JADO FIBRE JADO LIQUID Water Them With

We will offer **CASH PREMIUMS** of grow in JADO that win scheduled

Send for List of 1897 Prize Win

**THE AMERICAN JADO CO.**

386 for all plants  
250 Particulars.  
At Ave., Philadelphia, Pa.  
ange

### Baltimore.

**The Market.** Owing to the continued cloudy and rainy weather, stock has neither been good in quality nor plentiful. Trade in consequence has been very quiet. Violets are scarce and prove good salable stock. Carnations, also, are not over-plentiful.

**The Club.** A well-attended meeting of the Club was held Monday, December 13. Upon invitation, a number of our brethren from Washington and vicinity, to tell us their grievances in regard to the free distribution of cut flowers and plants by some of the government floriculturists. Among the visitors were: Messrs. Freeman, Hale, King, Boyle, Bowler, and Wood. Mr. Freeman's forcible address told us the conditions of affairs at Washington. He stated that he and his colleagues were not attacking any individuals, but methods.

Messrs. Hale, Woods, Boyle, and King corroborated the statement of Mr. Freeman. The Baltimore Club, by a unanimous rising vote, passed the subjoined resolution. Never in the history of this Club has such enthusiasm been manifested as in the condemnation of the practice which is so hurtful and so unfair. Every member of the florists' trade who contemplates a fight with all the vigor he possesses, this unjust competition.

Where does this S. F. A. O. H. stand on this question? We were surprised at the absence from the meeting of the genial president, Wm. F. Gade, who in his official capacity could surely make his influence felt in this matter; and I am positive that there would be but few members of our national society that would not support him in any steps he might take in this relation.

The following resolution was passed by the Gardeners' Club: Resolved, That this organization reprobates that practice of the existing, and still further growing, practice of the free distribution to officials and private persons, of cut flowers, decors and flowering plants in the District of Columbia by the sub-department of United States Greenhouses, as contrary to justice, to the correct principles of business and to public policy, as well as the very letter of the law governing the production of the plants, etc., adapted to assess the public account, and also as working a great detriment to the florist trade of Washington and vicinity.

(Signed) EDW. A. SEIDENWITZ,  
Wm. McROBERTS,  
FRED. G. BURGER.

Copies of the resolution were ordered to be sent to the Secretary of Parliament to C. Bingham.

It may be stated here that Mr. Freeman quoted a law covering an appropriation, and forbidding the growing of any plants except those adapted for park ornamentation. This law was passed in 1879.

**Note.** One of our large cut flower establishments is shipping stock to Philadelphia. P. Berkowitz, Philadelphia, made a flying visit to Baltimore last week.

**Grand Rapids, Mich.** The regular meeting of the Florists' Club was held December 7. Mr. George F. Crabbs read a paper on new chrysantheums which was listened to with marked attention. He stated that Western King was the best late white. The paper was critically discussed by the members and the question was asked, Does it pay to grow very late varieties? All seemed of the opinion that it did not, as most all of the growers filled their houses with earlier varieties and to have them planted with late varieties of chrysantheums would make it too late for the carnations to get any kind of a start before the holidays.

Mr. Hanna will read a paper on "Christmas Flowers—What is best to grow and which are the most salable and profitable?" The annual meeting and election of officers occurs January 4.

**New Haven, Conn.** John Roman, for many years salesman for R. Vetch & Sons, from which position he was forced to resign about two years ago, by an attack of Bright's disease, died December 1. He leaves a widow and six children.

### EVERY FLORIST OUGHT TO INSURE HIS GLASS AGAINST

For particular address  
**JOHN G. ESLER, Sec'y, 844½ Race, Phila., Pa.**  
When Writing Mention Florists' Exchange

### MANURE

Fresh and well rotted horse manure. Manure for Mushroom growing a specialty. Excellent for apple by Peck, R. K. & Co., B. G. & Co. and by host. Write for Address.

FOR SALE BY Seed Stores. For Free Samples, write to LORETTA'S TOBACCO CO. Louisville, Ky.

**THE BEST FOR ALL Florists.**

**ROSE LEAF EXTRACT OF TOBACCO**

When Writing Mention Florists' Exchange

### TOBACCO DUST

90 cts. per 100 lbs.; \$4.00 for 500 lbs.; \$12.00 for one ton.

Spruce Compacta, M. G. & Co., \$6.00 per 100. Lemon Oil, Nikesoon, etc., etc. Full price of Florists' Supplies.

**GRIFFITH & TURNER CO.**  
208 to 209 North Pa. St., BALTIMORE, MD.

When Writing Mention Florists' Exchange

SAVE THE BLOOMS! **NIKOTEN** DOES NOT INJURE SENSITIVE PLANTS. USE FOR FUMIGATION OR SPRAYING, INDOORS OR OUT.

200 POUNDS TRUCK OR ONE PHL. INDOTER. ALL TRADES.

Price \$1.50. ALL SIZES.

When Writing Mention Florists' Exchange

### TOBACCO STEMS.

Strong and Fresh, 300 lb. bales, \$1.50 per bale.

**TOBACCO DUST, \$1.00 per bag, 50 lbs.**

MUSHROOM SPAWN, BULBS, Etc., at lowest prices.

**H. G. FAUST & CO., 54 & 60 N. Front St., Philadelphia, Pa.**

When Writing Mention Florists' Exchange

### STANDARD FLOWER POTS

In any quantity, and of the best quality. Get my price list before ordering elsewhere.

**W. H. ERNEST, Station M., Washington, D. C.**

When Writing Mention Florists' Exchange

### SHEEP MANURE

Cleaned and prepared expressly for florists' use. You will find it the genuine article. For reference to the best quality, apply to Rensselaer P. Michel, 1113 Market Street, Phila., Pa. Trial bags of 50 lbs. at \$1.50 per cwt. Cash with order.

Hortensia Rooting in exchange.

**CODFREY ASCHMANN, 1012 Ontario St., PHILA., PA.**

When Writing Mention Florists' Exchange

### STANDARD POTS.

We are now ready to supply a superior quality of Pots in unlimited quantities. Catalogues and price lists furnished on application.

**A. H. HEWS & CO., NORTH CAMBRIDGE, - MASS.**

When Writing Mention Florists' Exchange

**KILL IT!** KENTUCKY EXTRACT OF TOBACCO. Harmless to the Plants. KILLS YOUR BUGS. GIVE IT YOUR BUGS.

Is one Fumigation. For free pamphlet write to The Kentucky Extract Co., Columbus, O. FOR SALE BY NEED STORES.

When Writing Mention Florists' Exchange

LORD & BURNHAM CO.,

Horticultural Architects and Builders Steam and Hot Water Heating Engineers.

(Established 1856.)

Plans and estimates furnished on application for Greenhouses, Conservatories, and all kinds of Horticultural Buildings, erected complete with our patent iron construction; or for materials only, ready for erection.

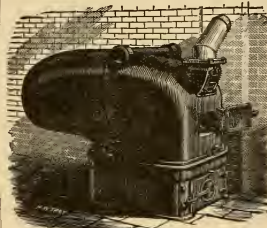


Largest Builders of Greenhouse Structures. Plans and construction embrace latest improvements. Six highest awards of the World's Fair. . . . Send four cents postage to New York office for latest catalogue. . . . NEW YORK OFFICE: 160 FIFTH AVE., COR. 21ST ST. GENERAL OFFICE AND WORKS: IRVINGTON-ON-HUDSON, N. Y.

When Writing Mention Florists' Exchange

GREENHOUSE HEATING AND VENTILATING,

Horticultural Architecture and Building.



Mention paper

Pitchings & Co

ESTABLISHED 1844.

233 Mercer Street, NEW YORK.

FIVE PATTERNS OF BOILERS.

NINETEEN SIZES.

Perfect Sash Raising Apparatus.

Reechnouses, Greenhouses, Etc., of Iron Frame Construction erected complete or the structural Iron Work shipped ready for erection.

Iron Frame Boches with the "Perfect Drainage Bench Tie" or Slate Tops.

SEND 4c. POSTAGE FOR ILLUSTRATED CATALOGUE.

MASTICA FOR GLAZING GREENHOUSES.

A substitute for putty. Superior in every way. . . . Manufacture of Mastic Glazing Machines were given Highest Award of S. A. F. at Pittsburgh. Address for circular, F. O. PIERCE CO., 170 Fulton St., New York.

When Writing Mention Florists' Exchange

MYERS & CO.,

Greenhouse Builders,

Steam and Hot Water Engineers,

1614-1620 S. Ninth St., Philadelphia.

When Writing Mention Florists' Exchange



Evans Improved Challenge

Roller bearing, self-oiling device, automatic stop, and the chain makes the IMPROVED CHALLENGE the most perfect apparatus in the market.

Write for catalogue and prices before placing your orders elsewhere. Quaker City Machine Co., RICHMOND, IND.

When Writing Mention Florists' Exchange

SUMMER IN WINTER

By Using Standard Greenhouse Boilers

One cent gets our Catalogue.

GIBLIN & CO., - Utica, N. Y.

When Writing Mention Florists' Exchange

VALVES and FITTINGS

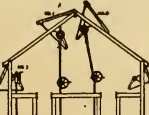
For Pipe and Tubing, VENTILATING APPARATUS.

COLDWELL-WILCOX CO., Newburgh, N. Y.

When Writing Mention Florists' Exchange

STANDARD VENTILATING MACHINE.

NONE EQUAL IT IN Strength AND Durability



NOTHING Fimsy OR Complicated about it.

E. HIPPARD, YOUNGSTOWN, OHIO.

When Writing Mention Florists' Exchange

GLASS! GLASS!

For Greenhouses, Conservatories, Graperies, Hotheds and all other purposes, at Lowest Rates. N. COWEN'S SON, 392 & 394 West Broadway, New York, Formerly 184 and 186 So. Fifth Avenue.

Get our Figures before buying Glass. Estimates Freely Given

When Writing Mention Florists' Exchange

DON'T SYRINGE WITH COLD WATER

It lowers the vitality of your stock, but write for particulars of my Tempering Apparatus HENRY W. GIBBONS, 134 LIBERTY STREET, NEW YORK.

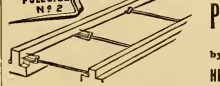
When Writing Mention Florists' Exchange

CALIFORNIA RED CEDAR Never Decays.

A. DIETSCH & CO. 619 Sheffield Avenue, CHICAGO.

MANUFACTURERS OF RED CEDAR and CYPRESS GREENHOUSE MATERIAL.

When Writing Mention Florists' Exchange



FULL SIZE, PAT. NOV. 17 1895, No. 2

THE VAN REYPER

PERFECT GLAZIERS' POINTS

No rights or lefts. Prices per box of 1000, 60c. by mail, 75c.; in lots of 6000 by ex., 65c. per 1000

HENRY A. DREER, 714 Chestnut St., Phila., Pa.

When Writing Mention Florists' Exchange

The Scollay Boiler GREENHOUSE HEATING, ETC.

Hot Water or Steam.

"FARMINGTON, Conn., March 9, 1896.

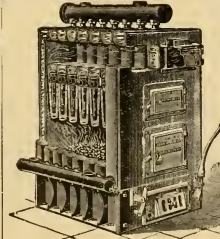
"The Invincible Boiler you placed in my Cerection houses has given great satisfaction. I did not have to run the boiler hard even when the thermometer stood 15 degs. below zero. It has proved 'invincible' in every respect.

HUGH CRESSNEY, Florist."

Send Stamp for Catalogue and Price List. Estimates Cheerfully Given.

JOHN A. SCOLLAY, 74 and 76 Myrtle Ave., Brooklyn,

231 Water St., New York.



"INVINCIBLE."



CYPRESS GREENHOUSE MATERIAL

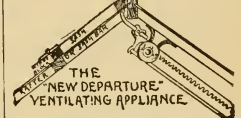
OF ANY DESCRIPTION.

SEND FOR CATALOGUE.

When Writing Mention Florists' Exchange

A GOOD SASH LIFT

For a Very Little Money Get



THE NEW DEPARTURE VENTILATING APPLIANCE.

For Descriptive Catalogue Send to J. D. OARMODY, Evanaville, Ind.

When Writing Mention Florists' Exchange

CYPRESS IS MUCH MORE DURABLE THAN PINE. CYPRESS SASH BARS UP TO 32 FEET IN LENGTH OR LONGER. GREENHOUSE AND OTHER BUILDING MATERIAL. Send for our Illustrated Book 'CYPRESS LUMBER AND ITS USES' Send for our Special Greenhouse Circular. THE T. STEARNS Lumber Co., Neponsetts, BOSTON, MASS.

When Writing Mention Florists' Exchange

TRADE GREENHOUSES. THE BEST MADE.

"Florists" Get Your Plans and Estimate from

PLENTY'S HORTICULTURAL WORKS,

148-156 Randall Ave., JERSEY CITY, N.J.

When Writing Mention Florists' Exchange

# GUARANTEED HOLLY SAVE 50% DUTY

THE BEST HOLLY IN THE NEW YORK MARKET.

If you want something **Extra Fine**, send in your order, before we are entirely sold out. Price per case, 16 cubic feet, \$65.00; per two cases \$9.00.

TELEGRAPH FOR PRICES FOR LARGER LOTS.

**BOUQUET GREEN**, \$7.00 per 100 lbs. **WILD SMILAX**, \$3.00 per case.  
**RED IMMORTELES**, **YELLOW IMMORTELES**,  
\$3.75 per doz. \$2.00 per doz.

**STUMPP & WALTER CO., 50 Barclay Street, New York.**  
When Writing Mention Florists' Exchange

**ASPARAGUS PLUMOSUS NANUS**, Cut Strling, 8 to 10 feet long  
50 cts. each.  
Shipped to any part of the country.  
**W. H. ELLIOTT, - Brighton, Mass.**  
When Writing Mention Florists' Exchange

**HARDY FERNS**  
WARRANTED FIRST QUALITY.  
SPECIAL ATTENTION PAID TO QUALIFYING  
WHOLESALE DEALERS.  
Write for Prices.

**BOUQUET GREEN, SPHAGNUM MOSS, CHRISTMAS TREES,**  
Etc., Etc., Etc.  
**L. B. BRACUE, - HINSDALE, MASS.**  
OLDEST, LARGEST, AND MOST RELIABLE DEALER IN THE UNITED STATES  
When Writing Mention Florists' Exchange

## ORDER NOW FOR... CHRISTMAS DECORATION.

Best English Mistletoe, Fine Delaware Holly, cases 16 cubic feet, Lycopodium in crates, 100 lbs., Laurel and Hemlock Roping, Wreaths, etc.

FOR PRICES, ADDRESS

**C. H. JOOSTEN, 193 Greenwich St., N. Y.**  
When Writing Mention Florists' Exchange

Place Holiday Orders for Kelsey's Brilliant Green and Bronze

## GALAX LEAVES and LEUCOTHOE SPRAYS

NOW and avoid the coming rush. FINEST LEAVES and PACKING.

PRICES

**GALAX**, large or small, either color, per 1000, \$1.00; 5000 lots at 75 cts. per 1000.

**LEUCOTHOE SPRAYS**, per 100, 75 cts.; per 1000, \$6.00.

Wholesalers Supplied at Very Special Rates. I am Packing Original Assorted Cases for Florists, as follows:

**CASE A - 5000 Galax**, assorted sizes and colors, for \$3.75, additional for \$5.00.

**CASE C - 10,000 Galax**, assorted sizes and colors, \$1.50.

**Terms Cash**. Shipments from Boston or North Carolina. Give explicit shipping directions, otherwise I use best judgment. Telegraph orders save time. Order one or more cases as above; or in very large cases. Galax by thousands, either color or size. Leucotloe Sprays by hundreds or thousands. Samples and full information free.

Address all communications to the Introducer,

**HARLAN P. KELSEY, 1123 Tremont Bldg, Boston, Mass.**

When Writing Mention Florists' Exchange

GALAX LEAF.  
Much reduced.

When Writing Mention Florists' Exchange

ON METAL FLORAL DESIGNS

PREPARED CYCAS PALM LEAVES

ALL FLORISTS' SUPPLIES SECOND TO NONE. WRITE FOR CATALOGUE.

**A. HERRMANN, 404, 406, 408, 410, 412 East 34th Street, New York City.**

Manufacturer of METAL FLORAL DESIGNS, Importer and Dealer in FLORISTS' SUPPLIES.  
When Writing Mention Florists' Exchange

## Florists' Supplies.

Largest Stock in the Country.

All goods up to date, and of superior quality.  
Write us for prices and other information.

Our new Catalogue sent on application to the trade only.

**H. BAYERSDOERFER & CO., 56 N. Fourth Street, Philadelphia, Pa.**  
When Writing Mention Florists' Exchange

## HOLLY MISTLETOE and all kinds of Decorative Evergreens, best quality guaranteed. Also a complete line of Florists' Supplies, such as Immortelle, Metal Wreaths, Cape-Flowers, etc., etc. Orders furnished promptly at LOWEST PRICES

Write for quotations. **L. J. KRESHOVER, 112 W. 27th St., New York.**  
When Writing Mention Florists' Exchange

## SUPPLIES of all kinds for Florists' stores, greenhouses and for cemetery decorations. Baskets, Polycovers, Planters for the holiday trade. Christmas and Cape Flowers, Christmas greens and plants. Send for new list to

**AUGUST ROLKER & SONS, 208 Bee St., New York.**  
When Writing Mention Florists' Exchange

**DRACAENA SANDERIANA** from 3 in. pots \$5.00 per doz.  
**ANTHERICUM PICTURATUM** from 4 in. pots, \$1.00 per doz; 3 in. pots, 75c. per doz.

**VARIEGATED VINCAS**, from 4 in. pots \$3.00 per 100.  
**C. EISELE, 11th & Jefferson St., Philadelphia, Pa.**  
When Writing Mention Florists' Exchange

When Writing Mention Florists' Exchange

## SMILAX.

Fine string, 1 1/2 cts. Cash with order.

**A. J. BALDWIN, Newark, Ohio,**  
When Writing Mention Florists' Exchange

Orders will be booked now for

## XMAS HOLLY

December shipment. Prices of the above on application. State quantity desired.

**ASPARAGUS ROOTS.** Have a large stock of Asparagus Roots, 2 and 3 years strong. Conover's, Barr's and Palmer's.

**ALEXANDER PULLEN, Milford, Del.**  
When Writing Mention Florists' Exchange

## MISTLETOE

**BENNETT & HALL,**  
161 WEST ST., - NEW YORK.  
Cor. Park Place.  
When Writing Mention Florists' Exchange

When Writing Mention Florists' Exchange

## HOLLY

Well berried, green; can cut either long or short branches to order. Prices are away down, write at once for them. All, Evergreen, Cedar, Peach tree, Strawberry plants, Asparagus, Apple trees. Write for catalogue.

**HARRISON'S NURSERIES, Berlin, Md.**  
When Writing Mention Florists' Exchange

## DECORATIVE STOCK ALWAYS ON HAND.

Dagger and Fancy Ferns Saw Palmetto Leaves  
Hemlock (20 in. bundles) Saw Palmetto Coveas  
Hemlock Roping Long Needle Pine  
Laurel (in stocks) Cabbage Palmetto Leaves  
Laurel Roping Cabbage Palmetto Crowns  
Green Moss Alabama Smilax  
Sphagnum Moss Galax Leaves  
Cycas Leaves (prepared) Ivy Leaves, Florida Moss  
Also preserver of Natural Palms. Immense stock on hand.  
Write for price list of Lantan, Arceuth, and Rhapis Palms.  
Invaluable to the decorator.

**S. J. LIMPRECHT, Florists' Supplies, 141 W. 30th St., New York.**

Estimates on Decorations cheerfully given. Good an Lofly Work.

Tel. Call 82-3429. **DECORATE ONLY FOR THE TRADE.**

When Writing Mention Florists' Exchange



...Dis... porters of...

# ENGLISH MISTLETOE AND HOLLY

Next Shipment Due Monday,

**JOS. HAHN & SON, 21**

American Line, Wire or Write for Prices.  
**ington Street, NEW YORK.**  
Florists' Exchange

# THE FLORISTS' EXCHANGE

We are a straight shoot and aim to grow into a vigorous plant.

A WEEKLY MEDIUM OF INTERCHANGE FOR FLORISTS, NURSERYMEN, SEEDSMEN AND THE TRADE IN GENERAL.

VOL. IX. No. 52

NEW YORK, DECEMBER 25, 1897.

One Dollar Per Year.

## ...ROSES... CRIMSON RAMBLER ROSE.

### Extra Strong Field-Grown Plants for Easter Forcing.

We desire to call the attention of the trade to the great value of this rose as a pot plant for Easter sales. It is one of the showiest and most beautiful of all hardy plants, but also makes one of the most beautiful pot plants for florists' sales, and is particularly adapted for forcing for Easter, having proved one of the most valuable novelties grown for this purpose. A Boston grower realized ten dollars for every plant he had.

We can supply an extra fine lot of extra fine plants for potting and growing on for this purpose, plants four to five feet high, three to four strong canes each, stock in the very best possible shape. These long canes will flower from every joint, and by proper training and winding, the plants can be made of immense size, covered with a perfect mass of bloom. We know of no choicer plant for the Easter trade. Florists who do not supply themselves with a lot of this stock for this purpose will regret it.

Strong, field-grown plants, 3 to 4 canes each, 4 to 5 ft. long, {3 per doz., {20 per 100.

## HYBRID PERPETUAL ROSES.

We also offer an unusually fine stock of the very choicest and most desirable varieties of **HYBRID PERPETUAL ROSES** for growing for pot plants for florists' use for Easter and Spring sales or for out-door blooming. Our stock is unusually strong and cannot fail to please. We can supply the following extra choice sorts, viz.: Mrs. John Laing, Ulrich Brunner, Paul Neyron, Gen'l Jacqueminot, Mme. Gabrielle Luizet, Anna de Diesbach, Margaret Dickson, Magna Charta, Baroness de Rothschild, Co. Baron de Bonsetten, Marshall F. Wilder, Prince Camille de Rohan, Alfred Colomb, etc.

Strong, field-grown plants, extra heavy, \$2.00 per doz., {12.00 per 100.

Send for our Special Price List of Palms and Other Decorative Plants.

**F. R. PIERSON CO., TARRYTOWN-ON-HUDSON, NEW YORK.**

When Writing Mention Florists' Exchange

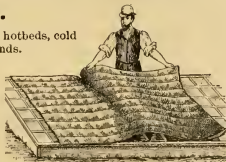
## PALMER'S HOT BED MATS.

### FROST PROOF.

MADE expressly for winter covering of hotbeds, cold frames, plants and seeds of all kinds.

Indestructible, Cheap and Warm

Will not harbor mice or vermin. Easily handled. Dry out quickly after rain. Have now been in practical use three years. Cost less than old-fashioned straw mats and entirely take their place.



### MADE IN FOLLOWING GRADES:

- |  |  |
|--|--|
| No. 1.— <b>Burlap Cloth</b> , filled with combination wool and quilted, seams 3 inches apart and edges firmly bound. | No. 2.— <b>Duck Cloth</b> outside, filled and quilted same as No. 1.                   |
| Size 48x76 inches, 50 cents each.  | Size 48x76 inches, \$0.75 each.  |
| " 76x76 " " 75 " " "   | " 76x76 " " 1.00 " " "   |
| Size 48x76 inches, 50 cents each.  | No. 3.— <b>WATERPROOF</b> , made of oil duck, filled and quilted same as Nos. 1 and 2. |
| Made any length, 76 inches wide, at 12 cents per running foot.   | Size 48x76 inches, \$1.00 each.  |
|  | " 76x76 " " 1.25 " "   |

That these mats are a much needed improvement over anything heretofore used for the same purpose, is demonstrated by the large demand and many testimonials from prominent men in the trade. Everyone who uses Hot Bed Mats should know their a trial.

WE ALSO MAKE **QUILTED HORSE BLANKETS**, the Cheapest, Warmest and Strongest in the World.

**THE R. T. PALMER CO.,** 113 Worth Street, New York.

Or New London, Conn.

When Writing Mention Florists' Exchange

## ROSE HILL NURSERIES.

JUST ARRIVED!

## DRACÆNA CANES

FOR PROPAGATING.

We are the Largest Growers and Importers and Exporters of Dracæna Canes.

- |                          |                           |
|--------------------------|---------------------------|
| <b>Dracæna Amabilis,</b> | <b>Dracæna Regina,</b>    |
| " <b>Braziliensis,</b>   | " <b>Stricta Grandis,</b> |
| " <b>Gladstonciii,</b>   | " <b>Terminalis,</b>      |
| " <b>Norwoodensis,</b>   | " <b>Youngii.</b>         |

All Canes sound and in perfect condition. If ordering equal proportions of each of the above varieties we shall make prices for immediate **DELIVERY** 12 cents per foot. **ORDER AT ONCE.**

**SIEBRECHT & SON, NEW ROCHELLE, N. Y.**

Telephone, 104 N.R.

NEW YORK OFFICE, 409 5TH AVE. Telephone 1742-381H.

When Writing Mention Florists' Exchange

## Four Grand Early Pink Chrysanthemums

**ROSE OWEN.** One of the best very early pink chrysanthemums of recent introduction. Ready late of September to 10th of October. Height, 3½ feet. Clean, neat grower, perfect stems, with bright, waxy foliage well up to the bloom. Color bright clear pink, with incurving petals, large to extra large when well grown. Will bear close planting as foliage is not dense. We offer this variety with much confidence, knowing it will give satisfaction as an early, commercial pink. Every bloom sent to New York market, is snapped up at once by leading florists. Having a fine, clean stock, we shall be prepared to fill large orders. No grower who needs clean, bright, first early pink should neglect Rose Owen. Dozen, 75 cents; 100, \$5.00; 1000, \$41.00.

**J. H. WOODFORD.** A beautiful, large shell pink, shaded to center; high globular form with heavy broad incurving petals, strong stem and fine foliage; extra early. Can be out October 5th to 10th. Crown or terminalis; on crown one color, pure white, 4 ft. A grand early pink to follow Rose Owen. Nothing better in its color for a second early. Dozen, 75 cents; 100, \$5.00.

**GEO. F. ATKINSON.** Clear shell or mermaid pink, high built globular bloom of great substance and largest size. Early flowering immediately after J. H. Woodford. Still stems and splendid foliage. A fine commercial sort, 8½ feet. Dozen, 75 cents; 100, \$5.00.

**BELLE OF CASTLEWOOD.** Rich, enamelled shell pink broad petaled incurving flowers, 4½ to 5 ft. and pleasing shade. Immense bloom on a grand stem with splendid foliage. Too much cannot be said in favor of this variety as it is one of the most choicest and beautiful chrysanthemums in existence. No grower should be without it. Dozen, 75 cents; 100, \$5.00.

## THE BEST TWO VERY LATE WHITE CHRYSANTHEMUMS.

**DOROTHY DEVENS.** Undoubtedly the very best late white. Magnificent show white, largest size globular form, clear delicate flesh, grand stem, rich deep green foliage. December lat to 4th, 3½ to 4 ft. Doz. 75c; 100, \$5.00.

**MRS. R. CRAWFORD.** November 30th to December. Extra large clear white, fine in every way. Flower large and well built; one of the very best. 3 feet. Dozen, 50 cents; 100, \$3.00.

## A GRAND LATE PINK.

**THE HARRIOTT.** Deep Rose, silvery reverse, large bloom of great substance, 8 feet. Ready December lat to 15th. A grand commercial pink. Dozen, 75 cents; 100, \$5.00.

If you need Carnations, Geraniums, Kentias, Boston Fern, &c., write for our Jan. list.

**THE COTTAGE GARDENS, QUEENS, N. Y.**

When Writing Mention Florists' Exchange

# A MERRY CHRISTMAS



And a reminder that we have a few things left after a very successful season.

**Lily of the Valley**, best and grown pipe, suitable for immediate forcing, \$10.00 per 1000; \$24.00 per case (200 pipes).  
**Spiraea Compacta Multiflora**, fine flowering, \$5.00 per doz.  
**Chinese Sacred Lilies**, per basket (50 bulbs), \$1.25; per mat (120 bulbs), \$4.50.  
**THERMOMETERS**  
**Tin Case** (not guaranteed), 8 in., 15c. ea.; 1 1/2 doz. per doz.  
**Tin Case** (not guaranteed), 10 in., 20c. ea.; 2 1/2 doz. per doz.  
**Minimum Registering**, 8 in., each.  
**Sixteen Registering**, 8 inch, boxwood scale, \$2.25.  
**HOTBED MATS**  
**Rye Straw**, size 6 1/2 ft., \$1.00 ea.; \$17.4 doz.  
**Singapore Fibre**, size 6 1/2 ft., \$1.75 ea.; \$20.00 per doz.  
**W.M. ELLIOTT & SONS**, 54 & 56, New York.  
 When Writing Mention Florists' Exchange.

# LILY OF THE VALLEY

The finest in the market, \$12.50 per 1000. Fine, \$10.00 per 1000.  
**CHINESE SACRED LILIES**, 30 in a basket and 4 baskets to a bale, \$30.00 per 1000.  
**LILIUM HARRISII** and **LONGIFLORUM**, still a few left. **Roses**, **Rhododendrons**, **Clematis**, etc., will be in this week.  
**F. W. O. SCHMITZ**, - - - **JERSEY CITY, N. J.**  
 When Writing Mention Florists' Exchange.

# LILY BULBS FROM JAPAN

Fresh Shipment Just Received.  
**Auratum**, **Sp. clesum**, **Rubrum** and **Album**, **Melpomene** and **Tigrinum**.  
**HARDY ROSES** In stock and to arrive. Order now for Spring importation.  
**C. H. JOOSTEN**, Importer, 193 Greenwich St., N. Y.  
 When Writing Mention Florists' Exchange.

# CYCAS REVOLUTA STEMS

Now is the time to order your **CYCAS STEMS** for Spring delivery. We will give you the very lowest prices on early orders, and guarantee extra fine stock.  
**READY FOR DELIVERY**—Auratum, Rubrum, Album, and other Japan Bulbs. **CALIFORNIA FLOWER SEED.**  
**H. H. BERGER & CO.**, 220 Broadway, N. Y. Branch: San Francisco, Cal. (San Francisco Box)  
 When Writing Mention Florists' Exchange.

# LIVINGSTON'S EMERALD CUCUMBER

Is exactly what has been lacking for hothouse and hotbed use. Dark green. Price (postpaid)—Packet, 10 cts.; 3 pkts., 25 cts.; 15 pkts. for \$1.00. The Catalogue Trade is invited to list this variety. Terms on application.

# A. W. LIVINGSTON'S SONS, Columbus, Ohio.

# DREER'S SUPERB DOUBLE FRINGED PETUNIAS.



FOR thirty-five years we have made a Specialty of the **PETUNIA**. This year we again offer a set of fifteen varieties, unsurpassed either in this country or abroad. The plants are well established in three inch pots, full of vigor and will furnish quantities of cuttings in a short time. These plants must not be compared in price with rooted cuttings, the finest colors, especially suited for the retail trade. \$1.00 per doz.; \$8.00 per 100. The set of 15 varieties for \$1.25. **DOUBLE FRINGED PETUNIA SEED**, our own saving, 75 cents per 500 seeds; \$1.50 per 1000 seeds.

**HENRY A. DREER**, Philadelphia, Pa.  
 When Writing Mention Florists' Exchange.

**VALLEY** A. B. C. Best Berlin \$1.50 per 1000. \$2.00 per 2000.  
**GLADIOLUS**, The Bride, Mammoth Bulbs 50 cents per 100; \$4.25 per 1000.  
**American Bulb Company**, Short Hills, N. J.  
 When Writing Mention Florists' Exchange.

**CLUCAS & BODDINGTON CO.**  
 Importers, Exporters and General Agents of  
**PLANTS, SEEDS & BULBS**  
 501 and 503 W. 13th St.,  
 Telephone Call, 403 19th St. NEW YORK CITY.  
 When Writing Mention Florists' Exchange.

**BARGAINS IN BULBS**  
 Per 1000  
 Hyacinths..... \$12.00  
 " 11-12 cm..... 17.00  
 " 13-16..... 20.00  
 Single Dutch bedding, separate colors..... 23.00  
 " Named forcing, in sorts, 24 size..... 30.00  
 " " " 1st "..... 45.00  
 " " " 2d "..... 35.00  
**Lilium longiflorum**, Japan, 6-9 in..... 15.00  
 " " " 7-9 "..... 35.00  
**Narcissus Trumpet** Von Sion..... 9.00  
**Trumpet Fringed**..... 7.00  
**CASH WITH ORDER.**  
**HULSEBRO BROS., Englewood, N. J.**  
 When Writing Mention Florists' Exchange.

**PALM**  
 Seed. FRESH ON HAND  
 Coco Weddellana \$1.25 1000 \$27.50  
 Betan Excelsior..... 1.25 1000  
 1 L. SCHILLER, 404 E. 34th St., NEW YORK.

# HEADQUARTERS ..OF..

# PAMPAS PLUMES

**CALIFORNIA**  
 Tree and Shrub Seeds, Smlax, Cobax, Grevillea robusta,  
**PALM SEEDS, Etc.**  
 Ask for Special Prices.

# GERMAIN FRUIT CO., LOS ANGELES CAL.

# Xmas is Past... But EASTER is Coming

YOU WILL WANT  
**Spiraea Japonica** Lilium Auratum  
**Aspidodora** " Album  
**Lily of the Valley** " Melpomene

WE ALSO OFFER YOU  
**TUBEROSES**  
**GLADIOLUS**, named and mixed.  
**MUSHROOM SPAWN**  
 Prices on application. We fastest every bulb before shipping and insure our customers against receiving poor stock. You want the best and we have it.

**VAUGHAN'S SEED STORE**  
 84 & 86 Randolph St., Chicago.  
 14 Barclay Street, New York.  
 When Writing Mention Florists' Exchange.

W and D's "SURE CROP"  
**MUSHROOM SPAWN!**  
 ESTABLISHED MILLER HARRIS, 14 E. SPECIAL PRICES TO CLEAR.  
**WEEBER AND DON**, Seed Merchant and Grower,  
 114 Chambers St., New York, N. Y.  
 When Writing Mention Florists' Exchange.

**BURPEE'S SEEDS**  
 PHILADELPHIA  
 WHOLESALE PRICE LIST FOR FLORISTS AND GROWERS.  
 When Writing Mention Florists' Exchange.

# VERBENA IMPROVED MAMMOTH.

New crop seed of this magnificent strain. Highly improved, of the very largest size of flowers and best color. The new variety, 1000 seeds per packet. Per packet, 30 cts.; 3 pkts., 10 cts.; 6 pkts., \$1.00. A lot of the new compact strain **TRAVELER** also available to every order.  
**JOHN F. RUPP**, - - - Shiremanstown, Pa.  
 When Writing Mention Florists' Exchange.  
 Medals awarded at Hamburg Exposition, 1867, for our

# New California... Bulbs and Flowers.

SEND FOR FREE CATALOGUE.  
**INGLESIDE FLORAL COMPANY**  
 140 5th Street, Los Angeles, California  
 When Writing Mention Florists' Exchange.

# COSMO!

**GIANT FLOWERED, EARLY BLOOMING**  
 Six splendid varieties, separate, \$1.00 per doz.  
 Mixed, 1000 cts. per 1000.  
 New California lat. grand, (Cult. Flowered California) new, \$1.00 per doz. per 1000. Special prices on quantity.  
**Apple Tree** seeds, fresh, 100 per 1000 seeds.  
**Moss** seeds, 100 per 1000 seeds.  
**Moss** seeds, 100 per 1000 seeds.  
**Senferbia** \$1.00 ea. after October 1st. 60 cts. per doz. 100 per 1000 seeds.  
**California Lily Bulbs**, prices on application.  
 Send for Trade list of Novelties, Medals, Plants, Bulbs and Cacti.

# MRS. THEODOSIA B. SHEPHERD

When Writing Mention Florists' Exchange.

# 40,000 DAHLIAS

Whole field-grown roots in 50 cent pots, labeled true. Price \$5.00 to \$12.00 per 100; \$30.00 to \$65.00 per 1000 - - -  
 Our prices list cuttings, \$1.00 per cutting. Geraniums, Carnations, Pinks, Roses, Rex and other novelties. **TRAVELER** seeds, \$1.00 per 1000 seeds. **TRAVELER** seeds, \$1.00 per 1000 seeds. **TRAVELER** seeds, \$1.00 per 1000 seeds.  
**PANDANUS UTILIS**, strong plants, 24 in. pots, \$3.00 per 100.  
 Satisfaction guaranteed.

**A. B. DAVIS & SON**, Parkville, Va.  
 When Writing Mention Florists' Exchange.

# DAHLIAS ARE THE RAGE!

No Catalogue Complete Without Them.  
**THE GRAND OLD FAVORITE**  
 "OUTCHRYSANTHEMUMS THE CHRYSANTHEMUMS."  
**WM. AGNEW**, intense red, 7 1/2 in. across. **CLIFFORD W. BRUTON**, purest yellow, 6 1/2 in. across  
**36 1st PRIZES. THREE DOZEN. 36 1st PRIZES.**  
 LARGEST AND FINEST COLLECTION IN AMERICA.  
**300,000 FIELD ROOTS. 1000 VARIETIES.**  
 Cactae, Decorative, Show, Fancy, Poinsettia, etc. We make up packages collecting of select price-unique varieties. Write at once for our new price list. We have the largest and best established in competition with all the leading growers and always carry out of stock orders.  
**SEND FOR CATALOGUE. W. P. PEACOCK, Atco, N. J.**  
 When Writing Mention Florists' Exchange.

**SEED TRADE REPORT.**

Points and information from seedsmen, and all interested in this trade, solicited. Address: AMERICAN SEED TRADE, care of FLORISTS' EXCHANGE, P. O. Box 1067, New York.

**AMERICAN SEED TRADE ASSOCIATION.**

JEROME B. RICE, Cambridge, N. Y., President; E. B. CLARK, Milford, Conn., Vice-President; S. P. WILSON, Wethersfield, Conn., Secretary and Treasurer.

**Philadelphia.**—By the will of the late Oliver Landreth, which has been admitted to probate, the late seedsmen's estate (valued at \$123,000), including his interest in the business of D. Landreth & Co., seedsmen, which he was a member, to his widow, Harriet R. Landreth, for life, and after her death to their two sons.

**Toledo, O.**—Assistant Secretary of Agriculture Brigham visited the Henry Phillips Seed and Implement Company, December 13, and expressed himself delighted with the progress making in filling the government seed contract. It is expected that the work will be completed long before the limit set.

**European Notes.**

The centenary exhibition of the Royal Agricultural Society of England, popularly known as "the Cattle Show," is at present in London, and the number of exhibitors was an immense crowd of persons more or less connected with agriculture and kindred pursuits. As these matters are of peculiar interest to seedsmen, although the fact is often overlooked by the farmer and the reseller, we will share between them the glory and the profit. The aforesaid gentlemen would have but a very narrow view of the best seed grain if they were not first to provide their pet bovine, ovine and porcine productions with the best upon which their very existence depends.

For this purpose the seedsmen is produced something which shall enable the stock raiser to fatten his beasts in the shortest time and in the least expensible manner, both as regards labor and expense. To do this well a knowledge of agricultural chemistry is absolutely necessary, and to this knowledge must also be added the faculty of making a name for his kind, either by wooing her to aid in the development of some hybridizing scheme, or by the use of his own or of some of her own hybrid tendencies. The results of these efforts are usually before the eyes of the galleries of the Agricultural Hall; and this year it must be admitted the display, so far as names are concerned, is, with one exception to be noticed here, very disappointing. To be sure the roots are the best and largest of the stationary lot, with very few exceptions, the specimens exhibited are the result of very artificial culture, and that would not be practicable on a large scale, but serve as an object lesson to the farmer, by the means of which he can be induced to be subjected to the highest cultivation. The same remark also applies to the potatoes.

The exception referred to above is a new Swede raised from one root by W. E. Brown (traders of the world-famous Monarch Swede), and named "The Universal." Respecting this distinct variety the raisers say that its characteristics are, "distinct pale green foliage, bright bronzy purple top, handsome uniformity in shape and color. It has been tried extensively, and in all cases it has withstood mildew and all diseases resulting therefrom, without any serious or even attacks of rot. Another great advantage is that it can be sown as early as April and comes to produce in the early part of September. Its chief advantage is that it can be sown on hot, dry land which is subject to mildew, and that it is not so liable to a seed rot. The tests of its quality show that it contains more saccharine than any other sort of Swede."

The roots exhibited were the produce of seed sown among mangels the first week in May. While very large, there was no sign of coarseness either in top or root. In shape it was strikingly resembling a mangel, but the leaves were much heavier Swede. The rind is very thick, not half the thickness of the slicing Swede, but will also be equally valuable for table

purposes as its eating qualities are fully equal to the best, yellow Swedish garden turnips. It will be offered to the trade early in the coming year.

The other exhibit, while very good in the eyes of the call for no special comment, but it may be remarked in passing that the large flowered varieties of *Fragaria virginiana*, are finding their way more and more into the Berlin nurseries. They fetch prices of four times higher than the common German varieties, viz., 6s. to 7s. 6d. the dozen, against 1s. 6d. to 2s. 6d. Gr. Krutzmann, Fankow, Berlin, is a specialist in primulas, who raises yearly 300,000 to 500,000 seedlings, and he says that still the demand is greater than he can meet. It is quite true that these fine varieties are as easily cultivated as the common ones, and they will in time oust them out of cultivation. Contravise to the English fashion these gardeners choose to propagate by cuttings, which are only designated by names as white, large white, red, rose, blue, etc., and are as easily cultivated as the common ones. Unfortunately while it is quite true as Dr. Hanner points out, that fine varieties are as easily cultivated as the common ones, the production of seed from them is quite another matter, as many flowers are only cuttings. As regards seeds in general, there is very little that is new to report. Our friends who feel inclined to kick at the delay in the despatch of their orders will be glad to hear that we are able to supply us as if they had just one week's experience of the hush up of all the bad weather left in the flowers, and we are able to supply them as if being served out at the present time. — EUROPEAN NEWS.

**CATALOGUES RECEIVED.**

A. B. Davis & Son, Purcellville, Va. — Wholesale Price List of Dania Rubra Roots and Rooted Cuttings.

Reasons Bros., Orce, Fla. — Winter Trade List of Pines, Propagated Fruit Trees, Economic and Flowering Plants, etc.

SUNSET SEED AND PLANT Co., San Francisco, Cal. — Illustrated Catalogue of Bulbs, Seeds, Plants, Trees and Palms.

HENRY A. DREER, 714 Chestnut at Philadelphia. — Special Price List New Crop Flower seeds and Decorative Plants.

HENK BEAULIEU, Woodhaven, N. Y. — Price Lists of Seeds, Bulbs, Plants and Garden Supplies; also lists for seedsmen and market gardeners.

\*\*\*\*\*  
 EXTRA CHOICE FLOWER SEEDS.  
 List free on application.  
 FRED. ROEMER, Seed Grower,  
 Quedlinburg, Germany.  
 \*\*\*\*\*

\*\*\*\*\*  
 100 SEEDS FOR CENTS 100  
 FRESH CANNON SEED.  
 From Hand Fertilized Plants, Last Year's crop, can be double, and we have 16 boxes of seedlings from same now in bloom.  
 AMERICAN ROSE COMPANY, Washington, D.C.  
 Successors to C. STRAIN & Co.  
 When Writing Mention Florists' Exchange

\*\*\*\*\*  
**CANNAS!**  
 CHARLES H. ALLEN,  
 FLORAL PARK, N. Y.  
 When Writing Mention Florists' Exchange

\*\*\*\*\*  
**JOS CAS VELUTINA, NERVOSA, FLAVA.**  
 OUR NEW CANNA ROSEMAWR  
 THE CONRAD & JONES Co., West Grove, Pa.  
 When Writing Mention Florists' Exchange

**VALLEYS!**

True Berlin and Hamburg Pips, A1 quality, and very evenly assorted, at Imp. prices, in case lots only. J. L. SCHILLER, 40 E. 34th St., New York. Sole Agent for F. C. Pommeroy, Hamburg. When Writing Mention Florists' Exchange

**LETTUCE PLANTS.**  
 Five transplanted, true, Grand Heads Lettuce Plants, per 100, \$5.00 per 1000. Cash with order. A. J. BALDWIN, Newark, O. When Writing Mention Florists' Exchange

**SEEDINGS AND CLIONS.**  
 of Apple, Cherry, Pear and Plum.

**APPLE CRAFTS**  
 Low Prices. Send List of Wants to D. S. LAKE, Sheboygan, Iowa. When Writing Mention Florists' Exchange

**JACKSON & PERKINS CO.,**  
 NEWARK, N. J.

Have to offer for season of 1897-98, a choice assortment of Pinet, grower, Roses, new and old varieties Clematis, Ornamental Shrubs, and Trees, Fruit Trees and Small Fruit Plants.

**WRITE FOR PRICE LIST.**  
 When Writing Mention Florists' Exchange

**LETTUCE PLANTS,**  
 Big Boston, Boston Market, Tennis Ball, White Leaf, Grand Rapids and Reichenheim, Foreign, etc., per 100; \$1.00 per 1000. By mail add 10 cts. per 100.

Cash with order.  
 A. VINCENT JR. & SON, White Marsh, Md. When Writing Mention Florists' Exchange

**PEACH AND PLUM TREES FOR FALL DELIVERY 1897.**  
 Reliable and desirable certain varieties. All desirable leading varieties of PEACHES, and all the best varieties of PLUM TREES, such as the Yellow Triumph, Greenstone, and Sweet fruited varieties. Very large stock of PLUM TREES all on plant and ready for delivery. Abundant of the also, either from nurseries or orchard trees. Have all the leading Japanese varieties, such as: Burbank, Chiswick, Autumn, Wilder, etc.; also the new Red Jon and Wicken, new supply. First quality of ALEXANDER'S SEED OFFER ALEXANDER PULLEN, Milford Nurseries, Milford, Del. When Writing Mention Florists' Exchange

**P. OUWERKERK,**  
 1123 Summit Ave., Jersey City, N. J.

Just received from our Holland Nurseries:

RHODODENDRONS, AZALEAS,  
 SPIRÆA JAPONICA, LILIUUM SPECIOSUM,  
 PEONIES, BLEEDING HEART,  
 POT GROWN LILACS, HYDRANGEA IN SORTS,  
 CLEMATIS and H. P. ROSES, in the best sort.

PRICES MODERATE.  
 When Writing Mention Florists' Exchange

\*\*\*\*\*  
**100 SEEDS FOR CENTS 100**  
 Spiræa Astilboidea Floribunda, \$6 per 100.  
 Multiflora Compacta, 6.00 per 100.  
 Japonica, " " 3.50 per 100.  
 Orders entered now for Spring delivery, for H. P. ROSES, Clematis, Magnolias, Tree Roses, Hardy Azaleas, etc.

L. C. BOBBINK, Rutherford, N. J.  
 Branch of the Horticultural Co., Boskop, Holland.  
 When Writing Mention Florists' Exchange

**PRIVET.**

California Privet. Ampelops Veitchii. Field-grown. Prices on application.

THE ELIZABETH NURSERY CO., Elizabeth, N. J. When Writing Mention Florists' Exchange

**Grape Vines**  
 Small Fruits and new varieties. Extra fine stock of CURENTS, including the new and improved quality. Write for catalogue. L. S. HUBBARD Co., Freedom, N.Y. When Writing Mention Florists' Exchange

**STAR STRAWBERRY**  
 Large, perfect shape, double-bearing, fruiting early, drought-resisting. Superior Strawberry Plants. Also Assorted Varieties of Peach, Pear and Plum Trees. Peaches grown in special soil in section free from insects and diseases. Write for latest catalogue. HALL'S BERRY NURSERIES, Berets, Pa.

When Writing Mention Florists' Exchange

**Stationery for Florists.**

Every florist in the land should have a complete supply of printed matter where-to to conduct his business in befitting style. We have the largest outfit in America devoted solely to horticultural printing, and we understand the wants of the trade. Below we quote two combination offers and would be pleased to supply you.

**\$5.00** Combination offer includes....

- 250 Notebooks, 5/6x8 1/2 ins.
- 250 Envelopes, 7 1/2x4 ins.
- 250 Billheads, 7 1/2x10, wide, 5/8 ins. deep.
- 250 Business Cards, 2 1/4x4 1/4 ins.
- 250 Tags, size 2 1/2x4 1/2 ins.

Cash with order. Delivered F. O. B., N. Y.

**\$10.00** Combination offer includes....

- 500 Notebooks, 5/6x8 1/2 ins.
- 500 Envelopes, 7 1/2x4 ins.
- 500 Billheads, 7 1/2x10, wide, 5/8 ins. deep.
- 500 Monthly Statements, 5/6x8 1/2 ins.
- 500 Business Cards, 2 1/4x4 1/4 ins.
- 500 Tags, 2 1/2x4 1/2 ins.
- One Day Book, if these are not wanted subtract \$3.00.

Cash with order. Delivered F. O. B., N. Y.

**PLEASE READ THIS BEFORE YOU ORDER.**

Write plainly and send "O. O. N." for each article wanted.

Notebooks will be furnished in smooth writing paper with ruled lines. Linen paper, ruled or unruled, can be had instead if so ordered.

Envelopes are full commercial size and of good quality.

Billheads will be furnished as above, but size 8 1/2 ins. wide and 4 1/2 ins. deep will be substituted when so ordered.

Cards are of good quality and ample proportions.

Day Book and Ledger are large enough for ordinary purposes. Ledger is indexed and will hold 800 accounts.

Special designs, trade marks, etc., engraved to order. A rose, violet, or other flower can be printed on your letterheads and billheads, plain or in color, to order.

The quality of all the above work is guaranteed.

A. T. DE LA MARE PTG. & PUB. CO., P. O. Box 1607, New York.

**NEW CARNATION**  
**MCGOWAN x TIDAL WAVE.**  
 Grown and tested four years.  
 Color a lovely clear shade of carmine-pink; a strong, free and continuous bloomer; flowers 2 1/2 to 3 inches; perfect calyx. Ready March 1st.

PRICES: Per doz., \$2.00; per 100, \$10.00; per 1000, \$75.00.

Cash with order or satisfactory reference.

**STOLLERY BROS., 1003 Carmen Ave., Chicago, Ill.**  
 When Writing Mention Florists' Exchange

**HARRISON'S WHITE!**

**NEW CARNATION**, sport from Wm. Scott, all leading Carnationists are pursuers. Strong, vigorous grower, requiring no support. Described and illustrated in Florist's Exchange, November 21, 1906, page 104.

**Rooted Cuttings**, Price, \$5.00 per 100; \$20.00 per 500; \$40.00 per 1000. Cash or satisfactory reference. All orders filled in rotation.

**JOHN HARRISON, 739 Bergen Ave.** Near Hatfield Ave., Greenville, N. C. **or Jersey City, N. J.**  
 Take Bayou or Greenville Car from Penn. R.R. Ferry. Get out at Biddle Ave.  
 When Writing Mention Florists' Exchange

**FIREFLY A RUST PROOF CARNATION.**

Bright scarlet and **Positively Rust Proof**. It is as prolific as Scott, of good size and form, and its keeping qualities are unsurpassed. We have tested it four years. Our stock includes all the novelties of '97 and '98. Send for prices.

**GEO. HANCOCK & SON, Grand Haven, Mich.**  
 When Writing Mention Florists' Exchange

**...BAKERS'...**  
**NEW CARNATIONS**

Grown and Tested Five Years.

**ONEIDA** pure pink, no trace of purple, no foot, perfectly hard, good grower, continuous producer, blooms of largest size.

**RED JACKET** bright red, of largest size, healthy, no rust, continuous producer, long stiff stems, never bursting out.

**\$10.00 Per Hundred.**  
 Orders booked now to be shipped in rotation as fast as rooted.

**CHAS. F. BAKER, Utica, N. Y.**  
 When Writing Mention Florists' Exchange

**EXPERIENCES**  
 ...WITH...

**CARNATIONS**

READY NOW.

Send me your address on a postal and receive them regularly during the season.

**ALBERT M. HERR, Lancaster, Pa.**  
 When Writing Mention Florists' Exchange

**THERE WE ARE AGAIN!**

**Rooted Carnation Cuttings**

For Summer flowering. Ready for immediate delivery.

**FREE OF RUST.**

Minnie Cook, Eldorado, Euala..... \$2.00 per 100  
 Kitty Clover..... \$2.00 per 100  
 Alaska, Wm. Scott, Florida..... 1.00 "  
 Princess Bonnie..... 1.00 "  
 Cash with order.

**GALLERT & CO.,**  
 Carnation Growers,  
 COLMA, - SAN MATEO CO., CAL.  
 When Writing Mention Florists' Exchange

**MCGOWAN x TIDAL WAVE.**  
 Grown and tested four years.  
 Color a lovely clear shade of carmine-pink; a strong, free and continuous bloomer; flowers 2 1/2 to 3 inches; perfect calyx. Ready March 1st.

PRICES: Per doz., \$2.00; per 100, \$10.00; per 1000, \$75.00.

Cash with order or satisfactory reference.

**STOLLERY BROS., 1003 Carmen Ave., Chicago, Ill.**  
 When Writing Mention Florists' Exchange

**VIOLETS! VIOLETS!**

**MARIE LOUISE**, Per grown, clean and healthy in every particular, \$5.00 per 100; \$45.00 per 1000. Sample plant, free. Cash with order.

**WM. J. CHINNICK, Trenton, N. J.**

---

**H. WEBER & SONS,**  
**CARNATIONS**

OAKLAND, MARYLAND.

When Writing Mention Florists' Exchange

**CARNATIONS**

Double and Single Violets, Swainsona, Myosotis for forcing, Giant Sweet Alysseum.  
 All ready January 1.

**JOSEPH RENARD, Unionville, Chester Pa.**  
 When Writing Mention Florists' Exchange

**FLORA HILL.**

The finest white carnation ever offered. Orders booked now for Jan. delivery. \$5.00 per 100; \$40.00 per 1000. G. M. Bradt, White Cloud, Gold Nugget, etc.

**H. F. LITTLEFIELD, Worcester, Mass.**  
 When Writing Mention Florists' Exchange

**ROOTED CARNATION CUTTINGS**

Now ready. Flora Hill, Ontario, Nivea, Emma Wong, Mrs. Geo. M. Bradt, Fred Gady, Capt. King, Major Flagler, Mervin, John Scarriff, Baltimore, Wm. D. Sloane, C. H. Dunne, at \$5.00 per 100; \$40.00 per 1000. This stock is strong, clean and healthy. Cash with order or satisfactory references.

**R. W. HOYLE, 44 LINCOLN ST., SPENCER, MASS.**  
 When Writing Mention Florists' Exchange

**EDW. J. TAYLOR**

**Wholesale Carnations**

SOUTHPORT, CONN.  
 When Writing Mention Florists' Exchange

**LARGE PANSIES** FLOWERING  
**THE JENNINGS STRAIN.**  
 They are the finest to date.  
 200,000.

to cold frames, small stock plants, \$1.00 per 1000 or 2000; \$5.00 per 5000. Large plants in bud and bloom, \$5.00 per 1000.

**SEED, FINEST MIXED,**  
 11.00 per bush, \$6.00 per box. Cash with order.

**E. B. JENNINGS, 124th St., Southport, Conn.**  
**GROWER OF THE FINEST PANSIES.**  
 When Writing Mention Florists' Exchange

**PANSIES WORTH RAISING**

Good plants, \$2.50 per 1000, or \$1.50 per 500.  
 Large plants, \$4.00 per 1000, or \$2.50 per 500.  
 Blooming plants, \$1.50 per 100.  
 Seed as usual. Cash with order.

**P. O. 31, Espy.**

**C. SOLTAU & CO.,**  
 199 Grant Avenue, - JERSEY CITY, N. J.  
 When Writing Mention Florists' Exchange

**PANSIES NICE PLANTS,**  
 at \$5.50 a 1000.  
 Cash with order.

**JOS. H. CUNNINGHAM, Delaware, Ohio**  
 When Writing Mention Florists' Exchange

**50,000 ROOTED CUTTINGS AND PLANTS,**  
 Carnations, rooted, double Grand \$1.25 per 100, \$11 per 1000; \$45 per 1000. S. A. Sutt, La Plata, Md. \$1.25 per 100. Double Grand \$1.25 per 100, \$12 per 1000. Saxifex Seedlings, extra per 100 \$3 per 1000. Am. Lippin Vichiti, 20 inch, \$3.00 per 1000 cuttings, \$5.00 per 100. Write for prices of all other varieties. Also Violets, Petitiell Carnation cuttings, and other cuttings.

**EVERITT & INSALL, Hackettstown, N. J.**  
 When Writing Mention Florists' Exchange

**CARNATIONS...**

**F. DORNER & SONS CO.**  
 La Fayette, Indiana.

When Writing Mention Florists' Exchange

**FARQUHAR VIOLETS**

Strong, healthy runners, \$1.00 per 100 by mail.

**AGERATUM** rooted cuttings. White and blue. 50 cents per 100.

**BEGONIA SPECULATA** fine plants from 3 in. to 6 in. \$2.00 per 100.

**WM. H. SEARCH, Avondale, Chester Co. Pa.**  
 When Writing Mention Florists' Exchange

**VIOLETS MY SPECIALTY**

California, extra plants from field, \$25.00 per 1000, special price for large quantity. Order varieties all sold for the present.

**FERD. BOULDER, Sea Cliff, L. I., N. Y.**  
 When Writing Mention Florists' Exchange

**VIOLETS - MARIE LOUISE**

If you are unable to turn up to Mike Hart's and take a look at my violet flowers, direct shipment from 4400 to 8000 blooms and judge about my stock.

**ROOTED RUNNERS, \$1.00 per 1000,** after June 1st. Strong stockly seedlings, white. Cash with order.

**GEO. T. SCHUMWAY,**  
 Expert grower of Violets, BLUE POINT, L. I., N. Y.  
 Largest grower of Marie Louise Violets.  
 When Writing Mention Florists' Exchange

**VIOLETS.**

Large clumps, out of frame, California, Louisiana and Swainsona, \$3.00 per 100.

**PANSIES** Large plants, \$1.00 per 100, \$5.00 per 1000, by express.  
 per 100, by mail; \$2.50 per 1000, by express.

**BELLIS** (Daisies), good, stocky plants, \$2.00 per 1000. 500 at 1000 prices.

**J. C. SCHMIDT & CO., Bristol, Pa.**  
 When Writing Mention Florists' Exchange

**CARNATIONS.**  
**American Carnation Society.**

There seems to be a general misunderstanding, regarding the fee charged by the Society for the registration of the names of new carnations. To any one who has followed the list kept by this Society before there was any charge made for registration, it must be apparent that the fee was in accordance with the number of growers who are raising seedlings. It would have been but a short time before there would have been any more from two to five hundred names added annually. It must also be apparent that the list, as it now stands, is entirely too large and cumbersome and that therefore scores of names registered that will never be used commercially. It was customary for growers as soon as a variety bloomed and gave a fairly good flower, to name such variety and more than likely, after trying it a year, he would discontinue, leaving the name on the list, but no variety to answer to it.

As the least means of avoiding all this, the Society adopted the method of charging a dollar each for every name registered with it, clearly stating on the list that if a seedling grower had decided on disseminating a variety, it was certainly worth a dollar to him to have the name registered. And it is a very short-sighted policy for any grower to send out a carnation without registering it with the Society, as he will be more than likely to duplicate his names and possibly get one of his varieties registered by some other growers, thus getting his one confused with it, in public opinion, much to the detriment of his name. There are several instances of this kind on the market now. ALBERT M. HERR.

**Earth Worms.**

The soil in the benches should be carefully examined once in a while, not only to ascertain if drainage is all right, and owing to its being porous and thereby liable to keep an eye open for earth worms. We have been troubled more than usual though from what particular cause I am quite unable to state precisely, as our soil when brought in seemed fairly good. I have thought some that the eggs are deposited in the soil as a result of watering with liquid manure, and this is probably correct, as our method of collecting the liquid from the barnyard and directing the same into the water tank through the houses, would account for this very readily.

There are several kinds of these pests. Those usually found in the soil in the fields are considerably larger and of a lighter color, and the smaller ones are found in the vicinity of the barnyard, or any place where the stable manure may happen to be, and of a darker color; but although smaller in size they are quite as destructive. Every one knows, or should know, that the worms feed on the small tender roots of the plant, those which are most active in getting their work done, their result, they are very easily comprehended, and no time should be lost in checking their progress when once discovered.

Line water is the standard remedy, and never fails when properly made and used. Placed in a hole, and the water to one peck of unslaked lime in a barrel and sinker; after which fill up with fresh water and stir well, allowing it to rest for at least 12 hours before using. The lime is good for several applications, and if used in the proportion in which can be made is a 5 cent one, the water being unable to take up any more than this.

The handy force pump which should be in every greenhouse can be used to take in a short time. One barrel of 50 gallons at either end of the row, and 20 foot houses when empty can be moved to the next house and filled, and so on until all the water is so treated. Of course, the soil should be thoroughly soaked, or the worms will be incompletely killed, and in only partial destruction of the worms. H. WEBER.



**Crossing Chrysanthemums.**

Judging from my own experience the best results are obtained from painstaking work. I believe pedigree stock is possible, provided the seed parent is protected from accidental environment, before and after pollination.

I am aware that several authorities declare that "crosses" are largely hazardous, and yet I am personally convinced that its measure may be appreciably curtailed.

In several crosses, I have them straight

one seedling. Seed sown in January, fifteen of these bloomed, maturing their immense blooms but a few days after Primo, and in advance of Bergmann under same conditions. Strong, straight growth three and one-half feet, with excellent stem and foliage. The flower is full and deep as well as large; and in both quality and size equals any of the midseason varieties.

My elation was puffed up at the sight of this noble flower that I named it *Pride on the spot*; and I confess to being proud of this high-grade seedling,

for the purpose. These varieties are "quite English, you know," and won't stand up under the American method, not that their stems are particularly weak, but mistletoe flowers require liberal treatment. I am quite curious to know how they will be regarded with intensive English cultural methods. Some of the English exhibition blooms would open our America eyes.

While we grow good chrysanthemums with much less care and expense, English cultural treatment illustrates greater possibilities. As Mr. A. H. Fewkes says:

"suitable opportunity when the bloom is partially developed, shave off the petals pretty close to the head; this will give the conservative gardener a better chance to develop; otherwise in most cases of very double blooms, sterility is the rule, even with the comparative ease of evolution has great uncertainty of seed bearing, however, as we know, there are exceptions in several species; but nature is equal to art," the very art of which is nature." When the seed parent is in condition to receive pollenization, generally on a sunny day, secure pollen from the variety or varieties desired for a cross, using a stiffish camel-hair brush for the operation. A hand magnifying glass is useful to preserve the nicety of the work. Probably many readers will recall the fecundation of the daisy with mechanical models by the late Wm. Hamilton Gibson in his illustrated lecture "Mysteries of the Flowers," at Pittsburgh before the S. A. F.

I reiterate protect the seed parent after pollenization; bees and other insect agency are liable to have a finger in the pie—to the detriment of your singleness of purpose. A simple and efficient provision is to envelop the head with a high-grade of tissue paper, on the same principle as you "bag" grapes. After fecundation keep the plant in a light position, good air, and preserve from dampness, or work will be futile. I have known a whole season's work spoiled from damping off.

It is well to sow ripened seed soon after maturity, as it secures to germinate true. Exercise all due care and pot off seedlings when large enough to handle easily, and designate each with letter or number.

The authorities of nomenclature will hardly insist upon an infallible appellation while yet in the seed leaf. Plenty of time for so doing at its debut whether certified or not.

The equation of personal taste has more to do with certifies than the uninitiated would deem possible. I don't suppose it could well be otherwise, all things considered. Often bloom as certified—not varieties! A paradox is a "pair of dice" and "they don't always agree on the same number."

Pedigree varietals are obtained along the same lines as for chrysanthemums. Here are some crosses:

DAYBREAK X TIDAL WAVE.

Daybreak cross, striped Tidal Wave; Tidal Wave growth.

TIDAL WAVE X WM. SCOTT

Scott color, flower and plant much like Tidal Wave.

TIDAL WAVE X PORTIA.

Scarlet tinted Tidal Wave.

The point I wish to make is this, in the matter of hybridization work more for something specific—whether you succeed or not. Haphazard work is too often but a waste of time and energy, to say nothing of expense. Hybridization is interesting work; strive also for improvement. There seems to be always room at the top. Work for the top now!

GROVE P. RAWSON.



Christmas Mantel Decoration.

enough to satisfy me, so that I can easily recognize individuality of heredity. A cross of Mme. Bergmann with Sin Jougain lengthens out the petals of Bergmann and elongates its growth in the majority of ten seedlings. All are as early as Bergmann, and one that I preliminary designate as Primo was fit to cut October first. This was a long-petaled paper-white rosette-shaped bloom double the size of Bergmann. As a first year seedling it had all the good points requisite for the commercial standard; and it ought to pay out well for 1898.

Another prodigy had unusual sturdiness from its first seed leaf, and I was able to propagate a good stock from the

and I have every practical reason to believe that it will be a leader among the early whites. (I'm tempted to build a special house for it—equal span). As to the other eight, four were reasonably good for further trial; two more mediocre and two single—inclined to the anemone order; but every one of them was white with other modified characteristics of both parents plainly discernible.

I believe I have some other fine novelties for 1898, but suffice details of nomenclature as subject to debut.

If boards were still allowable to exhibit blooms at flower shows, I have two distinctive whites, simply standing for

"We are apt to go to extremes exhibiting blooms with an ungainly length of stem, in the classes calling for single blooms in collections. Towards the second day exhibit of this sort are rarely presentable." But few English novelties are pedigree seedlings: Fall weather averages too dark and damp for successful hybridization. Reds and bronzes are more popular than with us, nor do varieties burn; but care is necessary to avoid damping off, and watering must be very carefully attended to. An American hose would drive an English chrysanthemist crazy.

A word as to the mechanical part of cross-fertilization. Select for the seed par-

# T BACCO

They must be fresh to be good, no NICOTINE in dried up kind; nicotine kills Aphids.

Good kind, 75c. per 100 lbs.

Bales Weigh 500 lbs. each.

H. A. STODOLSKY, 315 MAURICE AVENUE, N. Y.

# STEMS

Form and Value of the fixed Alkalis as a Plant Food.

Paper read by A. H. Ward, before the Boston Gardeners and Florists' Club, Thursday Evening, December 7, 1907.

There are two fixed alkalis, potash and soda. For agricultural purposes they are used in the form of muriates, sulphates, carbonates, nitrates, etc. John B. Lawes says: "Although potash, phosphoric acid and nitrogen are the main elements in the soil, the manure ingredients in artificial foods and in artificial manures are so different from those which the substances are met with greatly affects their value. The present method of analysis is not so correct as it properly recognizes these distinctions and the valuations founded upon these analyses are altogether false and erroneous."

Thus it appears that the form in which alkalis are applied to the soil greatly affects their value.

Muriates and sulphates are in a very inferior form to the carbonates. Their action on the soil and plant is entirely different. Muriates and sulphates are plain salts, and are not so readily absorbed by plant nourishing. Alkaline muriates are beneficial, however, when added to the soil, and are best kept down, and preventing the fermentation. They are sometimes used to check vegetation and are used in the soil to check the growth of grass crops or rather to prevent the stocks from becoming too rank or too soft or to make the soil recharged with nitrogenous matter. Muriate of potash closely resembles muriate of sodium in its action on the soil.

Sodium salts are, however, not characteristic of vegetable life in the same sense that potassium salts are; thus, the action of potassium salts is present in larger quantities in certain organs of the plant than in others, and plants rapidly take up potassium salts, and diffuse throughout the whole organism. It is also a remarkable fact that the alkalis are insoluble in water, as they combine with the phosphates of the soil to form an insoluble compound. For this reason the presence of sodium compounds has been considered as a disadvantage.

It is a well-established chemical action of the alkaline carbonates (potash and soda) to react with the organic matter to render it more soluble and thereby cause it to be more speedily and effectually absorbed by the plant. Organic matter to the state fit to be taken up by the roots of plants and enable them to be more completely assimilated. They may be said to prepare the food of plants, forming readily soluble compounds with the humic acids and the organic substances existing in the soil.

Under the influence of the alkaline carbonates (not sulphates or muriates) the organic matter disappears more rapidly than it would otherwise do, and after it has thus disappeared, fresh additions of the carbonates produce no further good effects. Fertilizer which is used in a direct way in the soil, richer in organic matter, is mixed with enough alkali in the soil to cause it to be taken up and is then left moist in a warm place.

It is known that acid and acid salts hinder putrefaction. The presence of the alkali favors the growth of the micro-organisms and the organic acid hinders it. The real significance of the alkali carbonates, added to the soil, is to make the organic matter fit to be assimilated besides neutralizing its natural sourness. It favors to a remarkable degree the growth of the micro-organisms and the organic acids.

A trace of alkalinity in the soil and air, murens, warms, carbonaceous food, and ammonium compounds constitute favorable conditions for nitrification. In an acid soil most crops, and especially grass crops, are subject to disease and root crops are apt to fall altogether on such land even if it has been liberally supplied with dung.

Up to a certain stage, grain and root crops grown on such conditions appear to thrive well, but as the season advances they receive a check and at the end of the year would a miserable return. It is impossible to doubt that carbonate of potash is the best fertilizer for the soil. Carbonate of potash has hitherto been considered too high in price to admit of its being applied to the culture of the land. This reason, however, does not apply to the carbonate of soda which is much cheaper in price than that of its being applied with advantage un-

der many circumstances. In the case of grass lands which are overrun with moss or such as abound largely in vegetable matter, it may be expected to produce good results.

It may be applied in a fine powder as a top dressing and generally it is applied in the same way. It greatly hastens the growth and increases the produce of the soil. It is applied in the soil generally early in the Spring. Many experiments have shown that both of these alkali carbonates are equally beneficial, and that the advantage of growing crops, in reference to their mode of action, it may be said that the alkali carbonates, the two to be beneficial to our cultivated crops, inasmuch as the ash of those plants which are rich in potash is generally much richer in potash than in soda. This arises from the more abundant presence of potassium in the soil generally; it has been demonstrated that soda may take the place of potash in the plant without materially affecting its growth.

It is stated in Page's March Manual, fifth edition, page 66, "The inorganic elements of plants exist in combination chiefly with organic or vegetable acids. Each plant forms acids in definite quantities, proportionate to the size, age, and part of the plants; the acid being considered as the saturate then will be equally constant."

A beautiful chemical law governs this substitution of acids. It is the law of substitution, analogous in part to the law of isomorphism or the law of substitution. The law is connected with that, so that the elements of isomorphism groups can only be substituted for each other, and this substitution is that the body replacing another must be, not an equal, but an equivalent. In the case of potash, by a proportion containing an equal amount of oxygen.

It is a well-established fact that the plants growing on soil containing a due mixture of earthy ingredients always take up the proportion of each according to their functions; yet if to such soil an excess of either of the alkalis or of the acids is present, the potash, soda, or magnesia may be taken up by the plant, to the exclusion of the proportion of another. Hence it may be established as the seventh principle in agricultural chemistry, that the alkali may be substituted for another in equivalent proportion.

It is an important law in the agricultural relations of the inorganic parts of soil, whatever may be the office of the alkali, it is to be substituted, and none is of higher value than this, that they may be thus substituted, the effect of the potash, soda, or magnesia is not to be lost, but to be preserved intact. Its value will be perceived when it is considered that in the case of the alkalis, if all the elements essential to a crop become exhausted or, yet another may be substituted, which combining with the organic acid of the plant enables this to perform and perfect all its functions."

Looking Backward and Forward.

The year of grace 1897 is fast drawing to a close and every one of us will profit, if we have a few moments, in the rest, after the Christmas harvest, to examine our harvest, so to speak, and look over our methods of business, methods and see if there are not some weak places that should be attended to, before we enter upon the year of 1908.

There are far too many who believe in procrastination; especially in this time of year. It is a well-known fact that this fault is not confined to small establishments, for, I have frequently found it in the largest ones. In such cases, orders are not shipped as promptly as they should be, and the customer is not so well looked after. Some seem to think that as long as they have the order the customer will not be so particular, and that which will soon manifest itself. I have always believed that the late Peter Henrich was right in his correspondence and orders were attended to; and am firmly convinced that the same is true of any firm that will guarantee to forward all orders the same day as received. Some say that it is not so easy to do that; very well, get more; surely if you can sell your stock quicker it will be easier to do that.

How many ever think it is worth while to let their help see the EXCHANGE? I have seen many a man who has the help never see a paper. This is radically wrong, for every employer must know that the best of his help is the most valuable must be to him. I have in-

mind a florist who reads the paper carefully himself and sees that his help has a chance to read it as well, and at the meeting he brings up, by exhibiting some article he has read. Would it not be more profitable to you, that your customer should read your words the papers, rather than playing cards all the time in the boiler room or workshop, at night?

As the year '98 is close at hand I would earnestly suggest that every employer begin to try by subscribing for a sufficient number of copies of the EXCHANGE, so that every man in his employ may have a chance to read the paper; one copy for every three men ought to go round; and I feel assured it will prove money well invested. H. Y.

Carnations in Boxes.

Least some of your readers should be misled by the statement of a Washington writer, we hasten to caution anyone adopting the plan of growing carnations in boxes, to look out for chink root. Carnation roots do not like to be confined. Roses, however, can be grown in boxes with a fair measure of success. This, however, is a very old method, and one which many of our best growers continue to use.

We have succeeded this year in getting good results from carnations grown in glass in the benches, all summer long. AMERICAN ROSE COMPANY, (FORMERLY C. STRAUSS & CO.)

New Waterproof Mat.

The R. T. Palmer Company, 113 North Sixth St., Newark, N. J., has just put on the market two new styles, one covered with check cloth and another covered with oil cloth. These are filled with a combination of wool the same as the bar mat and quilted with seams three inches apart.

Mr. Palmer states that the demand for the mats is very great, and his customers he has received evidences of satisfaction from those who try them.

Calendars Received.

Handsome calendars have been received at this office from Saml. S. Penock, Philadelphia; Texas Seed and Floral Co., Dallas, Texas; and the Pennsylvania Co., Allegheny, Pa., also from the Pope Manufacturing Company, Hartford, Conn. They are for the year 1908, and the publishers, containing much information about the Columbia bicycle.

Seasonable Specialties.

Harlan P. Kelsey, Boston, Mass., sends us samples of his seasonable specialties—green and bronze glass leaves and leucothoe sprays.

Dorchester, Mass.

Lawrence Cotter will be in the avium with roses at Christmas; his stock is in excellent shape with promise of an enormous season.

Warren Ewell will have a big lot of bulbous stock which only can be produced at this season.

A. Leathy will be on hand with a pretty lot of ferneries filled, especially in this season. He makes this a specialty, and does it well.

James (Julin) has a prime stock for his retail trade. To demand for Adiantum Farleyense and oranges is better this season than ever.

M. E. Emker is a good Thanksgiving business. It is as much as he can do to keep his two stores supplied to meet the demand just now. Violets are scarce and bringing good prices. W. M.

HIGH GRADE Seeds, Bulbs and Florists' Supplies.

STUMPP & WALTER CO., 50 Broadway St., New York City. When Writing Mention Florists' Exchange SMILAX. Cash orders, 15% cts. Club order, 10%.

A. J. BALDWIN, Newark, Ohio. When Writing Mention Florists' Exchange

Gaax Leaves.

CHAS. H. RICKSECKER, Linville, N. C. When Writing Mention Florists' Exchange

HOLLY

Prices on application. State quantity desired.

ASPARAGUS ROOTS.

Have a large stock of Asparagus Roots 3 and 4 years strong. (Conover's, Barr's and Palmets.)

ALEXANDER PULLEN, Milford, Del. When Writing Mention Florists' Exchange

HARD FERNS

WARRANTED FIRST QUALITY. SPECIAL ATTENTION PAID TO SUPPLYING WHOLESALE DEALERS. Write for Prices.

FANCT. DAGGER. ALSO DEALER IN BOUQUET GREEN, SPHAGNUM MOSS, CHRISTMAS TREES, Etc., Etc., Etc.

L. B. BRACQUE, - - HINSDALE, MASS.

OLDEST, LARGEST, AND MOST RELIABLE DEALER IN THE UNITED STATES. When Writing Mention Florists' Exchange

Place Holiday Orders for Kelsey's Brilliant Green and Bronze

COULES AND SPRAYS

NOW and avoid the coming rush. FINEST LEAVES AND PACKING. PRICES—

CASE A, large or small, either color, per 1000, \$1.00; 5000 lots at \$1.00 cts. per 1000. LEUCOTHOE SPRAYS, per 100, 75cts.; per 1000, \$6.00.

Wholesalers Supplied at Very Special Rates. I am Packing for Retail and Wholesale Trade.

CASE A - 5000 Gallix, assorted sizes and colors, for \$3.75. CASE B - same as case A—and 200 Leucothoe Sprays for \$3.75.

CASE C - 10,000 Gallix, assorted sizes and colors, for \$5.00. Terms Cash. Shipments from Boston or North Carolina. Give special shipping instructions whenever you order. Telegraph orders save time. Order now or more cases as above; or in very large quantities by inquiry by mail. Samples and full information free. Order by hundreds or thousands. Samples and full information free.

Address all communications to the Introducing HARLAN P. KELSEY, 1150 Tremont Bldg., Boston, Mass.

When Writing Mention Florists' Exchange

## QUESTION BOX.

OPEN TO ALL . . . FREE TO ALL  
Answers Solicited From Those Who Know.

(172) **Plant for Name**—*Sedum sarmentosum variegatum*.

(173) **Black Spot on Roses**—The leaves seem to be affected by black spot, a bare account of which and the treatment for the same you will find on page 917 of the *Florists' Exchange*, issue of October 5, of this year.

(174) **Gloire de Dijon Rose under glass for summer blooming**—W. S. W.—Commercially *Gloire de Dijon* rose would be a most unsatisfactory one indoors. For private use and greenhouses it sometimes makes a fair pot plant.

(175) **Colons, Begonias, etc.**—**Dropping their Leaves**—G. H. Johnson—At this season of the year it is natural for the plants named to drop their leaves, or for the foliage to turn yellow; unless they are young plants that have been prepared for Winter culture. If the plants are not coming from the flue, which should be snipped occasionally to avoid dry, stiff straggling, during the growing season will soon be around again.

(178) **Greenhouse Heating**—I, an building a new greenhouse 20x43 feet and 12 ft to my present house. The rafters are 12 feet long, the walls 4 feet and the ridge 10 feet high. I now shall arrange the piping for cucumbers. How large a main flow pipe shall I use and how I connect with the boiler, or can I take it off from the overhead 4-inch main in the other house? What will be the probable cost of the pipe for the new house?—K., New Hampshire.

—One method of piping the house will be to run out 2-inch overhead flow pipes and six-inch 2-inch returns. If the flow pipes are carried on the rafters and at the rafters will aid in holding the snow and ice upon the roof and will prevent cold drafts upon the plants. A 3½-inch flow will answer, and this can be taken from the flow in the other house if it is not more than 100 feet long, although it may be easier to run back to the boiler. It will depend upon the price you have to pay for the pipe, but the cost of the material, including pipe and all fittings, should not be more than one hundred dollars and may be as low as seventy-five dollars.—L. K. TAPP.

(179) **Hot Water Heating**—I have 21 greenhouses, with 10 arranged upon one side and 11 on the other side of a cross house, 20 feet wide, and wish to heat them with hot water; length of main flow pipe, 100 feet; length of return at ridge 1½ feet, rear wall ¾ feet, front wall ¾ feet. I want to order 65

pipe on hand it will be better to use three 3½-inch flows and twelve 2-inch returns, and even then, for houses 155 feet long, you will have the water return ten so that it can be closed, at least in severe weather.

(180) **40-horse power boilers**. If they can be yoked so as to form two batteries of three boilers each, it will permit of a larger steam capacity than necessary. Have valves upon both flows and returns to each boiler, so that it can be cut out if necessary.

(e) It will answer if the top of the boilers are level with the walks, if the main supply and return be level, but if not they should be a foot or so lower.—L. K. TAPP.

(180) **Water Proofing Cloth**—Hantsville, Ala.—Waterproof woolen cloth, take 4 ounces of powdered alum, 4½ ounces sugar of lead, dissolved in 3 gallons of water, stirred twice a day for 42 days. When perfect subsidence has taken place, pour off the clear liquid only, and add to it two drachms of langshan, previously dissolved in warm water, then mix thoroughly. Steep the cloth in the water, wring it out, and which hang up to drain and dry; do not wring. For linen or calico, stretch the cloth in the water, wring it out, and rub well on one surface of the linen or calico. It will take long to do and should be hung in the winded place you can find. Summer is the best time. A month will see it very much order. It will be supple and perfectly water proof. After wearing a few times a second coat would be advisable, done in the same way. This will dry in half the time. For sackcloth or canvas, this can be made as impervious to moisture as leather by steeping it in a decoction of 1 pound of oak bark with 14 pounds of boiling water. This quantity is sufficient for eight yards of stuff. The cloth has to soak for 24 hours, when it is taken out, passed through clean water, and hung up to dry. The flax and hemp fibres, in absorbing the tannin, are, after a short time, better adapted to resist wear.—G. M. STRATTON in American Gardening.

## Foreign Notes of Interest.

**Area of Glass in the United Kingdom**—A writer in *Gardening World* remarks that there are about 32,000,000 square feet of glass in the whole of the United Kingdom, covering an area of 735 acres. This means that there is sufficient glass to form a continuous chain of glass house 15 feet wide, 400 miles long.

**Disease in Japanese Lily Bulbs**—Referring to the lily disease (*Rhizopus necans*) recently described in the *Kew Bulletin*, (an extract from the article appeared in our special Fall edition of October 1907, pp. 925-6), a correspondent is writing from Japan to the *English Trade Press* says:

This disease has been known as long as lily bulbs have been exported from here, and the results have been sometimes very disheartening for the consignees, as well as for the shippers. I imagine that the great loss is probably the result of some Japanese or other speculators, in order to catch best and fancy prices, shipping at the wrong time of the year. The climate of Japan is such, that during and after the hot summer season, in July, August, and September, during which we have from 85 to 95° degrees Fahrenheit, the lily bulbs are sent to which produces—easily imaginable—a real hot-house temperature, the air being saturated with moisture, and the bulbs left for growing, but not for harvesting field products. The moisture is so great, that the lily bulbs are not only affected by fungoid formations, but even in our houses—closets, hooks, shoes, etc., are so much affected that they are daily use.

For the growers, easily imaginable that during such a season, bulbs taken out of the field and imperfectly ripened, if packed in boxes and sent to the tropics to Europe, must be affected by fungi, which have during a two months' voyage on board a steamer,

sometimes close to boilers, sufficient time to rot their deadly work. The danger would not be so great if the bulbs could be long enough to have the water return without injury. This seems, however, impossible. Even with the greatest care, such a return is not to be had of the whole bulb. However after this autumn weather the autumn season sets in during October, and the lily bulbs during the daytime, but brisk and refreshing during the night. The earth gets cool, the season for harvesting being regulated by Nature itself. The lily bulbs are now perfectly ripe and dry, and the bulbs which are not yet ripe, are now perfectly ripe and cool, any bruises the bulbs may receive during the handling will dry off and heal quickly and satisfactory consignments will be the result. There are also a few very tender varieties which even the most careful treatment will not protect against the hardships of a long voyage through such different climates as the route over India, the Red Sea, and the Suez Canal. These, taken, however, as a rule, the results will be satisfactory as I can prove by hundreds of letters and testimonials, which I have received from customers.

I therefore claim that unsatisfactory results are not to be expected if the bulbs possess when they are shipped, but simply the result of several factors which will be sufficient to insure a success of these lovely plants. I recommend, therefore, the following remedy: First, place your plants in a cool, airy place, in which knows the business; second, do not give instructions, if possible, regarding any shipments, but leave that to the shippers, who will guard your interest and will know best the time the plants are to be packed for packing and shipping; third, try to induce the steamship owners of Eastern lines to provide a few steers during the principal export season, with cold storage arrangement to get the shipments through the winter months, and I will guarantee that the bulbs will always arrive in the best of condition and not injured by disease.

## PLANTERS.

**Rose Golden Gate**—I send you fair samples of what a good rose has been spoken by an inappropriate name, viz., "Golden Gate." The rose is O. K., and steadily growing in popularity; a free grower, tree bloomer, with fine-shaped, big flowers that keep and ship to perfection, and good the whole year through, as well as for cutting. It isn't at all yellow, as some you expect, from its name; but a creamy white, tinted pink, deeper than in Carnot, and a superior rose in several points. If its name was not Golden Gate, but a name such as "John Smith," it would be much better for the rose grower.

JOHN P. RAWSON.  
[The flowers were well-grown specimens—a credit to the grower. The ladies in the Exchange office pronounced the buds "just beautiful." We extend thanks to Mr. Rawson.—Ed. F. E.]

## Is it the Pink Calla?

Send you a flower and leaf of what we believe to be *Richardia Rehmanni*, advertised in Europe as the pink *Richardia* or pink calla. I have found this name used for a golden calla (*R. Pontlandii*) recently received from South Africa. It certainly has a decided shade of pink, which color is said to be intensified under a warmer temperature. You will notice that the texture of the flower is very beautiful, and the whole, in flower, very pretty. It is a very free bloomer, flowering when the bulb is quite small; the leaves are also very distinct.

A. BLANC.  
[The bloom sent shows a delicate pink suffusion, the coloration being more pronounced at the back of the spathe.—Ed.]

View in Boston Public Garden.

(176) **Propagating and Growing Crotons**—What is the proper soil for crotons to insure good coloring? How are they propagated and when is the proper time?—W. S. W.

—Crotons thrive in good rich loam with the assistance of a little sharp sand. The pots need to be well drained. Coloring is a question of heat, light, and moisture. They enjoy a stove temperature with frequent overhead syringing. Propagate from half-ripened tips in a sharp sand mixture, and stick bottom heat and a close atmosphere.

(177) **New Chrysanthemum Frank Hardy**—A good many chrysanthemum fanciers hereabout are wondering wherein the English variety Frank Hardy differs from Fuji Snow, introduced from the Yokohama Exposition, 1885, as a sport from Good Gracious. We note that Frank Hardy is said to be a provisional name, used for the purpose only?—E. G. GILBERT, Cincinnati.

—Frank Hardy is a pure white sport from Good Gracious and originated in England; at least, that is what the man who sent it out says. That is my side of the question, there is any question at all, which I don't vary much. Your correspondent has raised the doubt, he can also furnish the proof if he buys Frank Hardy and grows it.—A. HENNINGTON.

decrees in zero weather and expect to use 2-inch flows and 1½-inch returns in November.

(a) What will be best method of conveying water to houses?  
(b) How many main flow pipes and returns be in cross house?

(c) What number of flows and returns will be required in each house?  
(d) What size and number of return the tubular boilers, having about 24 square feet of surface each, will be required to heat 4,000 running feet of pipe, 20 feet wide as above?

(e) How much water surface of land will be required; in other words, how deep should cellar be?—BENJAMIN

—(a) Run the main flow pipes along either side of the cross house at the height at which the flow pipes in the houses are to start, and bring the returns back underneath just below the level of the walls. If necessary the flows return to be carried just above the returns.  
(b) Use a 4-inch supply for each house. Rather than start from the boilers with a main for each house, a 4-inch main can be used to supply two houses and reduced to 4-inch after one house has been supplied. Under this pressure the flow may be 4½-inch and 3½-inch respectively.

(c) If 2-inch pipe is to be used for flows and 1½-inch for returns, it will be desirable to run the system under pressure, with four flows and sixteen returns. Five flows and twenty returns will be required in an open system. Unless the

## THE MEN WE MEET.

No. 5—GEORGE WITTBOLD.

It so happens that the early florists of Chicago, as well as their descendants, have nearly all passed away, or engaged in other occupations, leaving to us the honor of conducting what must now be called the colossal florist industry of this city. It is surprising to find men known in the heyday of olden times.

The subject of this week's sketch, George Wittbold, is now a young man, still remaining. At the age of twenty-four years he came to the United States from Germany, bringing with him a few plants remaining. At the age of twenty-four years he came to the United States from Germany, bringing with him a few plants remaining. At the age of twenty-four years he came to the United States from Germany, bringing with him a few plants remaining.

The writer, coming to Chicago about the same time, early made the acquaintance of Mr. Wittbold, who was then occupying the position of gardener to Ebenezer Peck, Esq. Through lack of knowledge of the language of his adopted country Mr. Wittbold agreed to work one year for \$300 and board; and yet out of this figure it was a common remark at the time that the shrewd young man managed to save a little money. From here he engaged as gardener to E. J. McCagg, Esq., a far more pretentious place. After five years residence in the country, and with a slight knowledge of the language, in 1862 he entered into partnership with A. T. Williams, florist, at the corner of North Avenue and N. Clark street, very shortly thereafter buying out his partner's share.

If in all these years Mr. Wittbold's success has not been sudden and phenomenal, it has been steady and constant. Two or three years prior to Chicago's big fire he bought five acres of land at the corner of North Avenue and N. Clark street, two miles farther north, placing his aged father (who meantime had joined his sons) in charge of this place, now known as 1702 N. Halsted street, two of these acres are yet covered with trees.

As an example of how most of us old ones looked upon the name "florist" as meaning card I may be mentioning that George christened his place "The Hybrid Nursery." Though trees and shrubs are small in amount, but in the business, the name "nursery" was supposed to provide an added dignity to the name.

In 1864 Mr. Wittbold became a Benedict marrying Miss Emma Fricke daughter of a well-to-do merchant settler. Fricke, who is still living. His family consists of five sons and three daughters. The five sons are all hard-working young men true to their father's calling; and all are now in business with their father.

Each of the boys has a special work assigned to him. Henry, the eldest, is outside in charge of the business, and in orders for decorative and other work; Frederick attends to the decorating; Gustav is in charge of the large retail store at 512 N. Clark street; Louis attends to the office, acting as bookkeeper; and Otto is in charge of the packing and shipping at the home place, also assisting his father in its management. It is interesting to find that class of "men we meet" who practically is always busy at his greenhouse. For many years he has been an order-taking merchant. The owner always entertained a penchant against the cut flower trade, and in selling plants he bought the latter were once the best payers.

To his plodding perseverance can be ascribed the success of his business in carrying an immense stock of what we here care to try—palms and ornamental plants, well selected and priced. In such stock as laurels, bayes, anthuras, etc., but finds in this class of plants little profit, and in fact, a loss. In the year 1886, he started his first retail store, and in the year 1890 he started a separate venture. Four or five years ago he increased his facilities for a home place, by building a new and larger greenhouse, the John C. Moninger greenhouse that was exhibited at the World's Fair, Chicago, the latest in the business, the wholesale growing and shipping of palms, ferns, orchids, rubber and other tropical plants, and in the building of dwellings, etc. To show his resources in stock suitable for this purpose it may be mentioned that the florist of the city to show in this city, this Fall, he furnished 30 loads of plants, another 10 loads being employed at other places on one and

the same time, each load averaging 25 plants.

Some 12 years ago Mr. Wittbold began the growing of palms in quantity for export, obtaining his seeds from Erlurt, Germany, in London. His first shipments consisted of latanas and corypha. The latter has now been abandoned. Chamaerops was also tried, but in little used these days. For Western trade Latania Borbonica has the call in sales; then comes Kentia Belouana, and C. Forsteriana. Areca lutescens is largely grown, and there is always a demand for Phacelia rotunda and P. caudata, Pandanus and rubber plants also find ready sale. There is now in process of germination, including young plants, 40,000 kentias, 5,000 phoenix, 10,000 latanas, and 10,000 arecas.

Mr. Wittbold was at one time a large grower for the trade of aluminum fountains; now he goes in more for young ferns. Of the ferns grown here the principal kinds are Adiantum pubescens,

which takes place whenever the roots show well through the soil. It is always better, when the plants reach a selling size, to grow them in as small pots as safety will permit. An over-potted palm is far more likely to fall when subjected to windy growth, than if the plant is in a comparatively small pot.

## Useful Ferns—Pteris.

*Pteris tremula* is one of the quickest growing species of this well-known genus and one of the easiest to raise from spores. It thrives all right in an intermediate house in Winter, that is, one where the temperature falls not lower than 45 degrees Fahrenheit. Some crested forms of this species were sent out a few years ago, but they do not seem to have become very popular.

*Pteris cretica albo-lineata*, like the above, can always be depended on to reproduce itself from spores. The prin-

*Pteris Walllichiana*, although growing to a large size when liberally treated, can be raised in small pots as to be of a useful size, by division of the crowns. In general appearance it is a little like the *Pteris cretica*, but the leaves, however, are broader and of a brighter green.

*Pteris granifolia* is probably the only species of the *Doryopteris* section which can be raised with little trouble to be of service to young starters. The fronds are finely cut after the manner of those of the *roses granifolia*. Spores will germinate in a week or two after being sown.

*Pteris argyrea*, a variety of the species known as *quadricolor*, is only a part of the frond on each side of the middle rib being a different color. In small plants it is very attractive. Old plants, as a rule, become unwholly with only a few long-stalked leaves. It is grown quickly from spores.

*Pteris internata* is a neat, cool house species which can be increased rapidly enough by division. I have never tried to raise it from spores, but probably it can be raised readily enough.

All of the above, with the exception of *P. argyrea*, may be grown in ordinary greenhouse temperatures. There is nothing difficult in their cultivation. To raise young plants for use in the Fall, the spores should be gathered in Spring. Use wide seed pans for the purpose, taking great care to avoid sowing the seeds, as most of the species will germinate well.

G. W. O.

## Some Business Maxims.

Would it not pay me better to be in the front part of my store and mingle with my customers, instead of shutting myself up in the back office among my books?

Is not quality remembered long after the price is forgotten?

Was it Christian in me to keep a customer waiting around all day when I could have disposed of him in 15 minutes?

Can I continue to pay my bills promptly, and require prompt payment from my customers?

Wouldn't it be a good idea for me to put in goods to sell every season of the year so I could get a regular business?

Will the profit I lost on goods I was "out of" ever come back?

Would it not be just a little bit suspicious if all jobbers' prices were the same on everything?

Ninety per cent. of all the failures in this country are caused by "credit," particularly indefinite credit.

"Slow collections" is the usual ordinary affliction of a failure in business.

Buy what you need and nothing else, and in quantities to suit.

Go after trade and don't wait for it to come after you.

Always get your money before you spend it.

Who is most slow in making a promise is most faithful in keeping it.

When you order an extra large quantity underscore the quantity.

Violation of trust to-day, lack of standing to-morrow.

To live with your own incomes happily, others miserably.

Don't kick first. Ask questions. Your impression may be wrong.

A group of the hand and a pleasant smile often sell a bill of goods.

Always promise—they are thin led and dangerous.

Is it better for me to buy a small variety in large quantities, or a large variety in small quantities?

Some people buy everything on credit, but sell all they produce for cash—"green heads."

Energy is an absolute requisite for business success.

Do your work, every day—don't put off. Procrastination is the thief of time.

Don't keep your good nature down in your boots. Hang it outside where people can see it and be happy for it.—Metal Worker.

*Nephtrolepis exilata hostoniensis* and *N. cretica albo-lineata*, and *P. palmata*.

Mr. Wittbold finds from experience that his plants will give greater satisfaction which are in demand by retail florists are the sizes grown up to and including 5 to 7 inch pots. Of the latter size never has enough. For the smallest sizes there is not much demand. After being in 4's every plant adds 25c. to the plant's value, and from these comes the money to the grower who can carry stock long enough to get them there.

Mr. Wittbold does not favor rapid growth by extra forcing, believing that his plants will give greater satisfaction and stand rougher treatment without injury, than plants hastened by a less natural growth.

The growing of palms from seed is somewhat of a lottery; that is, very much depends upon the condition of the seed on arrival. His method of growing is as follows: A front stage of a greenhouse is enclosed by boards, with enough hot water pipes underneath the bench to insure a temperature of 90 to 100 degrees water heat. Four inches of soil is placed in the bed in which the seed is put, almost covering the ground. Some frames enclose these, on the top, and watering is all the care required until germination takes place. As soon as the nuts have sprouted enough to bear handling, they are lifted and potted into thumb pots. From this on the shifting

epical attraction in this plant lies in the undulating foliage, the fronds are never truncate; the fertile ones are long, upright, and narrow. For using in a small state to mix with others for baskets and pans it is one of the best of the variegated sorts.

*Pteris adiantoides* in many establishments comes up everywhere from self-sown spores, on likely places which are left undisturbed for any length of time. In any sized pots up to six inch it is hard. The color of the foliage is dark green, but a surprising amount of door culture in Summer, young potted plants plunged in a frame for the Summer, put on a surprising amount of growth. Thrips and red spider are exceedingly common in this species, but only when the plants are sick. They are never the original cause of the plants becoming sickly.

*Pteris gigantea* is a species with quite large fronds of a dark green color not unlike the slange of the species known as *P. ulmifolia*, but has more substance to it and will thrive with less heat. It is likely to become a popular fern, as it easily increased either from spores or by division.

*Pteris serrulata* is the old standby for all kinds of pan and basket work. It can stand as low a temperature as any indoor fern; and is equally at home in the warmest house. The many crested forms are exceedingly ornamental in a young state.

FOUNDED IN 1888.



Exclusively a Trade Paper.

Entered at New York Post Office as Second Class Matter

Published EVERY SATURDAY by

N. T. DE LA MAR Ptg. and Pub. Co., Ltd.,  
2, 4, 6, 8 Duane St., New York,  
P. O. Box, 1697. Telephone 2164 Cortlandt

REGISTERED CABLE ADDRESS  
Commercial Cable) Flores, New York

SUBSCRIPTIONS:

\$1.00 per year to United States, Canada and Mexico. \$2.00 per year to foreign countries in postal union. Payable in advance. New subscriptions will commence with the first number after receipt unless otherwise ordered. Back numbers can be supplied when wanted. The date on address label shows when the subscription expires and in the subscriber's receipt. No other receipt given.

ADVERTISEMENTS:

Copy must reach this office not later than Thursday in order to secure insertion in issue of the following Saturday. Rates for advertising are \$1.00 per line. Special positions extra. Discounts on contracts of one month or longer. Orders from unknown parties must be accompanied by cash or satisfactory references.

Exclusively a Trade Paper.

THE FLORISTS' EXCHANGE is published in the interests of those commercially identified with the Florist, Seed and Nursery business. New subscribers are requested to enclose business card or other proof of their connection with these trades.

Contents.

AKERS AS A PLANT FOOD	1175
BOSTON PUBLIC GARDEN, VIEW IN (Illustr.)	1176
BUSINESS MATTERS, SOME	1177
CARNATIONS	1178
CARNATIONS IN BOXES	1175
CATALPAUS RECEIVED	1177
CHRISTMAS MANTEL DECORATION	1171
CHRYSANTHEMUM, CROSSING	1174
FOREIGN NOTES OF INTEREST	1176
JADE	1179
LOOKING BACKWARD AND FORWARD	1175
MAT, NEW WATERPROOF	1175
MEN WE MEET: THE GROOMS' WEDDING	1179
OBITUARY	1180
Whitey	1187
PINK CALLA, IS IT THE?	1176
PLANTS AND FLOWERS	1175
QUESTION BOX	1176
REFLECTIONS ON CURRENT TOPICS	1179
SEED TRADE REPORT	1171
TRADE NOTES:	
Cincinnati, Pittsburgh, St. Paul	1181
Washington	1182
Boston, Philadelphia, Toronto	1183
Buffalo, New York	1184
Honolulu, Providence	1185
Chicago, St. Joseph, St. Louis	1186
YEAR 1897, THE	1178

For the Busy Man.

Two Chicago florists were among the victims of that city's recent "hold-up" epidemic. A. R. Whitney, of Franklin, Ill., for many years treasurer of the American Association of Nurserymen, is dead.

From reports received it is anticipated that another Christmas will be a short supply and prices high in consequence; in some instances phenomenonally so.

Florists should read our New Year report this week for information regarding the doings of the large dry goods emporiums of this city. They are instructive.

Christmas Mantel Decoration.

The illustration on page 1174 shows a very dry and effective mantel decoration, and to what good purpose the decorative material supplied by Caldwell the Woodsman, can be put by those possessed of artistic taste. We are indebted to Mr. Caldwell for the use of the cut.

Our Prospectus FOR 1898

Includes everything progressive under the sun, obtainable for our columns, that will be of value to our readers.

The cream of the best things of the past continued, with many valuable additions.

The Year 1897.

The year the closing days of which are now upon us, has been a most peculiar one in many respects. While the stagnated condition of business noticeable at the advent of 1897 has been partially relieved, the stringency in ready money, then also noted, has been a constant depressing factor throughout the whole of the twelve months. Probably not in several years has there been so much to be noted as the consequent inability of the trade to take advantage of cash discounts greater than during 1897. It would seem as though our trade, one of the last to feel the effects of the panic of 1893, was also destined to be among the last to fully recover from that setback.

In more than common, therefore, with other industries, the florist business has suffered therefrom; a fact, which has offset the appreciable increase in the volume of trade done; for it is generally admitted that business, as a whole, has compared favorably with that of other years, in certain respects, being in advance. This anomalous condition has been further augmented by the fact that although "the cut" is more especially of recent years, the average returns have been smaller.

A continued tendency to enlarge glass areas, in order to throw more blooms and plants on the market, so as to keep up the same amount of revenue by increased production at lower prices, is still noticeable. It is in evidence and of peculiar pleasure to bear witness that high-grade stock, of every description, is always disposed of at remunerative figures. Thus, clearly enough, there is "room at the top," if the bottom is crowded.

This note, however, made, has also been assailed by "curtailment of the season," which is becoming more aggravated with each passing year; and the mitating influence of which, is in many quarters, severely felt. To the variability of the climatic conditions this latter contingency is attributed, business opening up later in the Fall, and closing sooner in the early Summer months.

It is most gratifying to note, that notwithstanding all these untoward factors, comparatively few failures have been recorded in this florist trade. The fact that those who did succumb, were several of them, forced to do so through undue pressure.

Undoubtedly, the department stores have become leading factors in creating a new class of buyers, and present indications are that it will be largely through their agency that a solution of the disposal of stock of almost every description, at times now almost immovable, will find its outlet at profitable prices. And of supreme interest to the retail trade is the fact that it is being noted that the buyers who patronize these huge stores are seldom of the class that would first buy from florists' stores proper.

In the way of progress, generally, the year 1897, while it has not been a phenomenal one, has held its own. The

work of improving the canna goes on apace, several very valuable additions having been made to that family by American growers. In Europe the orchid-flowered class has also been added to, and it is to be hoped the later acquisition of new and satisfactory plants will have their forerunners. As worthy of mention, it may be stated that an important agent in the improvement of the canna in America has been temporarily removed in the withdrawal from business of Mr. James Deas, who has departed in this direction very successful.

The Carnation Society continues its good work, bestowing its approval by means of certificates, only on varieties that, to obtain this distinction, are subjected to a most crucial test. Out of the large number of seedlings, grown for three seasons, presented at its annual meeting this year, only three met the Society's requirements. And while in some instances adverse criticism has been showered on this body's methods, such criticism being by some considered justifiable, and by others entirely unwarranted, there can be no question of the Society's honesty of purpose to act as a safeguard for the buyers of new varieties of carnations; its readiness of its executive to entertain and put in operation practical suggestions for the accomplishment of this object, pointing such assertion; it, the carnation culture a race of plants, prolific in their nature, and capable of producing a high grade of bloom, is now in evidence and will prove a very welcome and valuable addition. The interest in the cultivation and production of the divine flower remains undiminished, as it is likely to do for many years to come.

The falling off in the number of new seedlings and sports in the chrysanthemum this year, has but recently been noted by these columns. The number of certificates of merit in 1897 reached 28. The greatest diminution in the number presented before the committee was observable in New York, and this is accounted for by the fact that a large grower of seedling chrysanthemums in that locality, has now ceased operations.

The sport recently given to the dahlia continues unabated. This year, extra efforts to popularize the flower by means of exhibitions have been very successfully resorted to.

New things in roses have been coming in this direction for some time now promises to be more prolific.

The violet supply in the early part of the year averaged well, the crop being heavy, and prices remunerative to the grower. This Fall, however, it has been somewhat of a conundrum; the uncertainty of the crop proving a source of great disappointment and inconvenience. The single varieties continue to give good satisfaction in many localities; several additions to this family, said to be valuable, have just been made.

It is to be noted that the demand for decorative purposes has exceeded the most sanguine expectations; and it is likely to continue.

Among other events of the year that may be noted are the unsatisfactory financial results attended the majority of the chrysanthemum shows throughout the country, the cause of which it is somewhat hard to determine. Doubtless the condition of the money market before referred to is more or less responsible for the unappreciated but worthy trade in this direction.

The show given by the American Institute at New York may be classed in the front rank of object lessons in this direction, not only as demonstrating the possibility of a continuous display for a lengthened period, but also the advance-

ment made in the earliness of the production of chrysanthemums for exhibition purposes.

The establishment of a Mutual Fire Insurance Company for florists, after years of patient waiting, has been a notable achievement of the year. In trade circles, that it will prove of as great utility as its older sister the Hall association, a work of which (of which continues) is doubted by none.

The inauguration of a Market Florists' Association in this vicinity of New York, for the purpose of establishing a plant market permanently open to the trade, is a most commendable and United endeavor will certainly bring about the end desired.

The mortality among the trade during 1897 has, we are sorry to say, been very great; the names of some of our brightest men recorded on its death roll. The Florists' trade mourns the calling away of Harry L. Sanderbruch, Robert J. Murphy, William Mitchell, E. S. Nixon, David Fisher, John Saul, William C. Wilson and others not so well known; the names of those who have departed, William Elliott, Frank Ford, Oliver Landrett, Samuel Wilson, and F. E. McCallister, of the gardening profession, there have gone from our midst such ornaments as William Grey and Henry McCrowe, William G. H. Hill, and H. J. Hill, and Edward M. Bueshel; the retail trade has lost John N. Hauser, and the nursery and landscape gardening world, the name of the veteran Robert Douglas; the leading trade journals the demise of Edward J. Woodruff. In our own view, we hold in loving memory the name of our departed friends, who have been an exponent of the art of horticulture, William A. Stiles, is forever etched in our landscape gardening weeps for Charles Elliot.

The government free seed distribution continues in its usual manner. The majority of seedsmen—but many of the largest concerns are not yet averse to receiving their seeds at a discount to put in their bids for same.

The Society of American Florists this year has published its title the words "and Ornamental Horticulturists." This, it is said, will enable florists to identify themselves with those of which is not exactly clear to a great many. At its meeting at Providence the Society has elected a new president, as far as Omaha, Neb., in 1898, thus to a large extent demonstrating a desire to uphold their national flag.

The sweet pea remains as popular as ever, and in the obtaining of new and interesting varieties, the interest seems well to the front. The list of varieties continues to swell enormously.

Congress has placed a tariff on imported florists' and nursery stock, as well as on imported cut flowers. Lily growers are looking with interest at the action of the Bermuda cut flower competition in consequence.

Number of books treating on subjects of interest to the trade has, as usual, been issued, among these being "The Fruit-growing part" of Macmillan's Rural Science Series; "The House Plant" and "How to Succeed with Them"; and "The Water Garden," both from The American Florist and Nurseryman Publishing Company. The reports of the S. A. F. and American Carnation Society are also given in these additions. A new trade paper has been established; and the EXCHANGE has, as formerly, issued several of its most appreciable special editions, one on Orchids and other matters; the other on Plant Culture.

We are glad to observe a revival of interest in the work of the Florists' clubs and societies, and in the fruit of usefulness of these bodies has not been reached by any means. Much yet remains to be done, and our attention in the objects for which they were established, by whatever worthy means effected, is our earnest wish.

In concluding this brief epitome of the events of 1897, the EXCHANGE begs to state to its readers that it is in the lead chronicle the most important happenings of the future. It is a most reliable and valuable necessary cultural information, and it is to be noted that the trade is interested. The good of the craft, by all fair means, is ever our desire; they are ever our friends, and we wish all a Merry Christmas and a happy and prosperous New Year.







SITUATIONS WANTED.

Wanted 10 seats as a live flower merchant. Cash with this. Rate applies only to those who are willing to sell when sold, without display. When letters are addressed in full and in care of the advertiser...

YOUNG man, 25, wants situation as grocer. Address E. Henge, No. 100, 2nd St., N. Y. City.

SITUATION wanted by young man, thoroughly competent in greenhouse work; good references; no inducements.

SITUATION wanted; gardener, married, no children, well up in all branches, desire position. Address W. Weber, 2, 102 St. 102.

SITUATION wanted; gardener, single, 26 years, with experience from five continents; private or commercial. Address J. L. G. 230 St. 102, N. Y. City.

A GOOD, all-round man; sober, reliable; desires position commercial place as assistant. References. Address J. C. Clark, Erie Platte, N. Y. Exchange.

SITUATION wanted as second man; gardener; florist or fresher in commercial or private place. State wages. Address John Fischer, 325 Adelphi Ave., West Hoboken, N. J.

A YOUNG man wants a situation on a private place to work in greenhouses and out in the garden and around. Address C. Schmitt, 24 Winthrop Street, Flatbush, L. I.

FOREMAN, married, seeks position as rose grower or propagator to take charge of general rose work; best of references can be furnished. Address J. J. D. Rose, 20 West 21st Ave., Jersey City, N. J.

SITUATION wanted, by married man, as first man in charge of general rose work, and general greenhouse plants; first-class references. State wages. Address L. E. Cure of Florida's Exchange.

HELP WANTED.

WANTED

A first-class gardener to take full charge of good paying business Greater New York, Ed. Houghton, 107 Broadway, New York, N. Y. Address: J. H. A. 155, 107 Chilton Place, New York.

AGENTS WANTED.

Capable and energetic men wanted to sell nursery stock; a good and permanent employment; good salaries and commissions. Address: KEENE & FOULK, Blooming Nursery, Flushing, N. Y.

FOREMAN.

With an Alred, who can grow Al American and West End, (all other work done as well as apply), will find a permanent, profitable situation by addressing:

BEAUTIES, care of Florida's Exchange, Location 100 miles from New York City.

WANTED

An experienced young man in Peru District, who is fully conversant with the business of the grower and the buying of the market to service and grow plants into marketable shape. Apply with reference, stating full particulars as to experience, etc., to:

HENRY A. DREEK, Inc. Box 1618, Philadelphia, Pa.

MISCELLANEOUS WANTS

HOT-HOUSE TOMATOES

AND MUSHROOMS WANTED.

BRADLEY REDFIELD, Commission Merchant, 121 Rock Street, PHILADELPHIA, PA. Market prices and prompt returns guaranteed. Write for cards and quotations.

WANTED.

A grower who can ship me for the rest of the half century 200 good plants and 100 to 200 Maiden Fern fronds per week, for \$5.00, to guarantee the best market prices. Answer at once.

G. E. BRADSHAW, Wholesale Florist, 125 West 30th St., N. Y. City.

WANTED.

To Buy or Rent a greenhouse establishment or dwelling house and ground, suitable to build a shop in a healthy location near New York City. Address: Writing Mention Florists' Exchange, Responsible, care of this paper.

WANTED

To lease established commercial place. No half private but half commercial place. Houses must be in good condition. State exact details particularly, or I will accept a location where a thorough business can be done. Manager is wanted. Best of references. Address: A. Lock Box 26, 608, Atlantic City, Ga.

When Writing Mention Florists' Exchange

BUSINESS OPPORTUNITIES

FOR SALE.

Greenhouse with stock, hot water system; perfect order; near main gate of old Calvary Cemetery. Inquire at 169 Greenpoint Av., Blissville, L. I. (City)

TO LET.

A convenient store in good position for wholesale or retail florist. Inquire at 115 East 23d St., N. Y. City.

FOR SALE.

Greenhouse, in one of the best cities in Wisconsin, with stock, hot water, a money maker for a huster. Owner must retire on account of poor health; for particulars, write to: ELLIS & POLLWORTH, MILWAUKEE, Wis.

FOR RENT.

NEW BRUNSWICK, N. J. Florida style, consisting of about two acres of land, two story frame building, about 12,000 feet of hot water pipe, 18x24 feet; two glass houses, 12x6 feet each; potting house 10x22 feet, heated by hot water; fruit water connections. Well located in city of New Brunswick, near railway. Good railroad and water transportation to New York. Good opportunity for right man. Apply to: FREDMAN WOODBRIDGE, Attorney at Law, 41 Paterson St., NEW BRUNSWICK, N. J.

FOKSALE—Plants, single covered wagon, two light cars, 1000 good roses, 4 to 20, with 1000 fancy at \$3 to \$4; 100 dozen beauty roses scarce, and \$10 and \$12 per dozen. YAGONS'S SEED STORE, Box 88, Chicago.

LEGAL NOTICES.

A. T. DELA MARE PRINTING AND PUBLISHING COMPANY, LIMITED—The annual meeting of the stockholders of this company, No. 2 to Duane street (Kilbuckers Building), in the City of New York, on the thirtieth day of January, 1888, at 12 o'clock noon, for the election of a Board of Directors and two Inspectors. J. H. GRIFFITH, A. T. DELA MARE, Secretary. President.

A. T. DELA MARE PRINTING AND PUBLISHING COMPANY, LIMITED—The annual meeting of the stockholders of the above named company, No. 2 to Duane street (Kilbuckers Building), in the City of New York, on the thirtieth day of January, 1888, at 12 o'clock noon. A. T. DELA MARE, Treasurer. President.

Toronto

Christmas Prices to be High. The very dark, dull weather of this month and the extra demand for blooms this season has made flowers very scarce, and Christmas prices will be high. Nearly all the stock on hand has already been sold, and in most cases more of it is promised than can be supplied. The only blooms offered that are not directly picked up is paper white narcissus and Roman hyacinths, and if the weather be favorable, these flowers will soon be all taken up. No. Zealand, of which there are more in evidence than ever before, at this season, are taken up as soon as offered; in fact, I think they also will be short.

Holly and general decorative stock is being sold very fast. In larger quantities it is sold formerly. Nearly all stock seen in the windows is of high quality. Roses this week range in price from 4c. to 25c. for tea; Beauty, 25c. to 50c.; carnations from 2c. to 4c.; violets 15c. to 25c.; valley 4c.; Nornans 2c. to 3c.; mignonette 15c. to 25c.; anemones and asparagus are fairly plentiful.

THOS. MANTON.

Boston.

Bright Christmas Outlook. At this writing (Thursday) it may be said that prospects were never brighter for a large and satisfactory Christmas business with the Boston florists. The fact is, however, that the retailers that orders have come in earlier this year than heretofore, and all signs point to an immense trade in stock goods.

The holiday green business has been fairly well cleaned out, the retail practically cleaned out of holly as early as Wednesday evening. Other greens have had proportionately less success. The florists report a good trade all round in this line.

Business opened up well in all quarters, though plants generally do not seem to be up to the standard of previous years. This is owing to the fact New York has been drawn on extensively by some of the retailers, but part of the goods arrived in good quantities. The market has furnished azaleas, primroses, cyclamen, poinsettias, Roman hyacinths, and oranges have been shipped here in considerable quantities. The local market has furnished azaleas, primroses, cyclamen, poinsettias, Roman hyacinths, and oranges are very attractive, were largely furnished in good quantities. The market has furnished azaleas, primroses, cyclamen, poinsettias, Roman hyacinths, and oranges are very attractive, were largely furnished in good quantities.

Cut flower trade looks encouraging and stock is readily secured. The retail when the price is not too exorbitant. Carnations of good quality move freely at an average grade of 4c. to 10c. The standard grades at 4c. and even higher with the hopes of a shortage by Friday. The market has furnished azaleas, primroses, cyclamen, poinsettias, Roman hyacinths, and oranges have been shipped here in considerable quantities.

Roses are moving at a better pace than usual with prices about the same as last year, ordinary stock bringing \$8 to \$10 per 100; good roses at \$12 to \$20, with fancy at \$3 to \$4; 100 dozen beauty roses scarce, and \$10 and \$12 per dozen. The violet outlook is more or less uncertain. Some of the holders are talking about selling for 100 to 150 cents a dozen, as high as has been reached, and it seems that the history of the past four or five years, when violets have brought up to four-fifths before Christmas, is liable to be repeated this year.

The Stores.

Norton Bros. included some fine crotons in their attractive display. Houghton & Clark's store contained a desirable assortment, poinsettias and ardisia being specialties.

W. E. Doyle offered his usual complete collection of good stock, one of the most complete of the kind in the city. He has grown Cypripedium insigne, in six and eight inch plants.

John & Son have for several years made a specialty of their plant offerings on Christmas and Easter, and this year was no exception.

T. F. Galvin handled a great many azaleas, and his new Back Bay store gave him a good opportunity to display his large assortment of Christmas goods. Warren Ewell got in one lot of tulips for Christmas, which found ready sale.

Notings.

The sale of the Whidden estate in Dorchester, including a fine range of stock, was reported as a few weeks ago. About to occur, it has never commenced, and it is now said that a suit was filed. The selling purchaser deposited a cash bond for the sale, and endeavored to recover this bond.

L. H. Foster is still enthusiastic over the success of his plant business. He has shipped with success to all sections, and this Boston favorite seems to meet with a ready sale. His extensive stock is looking particularly well and promises good returns.

L. O. Long was at Julius Zinn's on Beacon street. The F. R. Person Co., are expected to receive a fine lot of plants for Christmas trade.

A fine oil portrait of John Galvin, by Wm. W. Chase, is hanging in the present place in the Tremont street store. Cohen has leased an upstairs room in

the building where his store is located, and uses it as a plant room.

Thursday labor. The prospects are still looking up and prices are showing a tendency to stiffen. L. I. K. Y.

Philadelphia.

Good Christmas Business Expected. At the present time everything looks well for a good Christmas business.

The stores have done a fairly good trade of late, owing to the fact that orders for Christmas were coming in freely from present indications there will be a good business. The market has furnished azaleas, primroses, cyclamen, poinsettias, Roman hyacinths, and oranges have been shipped here in considerable quantities.

Business opened up well in all quarters, though plants generally do not seem to be up to the standard of previous years. This is owing to the fact New York has been drawn on extensively by some of the retailers, but part of the goods arrived in good quantities.

The market has furnished azaleas, primroses, cyclamen, poinsettias, Roman hyacinths, and oranges are very attractive, were largely furnished in good quantities. The market has furnished azaleas, primroses, cyclamen, poinsettias, Roman hyacinths, and oranges are very attractive, were largely furnished in good quantities.

Cut flower trade looks encouraging and stock is readily secured. The retail when the price is not too exorbitant. Carnations of good quality move freely at an average grade of 4c. to 10c. The standard grades at 4c. and even higher with the hopes of a shortage by Friday.

Roses are moving at a better pace than usual with prices about the same as last year, ordinary stock bringing \$8 to \$10 per 100; good roses at \$12 to \$20, with fancy at \$3 to \$4; 100 dozen beauty roses scarce, and \$10 and \$12 per dozen.

The violet outlook is more or less uncertain. Some of the holders are talking about selling for 100 to 150 cents a dozen, as high as has been reached, and it seems that the history of the past four or five years, when violets have brought up to four-fifths before Christmas, is liable to be repeated this year.

Among The Stores.

The retail stores all appear to be doing a good plant trade. Houghton & Clark's store contained a desirable assortment, poinsettias and ardisia being specialties.

W. E. Doyle offered his usual complete collection of good stock, one of the most complete of the kind in the city. He has grown Cypripedium insigne, in six and eight inch plants.

John & Son have for several years made a specialty of their plant offerings on Christmas and Easter, and this year was no exception.

T. F. Galvin handled a great many azaleas, and his new Back Bay store gave him a good opportunity to display his large assortment of Christmas goods. Warren Ewell got in one lot of tulips for Christmas, which found ready sale.

The News.

C. S. Loder, Secretary of the National Florists' Board of Trade, was in this city on Wednesday last. He met the members of the Society and subscribers to the board from the city and vicinity at the Windsor Hotel, and will be in the city for several days.

The Board is in a flourishing condition, and its membership is increasing fast. The annual meeting, which was held in the city on Wednesday last, was a success, and the members of the board were treated to a dinner on Wednesday last.

Philadelphia Horticultural Society.

The regular monthly meeting of the Philadelphia Horticultural Society was held on Tuesday last, and was well attended. The election of officers took place, and the following were elected: Clarence H. Clark, vice-president, Robert Gray, Charles W. Miller, Dr. Goebel, and S. W. Trevelyan, secretary.

The Committee for 1898 reported a schedule for the year, and the following were elected: Clarence H. Clark, vice-president, Robert Gray, Charles W. Miller, Dr. Goebel, and S. W. Trevelyan, secretary.

At this meeting there was a very good exhibit of orchids from Henry T. Clinkenberg, and a fine collection of cut flowers from the Philadelphia Horticultural Society. The exhibition was held at the Philadelphia Horticultural Society, and was a success.

Chas. Dieck, exhibitor of plants at the Philadelphia Horticultural Society, was well received. He exhibited a fine collection of cut flowers, and was well received. He exhibited a fine collection of cut flowers, and was well received.

Chas. Dieck, exhibitor of plants at the Philadelphia Horticultural Society, was well received. He exhibited a fine collection of cut flowers, and was well received. He exhibited a fine collection of cut flowers, and was well received.

Chas. Dieck, exhibitor of plants at the Philadelphia Horticultural Society, was well received. He exhibited a fine collection of cut flowers, and was well received. He exhibited a fine collection of cut flowers, and was well received.

## New York.

## Department Stores.

The question as to whether these emporiums have made or ever will make a profit, the regular florist and the store trade still remains unsettled. Considerable time has been spent during the past year in discussing these matters more for the purpose of finding out who and what class of people patronize the colored departments of the stores, and to candid, not 5 per cent, purchasing were made up of what is known in New York as "lower buyers," and in other cases, these stores may be welcomed, for they have created a new class of buyers. The customers are believed that these luxuries (flowers) are down to their price. Whether they are benefited by these stores, and those interested must accept the fact that flower, plant, bulb, and seed selling in these vast emporiums is now a regular feature, and the department is with us to stay. There was a time, and that not long ago, when a certain firm was credited with being guilty of selling to these department stores and a great outcry was raised. Watching deliveries during the Christmas season, it was observable that no one house had the run, but that growers from every quarter around New York were sending flowers here. The firm that received a large share of patronage. From one house sold to, at least, a check for \$100,000 in the interval, was given, and this for deliveries of 50, 100, or 1,000 lots. In this way many growers are being introduced to retail plant and their coal bills seced.

Wanamaker this week only makes a few more orders, and noticeable cut in prices was apparent, excepting perhaps in large araucas, and in the case of cyclamen, was observed at figures varying from \$7.50 to \$12.50. Smaller sizes and other plants are in plentiful supply to the buyer. All their plants stood in fancy dishes or jardinières, and in the interval, a check of both was given in plain figures. A strange feature noted was that their sale prices were greater than that of the plants themselves.

Hammingdale Bros. have been in this business longer than any of the others, so that it is not to be wondered at that they are the one who holds the name of the trade. Under the management of W. W. Burnham, who has now full control, there is a noticeable change for the better in the condition of the stock in the greenhouses and on the shelves from day to day. The amount of business done here this week is simply enormous—500 figures in the average. The average of this stock alone, in fine dishes about 100 per day, and other plants in proportion. No cut in prices was noticed. Small ferns are marked 10c. each; palms 75c. to \$1.60 each, all proper figures. Greater demand is being met, and in most pushed, being supposed to give greater satisfaction to buyers. Araucarias are marked 90c. to \$1.50; cyclamen, 50c. to \$2.00; anemones, 40c. to \$1.00; ranunculus, \$1.50 to \$2.00; Pandanus Vetchelii, \$2.00 to \$7.50; F. mollis, 90c. to \$2.00; azaleas, 40c. to \$1.00; and many other plants were stocked in quantity and were selling readily.

Cut flowers are in prices was in Ficus elastica; these are advertised in the daily papers at 40c. each up to 1 P. M.; after which the price is raised to 90c. with morning and afternoon sales about equal. These plants were of exceptional quality and the price was high.

Cut flowers are sold in quantity; for instance, 5,000 valley is ordered for Friday and Saturday, and the same quantity; also roses, carnations, etc. in like proportions.

Christmas green is being sold in great quantity. One smart novelty is presented in sprays of hollow well beaded, and in the case of a large bird's nest settled on the spray; it is priced at \$2. The bird's nest sells, and the price is raised to \$3.50. Two growers are employed exclusively for the decorative, and one of these is extra order, being added during rush hours. The Flower Paper Co. makes but an indifferent showing in their conservatories, and sales apparently were not heavy. They have a few plants and some flowers, and need to run more into luxuries and fancy centers in pots and tubs. These were marked at 25c. each. At the latter part of the stand there seemed but little doing, and at the cut flower stand on the main floor trade was very light.

## Christmas Green.

Trade in this material during the week has been unusually heavy, and there seems a possible chance of a general sale of the regular stock. About 1,000 sacks and barrels of holly arrived in the city, and is nearly all sold. About 200,000 plants of the same variety, but these provoyetno many and low prices were taken to effect clearances. Retail sales are being made in small quantities, and a bundle for 50c. This would consist of one large tree, or two about 3 feet in height, and 200,000 plants of holly, or Bouquet green has had an enormous sale—just how large it is impossible to estimate. The price on this stock varies from 2c. to 1c. per pound, a little higher on the 10c. and 75c. per lb. altogether. The price on this stock varies from 2c. to 1c. per pound, a little higher on the 10c. and 75c. per lb. altogether.

The boom in imported mistletoe has continued; 30 cases arrived on the S. S. Hibernia, Friday, and 75 cases on the S. S. Paris, all of which came in fair condition, but owing to the precariousness of the shipments, and last week's figures then obtainable continued, and the new shipments realized \$7.50 to \$15 per case, a fancy mark, packed in boxes, realizing \$20 to \$25 per case. The total for the week amounted to 200,000 cases. Of Southern or American mistletoe we have no record.

There has been a big demand in huge quantities and found a poor market; the bulk of it got into peddlars' hands and is being sold for 200,000 plants, and cash carts at 10c. each, or two for 15c. Many of these gentlemen found it difficult to get a good price, and some of them to sell, for several were seen so located in the uptown districts.

## Plant Trade.

This promises well to be the best yet. It is to be expected that it will closely approach the Easter trade in volume. There is an unusually heavy supply and the market is being cleared up extremely plentiful and well flowered. Julius Roehrs alone sent in the entire lot of his plants, and he was marketed in all sizes are everywhere. Cyclamen are more plentiful and better than in previous years, and are being marketed by leaps and bounds and are also better than ever seen before; the kinds most in demand are C. hibernicum, C. persianum, C. persianum, and C. hibernicum, also a few E. autumnalis and E. splendens. These were observed. Olathe oranges, as usual, were much in demand, and were being marketed in large quantities. Ardisia crenata in quantity. Polonaises were in popular demand and a large variety of plants are being marketed at high 50c. per brace to the grower, and in the case of two smaller bracts to the retailer. Many large growers were displayed, mostly cattleyas and cycpeidiums. Palms, araucarias and ferns were in the usual quantities.

Ribbon in some way or other was extensively used, but there is an evident decline in the employment of frills or crepe paper; instead of this material wicker covers or jardinières were used, and the plants were being marketed in made of stiff paper and printed to represent feltware. For cheap work the plants were being marketed in many expatite baskets of mixed plants were made up and these, together with other plants, were being marketed in fancy flowers by stockpilers, customers taking readily there to.

Many of the plants and the extra efforts made by everyone to have the largest display possible, and in quantity of all. His store is replete with the choice of everything in season. Among novelties, a large quantity of plants, or to be more hard in description, ferneries under cover. Another novelty is the use of wreaths and in baskets to good advantage. Some of the plants are being marketed in wicker, Cypridium insignis, etc. Some charming bird's nest, dark colored leucosia sprays and Cypridium insignis were the leading feature. Erans were also in demand to advantage.

Christmas in his new store, corner 58th street, is doing a good business, and a good showing. This ranks among one of the most handsome establishments in the city, and is under the management of Owen A. McDonald.

Peter Bogart engaged an extra place for the display of plants, and his own regular store was replete with a full line of decorative plants. He reports satisfactory business.

Hermann Kuhn reports good trade in plants and Christmas greens. In this store, a large quantity of small trailing plant of lauristinus covered with flowers; the head of this fine plant was fully 40 inches in diameter.

W. Burns seemed jubilant over the plant trade, and was justly proud of a catch as big as any in the city. In the course of conversation this gentleman said that many individual stores to-day carry as many flowering plants all the time as could have been found in the whole city at Christmas only a few years ago.

W. P. Sears was simply crowded out with the best of plants, and shows with pleasure a novelty for this season—a small bell and clapper made of immortelle, and a small greenery. These are put in small boxes and called Christmas carols, selling at 50c. each.

There is a great demand for plant displays in the city, and for artistic get-up is not one whit behind any other variety. The demand for plant trade are extremely rocky.

J. M. Hodgson carries an enormous stock of plants, and is well known.

Charles Dards makes a display which for magnificence would be hard to beat, but in the line of price, but in the greenhouse at the rear. Erans, Marzouques, and cyclamen are in the lead, one of the best of the season, and developed blossoms and was really a grand subject.

Mr. Dards was not over enthusiastic in the recent plant trade, however, there seemed a big rush in his store. The recent enlargement of the well-known store of Siebrecht & Sons shows to advantage at this time, and in many ways, and is well known. In this respect it is one of the best furnished in the city, and in the miniature greenhouses or small cases, are also very well in evidence.

The quality of stock sent in, and business done during the early part of the week were very light. Supply and demand were in line, and in the normal order. Buyers tried to buy in a reserve stock, but the market was against them in many ways. Wednesday prices began to move upward on all stock, especially in the case of many growers. There was a general advance, and Christmas prices were in operation. No. 1 extras were being marketed at 10c. to 15c. The shipments were extremely light, and a shortage of roses and carnations was being felt. Many large growers were at once placed for the above grades for Friday and Saturday morning deliveries. Many large growers were at once cleaned out in this manner, and by Thursday noon, further orders were being thrown in daily to get them. Long-stemmed Beauty were in demand, and prices jumped to \$1 each for 100, and \$2.50 for 25, and a special \$1.50 each; and at these figures there was not enough to go around.

Metor roses are at \$15, \$20, \$25 and \$30 per 100; Bride and Bridehead, 10c. to 15c. per 100; and many other grades of these were quoted at \$4, \$5 and \$6 per 100. Carnations reached \$2 per 100, and many other grades of extras and novelties \$5 to \$10, and a few being set at \$2 per dozen.

Orders were placed on order at \$4, \$4.50 and \$5 per 100; but in the evening it was plainly evident that there would be a shortage of plants, and shipments arrived in excess of the demand, and a slump is inevitable.

Lilies are in the same hot, and while prices at time of going to press are held at \$15 and \$16 per 100, it is safe to say that \$12.50 will be the taking figures finally.

Violets are more difficult to get a line upon for probable values. On Thursday, the market was very light, and in the evening they are the last to arrive in the city, and are being marketed in large quantities. Existing quotations are \$2, \$2.25, \$2.50, \$2.75 per 100; but quantity and quality are the determining factors, while he actually gets on the market, so that a forecast as to whether these figures will be maintained, and in the evening, now there are indications that they will not, for one order for 25,000 in already been placed.

Cattleyas are good property, but cycpeidiums are dragging. Other stock is being marketed in large quantities, at least such as the early indications, but it will be midnight before much will be done in this line. Spallias is improving slightly, and adiantum fronds are also being held firm. Asparagus remains the same as ordinary times.

## Cut Flower Exchange, Thirty-Fourth Street.

Friday morning, the attendance of buyers here was large and stock plentiful. The market opened still, especially on carnations, which were held at \$4, \$5, and \$6; but these figures were not maintained, and the market was very light. The prices broke to \$3 and \$4. Lilies boomed and sold out clean at \$15, some times at \$20. The market of the two previous mornings was excellent.

## The Market, Friday, 1230 P. M.

Stock was flat to arrive, and a good deal of it got caught by the same and carried over to Saturday. The supply amounted to half that of last year, and in the evening, the market was being cleaned out of all kinds of flowers, although much of the stock is of very inferior quality. Roses and species of roses are even lighter than anticipated, and prices so far are maintained, but not in the case of carnations, and other subjects. Buyers are shy, the market being against them. Violets will hold up to the end of the season, and in the case of flowers previously given. Lilies will do better than expected. Carnations are holding firm, possibly a little higher, and will probably sell out clean; red kinds are at a premium.

John C. Merson has rented a store at 18 Chapman place, Boston, at which this firm will dispose of a large quantity of plants, and in the miniature beauty roses. They propose to display their cut between the two cities.

John E. White, formerly with N. T. Kneass, Esq., Milton, Mass., has been engaged as chrysanthemum grower for the F. R. Pierson Co.

T. Galvin, Boston; W. F. Kastig, Watford; and C. A. Braslan, Chicago.

## Buffalo.

## Christmas Trade Prospects Bright.

Christmas and New Year prospects are fairly bright as far as business goes. Greens seem to be going off well, with prospects of a good business. The market is very light.

The outlook for cut flowers is not so bright as regards extent of supply, especially in the case of carnations. It will bring here report off crops to a great extent.

The locally grown supply of carnations will no doubt, be reliable for quantity in otherwise helping out, while violets will be in demand. The market is very light. The store men seem fairly stocked with palms, poinsettias, leguminas, etc., with plants in quantity. Some of the plants were placed without firm advertising in a sharp practice business. The market is very light, and in the case of carnations and violets as seldom is seen. The market is very light, and in the case of carnations and violets as seldom is seen. The market is very light, and in the case of carnations and violets as seldom is seen.

A few minutes run through Ford B. Lewis showed a clean growing stock of carnations and violets as seldom is seen. The market is very light, and in the case of carnations and violets as seldom is seen. The market is very light, and in the case of carnations and violets as seldom is seen. The market is very light, and in the case of carnations and violets as seldom is seen.

At Thomas Manderson's, in the same town, was seen a good quantity of carnations in bloom that are selling well.

### Simplicity in Greenhouse Construction.

During our long experience we have not only made many improvements in greenhouses, but we have so simplified the construction that building a greenhouse is no longer a matter so full of complications as to tax the patience and the ingenuity of even the most intelligent mechanic. Our

## Clear Cypress Building Material

is worked out in the best manner ready to be put up, and we furnish our customers such complete detail drawings that any workman of only ordinary capabilities can put it up correctly.


Write for Circulars or Estimates.

Lockland Lumber Co.,

LOCKLAND, OHIO.

When Writing Mention Florists' Exchange

**VALVES and FITTINGS**  
For Pipes and Tubing.  
**VENTILATING APPARATUS.**  
**COLDWELL-WILCOX CO.,**  
Newburgh, N. Y.  
SEND FOR CATALOGUE  
Mention paper.  
When Writing Mention Florists' Exchange



**CYPRESS**  
IS MUCH MORE DURABLE THAN PINE.  
**CYPRESS SASH BARS**  
UP TO 32 FEET IN LENGTH OR LONGER.  
**GREENHOUSE AND OTHER BUILDING MATERIAL.**  
Send for our illustrated Catalogue "CYPRESS LUMBER AND FITTINGS." Send for our Special Greenhouse Circular.  
**THE T. STEARNS LUMBER CO.,**  
Newburgh, Boston, Mass.  
When Writing Mention Florists' Exchange

**TOBACCO DUST**  
Owing to a large supply on hand at present we will furnish the trade at \$1.00 per 100; \$1.50 per 50; \$3.00 per 100; \$10.00 per 2000. Cash with order. Send for our Wholesale Catalogue on the East Coast strawberry grown. 100 other varieties. **THOMPSON'S SONS, Rio Vista, Va.**  
When Writing Mention Florists' Exchange

**Standard Flower Pots.**  
A hand for the New Price List with extra discounts. All our Pots, from 7 in. and upwards, have our Patent Acceptor Bottom, which is a great advantage, as it insures perfect drainage.  
A FULL LINE OF BULB PANS.  
**THE WHILLDIN POTTERY CO., 715 to 719 Wharton Street, PHILADELPHIA**  
BRANCH HOUSES: 7 Jackson Ave. Jersey City, N. J.  
7 Jackson Ave. and Pearson St., Long Island City, N. Y.  
When Writing Mention Florists' Exchange

**FLOWER POTS**  
We are Manufacturing a Full Line of  
**STANDARD FLOWER POTS and HANGING BASKETS OF THE BEST QUALITY.**  
Shipping Facilities First-Class, thereby Securing Lowest Freight Rates. Our goods are well packed, and breakage is nominal. Give us a trial. Send for Price List.  
address **THE SYRACUSE POTTERY CO., 403 N. SALINA ST., SYRACUSE, N. Y.**  
When Writing Mention Florists' Exchange

# "JADO"

Plant Your Spring Bulbs in Water Them With  
**JADO FIBRE JADO LIQUID**  
We will offer CASH PREMIUMS at all Exhibitions in 1898 for plants grown in JADO that will be awarded FIRST PRIZES.  
Send for List of 1897 Prize Winners and Fullset Particulars.  
**THE AMERICAN JADO CO., 811 Fairmount Ave., Philadelphia, Pa.**  
When Writing Mention Florists' Exchange

**MANURE**  
Fresh and well rotted horse manure for Mushroom growing a specialty. Excellent fertilizer for all crops. For sale by the Florists' Exchange, 1010 Walnut Street, Philadelphia, Pa. Also by best. Wm. Abernethy, Room 10, 1010 Walnut Street, Philadelphia, Pa.  
When Writing Mention Florists' Exchange

**WHAT 25c. WILL DO**  
Send us 25c.—Postal Note or 2c. stamps—and we will send you a can of the Cheapest, Safest and Best of the NIKOTEK on the market. These goods cannot be excelled for destroying Scale, Bug, Ant, Spider, Mill-ew, etc. Highest references. Circular Free.  
**CHAS. C. GARRET & CO., 113 S. Gay St., BALTO., Md.**  
When Writing Mention Florists' Exchange

**SAVE THE BLOOMS!**  
**NIKOTEK**  
DOES NOT INJURE SENSITIVE PLANTS. USED FOR FUMIGATION OR SPRAYING, INDOORS OR OUT. 200 POUNDS TOBACCO IN ONE PIV MOUTHER.  
Price \$1.50. ALL SEEDSMEN.

FOR SALE BY Seed Stores.  
For Free Pamphlet, write to  
Lorraine Spurr Craas  
Pawcetta Co.  
Louisville, Ky.

**THE BEST FOR ALL Florists.**  
FOR SALE BY Seed Stores.  
For Free Pamphlet, write to  
Lorraine Spurr Craas  
Pawcetta Co.  
Louisville, Ky.

When Writing Mention Florists' Exchange

**Evans Improved Challenge**  
Roller bearing, self-oiling device, automatic stop, etc. This makes the IMPROVED CHALLENGER the most perfect apparatus on the market.  
Write for circular and prices before placing your order elsewhere.  
**Quaker City Machine Co., RICHMOND, IND.**  
When Writing Mention Florists' Exchange

**SUMMER IN WINTER**  
By Using  
**Standard Greenhouse Boilers**  
One cent gets our Catalogue.  
**GIBLIN & CO., - Utica, N. Y.**  
When Writing Mention Florists' Exchange

**MASTICA**  
FOR GLAZING GREENHOUSES.  
A substitute for putty. Superior in every way. Mastica and Mastica Glazing Machines were used by Highest Award of S. A. F. at Pittsburgh. Address for circulars:  
**F. O. PIERCE CO., 170 Fulton St., New York.**  
When Writing Mention Florists' Exchange

Christmas green was a drug on the market and sold at any price offered. Mistake was scarce, but this market has not as yet made much of a call for this material. Holly was sent here in large quantities and every grocer, vegetable man, street vendor and corner store had it on sale at cut rates that almost precluded the handling of it by florists. It was in far better condition than usual. Some southern smilax and pines were also in good supply.  
Club Notes.  
The regular monthly meeting of the Florists and Gardeners' Club was held last Friday evening instead of this week on account of Christmas. There was but little business transacted, the time being mostly devoted to the discussion of ladies' night which will occur on January 28.  
A large delegation of the club members made a visit to the greenhouses of S. J. Reuter at Westcott on Friday and enjoyed a most profitable day.  
Jettings.  
Dr. Wheeler, of the Rhode Island Experiment Station at the Rhine Agricultural College, has discovered a way of making an analysis of some of the products and soil of the college lands, the presence of magnesium in quite a large quantity.  
W. H. M.

**Houston, Tex.**  
The Flower, Fruit, and Vegetable Festival held here December 6 to 11, was a grand success.  
Jack Frost visited us on the night of the 7th of December, the thermometer sinking 28 degrees above zero. Everything lay laid low in the way of outdoor roses and other flowers.

**SHEEP MANURE**  
Cleaned and prepared expressly for florists' use. You will find it the same as article. For references to its being first-class I refer you to Henry F. Michel, 105 Market Street, Philadelphia, Pa. Trial order of 150 lbs. \$1.80; per ton \$35.00. Cash with order.  
Hermes Hoses will be taken to exchange.

**GODFREY ASCHMANN,**  
1012 Walnut St., Philadelphia, Pa.  
When Writing Mention Florists' Exchange

**TOBACCO STEMS.**  
Strong and Fresh, 30 lb. bales, \$1.00 per bale. Gloxinia, cholan mixed, 50 cts. per doz., \$1.00 per 100, postpaid.  
**COLD FISH.** Fine healthy stock, 50 cts. per 100; no charge for cans, salt shipment by express.  
**Fish Food,** per doz. boxes, 40 cts.  
**H. G. FAUST & CO., 64 & 66 N. Front St., Philadelphia, Pa.**  
When Writing Mention Florists' Exchange

**.. Elixir ..**  
**Fertilizer**  
Is a pure natural product and a most nutritious food for plants.  
We invite comparison with all other FERTILIZERS and will gladly send you a sample of our LIBERAL and most improved FERTILIZER.  
Send for address  
**Elixir Fertilizer Co., 107 W. 133d St., New York.**  
When Writing Mention Florists' Exchange

**STANDARD FLOWER POT.**  
In any quantity, and of the best. Get my price list and circulars free.  
**W. N. ERNEST, station M, Washington, D. C.**  
When Writing Mention Florists' Exchange

**MYERS & CO.,**  
**Greenhouse Builders,**  
Steam and Hot Water Engineers,  
1614-1620 S. Ninth St., Philadelphia, Pa.  
When Writing Mention Florists' Exchange

**KILL IT! KENTUCKY EXTRACT OF TOBACCO.**  
Is Harmless to the Plants  
It Kills Your BUGS  
**SURE**  
In ONE Fumigation. For free particulars, write to  
**The Kentucky Extract Co., Columbus, O.**  
FOR SALE BY SEED STORES.  
When Writing Mention Florists' Exchange

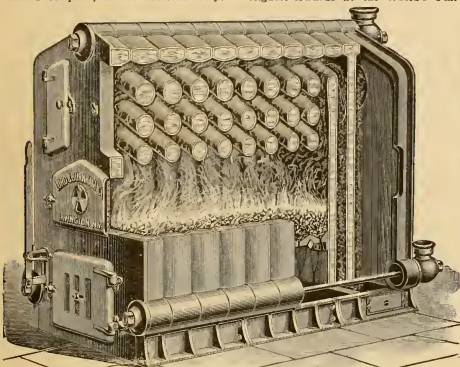
**SCOLLAY'S IMPROVED PUTTY BULB**  
For Glazing Sash, Etc., —ALSO THE—  
**PATENT PLANT SPRINKLER**  
For sale by your Seedman or sent, postpaid, for \$1.00.  
**JOHN A. SCOLLAY,**  
74 & 76 Myrtle Ave., BROOKLYN, - N. Y.  
SEND STAMP FOR CATALOGUE.  
When Writing Mention Florists' Exchange

### LORD & BURNHAM CO.,

Horticultural Architects and Builders and Manufacturers of Heating and Ventilating Apparatus.

(Established 1856.)

Plans and estimates furnished on application for Heating and Ventilating Apparatus erected complete, or for material only. Highest Awards at the World's Fair.



NEW SECTIONAL HOT WATER HEATER.

Specially adapted to large ranges. Will heat up to 16,500 feet of glass. Highest economy. Moderate cost. Also heaters for smaller work. Send six cents postage to New York office for latest catalogue of Heating and Ventilating Apparatus.

NEW YORK OFFICE: 160 FIFTH AVE., COR. 21ST ST.

When Writing Mention Florists' Exchange.

GENERAL OFFICE AND WORKS: IRVINGTON-ON-HUDSON, N. Y.

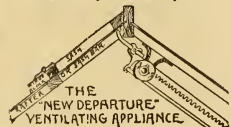
**CYPRESS**  
GREENHOUSE MATERIAL OF MANY DESCRIPTIONS

**JOHN C. MONINGER CO.**  
412 to 422 HAWTHORNE AV. CHICAGO, ILL.

### HARMONY

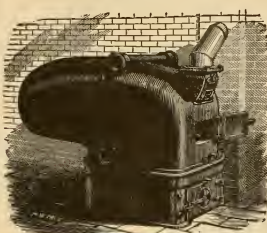
is our hobby! Harmony of color, not of sound. Our sample cards are practical and will help you to preserve and beautify your home. Send for them. JOHN LUCAS & CO., Philadelphia, New York and Chicago. When Writing Mention Florists' Exchange

**IF YOU WANT A GOOD SASH LIFT**  
For a Very Little Money Get



THE 'NEW PATENT' VENTILATING APPLIANCE.  
For Descriptive Catalogue Send to J. D. CARMODY, Evansville Ind. When Writing Mention Florists' Exchange

## GREENHOUSE HEATING AND VENTILATING, Horticultural Architecture and Building.



Mention paper

### Hitchings & Co

ESTABLISHED 1844.

233 Mercer Street, NEW YORK.

**FIVE PATTERNS OF BOILERS. NINETEEN SIZES.**

Perfect Sash Raising Apparatus.

Greenhouses, Greenhouses, Etc., of Iron Frame Construction erected complete or the Structural Iron Work shipped ready for erection.

Iron Frame Benches with the "Perfect Drainage Bench Tile" or Slate Tops.

SEND 4c. POSTAGE FOR ILLUSTRATED CATALOGUE.

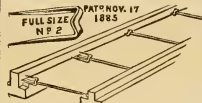
## GLASS! For Greenhouses, Conservatories, Graperies, Hotbeds and all other purposes, at Lowest Rates. GLASS!

**N. COWEN'S SON, 392 & 394 West Broadway, New York.** Formerly 184 and 156 So. Fifth Avenue.

Get our Figures before buying Glass. Estimates Freely Given When Writing Mention Florists' Exchange.

**CALIFORNIA RED CEDAR**  
Never Decays.  
**A. DIETSON & CO. 819 Sheffield Avenue, CHICAGO.**

RED CEDAR AND CYPRESS GREENHOUSE MATERIAL.  
When Writing Mention Florists' Exchange.



When Writing Mention Florists' Exchange

### THE VAN REYPER PERFECT GLAZIERS' POINTS

No rights or lefts. Prices per box of 1000, 60c. by mail, 75c.; in lots of 5000 by ex., 55c. per 1000.

**HENRY A. DREER, 714 Chestnut St., Phila., Pa.**

SEND FOR OUR NEW CATALOGUE, WHICH SHOWS

## The New Automatic Cable Ventilator

As it is put up in the house complete. We also give you prices with a guarantee that each machine sent out will operate for years successfully. Sell machines now made in two sizes.

**A. Q. WOLF & BRO., Dayton, Ohio.**

When Writing Mention Florists' Exchange

## DON'T SYRINGE WITH COLD WATER

It lowers the vitality of your Stock, but write for particulars of my Tempering Apparatus **HENRY W. GIBBONS, 134 LIBERTY STREET, NEW YORK.**

When Writing Mention Florists' Exchange

## PIPE VALVES

Wrought Iron Pipe, Valves, Cocks, Fittings, also, for Steam and Hot Water; Rubber Hoses, Pumps and Well Points.  
**WM. H. KAY, 42 Day St., New York.**

When Writing Mention Florists' Exchange

## HAVE RICH MELLOW LAND.

**ROUND TILE**  
That condition is sure to follow through draining with **AGRICULTURAL DRAIN TILE.** For 45 years we have been making these and better Tiles than any of them. Green Tile, "Flintless" and Blue Laid and Trough Tiles. Esoplastic sidewalk Tile. We Supply Mosaic Colors, Plaster, Lime, Cement, etc. Write for prices. **John B. Jackson, 11 Canal Alley, N. Y.**

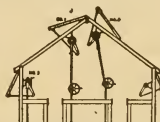
When Writing Mention Florists' Exchange

## GLASS FOR GREENHOUSES, CONSERVATORIES, GRAPERIES, HOTBEDS AND FLORISTS' USE GENERALLY, AT LOWEST RATES.

**L. HERRIS & SON, 497 W. BROADWAY, NEW YORK, 88 LIBERTY ST., NEW YORK**  
Ret. Benton and Eleventh Sts. Ret. Broadway and Church Sts.  
When Writing Mention Florists' Exchange

## STANDARD VENTILATING MACHINE.

**EQUAL IT IN Strength AND Durability**  
Send for Catalogue.



**NOTHING Fimsy OR Complicated about it.**

**E. HIPPARD, YOUNGSTOWN, OHIO.**  
When Writing Mention Florists' Exchange

## TRADE GREENHOUSES.

THE BEST MADE.

"Florists" Get Your Plans and Estimate from **PLENTY'S HORTICULTURAL WORKS,**

**148-156 Randolph Ave., JERSEY CITY, N. J.**  
When Writing Mention Florists' Exchange



**GALVIN & CO.,**  
4 OROWAY PLACE, BOSTON, MASS.  
**WHOLESALE FLORISTS**  
AND DEALERS IN FLORISTS' SUPPLIES.  
All orders Cut Flowers to be made in accordance with conditions solicited. We command the best market.

**Wholesale Florists** **JOBBERS IN**  
GARDENING, **FLORIST'S**  
BUSHING, **SUPPLIES.**  
ROSES.  
*N. F. McArthur*  
**FLORISTS' VASES.**  
Horticultural Architects.  
84 HAWLEY STREET, - BOSTON.

**GEO. A. SUTHERLAND,**  
SUCCESSOR TO WM. J. STEWART,  
**CUT FLOWERS AND FLORISTS' SUPPLIES**  
**WHOLESALE.**  
67 Bromfield St., Boston, Mass.

**WM. J. BAKER,**  
**Wholesale Florist,**  
1432 So. Penn Square,  
PHILADELPHIA, PA.

**DUMONT & CO.,**  
**WHOLESALE FLORISTS**  
CARNATIONS A SPECIALTY.  
No. 1935 Filbert St., Philadelphia.  
PHONE 3022 D.

**S. FROWET,**  
**Wholesale Florist,**  
17 North 13th Street,  
PHILADELPHIA, PA.  
Commitments Solicited. Special Attention Given to Shipping Orders.

**CHAS. H. MILLER,**  
**Wholesale Florist**  
No. 6 So. 19th Street,  
PHILADELPHIA, PA.

**EDWARD REID,**  
**Wholesale Florist**  
1526 RANSTAD STREET,  
Bel. Market & Chestnut Sts., PHILADELPHIA, PA.  
All CUT FLOWERS in Season.  
Phone 2066 A.

**WM. C. SMITH,**  
**Wholesale Florist,**  
40 S. 16TH ST.,  
PHILADELPHIA, PA.  
Commitments solicited.  
Roses, Carnations, etc.

**Buffalo Cut Flower Exchange**  
**WHOLESALE COMMISSION.**  
COMMISSIONS SOLICITED.  
481 Washington St., BUFFALO, N. Y.  
Telephone, Seneca, 1365.

**ASPHARUS MOSIS NIVUS,**  
**W. H. ELLIOTT,** - Brighton, Mass.  
When Writing Mention Florists' Exchange

**St. Joseph, Mo.**  
The mercury stood at 40 degrees at 4 P. M., and at 20 degrees at 6 o'clock, 13th and 14th, and the following morning. Such changes in the temperature, with the wind blowing a gale, make it difficult to get a correct idea, but from all reports no serious damage was done.  
"Violets, violets, who has violets?" is the cry. They seem to be a thing of the past.  
Romans and narcissi are in, equal to the demand.  
Beauty is scarce. Teas are plentiful and the quality is very good. The supply of carnations is not large, but equal to demand. There have been more calls for anthurus this season than usual.  
A few home weddings of late have created a demand for decorative flowers for the parlors and bedrooms. If weather stays bright there will be a fair supply of flowers for Christmas, but if cold and cloudy, as at present, some one will be short when the rush comes.  
Last season the market was flooded with Christmas trees and greens, but from present indications the supply will not be so large this year.

**Chicago.**  
Condition of Stock and Market.  
We are now into Christmas week, and a pretty good estimate can be formed as to the condition of stock and prices in this market. That, however, are going to be scarce and high is now a positive fact; for the home-grown stock of the last days did not materialize, and at this writing, even if they do come, they will be too late to help matters for the holidays. There is not a wholesale house doing a shipping business but what is refusing orders. This is hard lines when prices are high and something can be made from sales. The principal difficulty appears to be uncertainty of the supply and as distant shipping time is here, and no show of stock on hand, lots of outsiders look for to be disappointed. Every variety list shows high prices. Teas range from \$8 to \$18 per 100, some excellent long-stemmed La France at Beutler's this week bidding stiff at \$25, but they are grand; and what a rose this is when it is in bud. Beauty will be very scarce; medians and shorts are not in good condition, owing to dry days.  
Of carnations we expect at the last moment to see something more of a crop found, but even these are apt to be all wanted. The following is a list of prices, - something phenomenal for this city: Mayor Figure, \$8 to \$10; Jubilee and Mrs. Anthony, 50 to 75; Argyle and Flora Hill, \$6 to \$8; select ordinary varieties, \$4 to \$10; good stock, \$4 to \$6. This shows that fancy varieties are making their mark, but there are not many here who grow them so far.  
Lycopodium very plentiful and cheap. J. C. Vaughan, W. W. Barnard, Vaughan, Whitson & McKinnon at Hunt each have a little army making up wreaths, and all say they can hardly fill orders at the best. Prices are very scarce; as low as \$1.50 per 100 pounds; \$2.50 to \$3 being a top price. Made up light-weight plants are sold in lots of 100 to 100 yards in 500-yard lots, heavy going at \$8.  
Lily is now in much better condition and fairly well berried; there is an immense quantity around, but likely not more than the market requires.  
As to pot plants there is no great choice and no large stock of anything. Cheap primulas are sold in a variety, and also a few cyclamen. It looks as though there is an opening for pot grown plants. Few azaleas are around.

**Chicago.**  
"Hold-Up" Epidemic.  
A. Neuner, formerly of the firm of Nauz & Neuner, Louisville, Ky., now at Vaughan's place of flowers, was assaulted, stabbed, and robbed on the night of the 11th. He will be out again this week. Harry Kelly, proprietor Brook Co., was held up and relieved of his change (\$90c) on going to his home.  
Fred Hills, senior, in some splendid mimicon which brings \$1.50 per dozen. It is of the Myg strain.  
EDGAR SANDERS.

**St. Louis.**  
Dull Weather Shortens Supply.  
Continued dull weather, raining when it wasn't snowing, and cloudy at all times for the past ten days has shortened out the supply of flowers. Advance Christmas prices are higher than they have been in this city for several years. Very little stock remaining in us growers are saving every thing for the 24th. It is impossible to predict what prices will be when the stock is dumped into the commission houses on the last day, and an attempt is made to dispose of it.  
If present rates are maintained the general public will be obliged to content itself with diamonds, Joultou pottery and other trifles, leaving the purchase of such expensive articles as flowers to the fortunate possessors of abundant wealth.  
Bride, Bridesmaid, Kaiserin, and \$1.00 of that class that sold last week at \$1.50 to \$2 per 100, are said to be worth just ten times as much for Christmas delivery. Beauty are not plentiful and are offered at \$9 to \$12 per dozen for the best. Meteor are scarce, but wholesalers say they will be worth \$25 per 100.  
Six and even eight dollars per 100 is asked for the best carnations; but it is probable that this price will thaw out by the evening of December 24. Second quality sell for \$2 to \$2 per 100.  
Hyacinths, valley, and narcissus receive much enhanced at 4c to 6c; mignonette is plentiful at 8c to 10c; anilux is of poor quality and has advanced to 15c. California and double violets are held at \$3 per 100; common single and Southern stock 50c to 70c per 100.

The retailers have very few flowering plants to offer, but there is a good variety of palms and other decorative plants. The demand for fern dishes less than for former years. Christmas greens are going fairly well. Holly is plentiful and cheaper than it has ever been. Mistletoe scarce, the best selling at 25c per pound.  
Notes.  
Jordan Ford Co., had the only stock of poinsettias in this market, and they were of good quality they sold readily at good prices.  
Fred Osterling has returned to this city and will have a flower store on Vandeventer avenue near Morgan street.  
Wm. Huckle, formerly of Belleville, Ill., will shortly fit up a handsome flower store with a nursery attached, at the corner of Grand avenue and Shenandoah street.  
CHAS. YOUNG.

Cut Strings, 8 to 10 feet long 50 cts. each.  
Shipped to any part of the country.

**A Fire.**  
Fire broke out at 2 A. M., on the 18th, in one of George Reiberg's boiler sheds, burning off the ends of two Meteor houses and a similar house. The heating apparatus was uninjured and total damage was not great; it would have been even less had not the lunging of the iron beam on arrival.  
**Grower.**  
Kahons Bros. Avondale, this city, have some finely grown cyclamen in 6, 7, and 8-inch pots, shown November, 1896. Some of the 8-inch have foliage 1 1/2 inches across. They have also a few plants of two and three years' growth, the latter fully grown and all in perfect health. They have grown their own seed for three years past, the stock originally from Vaughan.  
The sturdy growth may be attributed to the fact that the plants are occupied in a front bench close to the glass or the bench of a small house.

**Chicago - "Hold-Up" Epidemic.**  
A. Neuner, formerly of the firm of Nauz & Neuner, Louisville, Ky., now at Vaughan's place of flowers, was assaulted, stabbed, and robbed on the night of the 11th. He will be out again this week. Harry Kelly, proprietor Brook Co., was held up and relieved of his change (\$90c) on going to his home.  
Fred Hills, senior, in some splendid mimicon which brings \$1.50 per dozen. It is of the Myg strain.  
EDGAR SANDERS.

**St. Louis.**  
Dull Weather Shortens Supply.  
Continued dull weather, raining when it wasn't snowing, and cloudy at all times for the past ten days has shortened out the supply of flowers. Advance Christmas prices are higher than they have been in this city for several years. Very little stock remaining in us growers are saving every thing for the 24th. It is impossible to predict what prices will be when the stock is dumped into the commission houses on the last day, and an attempt is made to dispose of it.  
If present rates are maintained the general public will be obliged to content itself with diamonds, Joultou pottery and other trifles, leaving the purchase of such expensive articles as flowers to the fortunate possessors of abundant wealth.  
Bride, Bridesmaid, Kaiserin, and \$1.00 of that class that sold last week at \$1.50 to \$2 per 100, are said to be worth just ten times as much for Christmas delivery. Beauty are not plentiful and are offered at \$9 to \$12 per dozen for the best. Meteor are scarce, but wholesalers say they will be worth \$25 per 100.  
Six and even eight dollars per 100 is asked for the best carnations; but it is probable that this price will thaw out by the evening of December 24. Second quality sell for \$2 to \$2 per 100.  
Hyacinths, valley, and narcissus receive much enhanced at 4c to 6c; mignonette is plentiful at 8c to 10c; anilux is of poor quality and has advanced to 15c. California and double violets are held at \$3 per 100; common single and Southern stock 50c to 70c per 100.

The retailers have very few flowering plants to offer, but there is a good variety of palms and other decorative plants. The demand for fern dishes less than for former years. Christmas greens are going fairly well. Holly is plentiful and cheaper than it has ever been. Mistletoe scarce, the best selling at 25c per pound.  
Notes.  
Jordan Ford Co., had the only stock of poinsettias in this market, and they were of good quality they sold readily at good prices.  
Fred Osterling has returned to this city and will have a flower store on Vandeventer avenue near Morgan street.  
Wm. Huckle, formerly of Belleville, Ill., will shortly fit up a handsome flower store with a nursery attached, at the corner of Grand avenue and Shenandoah street.  
CHAS. YOUNG.

**St. Louis.**  
Dull Weather Shortens Supply.  
Continued dull weather, raining when it wasn't snowing, and cloudy at all times for the past ten days has shortened out the supply of flowers. Advance Christmas prices are higher than they have been in this city for several years. Very little stock remaining in us growers are saving every thing for the 24th. It is impossible to predict what prices will be when the stock is dumped into the commission houses on the last day, and an attempt is made to dispose of it.  
If present rates are maintained the general public will be obliged to content itself with diamonds, Joultou pottery and other trifles, leaving the purchase of such expensive articles as flowers to the fortunate possessors of abundant wealth.  
Bride, Bridesmaid, Kaiserin, and \$1.00 of that class that sold last week at \$1.50 to \$2 per 100, are said to be worth just ten times as much for Christmas delivery. Beauty are not plentiful and are offered at \$9 to \$12 per dozen for the best. Meteor are scarce, but wholesalers say they will be worth \$25 per 100.  
Six and even eight dollars per 100 is asked for the best carnations; but it is probable that this price will thaw out by the evening of December 24. Second quality sell for \$2 to \$2 per 100.  
Hyacinths, valley, and narcissus receive much enhanced at 4c to 6c; mignonette is plentiful at 8c to 10c; anilux is of poor quality and has advanced to 15c. California and double violets are held at \$3 per 100; common single and Southern stock 50c to 70c per 100.

The retailers have very few flowering plants to offer, but there is a good variety of palms and other decorative plants. The demand for fern dishes less than for former years. Christmas greens are going fairly well. Holly is plentiful and cheaper than it has ever been. Mistletoe scarce, the best selling at 25c per pound.  
Notes.  
Jordan Ford Co., had the only stock of poinsettias in this market, and they were of good quality they sold readily at good prices.  
Fred Osterling has returned to this city and will have a flower store on Vandeventer avenue near Morgan street.  
Wm. Huckle, formerly of Belleville, Ill., will shortly fit up a handsome flower store with a nursery attached, at the corner of Grand avenue and Shenandoah street.  
CHAS. YOUNG.

**St. Louis.**  
Dull Weather Shortens Supply.  
Continued dull weather, raining when it wasn't snowing, and cloudy at all times for the past ten days has shortened out the supply of flowers. Advance Christmas prices are higher than they have been in this city for several years. Very little stock remaining in us growers are saving every thing for the 24th. It is impossible to predict what prices will be when the stock is dumped into the commission houses on the last day, and an attempt is made to dispose of it.  
If present rates are maintained the general public will be obliged to content itself with diamonds, Joultou pottery and other trifles, leaving the purchase of such expensive articles as flowers to the fortunate possessors of abundant wealth.  
Bride, Bridesmaid, Kaiserin, and \$1.00 of that class that sold last week at \$1.50 to \$2 per 100, are said to be worth just ten times as much for Christmas delivery. Beauty are not plentiful and are offered at \$9 to \$12 per dozen for the best. Meteor are scarce, but wholesalers say they will be worth \$25 per 100.  
Six and even eight dollars per 100 is asked for the best carnations; but it is probable that this price will thaw out by the evening of December 24. Second quality sell for \$2 to \$2 per 100.  
Hyacinths, valley, and narcissus receive much enhanced at 4c to 6c; mignonette is plentiful at 8c to 10c; anilux is of poor quality and has advanced to 15c. California and double violets are held at \$3 per 100; common single and Southern stock 50c to 70c per 100.

The retailers have very few flowering plants to offer, but there is a good variety of palms and other decorative plants. The demand for fern dishes less than for former years. Christmas greens are going fairly well. Holly is plentiful and cheaper than it has ever been. Mistletoe scarce, the best selling at 25c per pound.  
Notes.  
Jordan Ford Co., had the only stock of poinsettias in this market, and they were of good quality they sold readily at good prices.  
Fred Osterling has returned to this city and will have a flower store on Vandeventer avenue near Morgan street.  
Wm. Huckle, formerly of Belleville, Ill., will shortly fit up a handsome flower store with a nursery attached, at the corner of Grand avenue and Shenandoah street.  
CHAS. YOUNG.

**HEADQUARTERS** in Western New York. Try us  
**ROSES, CARNATIONS AND ALL SEASONABLE FLOWERS.**  
**WM F. KASTING,** Wholesale Commission Florist  
495 Washington Street, Buffalo, N. Y.  
Also Dealer in Florists' Supplies & Wire Goods

**MAX RUDOLPH,**  
**Wholesale Florist**  
All Seasonable CUT FLOWERS.  
**FINE ROSES.**  
Shipping orders a specialty. Come gentlemen solicited.  
11 W. 12th St., - CINCINNATI, O.

**H. L. SUNDERBRUSH CO.,**  
**Wholesale Commission Florists,**  
4th and Walnut Streets,  
CINCINNATI, OHIO.  
Commitments Solicited. Special Attention Given to Shipping Orders.

**C. A. KUEHN,**  
**WHOLESALE FLORIST,**  
1122 Pine St., St. Louis, Mo.  
A COMPLETE LINE OF WIRE DESIGNS.

**St. Louis**  
**Cut Flower Co.**  
WHOLESALE FLORISTS,  
1620 Olive St.  
ST. LOUIS, MO.

**C. W. WORS,**  
**Wholesale Florist,**  
313 N LEFFINGWELL AVENUE,  
ST. LOUIS, MO.  
FINE ROSES - Shipped carefully to all parts of the country.

**E. G. HILL & CO.**  
**Wholesale Florists**  
RICHMOND, INDIANA.  
When Writing Mention Florists' Exchange

**CUT FLOWERS**  
**NARCISSUS** Paper White Grandifloras, 8c to 10c; Milled 8c to 10c; Cash with order.  
**MISSIS WILSON,** 8c; Montgomery, Ala.  
When Writing Mention Florists' Exchange

**JOIN NOW**  
to  
**SECURE FULL SERVICE** 1898  
Membership dates from January 1  
**NATIONAL FLORISTS' BOARD OF TRADE**  
C. K. LOEBE, Sec'y, 271 Broadway, NEW YORK.

**Business Paper**  
**FOR Business Men:**  
**The FLORISTS' EXCHANGE**

# SAVE 50% DUTY

**ON METAL FLORAL DESIGNS** By Business of the Manufacturer. Also on **PREPARED CYCAS PALM LEAVES** Largest Stock, Best Goods, Lowest Prices. **ALL FLORISTS' SUPPLIES SECOND TO NONE. WRITE FOR CATALOGUE.**

**A. HERRMANN.** 404, 406, 408, 410, 412 East 34th Street, NEW YORK CITY.  
Manufacturer of METAL FLORAL DESIGNS, Importer and Dealer in FLORISTS' SUPPLIES.  
When Writing Mention Florists' Exchange

## Florists' Supplies.

**Largest Stock in the Country.**  
All goods up to date, and of superior quality.  
Write us for prices and other information.

Our new Catalogue sent on application to the trade only.  
**H. BAYERSDORFER & CO.,** 56 N. Fourth Street, Philadelphia, Pa.  
When Writing Mention Florists' Exchange

## REED & KELLER FLORISTS' SUPPLIES

122 W. 25th Street, NEW YORK CITY.  
When Writing Mention Florists' Exchange

## GOLD FISH.

**Fine Healthy Stock.**  
Medium to large size, \$10.00 per 100. Cash with order. No charges for shipping extra.  
Gold Fish can be shipped by Express thousands of miles with safety and are a profitable attractive stock to handle.  
Full line of Aquaria Supplies.  
**KEENAN'S SEED STORE.**  
12 and 6114 Wentworth Ave., CHICAGO.  
When Writing Mention Florists' Exchange

**EVERY FLORIST OUGHT TO ENJOY HIS GLASS AGAINST RAIL.**  
For particulars address **JOHN G. KELLER, Secy, Riddle River, N.J.**  
When Writing Mention Florists' Exchange

**SUPPLIES** of all kinds for Florists store, greenhouse and garden. **HOSEA'S** do: Seeds of choicest plants and bulbs in season. Metal Floral Designs for cemetery decorations. Basket, Pottery, Plantstands for the home, trade, China and Metal Fern Displays rich assortment. **HOLLY** Cane Flowers, Christmas Greens and Sand for new list to **AUGUST ROLER & SONS,** 52 Day St., New York.  
When Writing Mention Florists' Exchange

**DRACAENA SANDERIANA** from 3 in. pots \$3.00 per doz.  
**ANTHERICUM PICTURATUM** from 4 in. pots, \$1.00 per doz.; 3 in. pots, 75c. per doz.  
**VARIEGATED VINCAS,** from 4 in. pots \$5.00 per 100.  
**C. EISELE, 11th & Jefferson Sts., Philadelphia, Pa.**  
When Writing Mention Florists' Exchange

**JOHN CONLEY & SON,**  
MANUFACTURERS OF  
**TIN FOIL**  
2 and 4 Dominick Street,  
NEW YORK.  
When Writing Mention Florists' Exchange

**HAVE YOU EVER TRIED THE MEYER GREEN SILKALINE?**



Price \$1.25 per lb. For sale everywhere. Fancy colors for tying purposes. **JOHN C. MEYER & CO.,** 87 Summer Street, BOSTON, MASS., U. S. A.  
When Writing Mention Florists' Exchange

**WE ARE HEADQUARTERS FOR REFRIGERATORS**  
Especially Adapted for Florists' Use.  
A Complete Stock on hand, or we make to order any size or style.  
**CHOCOLATE COOLER CO., GRAND MICH.,**  
When Writing Mention Florists' Exchange

**NOW A PRINTED NOVELTY!**  
**Floral Calendars**

## Boston Florist Letter Co.



This wooden box nicely stained and varnished, 18-20 1/2 inches in two sections, one for each size letter, gives **with first order of 500 letters.**  
Book Letters, 118 or 2 inch size, per 100, \$2.00  
Single Letters, \$1.00  
Furnished with each letter or word.  
Used by leading florists everywhere and for sale by all wholesale florists and supply dealers.  
**N. F. MCCARTHY, Treas. & Manager,**  
125th St., BOSTON, MASS.  
When Writing Mention Florists' Exchange

For Florists  
Novel and Original  
A Harmony of Art and Nature  
Very Flowery Effects  
Extolled by Everybody  
Variety in Styles and Sizes  
Prices Moderate  
Needed Now by Every One  
Samples mailed on receipt of 20 cents in stamps

**DAN'L B. LONG, Publisher,**  
BUFFALO, N. Y.  
When Writing Mention

## PETER HENDERSON & CO.'S

## IMPORTANT ANNOUNCEMENT

# :: NEW DEPARTMENT FOR 1898.

*Henderson's Seeds are Genuine Only When Supplied by Them Direct to the Planter.*

**WHILE** we have withdrawn from the Wholesale Jobbing Seed Trade we respectfully announce that **WE WILL STILL CONTINUE TO SUPPLY FLORISTS AND MARKET GARDENERS...**

with our Superior Seeds, Plants and Bulbs, for their **OWN** planting, at our lowest wholesale prices as heretofore. Our Wholesale Catalogues will be mailed to our customers as soon as ready, early in January, and to others on application.

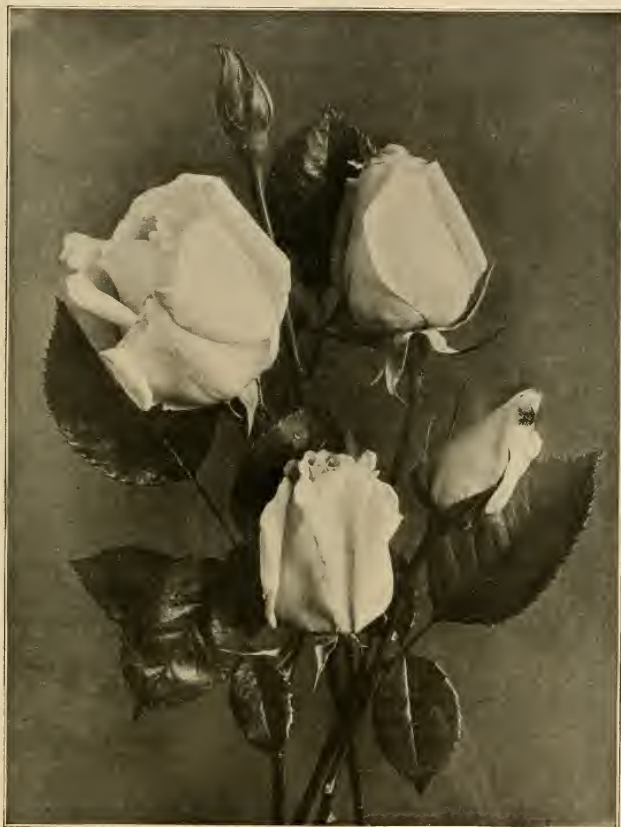
The only branch of the seed business that we are discontinuing is the supplying of seeds to storekeepers and others to sell again.

# PETER HENDERSON & CO. 35 and 37 CORTLANDT ST. NEW YORK.

# The Florists' Exchange Novelty Supplement.

NEW YORK, JANUARY 30, 1897.

THE NOVELTIES represented in this Supplement are reproduced from the catalogues for 1897, and the accompanying letter-press descriptions are those of the originators, introducers or disseminators.



NEW HYBRID TEA ROSE SOUVENIR DU PRESIDENT CARNOT.

This rose has attracted a great deal of attention as well as being the winner of highest honors wherever shown. The following description appears in the EXCHANGE of October 31 last: "Such stems and foliage are rarely seen on any rose. The buds are of great size. To describe the flower it would be well to have a comparison, but we know of none. The foliage is darker and larger, and perhaps more abundant than that of Kaiserin Augusta Victoria; the stems is also thicker, more rigid and the spine stronger. The build and make-up of the flower is a good deal like that of the above named variety, and unfolds in pretty much in the same manner, but being longer in the petal it makes a longer bud. In color we know of none resembling it.

The first petals to unfold are white; these are followed by others with a delicate pink tint, while the centers is made up with a vivid salmon, the reflection of which when cast through the entire flower produces that most desirable of all shades, from a commercial standpoint—the Daybreak color. Of course, it is not a solid color like that of the carnation, but to help the fancy we borrow the simile. Its keeping qualities also prove to be A No. 1." The introducers say it is "a hybrid tea, a strong free grower, very free in bloom, throws up st. ong, stiff canes, has handsome foliage; produces a large pointed bud; petals thick and wax-like."

This rose is being introduced by several well-known American firms.

## NEW HARDY WATER LILIES.

**Nymphaea superba.**—A garden hybrid, originating with a most enthusiastic fish culturist. Both foliage and flowers are the largest of all hardy nymphaeas, the leaves not uncommonly growing 23 inches in diameter, while we have often measured flowers that were 12 inches from tip to tip. The petals are long, narrow and pointed, of the purest snow white, and open well back, displaying with striking effect the myriads of long, golden-yellow stamens which dance around the center of the flower. As age advances, the stamens change to brown, and finally almost black, giving the flower quite a different appearance from those just opening. The leaves on the upper side are rich tan green, and underneath, light maroon. When they float on the water their edges turn up, after the manner of the Victorias, but where the plants are allowed to assume a natural growth, becoming somewhat crowded, both leaves and flowers rise up on stiff, rank stalks a foot or more above the water. This unique habit adds wonderfully to the majestic appearance of the plant, and pre-eminently characterizes it from all other water lilies. In vigor, it excels all other varieties in cultivation. It is amphibious, so to speak, luxuriating regardless of drouth or floods. The past summer we had some plants growing in a tank where, during the drouth of June and July, the water became very low, in places exposing the roots. The first of August, a heavy rain filled the tank, completely submerging the lilies under six feet of water, and to our great surprise, in less than three days both leaves and flowers were on the surface, fresh and vigorous as ever. It does fairly well in tubs, but is pre-eminently a pond plant.

**Nymphaea candidissima rosea.**—This is a new hybrid hardy pink water lily. It is a hybrid of *N. odorata* rosen and *N. candidissima*, and in size, form and habit is intermediate between the two. The foliage is dark green above and light red underneath. The flowers are 6 to 8 inches in diameter, highly fragrant, and very freely produced, while the blooming season almost equals in length that of the *candidissima*. The first morning the flower opens it is a deep, rosy pink, even darker than *N. odorata* rosen. The second morning it is several shades lighter, being light rose. The third morning it is still fainter, and the fourth almost white. A single plant often represents every shade of color, from deep pink to pure white, at one time.

**Nymphaea erecta.**—This new erect-growing hardy water lily is supposed to be a cross between *N. odorata* and *N. alba candidissima*. In outline and habit the foliage is intermediate between its parents. The upper side is a dark reddish green, and the under side a bright maroon. The flowers eddily stand up nearly a foot above the leaves, on stiff, erect stems, in a most graceful manner, quite unlike any other hardy water lily. The flowers are of a good double, and have a fragrance equal to that of *odorata*. The petals are broad, wax white and somewhat "cupped," though not enough so to conceal the stamens. The plant is hardy, vigorous and healthy, and a clump of it is never without blooms from May to October.

These are from the Catalogue of G. B. Maulder, Smith's Grove, Ky.

**CHRYSANTHEMUM Miss Lottie D. Berry.**

This variety was certificated under the name of Garret A. Hobart. It is a large, pure white incurved Japanese; very full and double, borne on a good, strong, stiff stem, well furnished with foliage up to the flower; blooms in mid season, and is



a first-class keeper. It secured the certificate of the Chrysanthemum Society of America, November 7, 1896. Our illustration shows the character and symmetry of the flower to perfection.

*From Catalogue of Pitcher & Mandi, Inc., Short Hills, N. J.*

**New Hardy Mammoth-Flowering HOLLYHOCKS.**

These exquisitely beautiful hollyhocks are an entire break from the old-style formal flowering ones. The flowers of this new Mammoth-flowering type measure up to 3½ inches in diameter, or over 15 inches in circumference—but their great merits lie in the

wondrous delicacy of coloring and texture; the semi-double flowers are gracefully composed of fringed and crinkled petals, resembling rosettes of daintiest crushed satin. The colors are shell pink, rose and ruby red. The plants are hardy and large robust growers; the flowers are not closely bunched up, like other hollyhocks, but gracefully and carelessly placed among the large leafy branches which exactly suits the airy style of the flowers, showing them off to the best advantage; every bud, clear to the top, develops into a flower, thereby considerably extending the flowering period, and as the flowers mature they drop from the stem, so that the plants are always



objects of beauty. We regret that our illustration does not do justice in these peerless New Mammoth-Flowering Hollyhocks.

*From the Catalogue of Peter Henderson & Co., New York.*

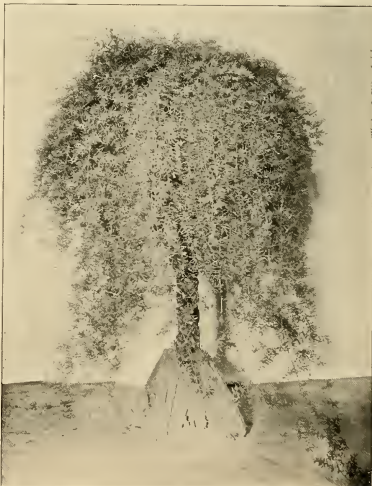
**NEW CHRYSANTHEMUM EVANGELINE.**

The type and form of this variety can be quickly described by simply calling it a white Kloto. Its size is 12 inches over, measuring from stem to stem, a solid mass of petals, in color almost paper white, individual petals measure ¼ inches, and intertwine into each other in such a manner that it makes one of the most exquisite chrysanthemums ever put up. And its good points do not end with the flower, for the stem



and foliage are well high perfect. This variety can be grown much closer than most others, as its clean, erect habit and stiff, straight stems, which average 2½ to 3 feet admit it. It was certificated at New York, Chicago and Philadelphia by the Chrysanthemum Society of America, and at the Philadelphia and Orange flower shows.

*Originated and introduced by John N. May, Summit, N. J.*



**ASPARAGUS SPRENGERI.**

The more this valuable new decorative green is seen, the more it is appreciated. Introduced by us only about a year ago, it is already grown by the thousands. Indeed, one enterprising Philadelphia florist recently bought 7,000 plants of us.

Our illustration hardly conveys a perfect idea of this beautiful plant. Its gracefulness and bright color always elicit exclamations of wonder. When well grown, it forms immense specimens in a couple of years, that will produce cut sprays 6 to 8 feet long. These remain fresh for much longer than any other green; in many instances for six weeks. As the roots are tuberous, the plant is able to stand heated atmosphere with greater impunity than can palms, ferns, etc.

*From the Catalogue of A. Blanc & Co., Philadelphia.*

### Chrysanthem Mrs. Robert Douglas.

This variety has a very large incurved bloom, and as a bronze should be a valuable acquisition, superseding Col. B. Smith. The color is a rich yellow, but the older petals on the inside become a good

### New Dahlia Grand Duke Alexis.

Without exception, the most unique dahlia, and the grandest ever introduced. We have frequently seen it 18 inches in circumference, most beautiful in form; some finer, color ivory white with pink in center; the petals, which are tubular in form, being just sufficiently opened at their extremity to show a faint shade of bluish or peach color, greatly enhancing the whole effect. A most admirable flower for cutting, as it remains fresh much longer than any dahlia we know of. The plant is elegant and robust-grower, with large, dark foliage, and bloomed freely for us during the past dry season, when nearly all other dahlias failed. It has been certified in France and England whenever exhibited.

From the Catalogue of A. Blanc & Co.

### NEW YELLOW CANNA BURBANK.

At last we have not only a clear, beautiful, yellow-flowered canna, but also a flower magnificent in size—fully twice as large as Mme. Crozy and similar kinds. This splendid plant has been produced from seed by the well-known horticulturist, Mr. Luther Burbank, of Sonoma Co., Cal. We made our first trial of the plant in our greenhouses last winter, hardly believing it possible that a flower of such size had been secured, or that it could be such a grand and almost pure yellow as described. But when it flowered with us, we found that it more than justified Mr. Burbank's claims. The flowers are truly gigantic in size, the three upper petals spreading fully 7 inches, and the form is really semi-double; toward the inner part the lower petals show fine crimson spots; all the rest of the flower is of a most beautiful rich canary yellow. The plant is a very strong grower, five to six feet high, with rich green leaves, very wide almost to the tips; its leaves are much thicker than those of the ordinary cannas, with a texture not unlike the rubber plant. Remembering that a growing clump of the Burbank often produces 15 to 20 flower spikes, its lovely and striking appearance can be imagined. This canna would take a prominent place as a decorative plant, even if its grand fringes of everblooming flowers were lacking. As a specimen decorative as well as a flowering plant for the greenhouse or private conservatory, it is the finest novelty in recent years. It makes a brilliant and constant show, flowers quickly and freely. The plants are easily produced in a short time and at such trifling cost that they can be lavishly used for house decorations at times when similar effects with expensive plants would mean a great loss.

From the Catalogue of J. C. Vaughan, New York and Chicago.

### New Carnation HARRISON'S WHITE.

This variety has excited a great deal of interest among carnationists, the announcement that it is a pure white sport from Scott being in the main responsible. Sports from Scott are by no means uncommon, but the most of them are only variations in shade, being either darker or lighter pinks. All such have been of little importance so far. Three years ago this white sport appeared on a Scott plant. Mr. Harrison took up at care of the cuttings, and succeeded in obtaining fine plants. These were well-cared for, and the result is to-day 150 healthy plants, bearing large, well-formed flowers in great profusion, of great

deal, so, for that reason it cannot be classed as a yellow. The florets are identical in form and texture with those of Major Bonaparte, the blooms measured fully 12 inches over, yet these were carried erect by stems furnished with balance right up to the flower. The variety scored 92 points before the New York committee of the Chrysanthemum Society of America.

T. H. Spaulding, Orange, N. J., is the originator and introducer.

### Gold Medal Rose "Jubilee."

This grand rose was raised in 1892 by Mr. M. H. Walsh, gardener to Jos. S. Fay, Esq., Woods Hill, Mass., and is a pedigree seedling—Prince Camille de Rohan x Louis Van Houtte. It was first exhibited before the Massachusetts Horticultural Society, July 1, 1893, and even at that early stage of its development it was deemed so meritorious that it received a "first class certificate of merit." Exhibited the following year, June 20, 1894, it sustained all that had been expected of it, but the special committee decided to subject it to another year's trial before passing upon it, for a rose that may win the "gold medal" must prove its worth by every test before the award is made. It was exhibited again on June 19, 1895, and commanded unbounded admiration. A special committee of experts visited Woods Hill to inspect it growing in the ground, and so, after three years of probation, it was triumphantly and deservedly awarded the Society's gold medal.

A technical description of the "Jubilee" rose is as follows: It is a true hybrid remontant rose, perfectly hardy, blooming in the Fall as well as in the early Summer, very vigorous, large, dark green foliage, one of its distinguishing features; short-stemmed flowers, as well as the stems, are freely, bloom most abundantly, three flowers and over on each shoot, the deal buds for the hardy garden rose. The flowers are very large, reaching six inches across under good culture; outer petals partially rolled and recurved when the flowers are mature, the center petals upright and very gracefully disposed, giving grace and finish without showing the center; they last a long time when cut. The buds are long and rounded, the petals falling away gracefully, revealing the rich velvety texture and grand coloring. The fragrance is strong, delightfully rich and very lasting.

The rich coloring and soft velvety sheen are beyond description, and must be seen to be understood and appreciated. A pure red in its deepest tone, shading to deep crimson red and velvety maroon red in the depths of the petals. "The coloring is alive," as one expressed it. "It fairly glows in its rich warmth of coloring," another said. The rich velvety finish to the petals is all its own, and is not even approached by any other rose yet introduced. It is admirable, unique, and, as Mr. F. Schuyler Matthews, the celebrated artist, said: "This rose contains the finest color, combined with pure color, of which nature is capable." It required careful study of the skill of the world's artists to produce this peerless rose, perfect in all its attributes, peerless in its magnificence, and it is to be assumed that nature will again require the centuries to produce its equal. It is ever produced—of nature is not prolific in reproduction.

From the Catalogue of Peter Henderson & Co.



THREE BLOOMS OF CARNATION HARRISON'S WHITE.

The shading shows the shape of the petals.

purity in color; and despite the fact that the plants are being largely used to supply cuttings, the flowers maintain their size to a marked degree. Much has been said about the character of the bloom and its similarity to the parent, also the nature of the growths. Experts have examined these with the result that the flower is pronounced similar to that of the parent. However, on Mr. Harrison's plants, there is this distinction, it is much more robust than his regular Scott in other houses, but when the pips, stems, grass, leads and breaks are all compared with those of Scott, they are none other than the same thing. The flower stem and the calyx are absolutely identical with the parent, but the petalage, in some instances, varies, being slightly flatter and broader, and the serrations are not so finely toothed or cut, yet many blooms can also be found with the same build, form and contour, this being more apparent now than in the early season. These slight variations in petalage are of no consequence, but rather help the flower than otherwise, giving it a larger spread and better appearance than the variety from which it has sprung. The plants are singularly healthy and propagate well.

John Harrison, Jersey City, N. J., originator and introducer.

**CHRYSANTHEMUM SYMPHONIA.**

The color of this chrysanthemum is a very beautiful shade of carmine pink, reverse soft silvery pink; it is an incurved and very compact well built flower, with the



ray petals drooping making it a very artistic and attractive bloom of medium size. As a bench variety this will prove very valuable as it only grows 18 to 24 inches high, with extra stout stem and handsome foliage. In season Nov. 6th to 20th, but can be kept a long time on the plant without damaging its qualities; crown or terminal buds. Gained 80 points at New York; 81 at Chicago.

From the Catalogue of John N. May, Summit, N. J.

**DWARF COCCOLOBA OR SEA GRAPE.**

This splendid foliage plant was pronounced by Chas. Kingsley, the noted author, "to be without exception the most beautiful broad-leaved plant" which he had ever seen. And he was right, for there is no other foliage plant so distinctly beautiful as this. The leaves are as large as a man's hand, almost round, thick and rigid, as if moulded out of wax, shining like dark velvet with a crimson mid-rib down each. The new growth is of the richest golden bronze. The foliage is exceedingly persistent, and a plant never becomes bare. This is a plant which the amateur cannot kill, unless he allows it to freeze, or burns it up. I have seen the plants remain in pots for weeks without water and seemingly without injury.

Description furnished by the Rose Valley Nurseries, Dengola, Ill.

**Rudbeckia Golden Glow.**

This is a form of Rudbeckia laciniata with perfectly double flowers from 3 to 4 inches in diameter and of a rich golden-yellow color. The plant is a hardy herbaceous perennial, and once planted will continue to grow and bloom indefinitely without further attention.

**Nasturtium Variegata.**

This is offered for the first time. The leaves are beautifully variegated deep green and pure white, giving the plant something the appearance of Nespeta glaberrima. It can be used for the same purposes as the nepeta, is more easily propagated and bears showy flowers in profusion.

From the Catalogue of John Lewis Childs, Floral Park, N. Y.

**Violet PRINCESSE DE GALLES (Princess of Wales).**

Though not a novelty in the strict sense of the word, this beautiful violet, which is comparatively new, we consider worthy of a place in our Novelty Supplement, the aim being to bring it more prominently before the trade, which it certainly deserves. Princess of Wales, as we have seen it grown, is probably the best single violet on the market to-day. It is of a vigorous growth, a very profuse bloomer, the stems being often over a foot in length. The flowers, as seen by the picture herewith presented, are



Single Violet Princess de Galles (Princess of Wales.)

very symmetrical, very large in size, one and a half inches in diameter not being uncommon, and have an extremely delicious fragrance. It is being introduced by several houses.

**New Geranium MARS.**

Mr. Eichholz, Waynesboro, Pa., the introducer, has the following to say of it:

"Mars is a seedling obtained from a lot of seeds bought of a New York firm by the late J. Nitterhouse. He thought a great deal of it, but his death made it impossible for him to put it on the market. We have given it a thorough trial in beds, in the open field and under glass. The flower is single, deep salmon center and distinct white edge, a most pleasing and new color combination in geraniums. As a market or home seller, we claim it to be a rival to such good sorts as Beauty of Poitevine, Paul Bruant, etc. It is perfectly sunproof, and produces a quantity of flowers—completely hiding the foliage which is of a deep green color with dark brown zone, making a grand contrast to the white and salmon of the flower. It will prove one of the finest border plants on account of its dwarfness, a great market geranium, a great Christmas and Easter plant when grown with a little care. It loves a cool temperature, that of a carnation house suits it best. It requires to be kept on dry side during Winter, like all geraniums, but avoid syringing when in bloom as the flowers are not waterproof. With a little extra attention the finest specimen plants can be grown."

**CHRYSANTHEMUM WESTERN KING.**

A large white, center incurving, outer florets reflexing. It is in perfection November 5 to 10; attains four feet in height when planted June 10. Parentage, Niveus and Eli. Hatch. It received first-class certificates at from the National Chrysanthemum Society of England, on October 28, and has been awarded certificates in the following cities: Philadelphia, Cleveland, Indianapolis, Chicago, Louisville, Syracuse, Worcester, and Providence, in fact, wherever shown.

In 1895 this variety was placed before the five committees of the Chrysanthemum Society of America, and scored as follows: New York, 85; Chicago, 87; Philadelphia, 95; Boston, 100; Cincinnati, 88—an average of 91 points. It was also the winner of the silver vase at Butte, Mont., as best seedling.

Nathan Smith & Son, Adrian Mich., are the originators and introducers.

**New Carnation, MRS. GEORGE M. BRADT.**

This variety is a seedling of 1896, raised by Fred. Dorner & Son, Lafayette, Ind. The color is clear white, heavily edged and striped with bright scarlet, giving it a very bright and cheerful appearance. Flowers large and full, with center petals standing



erect, giving the bloom a well-rounded form. Calyx resembling that of Mme. Albertini; habit strong and vigorous. This variety is now in its fourth year, and has proven the most even and constant bloomer from early to late. It was awarded a gold medal at Atlanta, being certificated at same place and at Chicago.

From Catalogue of Cottage Gardens (C. W. Ward, Manager), Queens, N. Y.

**NEW ROSE "CARMINE PILLAR."**

A charming plecture and a charming rose. This unique effect might be more often seen in gardens, did the owner but think of it. It can easily be grafted on the rose—a splendid rose with single flowers 12 to 15 inches in circumference—of the brightest rosy carmine, and produced so abundantly that last year's shoots, some 10 to 12 feet in length of growth, were covered from base to top with bunches



of flowers from each eye or bud, the flowers on the bunches opening in succession. The display was thus kept up for nearly six weeks, during which it was seen by many leading amateurs and others, and pronounced novel and most decorative. Award of merit by Royal Horticultural Society and certificate of merit by Royal Botanical Society. Those who have seen the rose at Kew when in bloom pronounce it a magnificent sight. From the Catalogue of A. Blanc & Co., Philadelphia.

**The New Seedling Variegated Leaf Canna**

**JOHN WHITE.**

In the Fall of 1894 this novelty in cannas originated in a batch of seed taken from Emile Leclerc. Since that time it has been severally tested both under glass and in the open with most satisfactory results, retaining its color under all tests and standing the sun exceptionally well, making it very valuable as a decorative bedding plant for outside work, as well as exceedingly valuable as a pot plant for conservatory and greenhouse decoration. The leaves when young are of a pale yellow, with narrow margins of dark red, the yellow surface being dashed and spotted with green. They retain this color until they gradually mature by losing the yellow and gaining a deep suffusion of pink, with an admixture of green, later becoming green and yellow. The plant in this condition is decidedly striking and novel, and arrests the attention of plant lovers the moment they come in contact with it. It reproduces itself perfectly



from seed. It is of dwarf habit, attaining a height of about 3 feet, and growing strong and vigorous. The flower is a bright scarlet, and although small compared with the large varieties, it has a peculiar value of its own in that it shows such a contrasting decorative effect among the light and beautiful foliage. Without doubt it is a variety that progressive florists cannot afford to be without.

From Price List of John White, Elizabeth, N. J.

**LYGODIUM JAPONICUM.**

This pretty and elegant fern is a native of Japan and China, and the most popular member of the whole genus. It is but very little known among florists, although considering its usefulness, it should be grown quite as much as aspidistra, in substitution of which it readily can be used.

It is very easily grown, and climbs at once around any support given. The shoots grow 8 to 10 feet long, forming light festoons, which are exceedingly graceful for table or other decorations. The leaflets are from 2 inches upwards in length, nearly as broad, and the shape triangular. The primary petiole is very short, and the secondary from a half inch upwards in length. Terminal segments are halberd shaped, whereas the lateral ones are unequal and not articulated at the base. These are found two to three on each side.

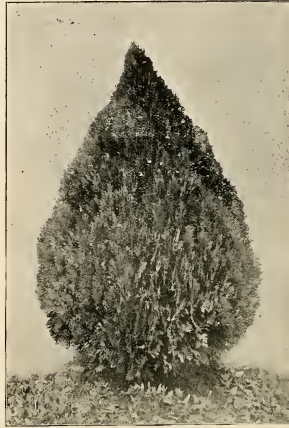
The leaves are of a papery texture, a most beautiful pale green color, if grown very near the light, whereas if grown in darker places the color will be a delicate pale yellow. (This latter is considered at present quite a novelty on the other side of the Atlantic, and the Lygodium is in unprecedented demand for florists' use.) This species is particularly grown to advantage in baskets. These baskets should be of a size not smaller than 12 to 14 inches in diameter. Three plants put in one, between each chain, will fit a remarkably short time make an elegant specimen, while some of the largest shoots are trained upwards around the chains; those of medium growth remain in the center of the basket, and allowed to hang all around the sides, the whole being soon covered completely.

From Catalogue of H. H. Berger & Co., San Francisco.



### Double, Large-Flowering CYCLAMEN.

Cyclamens are among the most beautiful Winter and Spring flowering plants for the window and greenhouse. Not only are the flowers of striking beauty, but the foliage is also highly ornamental. This new double-flowering strain is even more beautiful, each flower having usually eight to ten petals, often twelve to fifteen, which are more spreading than in single varieties. There is the same range of colors, crimson, pink, white, spotted, etc., and, like all double flowers, they remain much crisper. The strain is not yet quite fixed, but produces a sufficient proportion of doubles to justify us in offering it this season.



### BIOTA Aurea Nana.

This is a seedling of *Biota semper aurea* and originated ten years ago in our grounds. The original plant measures only 36 inches in height, is of most perfect form, and surpasses all the other varieties of *Biota aurea* so far introduced. During Fall and Winter the foliage assumes a beautiful golden color, and in Summer is of bright green. It has also the merit of being perfectly hardy in the latitude of New York. Nothing is more desirable in the way of a dwarf conifer. It has also proven valuable as a pot plant.

From the Catalogue of P. J. Berckmans, Fruitland Nurseries, Augusta, Ga.

From the Catalogue of Peter Henderson & Co.



### NEW HYBRID WICHURAIANA ROSES.

The habit of these new roses is the same as that of the *Rosa Wichuraiana*, or Memorial Rose. The growth is creeping, and the plants, therefore, can be used to cover the ground, stems of trees, pillars, posts, trellises, or any other purpose desired. They are also suited to pot culture. They are the hardiest roses I know of, and will stand any climate or exposure. They thrive well in the poorest soil or on a gravel bank. The foliage is finely cut, thick of a leathery substance bright green, shining as if varnished, not subject to mildew or any insect, but keeps its full beauty until almost Christmas. The flowers are produced in the greatest profusion, so that a two or three year old plant will bear several thousand most exquisite blossoms, which are deliciously fragrant and last a long time in perfection.

**MANDA'S TRIUMPH.**—This rose is of free growth, luxuriant foliage, and produces large clusters of double pure white flowers, two inches in diameter, beautifully imbricated and well formed, very sweet scented.

**UNIVERSAL FAVORITE.**—This is the most vigorous plant of the set. The long branching shoots are covered with dense bright green foliage. The double flowers are over two inches in diameter, and of a beautiful rose color, similar to the Bridesmaid, and deliciously fragrant. A great variety for any purpose.

**SOUTH ORANGE PERFECTION.**—This is a gem, growing freely close to the ground, and having multitudes of the most perfectly formed double flowers, about one and a half inches in diameter, soft bluish pink at the tips, changing to white. It lasts a long time in perfection.

**PINK ROAMER.**—This is without question a hybrid between the Sweetbrier and *R. Wichuraiana*, and carries these characteristics in bloom, while the growth, which is very rampant, and the luxurious foliage, partake more of the latter. The single flowers, which are produced in close heads, are nearly two inches in diameter, bright rich pink, with almost a white center, which lightens up the orange-red stamens, producing an effect which, combined with fragrance, makes it one of the most valuable roses in cultivation.

The following awards to these new roses have been made: Manda's Triumph, silver medal from the New York Florists' Club; certificate from the New York Gardeners' Society; honorable mention from the Massachusetts Horticultural Society.

Universal Favorite.—Certificate of Merit from the New York Florists' Club.

Pink Roamer and South Orange Perfection were also awarded a certificate by the same Society.

From the Catalogue of W. A. Manda, South Orange, N. J.

**CHRYSANTHEMUM LEONIDAS.**

This variety is of an amaranth, shaded maroon color, very large flower, with straight flat forets forming a bold imposing reflexed bloom, with good stem and



foliage. As an exhibition flower this will prove a very distinct and valuable variety. Best on terminal buds, but larger on crown. Season end of Oct. to 30th Nov.; height 3 feet. Certificate Chrysanthemum Society of America at Philadelphia.

From the Catalogue of John N. May, Summit, N.

**New Decorative Cactus Dahlia Clifford W. Bruton.**

The grandest yellow dahlia ever produced, and the greatest acquisition since the introduction of Nympha. The flowers are very large, 5 to 6 inches being the average size; perfectly full to the center, while the outer petals reflex to the stem. The color is a pure solid yellow of the clearest, richest shade. Unlike most varieties there is no green center at any time, not even when the buds are first expanding. The immense flowers are borne on long stems, two to three feet and, as exhibited at Philadelphia and New York, were a short distance away mistaken for large yellow chrysanthemums. Although exhibited in the prize collection only it was awarded a special diploma by the American Institute at Madison Square Garden exhibition, New York.

W. P. Peacock, Atco, N. J., originator and introducer.

**Double White Fringed Poppy.**

This splendid flower is the outcome of the labors of an enthusiastic flower lover who has been skillfully and patiently at work on it for years. Starting with the old Double White Carnation Poppy, he has increased the number and length of the petals and their purity of color, at the same time diminishing their width until he has produced an immense, dazzling white flower, so double and yet so finely divided that it resembles a ball of silk floss. It is rare to find a plant coming so absolutely free from variation as this does, and it is evident that there has been great care used in its development. It is a most distinct and evident improvement on any form of Carnation Poppy in cultivation, and will be welcomed by all flower lovers, particularly those who still remember lovingly the flowers that mother used to have in the garden at home, and it is so delicately beautiful that it will bear comparison with the finest production of the greenhouse.

Introduced by D. M. Ferry & Co., Detroit, Mich.



**New Chrysanthemum-Flowered HELIANTHUS.**

The new chrysanthemum-flowered helianthus has an entirely different appearance from the old helianthus that has been so popular for many years as a garden plant; the



blooms do not have that appearance of the common sunflower, the flowers opening from the center with a long narrow petal, similar to the chrysanthemum, and keeping this resemblance until fully opened. The petals are long enough to completely hide the small, green foliage on back of bloom, which makes it not unlike the "Lincoln chrysanthemum," only the color is a clear orange. The photograph was taken of one plant grown from seed planted in May. This helianthus was awarded a certificate of merit by Massachusetts Horticultural Society.

From the Catalogue of W. W. Rawson, Boston, Mass.



**NEW POMPON or BOUQUET DAHLIAS.**

This class is an especial favorite with a great many on account of the beautiful form and brilliant colors. The accompanying illustration, representing a bouquet of new pompon dahlias shows the beautiful forms, but the rich shades and delicate tints must be seen to be fully appreciated. The following varieties are represented; they embrace every shade from pure white to almost black, and have won highest honors everywhere, including cash prizes and medals: Allie Mourey, Beauty Inconstant, Daybreak, Elegance, Fairy Queen, Le Petit Jean, Little Bessie, Little Cactus, Little Diavolo, Miss Lou, Kramer, Prince Charming, Red Piper, Snoweald, Sprig.

From the Catalogue of W. P. Peacock, Atco, N. J.

THREE NEW ROSES.

The undermentioned three new roses proposed to be great acquisitions. They are companion roses, "half sisters" in fact, by blood relationship. They were originated by the well-known German rosarian, Peter Lambert, who has produced several other roses of exceptional value. **AGLIA**, or **YELLOW RAMBLER**, is a seedling from *Rosa polyantha Sarmientosa*, Siebold's Reve d'Or. This variety has been mentioned in our columns once before, and will probably be the most popular of the three, since it is said to be the first and only yellow climbing rose which has any appreciable degree of hardiness. The introducers say *Aglia* has withstood, unprotected and without injury, a continued temperature from zero to 2 degrees below, and with slight protection in the Winter it should do well anywhere that other roses succeed. It is therefore a great acquisition to our northern gardens. The color is a clear, decided yellow. The blossoms are of moderate size, cup-shaped, nearly full, of very pretty form, very sweetly scented, and last three to four weeks without fading.

**EUPHROSYNE** or **PINK RAMBLER**, a seedling from *Rosa polyantha Sarmientosa*, Siebold's *Mignone*. Color a clear light red, with numerous golden anthers. A very profuse bloomer and vigorous grower. Similar to *Aglia* in nearly all respects save color.

**PUALA** or **WHITE RAMBLER**, a seedling from *Rosa polyantha Sarmientosa*, Siebold's *Paquerette*; pure white. In other characteristics it is very similar to *Aglia*.

The following information is furnished by the introducers:

"These three roses have in common the following characteristics: they are all very strong, rapid growers, making shoots from 8 to 10 feet high in a season. They all bloom in immense pyramidal clusters after the manner of *Crimson Rambler*. Upon *Aglia* have often been counted as many as 150 blossoms in a bunch. And here it is interesting to note the strong probability of blood relationship between these three roses and the now well known *Crimson Rambler*. The *polyantha Sarmientosa*, which, as will have been noted, was the seed parent of the 'Three Graces' was brought by Siebold from Japan, from which country also comes the *Crimson Rambler*. The *Crimson Rambler* has a great many characteristics which tend to show that it was a chance seedling from this *Rosa polyantha Sarmientosa*, and if this is the case, it would complete the connection between *Crimson Rambler* and the 'Three Graces.' This supposed relationship is rendered still more probable by the very considerable similarity between them in wood, foliage, habit of growth and manner of blooming."

Messrs. Jackson & Perkins Co., of Newark, N. Y., are propagating and introducing these roses in this country, as the representatives of the originator, under an arrangement they have effected with Mr. Lambert.



MAMMOTH FRINGED HOLLY-HOCK, "ALLEGHENY."

An entirely new departure in this grand old garden favorite which has much to commend it. The mammoth flowers are wonderfully formed of loosely arranged fringed petals, which look as if made from the finest China silk, and when out are hardly recognizable as a holly-hock, having none of the formality of the ordinary type. The color varies from the palest shiraz-pink to deep red. The plants are of majestic growth, sending up spikes 6 to 7 feet high, and are of a strong constitution, not being troubled with the disease so prevalent among holly-hocks. In free and persistent flowering, it is quite distinct from the old type, coming into bloom in June and lasting until frost, every bud opening and the plant looking well at all times.

From catalogue of Henry A. Dreer, Inc.

NEW MARGUERITE.—"Giant Pearl."

This new variety is superior in size and habit to any in cultivation. It is truly a giant in size, the individual flowers often measuring 3 inches and over in diameter. The snowy white petals are arranged in two rows around a dazzling yellow center, and are of good substance. Habit of the plant is very compact, being much more symmetrical in growth than some of the older varieties now in cultivation. The introducer writes that he has in his garden every variety of *Marguerite* in cultivation, but none of them approach in size or beauty the *Giant Pearl*.

From Catalogue of Pitcher & Mando, Inc., Short Hills, N. J.



NEW DWARF EARLY FLOWERING COSMOS "DAWN."

This new variety of *Cosmos* comes into full bloom in July and continues a mass of bloom until cut down by severe frost. This feature alone is sufficient to stamp it as a novelty of the first class and will make their successful cultivation possible in the most northerly states and Canada; but added to this, it is of dwarf, compact growth, growing only 4½ feet high, while the old variety, growing alongside, towers up nearly 7 feet, a victim to the first strong wind. The flowers are fully as large as in the best selections of the old type, the color is a beautiful white, relieved by a delicate tint of rose at the base of the petals, altogether the finest novelty introduced in many years. The originator, who resides in Northern New York, writes about it as follows: "Originated from seed purchased from your firm (H. A. Dreer) four years ago. We got only one plant out of the lot and saved the little seed therefrom to try another season. All the plants raised from this seed began flowering in July, and none of them reverted to the original late flowering type; it has acted in this way ever since, and is certainly a great improvement on the original for our northern country, as we rarely can flower the common kind, they being cut down by frost before fairly in bloom. Plants of the new variety grow no higher than 4 feet 6 inches, while the late flowering kind is more than 7 feet. It grows more compact and bushy. The flowers are as large as in the old variety, the petal being rather broader, which makes the flowers appear rounder; it is a very free bloomer, color pure white, with a tinge of rose. Begins to bloom in July and lasts until frosts cut it down; it is always loaded with flowers, and is not apt to be blown over by the wind, as the old tall variety."

From the catalogue of Henry A. Dreer, Inc., Phila

**New Carnation**

**MRS. CHAS. H. DUHME.**

This is a seedling of 1892, raised by Fred. Dornier & Son, Lafayette, Ind. The color is a lively pink; large flower, fragrant, with good calyx, on strong, stiff stem. Plant vigorous, erect grower, a very early, free, and constant bloomer, much more so than any of the light pink varieties, rivaling Scot in productive ness, promises to be the best of the light pink commercial varieties. It was certified at Indianapolis and Philadelphia.

*From the Catalogue of Cottage Gardens (C. W. Ward, Manager), Queens, N. Y.*

**New Carnation**

**C. A. Dana.**

This variety is a cross of Scott on Uncle John, originating with Fred. Dornier & Son, Lafayette, Ind. The color is a delicate shell pink; plant is a vigorous, wiry grower, of erect habit, and a very good bloomer; medium to large flower on stiff, wiry stems; color very soft and exceptionally pleasing; flower a splendid keeper; one of the most attractive pink carnations.

*From the Catalogue of Cottage Gardens (C. W. Ward, Manager), Queens, N. Y.*



New Carnation C. A. Dana.



New Carnation Mrs. C. H. Duhme.

**DWARF PAPAYA (CARICA PAPAYA.)**

A magnificent bedding plant for the north, of the easiest culture, as easy to grow as a ricinus. It forms a branchless palm-like trunk, crowned with a magnificent head of the grandest leaves, each 2 to 3 feet in diameter, deeply cut and divided, and on petioles 3 or 4 feet long. The leaves are of a rich, dark green color, with white midribs and veins, forming a beautiful contrast. The male flowers are produced on long racemes, are pale yellow and waxlike, somewhat resembling in size and shape those of the Catalonian jessamine, and are most exquisitely fragrant. The female flowers are much larger, are produced in small clusters at the base of the petioles, and are succeeded by most curious and odd melon-like fruits. The male plants are the most beautiful, and the flowers are produced in such extreme

abundance, that a good sized plant will have thousands of flowers and buds on it at once, and so fragrant as to perfume the air for yards. Each raceme continues to produce flowers until the end of the season. They are splendid for cutting, lasting for days.

Not only is this one of the grandest of all bedding plants, but it is also a very valuable decorative plant, somewhat resembling a palm, and quite as beautiful, attaining a large size in a short time. No plant is easier grown bedded out.

We have spoken of its merits as an ornamental plant only; it also has its uses, producing a beautiful large orange colored fruit, large as a musk melon, exceedingly rich and spicy, and sometimes called "vegetable papain," from the fact that the fruit is a remedy for indigestion. It also has many other important properties; as, easily fruited in a greenhouse as tomatos.

*Description furnished by The Rose Valley Nurseries, Dongola, Ill.*

**New Carnation MAYOR PINGREE.**

The color of this carnation is a clear lemon yellow, lightly marked with pink and occasionally splashed with white. The plant is a very strong, robust grower, continu-



House of New Yellow Carnation Mayor Pingree, grown by J. Britmeyer & Sons, Detroit.

ous bloomer, and not a cropper; blooms measure 2 1/2 to 3 inches and over in diameter. Stems extraordinarily stiff, and from 18 to 30 inches long as the season advances. It is an excellent keeper and very productive. Cuttings strike readily. The variety promises to be a splendid yellow commercial carnation. It has been certified wherever shown.

Our photograph shows a house of Mayor Pingree carnation as grown by the originators and introducers,

*John Britmeyer & Sons, Detroit, Mich.*

**CHRYSANTHEMUM Mrs. John J. Glessner**

This is a massive bloom, first opening light bronzy yellow, whirled in form. When fully developed the color is a light yellow; the bloom is of irregular outline, the florets turning and twisting in every direction. It is a rival to Mayflower in size, but more globular in form. It was shown only before Chicago and Cincinnati committees, where it scored 90 and 86 points respectively. The parentage is Ed. Hatch and Mrs. Jerome Jones.

*The originators and introducers are Nathan Smith & Son, Adrian, Mich.*

**NEW CARNATION MORELLO.**

This red seedling carnation is a cross between President Garfield and a crimson seedling, originated five years ago. The originators have grown it during that time for cut flowers, and the blooms sold well. The flowers have been uniformly excellent, color very taking; blooms large, of good form, fragrant and borne on long, stout, wiry stems. The flowers have regularly commanded the highest price of any carnation in the Chicago market, and the growers have found it healthy and vigorous. One grower in Michigan says of it: "We have seen Morello growing in four different soils and under different conditions of temperature, also in leaches and solid beds, and under every condition it has far surpassed any other scarlet carnation we have ever seen. The



House of Carnation Morello.

plants are of strong, robust and upright growth; the foliage covered with a heavy bluish lustre, and the flowers borne on very long and strong stems. The blooms are produced very freely for such large flowers, which are three inches or over in diameter. In color it is a bright scarlet when first open, becoming slightly darker with age. It lasts well either on the plants or after being cut. Altogether we believe it to be a decided improvement over anything now on the market, and the scarlet carnation of the future." Morello was certified at Milwaukee, Chicago and Cleveland Flower Shows.

*The originators and introducers are Hopp and Lemke, East Grand Rapids, Mich.*

### PHYSALIS FRANCHETII.

So called from physa or bladder, alluding to the inflated calyx; ground or Winter cherry, Ord. Solanaceae. This particular variety of the species is a native of Japan and China, and has only lately attracted attention. It is in every way superior to any other variety known, the flowers being a pure white, the leaves large, of a beautiful light green, very ornamental. The flowers are solitary in the axils of the branches. The inflated calyx forms around the blossom as the seed or berry ripens, growing larger and of a more brilliant red on reaching maturity. The color is of the most intense and brilliant scarlet, and as the time of its fruiting falls in the Winter or Christmas holidays, its growing in greenhouses could not fail to be of value to every florist. Another point to recommend it to the grower is its easy propagation, and its adaptability to any common soil. Propagation is effected by seeds or division. The calyx, if left on the plant, will in due course become skeletonized, affording another pretty change in the appearance of the plant. The physalis is a half hardy perennial.



FRUITING BRANCH OF PHYSALIS FRANCHETII.

The great beauty of the calyx is lost in the picture, as the superb coloring which constitutes its chief beauty cannot be shown.

From H. H. Berger & Co., San Francisco, and other introducers.

[A very handsome colored plate of this Winter cherry appeared in the London Garden, of March 28, 1896. A writer in that magazine says: "The fruits of both this and the familiar *P. Alkekengi* are utilized in the native cookery much as we use the nearly related *Lycopersium* or tomato, but, of course, it is for the splendor of the calyxes that we value these perennials. *P. Franchetii* should have a strong soil, deep sandy, and thoroughly well dug, to provide ample space for the underground roots to develop. Plant it in a bold group to get the full richness of fine coloring, and this will provide material for the house. Few things last so well when gathered as the physalis. I have stems of it still bright that have been cut for over a year, those of *P. Franchetii* among the number. Associate them with the Silvery Honesty, graceful dried grasses, and the Sea Hollies, delightful things to compose Winter decorations."—Ed.]

### NEW GIANT FLOWERING ANTIRRHINUMS.

These handsome and profuse flowering plants have long been favorites in our gardens. They are of very easy culture, even in rather dry locations, growing steadily and producing quantities of flowers throughout the summer and autumn, from spring-wood double, although, strictly speaking, they are perennials. The New Giant Flowering Antirrhinums represent the highest types yet attained. The flowers are not only nearly double the size of the older sorts, but are closely set on the stems; the colors are also clear and more brilliant. The plants are compact and bushy, about one foot high, and are literally ablaze with bloom for months, rendering them of exceptional value for garden ornamentation.

From the Catalogue of Peter Henderson & Co.



### New Imperial Japanese Morning Glories.

These grand new morning glories from Japan are remarkable for the large size and exquisite new colors of the flowers, with magnificent foliage, often beautifully blotched. Of strong, robust growth, the vines grow quickly to a height of 12 to 20 feet.

They are of all shades of red, from the most delicate pink to the most brilliant crimson and maroon, and innumerable shades of blue, from pale lavender to richest indigo and royal purple; also white, yellow, gray, slate, copper color, brown, bronze, almost black, and many other odd shades not found in any other flower. Many varieties have a distinct marginal band of a different color from the rest of the flower, and some are as elegantly spotted with pink, crimson, blue, brown, etc., as the finest glorioxias; others are striped, blotched, mottled, rayed, and shaded in an indescribable manner, often having seven or eight colors and tints in one flower. Many are of very odd and singular forms; some have the petals separate and distinct clear to the base, others have the tube of the flower bent down on itself at a sharp angle, and then bent back again."

From the Catalogue of W. Atlee Burpee & Co., Philadelphia.



### THE NEW GIANT CALIFORNIAN DAISY.

(*Chrysanthemum Frutescens Gigantum*.)

This is one of the best Californian novelties of recent introduction, and is truly a giant in size and in every way superior to all the older varieties now in cultivation. The habit of the plant is very compact and symmetrical. The individual flowers are gigantic in size, measuring fully  $4\frac{1}{2}$  inches in diameter. The petals are of good substance and are arranged in two rows around a bright yellow center. It is a very free flowering variety and the flowers last a long time in perfection. Was awarded a first class certificate by the New Jersey Floricultural Society, November 10, 1896.

From the Catalogue of Garrett & Rose, Jersey City, N. J.

### Cyclamen.

Our illustrations are reproduced from photographs kindly sent us by Professor John F. Cowell, of Buffalo (N. Y.), Botanic Garden. In an accompanying note the Professor says: "We have now growing in the garden, six species of cyclamen; but at this time, the principal interest centers in *C. persicum* and its varieties, to which we devote, for a time, one house 20x65 feet. The seed was sown in October, 1895, and they are now, probably, at their best, the 7-inch pot plants, of which there are about four hundred, run from forty to eighty open flowers, and the 6-inch from thirty to sixty. We have about fifteen distinct varieties, including the so-called double and the zonal-leaved. The photographs will show the habit of the plants and the amount of flower they carried at Christmas."

He also furnishes his method of culture, as under, which will prove interesting to our readers:

The culture of cyclamen is very simple, and there is no secret in getting good results. It only means strict attention to details on the part of the grower—I mean the attention of a trained gardener. Our methods of growing may differ from that of some other successful growers, and, as you request, I will give it, hoping that it will be of interest to some of your readers.

For flowering at Christmas, we like to sow the seed about the first of October. For Easter bloom probably February is early enough, as the seedlings come along faster when they feel the warm sun of Spring. As a rule, however, it takes about fifteen months to get them into their best condition. The seed, which should be but lightly covered with leaf mould, is best germinated in a temperature of about 70 degrees Fahr., and this temperature, by fire heat, will suit the young plants admirably, until they are ready to go out for the summer.

When the seedlings show the second leaf, prick into thumb pots, using a mixture of virgin loam and leaf mould; place in the sun near the glass and syringe frequently in bright weather.

If your loam is stiff, see that you incorporate enough shara sand to render drainage easy and sure, for the plants will require watering often, and if the soil does not dry out, it will become sour, and the plants will damp off. See that your ventilation is good. Avoid a stagnant atmosphere—keep it moist and moving.

By the middle of March, October sown plants should be sufficiently rooted to hold the ball, and will need shifting into 3 or



Plants of *Cyclamen Persicum*, Grown at Buffalo Botanic Garden.

2½ inch pots, using in addition to the former compost a little fine manure and a sprinkle of bone meal. Replace near the glass and syringe freely. By the first of June preparations should be made for removing them to their Summer quarters.

For this we use a shallow frame without sides, and with a rail at front and back to carry shades or sash, as may be needed. Shift the plants into 3½ inch pots and plunge in coal ashes. Select a position where full sun and air can be had. Shading will not be needed except during the middle of the brightest days. For this purpose we use the lightest quality of "Plant-bed cloth." No covering will be needed at night, except to exclude heavy rain, until Fall. When the cool dewy nights of August come cyclamen begin to grow rapidly, and should be shifted as they need it into five.

It is surprising how fast they will grow now, and in four or five weeks many will cover a 7-inch pot. If hard frosts are due, cover at night with sash, but leave the shades open as long as possible. Use no shades after October 1, but let the sun pour down on them with all its force. In early November remove them to an airy

house and keep them cool. Remember that they now need very different treatment from that pursued in the earlier stages of their growth. Keep them rather dry as regards atmosphere, for they will now be showing flower freely, and there is danger if the buds damping off if cold water settles on the crowded crowns.

If troubled with aphid, syringe with or dip in a solution of "Rose Leaf Extract" of tobacco in the proportion of about one part extract to sixty of water. The plants treated as above will be at their best about the middle of January.

Bear in mind that though enormous plants can be grown in the shade, yet if you want bloom and short vigorous growth, the plants must be grown and ripened in the sun.

Our own plants, which are partially shown in the accompanying illustrations, are in various sized pots ranging from 5's to 9's. The photographs were taken before the holidays, and do not quite do the plants justice. The 5-inch pot plants now (January 31) carry from 20 to 30 open

blooms; the 6-inch, from 30 to 50; and the 7-inch, from 40 to 70. Some of the 9-inch carry many more, but while their foliage is magnificent, they do not show a proportionate increase in the number of blooms. As I write this, there stand on the window ledge in my office three plants which I consider models in many respects for market plants, and they may be briefly described as follows: A plant in a 5-inch pot measures 11 inches through the foliage, and has 28 expanded flowers and over 30 buds in sight; a 6-inch pot contains a plant which is 15 inches in diameter, with 39 open flowers and lots of buds to come; a 7-inch is 20 inches through, and is crowded with 63 open blooms and buds too numerous to mention—or at least to count with any accuracy.

These plants have been grown under the immediate care of Mr. Thos. Fitzgerald, and reflect great credit on his skill as a gardener.

JOHN F. COWELL.

Buffalo Botanic Garden,

January 31, 1897.

### THE NEW BEGONIA VULCAN.

(This will be botanically known as *Begonia Sempervlorens Atrococcineum*.)



This new variety originated at FORDHOOK FAIRM. It is a seedling of the well-known *BEGONIA VERNON*, which is so popular all over the world as the best variety for bedding on account of profusion of bloom, beautiful foliage, and hardy growth.

The many good qualities of *Vernon* are intensified in the *Vulcan*, which might be called appropriately the new scarlet *Vernon* *Begonia*. Plants raised by side the *Vulcan* is similar in growth and free-flowering character, while it completely eclipses the *Vernon* in the rich brilliancy of its flowers. Each plant is covered with flowers, which are of the most intense fiery carlet color, even the stamens being tipped with bright red. The entire plant is so brilliant that our head-gardener says, "It looks like a mass of burning coals." *BEGONIA VULCAN* comes perfectly true from seed and stands the most intense heat of summer, growing vigorously, without wilting, even in hot weather.

From the Catalogue of W. Atlee Burpee & Co.



Specimen *Cyclamen Persicum*, Grown at Buffalo Botanic Gardens.



Bouquet of Semple's Asters.



Bouquet of Semple's Asters.

## SEMPLÉ'S ASTERS.

A long the names of those who have devoted time and attention (which, of course, includes money) to the improvement of the aster, none is so familiar to your readers, perhaps, as that of James Semple, Bellevue, Pa., and a great deal of the improvement now seen in this flower has been due to his untiring efforts. Mr. Semple has been growing asters for forty years, and has made a speciality of them for twenty years, and in that time he has introduced three of the best varieties now grown.

Last Fall I prevailed upon him to furnish me with a few facts regarding his method of culture for the benefit of the readers of the EXCHANGE, and these I give herewith. The accompanying illustrations will show the high state of perfection to which the aster has attained under Mr. Semple's treatment.

The asters on his place are generally grown on the same ground, five or six years in succession, and he claims that by his mode of cultivation they can be grown on the same ground continuously. His soil is of a light loamy nature, and the aster seems to be indigenous to it, as no fewer than eight distinct wild varieties are growing on his ground. But a black walnut soil, in his estimation, is best suited to asters, it requiring very little fertilizing. He has used various fertilizers with moderate success, but the most beneficial, and which he uses now almost exclusively, is crushed lime. This he puts on the field before plowing at the rate of about 25 to 30 bushels to the acre, for a light loamy soil. A little cow manure is also good, but no horse manure should ever be used; he can tell at once whenever the latter has been applied. The seed for the main crop should be sown about the first of April, in small drills, and the plants pulled in the fields from the 15th of May on. When in full bloom the latter part of August or beginning of September the plants attain a height of about 5 feet, are well branched, with flowers on stems 30 inches in length,

thus making very desirable cut flowers. Some of your readers will no doubt remember the flowers exhibited at the S. A. F. Convention, held in our city, which were greatly admired.

Mr. Semple requires from two to three acres of ground for his stock to supply his demand for cut blooms and his seed trade, and it is a grand sight to see these fields when the plants are in their prime.

It readily can be imagined from the immense growth of his stock that he is not troubled with the disease of which one hears so much all over the country. He believes in the old saying, that "an ounce of prevention is worth a pound of cure," claiming that the application of crushed lime is a certain preventive against all diseases, as the gases from it kill all germs, and he has never been troubled thereby.

During the season, his cut blooms are always in great demand, as they are the best in the market, and his seed trade has increased yearly since he put the seed on the market. He has sold seed to growers and others in every state in the Union, excepting Georgia and Florida.

Mr. Semple only grows three varieties which he produced some years ago; they are—Semple's White, Miss M. J. Semple, pink; and a lavender shade which is not named. As the latter had such a delicate color, he thought it useless as a commercial flower, but in this he was certainly mistaken, for it is now very good here, and extremely so in California.

James Semple was born near Strathaven, Lanarkshire, Scotland, about sixty years ago. He came to America at the age of twelve, and has had almost a half century's experience in the business of gardening. He has been highly honored in the past by being chosen burgess of Avalon for a good many years, and still holds the position. He is an active and successful business man, honored and trusted everywhere, and it is through his untiring energy and innate ability that he has accomplished so much in the culture of asters. E. C. R.



Field of Asters Grown by James Semple, Bellevue, Pa.











